Smart Invest Gold
fastener business unit

# CATALOG
# ORGANE DE ASAMBLARE
# SI ELEMENTE DE FIXARE



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# Despre noi

*About us*

**Smart Invest Gold - Fastener Business Unit**
Obiectul nostru principal de activitate este importul și distribuția de organe de asamblare și elemente de fixare.

Inca de la inceputul infiintarii in anul 2012, misiunea noastra a fost de a stabili relatii excelente cu furnizorii si ceilalti parteneri.
Ne-am dorit acest lucru deoarece credem ca succesul si prosperitatea pe termen lung a organizatiei depind de calitatea acestor relatii.

Din mai 2013 am inceput demersurile pentru atestarea ISO 9001, iar în luna iulie am obtinut certificatul de management al calitatii. Scopul acestuia a fost de a consolida parteneriatele cu colaboratorii nostri, obtinand astfel un grad ridicat de incredere.

Managementul companiei noastre este constient de faptul ca personalul propriu reprezinta capitalul principal al organizatiei si ca acesta ocupa un rol important in desfasurarea activitatii noastre.
Tocmai de aceea ne concentram inspre a oferi clienţilor nostri o mare siguranţa şi un bun control asupra raportului calitate-pret, prin produse si servicii competitive.

Cea mai mare satisfactie pentru noi este atunci cand clientii revin multumiti. Acest lucru, demonstreaza faptul ca eforturile noastre au fost la nivelul asteptarilor lor, iar misiunea noastra a fost indeplinita cu succes.





***Smart Invest Gold - Fastener Business Unit***

*Smart Invest Gold `s main activity is the import and distribution of fasteners.*

*Since the beginning, in 2012, our mission was to establish long term relationships with our suppliers and partners. We believe they influence the quality of our services, therefore our success and prosperity.*

*In May 2013 we succeded in obtaining the ISO 9001 certification, qualification which strengthened our partnerships by obtaining a higher degree of confidence towards our collaborators.*

*The management of our company strongly believes that the most important element of the organization is the employee itself, being the engine of our activity, focused on offering to our customers competitive services, products and also control on quality – price ratio.*

*We believe our mission is successfully accomplished when our customers return satisfied with our products and services.*



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Pe lângă o gama diversificata de produse standardizate, oferim clienților și servicii personalizate în funcție de cerintele lor de achiziție.

Printre produsele standardizate se enumera:
- Suruburi cu filet metric
- Suruburi autoforante si autofiletante
- Piulite
- Saibe
- Stifturi si prezoane
- Nituri si pop-nituri

De asemenea, comercializam produse nestandardizate pe baza de desene tehnice si produse mai rar intalnite pe baza de comenzi ferme.

Ca si produse speciale mentionam urmatorele:
- Suruburi de fundatie
- Suruburi de sudura
- Suruburi pentru senile
- Distantiere
- IP -uri si EN -uri



Tipurile si grupele de material folosite pentru prelucrarea produselor sunt:
- Otel: 4, 5, 6, 8, 10, 12
- Inox: A1, A2, A3, A4, A5
- Alama
- Cupru
- Aluminiu
- Plastic, PVC, Poliamida
- ASTM

In ceea ce privesc serviciile de acoperire si tratament, oferim organe de asamblare cu urmatoarele placari:
- Zincare electrolitica (uzuala)
- Zincare termica (HDG)
- Brunare
- Cromare dura
- Nichelare
- Cuprare
- Argintare

*Our standardized range of products include:*
- *Screws with metric thread*
- *Drilling and self-tapping screws*
- *Nuts*
- *Washers*
- *Pins and studs*
- *Rivets*



*In addition to this wide range, we offer our customers products tailored to their requirements. The non-standardized products could be ordered based on technical drawings.*

*As special products we could mention:*
- *Foundation bolts*
- *Weld screws*
- *Screws for rail*
- *IP's and EN's*

*We cover a wide range of types and material groups used to manufacture our products, such as:*
- *Steel: 4, 5, 6, 8, 10, 12*
- *Stainless steel: A1, A2, A3, A4, A5*
- *Brass*
- *Copper*
- *Aluminum*
- *Plastic, PVC, polyamide*
- *ASTM*

*Regarding the coverage and treatment services, we provide fasteners:*
- *Zinc plated (usual)*
- *Hot dip galvanized (HDG)*
- *Black with treatment*
- *Chrome plated*
- *Nickeled*
- *Copper plated*
- *Silver-plated*

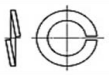
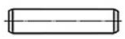
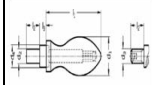
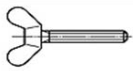
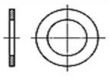
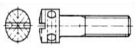




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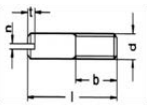
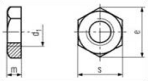
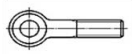
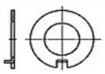
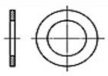
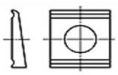
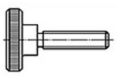
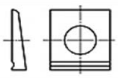
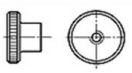
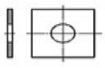
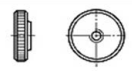
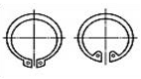
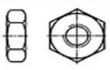
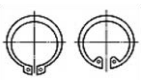
# Cuprins
*Content*


| DIN | Nume/Dimensiune<br>Name/Dimension | Cod<br>Code | Desen<br>Sketch | Pagina<br>Page | DIN | Nume/Dimensiune<br>Name/Dimension | Cod<br>Code | Desen<br>Sketch | Pagina<br>Page |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Stift conic forma "B"**<br>Taper pins<br>Ø1,5 ÷ Ø20 | **5.01** |  | 81 | 127<br>128 | **Saiba Grower (arc)**<br>Spring washer<br>Ø2 ÷ Ø100 | **4.03** |  | 71 |
| 7 | **Stift cilindric**<br>Parallel pins<br>Ø1,0 ÷ Ø20 | **5.02** |  | 81 | 137 | **Saiba elastica**<br>Waved and curved spring washer<br>Ø3,5 ÷ Ø30 | **4.04** |  | 71 |
| 84 | **Surub cu cap cilindric crestat**<br>Slotted cheese head screw<br>M1,2 ÷ M20 | **1.68** |  | 48 | 186<br>188 | **Surub cap T cu gat**<br>T-head bolt with neck<br>M6 ÷ M64 | **1.49** |  | 41 |
| 85 | **Surub cu cap bombat crestat**<br>Slotted pan head screw<br>M2,5 ÷ M20 | **1.69** |  | 48 | 258 | **Stift conic cu cep filetat**<br>Taper pins with thread ends and constant taper lengths<br>Ø5,0 ÷ Ø30 | **5.03** |  | 82 |
| 93 | **Saiba de siguranta cu limba**<br>Tab washer with long tab<br>Ø5,3 ÷ Ø43 | **4.13** |  | 74 | 261 | **Surub cap T**<br>T-head bolt<br>M8 ÷ M36 | **1.50** |  | 42 |
| 94 | **Splint**<br>Split pin<br>Ø3,2 ÷ Ø10 | **5.43** |  | 94 | 315 | **Piulita fluture**<br>Wing nut<br>M3 ÷ M24 | **3.25** |  | 63 |
| 98 | **Maner forma "N"**<br>Handle form “N”<br>Ø6 ÷ Ø24 | **5.44** |  | 94 | 316 | **Surub fluture**<br>Wing screw<br>M4 ÷ M24 | **1.52** |  | 43 |
| 125 | **Saiba plata standard**<br>Plain washer fine series<br>A1,6 ÷ A52 | **4.01** |  | 71 | 404 | **Surub cu cap crestat pentru sigilii**<br>Thumbscrew for seals<br>M3 ÷ M6 | **1.67** |  | 47 |
| 126 | **Saiba plata groasa**<br>Plain washers coarse series<br>Ø5,5 ÷ Ø56 | **4.02** |  | 71 | 417 | **Stift filetat cu crestatura si cep**<br>Slotted set screw with long point<br>M3 ÷ M12 | **1.32** |  | 33 |

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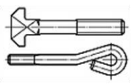
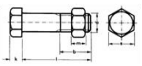
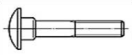
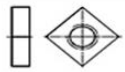
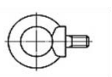
# Cuprins
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| DIN | Nume/Dimensiune<br>Name/Dimension | Cod<br>Code | Desen<br>Sketch | Pagina<br>Page | DIN | Nume/Dimensiune<br>Name/Dimension | Cod<br>Code | Desen<br>Sketch | Pagina<br>Page |
|---|---|---|---|---|---|---|---|---|---|
| 427 | **Stift partial filetat cu crestatura**<br>Partially threaded pin notch<br>M4 ÷ M10 | 5.22 |  | 88 | 440 | **Saiba plata serie mare pentru lemn**<br>Round washer<br>for wood connections<br>Ø5 ÷ Ø42 | 4.10 |  | 73 |
| 431 | **Piulita pentru tevi**<br>Pipe nut<br>BG1/4 ÷ BG2 | 3.37 |  | 66 | 444 | **Surub cu ochi**<br>Eye bolt<br>M5 ÷ M24 | 1.51 |  | 42 |
| 432 | **Saiba cu crestatura exterioara**<br>External tab washer<br>Ø3,2 ÷ Ø58 | 4.05 |  | 72 | 462 | **Saiba cu crestatura interioara**<br>Internal tab washer<br>Ø8 ÷ Ø100 | 4.11 |  | 73 |
| 433 | **Saiba plata redusa**<br>Plain washer for cheese<br>and round head screws<br>Ø1,5 ÷ Ø21 | 4.06 |  | 72 | 463 | **Saiba de siguranta cu limba si aripa**<br>Tab washer with long tab<br>and wing<br>Ø4,3 ÷ Ø31 | 4.12 |  | 73 |
| 434 | **Saiba patrata pentru profil tip "U"**<br>Square taper washer<br>for U sections<br>Ø9 ÷ Ø30 | 4.07 |  | 72 | 464<br>465<br>653 | **Surub cu cap striat si guler**<br>Knurled thumb screw<br>M3÷ M10 | 1.53 |  | 43 |
| 435 | **Saiba patrata pentru profil tip "I"**<br>Square taper washer<br>for I sections<br>Ø9 ÷ Ø24 | 4.08 |  | 72 | 466 | **Piulita striata inalta**<br>Knurled nut with collar<br>M3 ÷ M16 | 3.30 |  | 65 |
| 436 | **Saiba patrata pentru lemn**<br>Square washer<br>for wood constructions<br>Ø11 ÷ Ø26 | 4.09 |  | 73 | 467 | **Piulita striata**<br>Knurled nut<br>M3÷ M16 | 3.31 |  | 65 |
| 438 | **Stift filetat cu crestatura si con interior**<br>Slotted set screws<br>with cup point<br>M3 ÷ M6 | 1.31 |  | 33 | 471 | **Inel de siguranta pentru arbori**<br>Spring retaining ring<br>Ø3,0 ÷ Ø300 | 5.45 |  | 94 |
| 439 | **Piulita hexagonala joasa**<br>Hexagon thin nut<br>M2 ÷ M42 | 3.02 |  | 58 | 472 | **Inel de siguranta pentru alezaje**<br>Spring retaining ring<br>Ø9,0 ÷ Ø150 | 5.46 |  | 95 |

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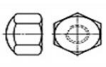
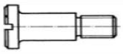
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|---|---|---|---|---|---|---|---|---|---|
| 529<br>7992 | **Suruburi de fundatie**<br>Foundation bolts<br>M8 ÷ M72 | **1.64** |  | 46 | 582 | **Piulita de ridicare**<br>**(Ochet-mama)**<br>Lifting eye nut<br>M6 ÷ M80 | **3.33** |  | 65 |
| ~546 | **Piulita rotunda**<br>**cu crestatura**<br>Slotted round nut<br>M3 ÷ M16 | **3.32** |  | 65 | 601 | **Surub cu cap hexagonal**<br>**partial filetat si piulita**<br>Hexagon head bolt<br>with nut<br>M5÷ M36 | **1.43** |  | 39 |
| 551 | **Stift filetat cu crestatura**<br>**si varf plat**<br>Slotted set screw<br>with flat point<br>M2 ÷ M16 | **1.38** |  | 36 | 603 | **Surub cu gat patrat**<br>**si cap bombat (torbant)**<br>Mushroom head<br>square neck bolt<br>M5 ÷ M16 | **1.44** |  | 39 |
| 553 | **Stift filetat cu crestatura**<br>**si varf conic**<br>Slotted set screw<br>with cone point<br>M1,6 ÷ M16 | **1.34** |  | 34 | 604 | **Surub cu cap inecat si nas**<br>Countersunk flat nib bolt<br>M6 ÷ M20 | **1.45** |  | 40 |
| 557<br>562 | **Piulita patrata**<br>Square nut<br>M3 ÷ M20 | **3.05** |  | 59 | 605 | **Surub cu gat patrat**<br>**si cap inecat**<br>Flat countersunk<br>square neck bolt<br>M6 ÷ M20 | **1.46** |  | 40 |
| 561 | **Surub cu cap hexagonal**<br>**si varf cilindric**<br>Hexagon set screw<br>with full dog point<br>M5 ÷ M16 | **1.08** |  | 21 | 607 | **Surub cu cap bombat**<br>**si nas**<br>Round head nib bolt<br>M8 ÷ M16 | **1.47** |  | 40 |
| 564 | **Surub cu cap hexagonal**<br>**si varf conic**<br>Hexagon set screw<br>with flat cone point<br>M5 ÷ M16 | **1.09** |  | 21 | 609<br>610 | **Suruburi de pasuire**<br>Hexagon fit bolts<br>M8 ÷ M30 | **1.48** |  | 40 |
| 571 | **Holz-surub**<br>**cu cap hexagonal**<br>Hexagon head wood screw<br>4 ÷ 16 | **2.17** |  | 57 | 660 | **Nit cu cap bombat**<br>Round head rivet<br>Ø2,0 ÷ Ø36 | **5.27** |  | 89 |
| 580 | **Surub de ridicare**<br>**(Ochet-tata)**<br>Lifting eye bolt<br>M8÷M80 | **1.10** |  | 22 | 661 | **Nit cu cap inecat**<br>Countersunk head rivet<br>Ø2,0 ÷ Ø36 | **5.28** |  | 90 |

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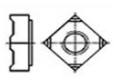
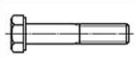
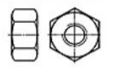
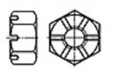
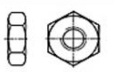
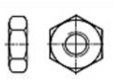
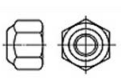
# Cuprins


| DIN | Nume/Dimensiune<br>Name/Dimension | Cod<br>Code | Desen<br>Sketch | Pagina<br>Page | DIN | Nume/Dimensiune<br>Name/Dimension | Cod<br>Code | Desen<br>Sketch | Pagina<br>Page |
|---|---|---|---|---|---|---|---|---|---|
| 674 | **Nit cu cap semibombat**<br>Mushroom head rivet<br>Ø3,0 ÷ Ø10 | 5.29 |  | 90 | ~913 | **Stift filetat locas hexagonal cap plat si filet UNC, UNF, BSW, BSF**<br>Hexagon socket set screws with flat point and UNC, UNF, BSW, BSF thread<br>M1,4 ÷ M24 | 1.35 |  | 35 |
| 906 | **Dop filetat locas hexagonal**<br>Hexagon socket pipe plug<br>M8 ÷ M39 | 1.26 |  | 32 | ~913 | **Stift filetat locas torx cap plat**<br>Torx socket set screws with flat point<br>M1,4 ÷ M24 | 1.37 |  | 36 |
| 908 | **Dop filetat locas hexagonal**<br>Hexagon socket screw plug<br>M8 ÷ M48 | 1.27 |  | 32 | 914 | **Stift filetat locas imbus**<br>Hexagon socket set screw with cone point<br>M1,6 ÷ M20 | 1.36 |  | 35 |
| 910 | **Dop filetat locas hexagonal**<br>Hexagon socket screw plugs<br>M10 ÷ M36 | 1.28 |  | 32 | 915 | **Stift filetat locas imbus si cep**<br>Hexagon socket set screw with dog point<br>M2 ÷ M24 | 1.39 |  | 37 |
| 912 | **Surub imbus**<br>Hexagon socket head cap screw<br>M2 ÷ M36 | 1.15 |  | 24 | 916 | **Stift filetat locas imbus si con interior**<br>Hexagon socket set screw with cup point<br>M1,6 ÷ M24 | 1.40 |  | 38 |
| ~912 | **Surub imbus cu filet UNC, UNF, BSW, BSF**<br>Hexagon socket head cap screw UNC, UNF, BSW, BSF thread<br>M2 ÷ M36 | 1.16 |  | 25 | ~916 | **Stift filetat locas imbus, con interior si filet UNC, UNF, BSW, BSF**<br>Hexagon socket set screw with cup point and UNC, UNF, BSW, BSF thread<br>M1,6 ÷ M24 | 1.41 |  | 38 |
| 912 | **Surub imbus cu pas fin**<br>Hexagon socket head cap screw with fine thread<br>M2 ÷ M36 | 1.18 |  | 27 | ~916 | **Stift filetat, locas torx si con interior**<br>Torx socket set screw with cup point<br>M1,6 ÷ M24 | 1.42 |  | 38 |
| 913 | **Stift filetat locas hexagonal cap plat**<br>Hexagon socket set screw with flat point<br>M1,4 ÷ M24 | 1.30 |  | 33 | 917 | **Piulita infundata standard**<br>Hexagon cup nut<br>M3 ÷ M24 | 3.19 |  | 62 |
| 913 | **Stift filetat locas imbus pas fin**<br>Hexagon socket set screw with flat point and fine thread<br>M1,4 ÷ M24 | 1.33 |  | 34 | 923 | **Surub cu cap crestat**<br>Slotted pan head screw<br>M3÷ M8 | 1.66 |  | 47 |

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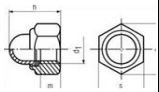
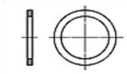
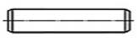
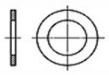
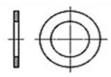
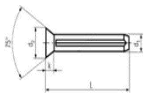
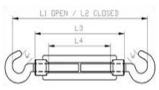
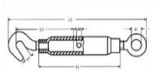
# Cuprins


| DIN | Nume/Dimensiune Name/Dimension | Cod Code | Desen Sketch | Pagina Page | DIN | Nume/Dimensiune Name/Dimension | Cod Code | Desen Sketch | Pagina Page |
|---|---|---|---|---|---|---|---|---|---|
| 928 | **Piulita de sudura patrata**<br>Square weld nut<br>M5÷ M16 | **3.11** |  | 60 | 938<br>939<br>835 | **Prezon**<br>Stud<br>M5 ÷ M20 | **1.55** |  | 44 |
| 929 | **Piulita de sudura hexagonala**<br>Hexagon weld nut<br>M3÷ M16 | **3.12** |  | 60 | 960<br>961 | **Surub cap hexagonal cu pas fin**<br>Hexagon head bolt with fine thread<br>M8 ÷ M24 | **1.03** |  | 19 |
| 931 | **Surub cap hexagonal partial filetat**<br>Hexagon head bolt partially threaded<br>M3 ÷ M48 | **1.01** |  | 18 | 963 | **Surub cap inecat (plat) crestat**<br>Slotted countersunk (flat) head screw<br>M2 ÷ M20 | **1.70** |  | 49 |
| ANSI B18.2.1<br>~931<br>~933 | **Surub cap hexagonal UNC, UNF, BSW, BSF**<br>Hexagon head bolt UNC, UNF, BSW, BSF<br>M3 ÷ M48 | **1.04** |  | 20 | 964 | **Surub cap oval crestat**<br>Slotted raised countersunk (oval) head screw<br>M3 ÷ M10 | **1.71** |  | 49 |
| 933 | **Surub cap hexagonal total filetat**<br>Hexagon head bolt fully threaded<br>M3 ÷ M33 | **1.02** |  | 19 | 965 | **Surub cap inecat, amprenta cruce**<br>Cross recessed countersunk (flat) head screw<br>M2 ÷ M8 | **1.72** |  | 50 |
| 934<br>555 | **Piulita hexagonala**<br>Hexagon nut<br>M1 ÷ M150 | **3.01** |  | 58 | 966 | **Surub cap oval, amprenta cruce**<br>Cross recessed raised countersunk (oval) head screw<br>M4 ÷ M10 | **1.73** |  | 50 |
| 935 | **Piulita crenelata**<br>Hexagon slotted and castle nut<br>M4 ÷ M100 | **3.06** |  | 59 | 975<br>976<br>ANSI B 16.5 | **Tije filetate**<br>Threaded rods<br>M2÷ M48 | **1.56** |  | 44 |
| 936 | **Piulita hexagonala joasa**<br>Hexagon thin nut<br>M8 ÷ M30 | **3.03** |  | 58 | 980 | **Piulita hexagonala cu autoblocare**<br>Self locking hex nut<br>M4÷ M36 | **3.16** |  | 61 |
| 937 | **Piulita crenelata joasa**<br>Hexagon thin slotted and castle nut<br>M6 ÷ M52 | **3.07** |  | 59 | 982 | **Piulita hexagonala cu autoblocare,insertie metalica**<br>Prevailing high torque type hexagon nut<br>M5 ÷ M42 | **3.15** |  | 61 |

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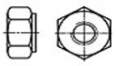
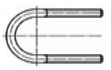
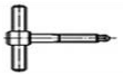
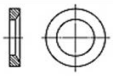
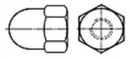
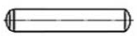
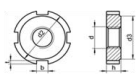
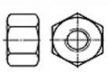
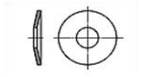
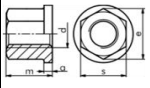
# Cuprins


| DIN | Nume/Dimensiune Name/Dimension | Cod Code | Desen Sketch | Pagina Page | DIN | Nume/Dimensiune Name/Dimension | Cod Code | Desen Sketch | Pagina Page |
|---|---|---|---|---|---|---|---|---|---|
| 985 | **Piulita hexagonala cu insertie de plastic** Prevailing torque type hexagon nut M3÷M48 | 3.13 |  | 61 | 1470 | **Stift de pasuire cu con de introducere** Full-length parallel grooved pin with pilot Ø1,5 ÷ Ø25 | 5.05 |  | 82 |
| ~985 | **Piulita hexagonala insertie de plastic UNC,UNF** Prevailing torque type hexagon nut UNC, UNF M3÷M48 | 3.14 |  | 61 | 1471 | **Stift etansare** Full-length taper grooved pin Ø1,5 ÷ Ø25 | 5.06 |  | 83 |
| 986 | **Piulita infundata cu autoblocare** Hexagon cup lock nut M4 ÷ M20 | 3.20 |  | 62 | 1472 | **Stift etansare** Half-length taper grooved pin Ø1,5 ÷ Ø25 | 5.07 |  | 83 |
| 988 | **Saiba distantier** Shim washer Ø8 ÷ Ø62 | 4.16 |  | 74 | 1473 | **Stift pasuire** Full-length parallel grooved pin with chamfer Ø1,0 ÷ Ø14 | 5.08 |  | 83 |
| 1433 | **Stifturi fara cap** Clevis pin without head 3,0 ÷ 100 | 5.20 |  | 87 | 1474 | **Stift** Half-length reverse-taper grooved pin Ø2,5 ÷ Ø25 | 5.09 |  | 84 |
| 1440 | **Saiba pentru bolturi** Plain washer for clevis pins Ø3,0 ÷ Ø60 | 4.14 |  | 74 | 1475 | **Stift** One-third-length centre grooved pin Ø2 ÷ Ø25 | 5.10 |  | 84 |
| 1441 | **Saiba plata** Type coarse washer Ø3,0 ÷ Ø60 | 4.15 |  | 74 | 1476 1477 | **Stift cu crestatura, cap inecat/rotund** Round head and countersunk head groved pin 2 ÷ 30 | 5.21 |  | 87 |
| 1444 1434 1435 1436 | **Bolt cu cap/cu gaura** Bolt with head/with hole Ø3 ÷ Ø36 | 5.34 |  | 91 | 1478 | **Intinzator cu 2 carlige la capete** Turnbuckle with studs and 2 hooks bolts M5÷M36 | 1.58 |  | 45 |
| 1469C | **Stift de pasuire** Groved pin, half length grooved with gorge Ø2,0 ÷ Ø8 | 5.04 |  | 82 | 1478 | **Intinzator carlig-ochi la capete** Turnbuckle with studs and hook and eye M5÷M36 | 1.59 |  | 45 |

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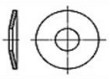
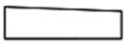
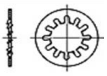
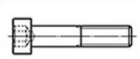
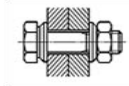
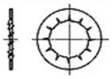
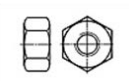
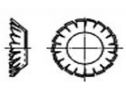
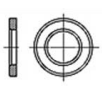
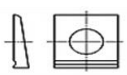
# Cuprins


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|---|---|---|---|---|---|---|---|---|---|
| 1478 | **Piulita intinzator** Turnbuckle nut M6÷ M64 | 3.21 |  | 63 | 2509 2510 | **Prezon- bolt filetat** Stud bolt for flanged connections M12 ÷ M180 | 1.54 |  | 43 |
| 1479 | **Piulita intinzator standard** Turnbuckle nut M6 ÷ M56 | 3.22 |  | 63 | 2510 | **Piulita hexagonala pentru prezoane** Hexagon nut for stud bolts M12÷M72 | 3.24 |  | 63 |
| 1480 | **Piulita intinzator** Turnbuckle nut M6÷ M64 | 3.23 |  | 63 | 3570 | **Surub forma "U"** U-bolt M6 ÷ M16 | 1.61 |  | 45 |
| 1480 | **Intinzator cu 2 ochiuri la capete** Turnbuckle with iron studs with 2 eyes M5÷ M36 | 1.57 |  | 44 | 6304 | **Surub "Tommy"** Tommy screw M6÷ M20 | 1.63 |  | 46 |
| 1480 | **Intinzator prezon-prezon la capete** Turnbuckle with studs and studs M5÷M36 | 1.60 |  | 45 | 6319C | **Saiba sferica** Spherical washer Ø6,4 ÷ Ø31 | 4.40 |  | 80 |
| 1481 | **Stift elastic serie grea** Spring-type straight pin Ø1,0 ÷ Ø20 | 5.11 |  | 84 | 6319D | **Saiba conica** Conical seat Ø7,1 ÷ Ø35 | 4.41 |  | 80 |
| 1587 | **Piulita infundata inalta** Hexagon domed cap nut M3÷ M30 | 3.17 |  | 62 | 6325 | **Stift cilindric** Parallel pin Ø2,0 ÷ Ø20 | 5.12 |  | 85 |
| 1804 | **Piulita canelata/ cu caneluri** Slotted round nut with grooves M8 ÷ M100 | 3.38 |  | 67 | ~6330 | **Piulita hexagonala inalta** Hexagon high nut M6 ÷ M48 | 3.04 |  | 58 |
| 2093 | **Arc disc** Disc spring Ø8 ÷ Ø150 | 4.17 |  | 75 | 6331 | **Piulita hexagonala inalta cu flansa** Hexagon high nut with flange M8 ÷ M30 | 3.39 |  | 67 |

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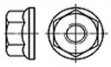
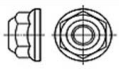
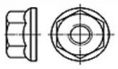
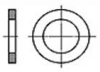
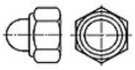
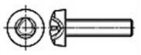
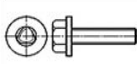
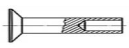
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|---|---|---|---|---|---|---|---|---|---|
| 6334 (3d) | **Piulita de cuplare** Hexagon long nut M6 ÷ M24 | 3.4 |  | 67 | 6883 | **Pana subtire** Thin taper key 1,5 ÷ 10 | 5.24 |  | 89 |
| 6340 | **Saiba plata - serie grea** Washer for clamping devices Ø6 ÷ Ø30 | 4.33 |  | 79 | 6885 | **Pana paralela forma "A"** Parallel key 2,0 ÷ 28 | 5.23 |  | 88 |
| 6796 | **Saiba conica tip arc** Conical spring washer for screwed connections A3 ÷ A24 | 4.30 |  | 78 | 6886 | **Pana dreapta** Taper key 1,5 ÷ 10 | 5.25 |  | 89 |
| 6797J | **Saiba cu dinti interiori** Lock washer internal teeth Ø2,2 ÷ Ø31 | 4.25 |  | 77 | 6888 | **Pana circulara** Woodruff key 1,5 ÷ 10 | 5.26 |  | 89 |
| 6797A | **Saiba cu dinti exteriori** Lock washer external teeth Ø2,2 ÷ Ø31 | 4.26 |  | 77 | 6912 7984 | **Surub cap imbus mic** Imbus with shallow head M4 ÷ M24 | 1.14 |  | 23 |
| 6798A | **Saiba cu cresataturi exterioare** Serrated lock washer Ø2,2 ÷ Ø31 | 4.27 |  | 77 | 6914 6915 6916 | **Suruburi de inalta rezistenta** Hexagon bolts for high strength M12÷ M30 | 1.11 |  | 22 |
| 6798J | **Saiba cu cresataturi interioare** Serrated lock washer Ø2,2 ÷ Ø31 | 4.28 |  | 77 | 6915 | **Piulita de inalta rezistenta** Hexagon nut for high strength M12 ÷ M42 | 3.28 |  | 64 |
| 6798V | **Saiba cu cresataturi exterioare forma V** Serrated lock washer Ø2,2 ÷ Ø31 | 4.29 |  | 78 | 6916 | **Saiba de inalta rezistenta** Plain washer for high strength structural bolting HV Ø12 ÷ Ø36 | 4.18 |  | 75 |
| 6799 | **Siguranta pentru arbori** Circlip for shafts Ø1,2 ÷ Ø24 | 5.38 |  | 93 | 6917 | **Saiba patrata de inalta rezistenta pentru profil tip I** Square taper washers for I-sections Ø9 ÷ Ø30 | 4.19 |  | 75 |

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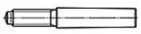
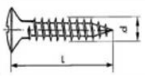
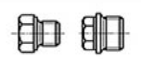
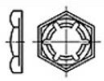
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|---|---|---|---|---|---|---|---|---|---|
| 6918 | **Saiba patrata de inalta rezistenta profil tip "U"** Square taper washer for U-sections Ø9 ÷ Ø30 | 4.20 |  | 76 | 7340 | **Nituri tubulare cu cap plat** Flat head tubular rivets Ø3,0 ÷ Ø8,0 | 5.33 |  | 91 |
| 6921 | **Surub cu cap hexagonal si flansa partial filetat/ total filetat** Hexagon flange screw M5 ÷ M16 | 1.05 |  | 21 | 7343 | **Stift elastic spiralat serie grea** Spring-type straight pin (coiled, standard duty) Ø2,0 ÷ Ø12 | 5.16 |  | 86 |
| 6923 | **Piulita hexagonala cu flansa cu striatii/ fara striatii** Hexagon nut with flange M3 ÷ M20 | 3.08 |  | 59 | 7344 | **Stifturi spiralate** Spring-type straight pin (coiled, heavy duty) Ø1,5 ÷ Ø10 | 5.17 |  | 86 |
| 6926 | **Piulita hexagonala cu flansa si insertie de plastic** Prevailing torque type hexagon nut with flange M5 ÷ M16 | 3.09 |  | 60 | 7346 | **Stifturi crestate serie usoara** Spring-type straight pins (slotted, light duty) Ø2,0 ÷ Ø30 | 5.18 |  | 86 |
| 6927 | **Piulita cu autoblocare si flansa** Self locking hex nut with flange M3 ÷ M20 | 3.10 |  | 60 | 7349 | **Saiba plata** Flat washer for bolts with heavy type spring pins Ø3,2 ÷ Ø31 | 4.31 |  | 78 |
| 6986 | **Piulita infundata cu insertie non-metalica** Hexagon nut domed cap nut with non-metallic insert M4÷M20 | 3.18 |  | 62 | 7500C | **Surub cap bombat trilobat** Pan head thread rolling screw for metric ISO thread M2 ÷ M12 | 1.75 |  | 51 |
| 7337 | **Pop-nituri Al/Ot si Ot/Ot Masterfix** Blind rivet Al/Ot and Ot/Ot Masterfix Ø3,2 ÷ Ø5,0 | 5.36 |  | 92 | 7500D | **Surub cap hexagonal trilobat** Hexagon flange thread rolling screw for metric ISO thread M2 ÷ M12 | 1.76 |  | 51 |
| 7338 | **Nituri semi-tubulare cu cap inecat** Countersunk head semi-tubular rivet Ø3,0 ÷ Ø8,0 | 5.31 |  | 91 | 7500M | **Surub cap inecat trilobat** Countersunk thread rolling screw for metric ISO thread M2 ÷ M12 | 1.77 |  | 51 |
| 7338 | **Nituri semi-tubulare cu cap plat** Flat head semi-tubular rivet Ø3,0 ÷ Ø8,0 | 5.32 |  | 91 | 7504K | **Surub autoforant cu cap hexagonal** Self drilling hexagon head screw with collar 3,9 ÷ 6,3 | 2.08 |  | 54 |

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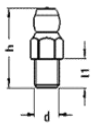
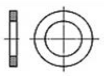
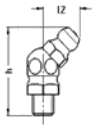
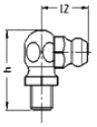
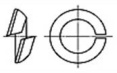
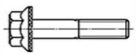
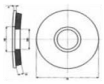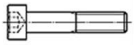
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|---|---|---|---|---|---|---|---|---|---|
| 7504N | **Surub autoforant cu cap bombat** Self drilling pan head screws 3,5 ÷ 6,3 | 2.09 |  | 54 | 7973 | **Surub cap oval pentru tabla** Slotted raised countersunk (oval) head tapping screw 2,2 ÷ 4,2 | 2.03 |  | 52 |
| 7504P | **Surub autoforant cu cap inecat** Self drilling flat CSK head screws 3,5 ÷ 6,3 | 2.10 |  | 54 | 7976 | **Surub cap hexagonal pentru tabla** Hexagon head tapping screw 2,9 ÷ 8 | 2.04 |  | 53 |
| 7505A | **Surub PAL cu cap inecat** Countersunk flat head chipboard screws 2,5 ÷ 6 | 2.14 |  | 56 | 7977 | **Stift conic cu filet exterior** Taper pin with external thread, unhardened Ø5,0 ÷ Ø30 | 5.13 |  | 85 |
| 7505B | **Surub PAL cu cap bombat** Chipboard screw, oval head 3 ÷ 6 | 2.15 |  | 56 | 7978A | **Stift conic cu filet interior** Taper pin hole drills Ø6,0 ÷ Ø40 | 5.14 |  | 85 |
| 7505C | **Surub PAL cu cap semibombat** Chipboard screw, semioval head 3 ÷ 6 | 2.16 |  | 56 | 7979D | **Stift cilindric cu filet interior** Taper pin hole drills Ø5,0 ÷ Ø40 | 5.15 |  | 86 |
| 7604A 7604C | **Dop filetat locas hexagonal** Light-duty hexagon head screw plugs M8x1 ÷ M52x1,5 | 1.29 |  | 32 | 7980 | **Saiba Grower (arc)** Spring washer Ø3 ÷ Ø48 | 4.21 |  | 76 |
| 7967 | **Contrapiulita (Piulita cu autoblocare)** Self locking counter nut/ Pall nut M6 ÷ M48 | 3.29 |  | 64 | 7981 | **Surub cu cap bombat pentru tabla** Cross recessed pan head tapping screws 2,2 ÷ 6,3 | 2.05 |  | 53 |
| 7971 | **Surub cap crestat pentru tabla** Slotted pan head tapping screw 2,2 ÷ 6,3 | 2.01 |  | 52 | 7982 | **Surub cu cap inecat pentru tabla** Cross recessed countersunk (flat) head tapping screws 2,2 ÷ 6,3 | 2.06 |  | 53 |
| 7972 | **Surub cap inecat pentru tabla** Slotted countersunk (flat) head tapping screw 2,2 ÷ 6,3 | 2.02 |  | 52 | 7983 | **Surub cu cap semiinecat pentru tabla** Cross recessed raised countersunk (oval) head tapping screws 2,2 ÷ 6,3 | 2.07 |  | 54 |

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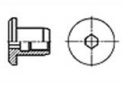
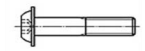
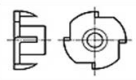
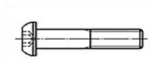
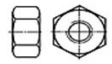
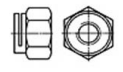
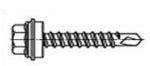
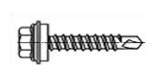
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| DIN | Nume/Dimensiune Name/Dimension | Cod Code | Desen Sketch | Pagina Page | DIN | Nume/Dimensiune Name/Dimension | Cod Code | Desen Sketch | Pagina Page |
|---|---|---|---|---|---|---|---|---|---|
| 7985 | **Surub cu cap bombat, amprenta cruce** Cross recessed pan head screw M1,6 ÷ M20 | 1.24 |  | 31 | 71412 | **Ungator, forma "A" 180°** Grease fitting form “A” Ø6 ÷ Ø10 | 5.47 |  | 95 |
| 7989 | **Saiba pentru constructii de otel** Washers for steel constructions Ø10 ÷ Ø41 | 4.32 |  | 78 | 71412 | **Ungator, forma "B" 45°** Grease fitting form “B” Ø6 ÷ Ø10 | 5.48 |  | 95 |
| 7990 | **Surub cap hexagonal structuri otel** Hexagon bolts for steel structures M12÷M30 | 1.12 |  | 22 | 71412 | **Ungator, forma "C" 90°** Grease fitting form “C” Ø6 ÷ Ø10 | 5.49 |  | 95 |
| 7991 | **Surub cu cap inecat si locas imbus** Hexagon socket countersunk head screw M3 ÷ M24 | 1.25 |  | 31 | 74361C | **Saiba arc pentru rotile vehiculelor si remorcilor** Spring washer for disc wheels for motor vehicles and trailers Ø12 ÷ Ø22 | 4.22 |  | 76 |
| 7993A 7993B | **Saiba de siguranta** Round wire snap rings and snap ring grooves for shafts and bores A:8,0 ÷ 125 B:8,0 ÷ 125 | 5.37 |  | 92 | Tensi-lock | **Suruburi cu autoblocare** Self locking fasteners M5 ÷ M16 | 1.06 |  | 21 |
| 7999 | **Surub inalta rezistenta - structuri otel** High strength fit bolt for steel structures M12÷ M30 | 1.13 |  | 23 | Verbus Ripp | **Surub cap hexagonal si flansa dantelata** Hexagon ribbed flange bolts M5 ÷ M16 | 1.07 |  | 21 |
| 9021 | **Saiba plata extra-larga pentru lemn** Washer with outside diameter 3xbolt diameter Ø3 ÷ Ø30 | 4.24 |  | 76 | ISO 14580 | **Surub cu locas hexalobular** Hexalobular socket head cap screw M4 ÷ M24 | 1.17 |  | 26 |
| ~11024 | **Ace siguranta** Spring cotters of a bolt Ø3,2 ÷ Ø6,3 | 5.39 |  | 93 | ISO 14581 | **Surub cu cap plat si locas imbus** Hexagon socket flat head screws M3 ÷ M12 | 1.19 |  | 28 |
| 28129 | **Piulita speciala** Clamp nut (for covers) M12 ÷ M34 | 3.34 |  | 66 | ISO 7379 | **Surub de reglare** Hexagon socket head shoulder screws 5 ÷ M20 | 1.20 |  | 29 |

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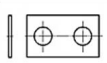
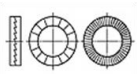
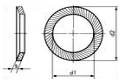
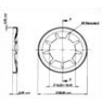
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| ISO 7380 | **Surub cu locas imbus si cap bombat** Socket button head cap screws M5 ÷ M8 | 1.21 |  | 29 | | **Piulita conector** Joint conector M6 ÷ M12 | 3.36 |  | 66 |
| ISO 7380 | **Surub imbus cap bombat si flansa** Hexagon socket button head screws with flange M3 ÷ M24 | 1.22 |  | 30 | | **Piulita cu gheara** Tee nuts with pronges M3 ÷ M10 | 3.26 |  | 64 |
| ISO ~7380 | **Surub cap bombat si locas torx** Torx socket button head screws M3 ÷ M20 | 1.23 |  | 30 | ANSI B 18.2.2 | **Piulita hexagonala UNC, UNF, BSW, BSF** Hexagon nuts UNC, UNF, BSW, BSF | 3.27 |  | 64 |
| | **Suruburi de sudura** Cheese head weld screws M3 ÷ M20 | 1.74 |  | 50 | | **Piulita hexagonala cu autoblocare THERMAG** THERMAG hexagon lock nuts M8 ÷ M42 | 3.35 |  | 66 |
| | **Surub cu ochi** Bent eye bolts M5 ÷ M36 | 1.62 |  | 46 | | **Piulite standard pentru spectru larg de utilizare Tip S, SS, CLS, CLSS** Self clinching nuts M2 ÷ M10 | 3.41 |  | 67 |
| | **Ancora conexpand standard** Standard conexpands anchor M5÷ M24 | 1.65 |  | 47 | | **Piulite standard pentru spectru larg de utilizare TIP CLA** Self clinching nuts M2 ÷ M6 | 3.42 |  | 67 |
| | **Surub autoforant cu cap oval** Self drilling screws wafer head 4,2 | 2.11 |  | 55 | | **Piulite standard pentru spectru larg de utilizare Tip SL** Self clinching nuts M3 ÷ M6 | 3.43 |  | 68 |
| | **Surub autoforant cap hexagonal** Farmer screws 4,2 ÷ 6,3 | 2.12 |  | 55 | | **Piulite standard pentru spectru larg de utilizare Tip H, HN, HNL** Self clinching nuts M6 ÷ M10 | 3.44 |  | 68 |
| | **Surub autoforant pentru acoperis** Screws for roofing and wall covering 4,2 ÷ 6,3 | 2.13 |  | 55 | | **Piulite speciale pentru table din otel inox Tip SP** Self clinching nuts M3 ÷ M6 | 3.45 |  | 68 |

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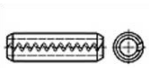
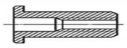
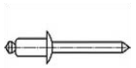
# Cuprins


| DIN | Nume/Dimensiune Name/Dimension | Cod Code | Desen Sketch | Pagina Page | DIN | Nume/Dimensiune Name/Dimension | Cod Code | Desen Sketch | Pagina Page |
|---|---|---|---|---|---|---|---|---|---|
| | **Piulite speciale**<br>**pentru table Tip SMPS**<br>Self clinching nuts<br>M2,5 ÷ M3,5 | **3.46** |  | 68 | | **Piulite autosertizate**<br>**pentru montaj in PCB si placi electronice**<br>**Tip KF2, KFS2**<br>Self clinching nuts<br>M2 ÷ M5 | **3.55** |  | 70 |
| | **Piulite flotante (in colivie)**<br>**Tip AS,AC**<br>Self clinching nuts<br>M3 ÷ M6 | **3.47** |  | 68 | | **Piulite autoexpandabile pentru PCB**<br>**si placi**<br>**electronice Tip KPS6**<br>Self clinching nuts<br>M3 ÷ M5 | **3.56** |  | 70 |
| | **Piulite flotante (in colivie)**<br>**autoblocante Tip LAS, LAC**<br>Self clinching nuts<br>M3 ÷ M6 | **3.48** |  | 69 | | **Piulite cu autoblocare la vibratii-aplicate in**<br>**conexiuni conectori/cablu**<br>**Tip CFN**<br>Self clinching nuts<br>M3 | **3.57** |  | 70 |
| | **Piulite autosertizate miniatura**<br>**Tip U, FEOX, FEX**<br>Self clinching nuts<br>M2 ÷ M6 | **3.49** |  | 69 | | **Saiba dreptunghiulara**<br>**cu 2 gauri**<br>Tab washers with two holes<br>Ø3,2 ÷ Ø31 | **4.23** |  | 76 |
| | **Piulite autoblocante miniatura**<br>(conforme MIL-N-45938/7)<br>**Tip UL, FEO, F**<br>Self clinching nuts<br>M2 ÷ M6 | **3.5** |  | 69 | | **Saiba RIPLOCK**<br>Washers RIPLOCK<br>Ø3 ÷ Ø130 | **4.34** |  | 79 |
| | **Piulite autoblocante**<br>**cu nylon Tip PL, PLC**<br>Self clinching nuts)<br>M3 ÷ M5 | **3.51** |  | 69 | | **Saiba NORDLOCK**<br>Washers NORDLOCK<br>Ø3 ÷ Ø130 | **4.35** |  | 79 |
| | **Piulite autoblocante**<br>**Tip LK**<br>Self clinching nuts<br>M2,5 ÷ M5 | **3.52** |  | 69 | | **Saiba SCHNORR**<br>Washer SCHNORR<br>1.7 ÷ 38 | **4.36** |  | 79 |
| | **Piulita extra plata**<br>**Tip F**<br>Self clinching nuts<br>M2÷ M6 | **3.53** |  | 70 | | **Saiba STAR-LOCK**<br>Washer STAR-LOCK<br>Ø2 ÷ Ø16 | **4.37** |  | 80 |
| | **Piulita extra lata**<br>**Tip B, BS**<br>Self clinching nuts<br>M3 ÷ M6 | **3.54** |  | 70 | | **Saiba cu striatii**<br>Ribbed lock washers<br>Ø3 ÷ Ø130 | **4.38** |  | 80 |

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# Cuprins


| DIN | Nume/Dimensiune<br>Name/Dimension | Cod<br>Code | Desen<br>Sketch | Pagina<br>Page | DIN | Nume/Dimensiune<br>Name/Dimension | Cod<br>Code | Desen<br>Sketch | Pagina<br>Page |
|---|---|---|---|---|---|---|---|---|---|
| | **Saiba EPDM**<br>Washers EPDM<br>Ø5,5 ÷ Ø8,5 | **4.39** |  | 80 | | **Dibluri pentru materiale izolante(polistiren)**<br>Plugs for insulating material<br>Ø8 ÷ Ø10 | **5.42** |  | 94 |
| **VSM 12786** | **Stifturi serie grea zimtat**<br>Heavy-duty spring tension pins with serrated slot<br>Ø1 ÷ Ø50 | **5.19** |  | 87 | **inox 1.4307** | **Bara rotund**<br>Round bar<br>H9 4 ÷ H9 38 | **5.50** |  | 96 |
| | **Piulita-nit cilindrica cu cap inecat**<br>Blind rivet nuts cylindrical and countersunk head<br>Ø4,0 ÷ Ø12 | **5.30** |  | 90 | **inox 1.4404** | **Bara rotund**<br>Round bar<br>H9 10 ÷ H9 50 | **5.51** |  | 96 |
| | **Pop-nituri**<br>Tubular rivets with core<br>Ø3,2 ÷ Ø5,0 | **5.35** |  | 92 | **inox 1.4571** | **Bara rotund**<br>Round bar<br>H9 14 ÷ H9 55 | **5.52** |  | 96 |
| | **Dibluri**<br>Wall plugs<br>Ø5 ÷ Ø16 | **5.40** |  | 93 | **inox 1.4305 sau 1.4541** | **Bara rotund**<br>Round bar<br>H9 6 ÷ H9 70 | **5.53** |  | 97 |
| | **Diblu cui percutie**<br>Hammer drive plugs (polypropylene, nylon)<br>Ø6 ÷ Ø16 | **5.41** |  | 93 | | **Lista alte produse**<br>Other products | | | 98-99 |
| | | | | | | **Date tehnice**<br>Technical specification | | | 100-108 |

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# Categorii produse
*Product categories*


| **Nr. categorie**<br>Nr. of category | **Denumire categorie**<br>Name of category | **Pagina**<br>Page |
|---|---|---|
| 1. | **Suruburi cu filet metric**<br>Metric screws | 18-51 |
| 2. | **Suruburi autofiletante si autoforante**<br>Self-tapping and self drilling screws | 52-57 |
| 3. | **Piulite**<br>Nuts | 58-70 |
| 4. | **Saibe**<br>Washers | 71-80 |
| 5. | **Altele**<br>Other products | 81-97 |




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# 1.01. Surub cap hexagonal partial filetat (Hexagon head bolt partially threaded)

**STANDARD: DIN 931/ ISO 4014 / STAS 4272**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3x20 | M8x120 | M14x55 | M20x150 | M24x280 | M30x110 | M33x165 | M36x220 | M42x180 |
| M3x25 | M8x130 | M14x60 | M20x160 | M24x285 | M30x115 | M33x170 | M36x225 | M42x190 |
| M3x30 | M8x140 | M14x65 | M20x180 | M24x290 | M30x120 | M33x175 | M36x230 | M42x200 |
| M3x35 | M8x150 | M14x70 | M20x200 | M24x295 | M30x125 | M33x180 | M36x235 | M42x210 |
| M3x40 | M8x160 | M14x80 | M20x200 | M24x300 | M30x130 | M33x185 | M36x240 | M42x220 |
| M4x18 | M8x180 | M14x90 | M20x220 | M27x90 | M30x135 | M33x190 | M36x245 | M42x230 |
| M4x20 | M8x200 | M14x100 | M20x240 | M27x95 | M30x140 | M33x195 | M36x250 | M42x240 |
| M4x25 | M10x35 | M14x110 | M20x260 | M27x100 | M30x145 | M33x200 | M36x255 | M42x250 |
| M4x30 | M10x40 | M14x120 | M20x280 | M27x105 | M30x150 | M33x205 | M36x260 | M42x260 |
| M4x35 | M10x45 | M14x130 | M20x300 | M27x110 | M30x155 | M33x210 | M36x265 | M42x270 |
| M4x40 | M10x50 | M14x140 | M20x320 | M27x115 | M30x160 | M33x215 | M36x270 | M42x280 |
| M4x45 | M10x55 | M14x150 | M20x340 | M27x120 | M30x165 | M33x220 | M36x275 | M42x290 |
| M4x50 | M10x60 | M14x160 | M20x360 | M27x125 | M30x170 | M33x225 | M36x280 | M42x300 |
| M5x25 | M10x65 | M14x180 | M20x380 | M27x130 | M30x175 | M33x230 | M36x285 | M46x150 |
| M5x30 | M10x70 | M14x200 | M22x80 | M27x135 | M30x180 | M33x235 | M36x290 | M46x160 |
| M5x35 | M10x80 | M14x220 | M22x85 | M27x140 | M30x185 | M33x240 | M36x295 | M46x170 |
| M5x40 | M10x90 | M14x240 | M22x90 | M27x145 | M30x190 | M33x245 | M36x300 | M46x180 |
| M5x45 | M10x100 | M14x260 | M22x95 | M27x150 | M30x195 | M33x250 | M38x150 | M46x190 |
| M5x50 | M10x110 | M14x280 | M22x100 | M27x155 | M30x200 | M33x255 | M38x160 | M46x200 |
| M5x55 | M10x120 | M14x300 | M22x105 | M27x160 | M30x205 | M33x260 | M38x170 | M46x210 |
| M5x60 | M10x130 | M18x55 | M22x110 | M27x165 | M30x210 | M33x265 | M38x180 | M46x220 |
| M5x65 | M10x140 | M18x60 | M22x115 | M27x170 | M30x215 | M33x270 | M38x190 | M46x230 |
| M5x70 | M10x150 | M18x65 | M22x120 | M27x175 | M30x220 | M33x275 | M38x200 | M46x240 |
| M5x80 | M10x160 | M18x70 | M22x125 | M27x180 | M30x225 | M33x280 | M38x210 | M46x250 |
| M6x20 | M10x180 | M18x75 | M22x130 | M27x185 | M30x230 | M33x285 | M38x220 | M46x260 |
| M6x25 | M10x200 | M18x80 | M22x135 | M27x190 | M30x235 | M33x290 | M38x230 | M46x270 |
| M6x30 | M10x220 | M18x90 | M22x140 | M27x195 | M30x240 | M33x295 | M38x240 | M46x270 |
| M6x35 | M12x40 | M18x100 | M22x145 | M27x200 | M30x245 | M33x300 | M38x250 | M46x280 |
| M6x40 | M12x45 | M18x110 | M24x160 | M27x205 | M30x250 | M36x100 | M38x260 | M46x290 |
| M6x45 | M12x50 | M18x120 | M24x165 | M27x210 | M30x255 | M36x105 | M38x270 | M46x300 |
| M6x50 | M12x55 | M18x130 | M24x170 | M27x215 | M30x260 | M36x110 | M38x280 | M48x150 |
| M6x55 | M12x60 | M18x140 | M24x175 | M27x220 | M30x265 | M36x115 | M38x290 | M48X160 |
| M6x60 | M12x65 | M18x150 | M24x180 | M27x225 | M30x270 | M36x120 | M38x300 | M48x170 |
| M6x65 | M12x70 | M18x160 | M24x185 | M27x230 | M30x275 | M36x125 | M40x150 | M48x180 |
| M6x70 | M12x80 | M18x180 | M24x190 | M27x235 | M30x280 | M36x130 | M40x160 | M48x190 |
| M6x80 | M12x90 | M18x200 | M24x195 | M27x240 | M30x285 | M36x135 | M40x170 | M48x200 |
| M6x90 | M12x100 | M18x220 | M24x200 | M27x245 | M30x290 | M36x140 | M40x180 | M48x210 |
| M6x100 | M12x110 | M18x240 | M24x205 | M27x250 | M30x295 | M36x145 | M40x190 | M48x220 |
| M6x110 | M12x120 | M18x260 | M24x210 | M27x255 | M30x300 | M36x150 | M40x200 | M48x230 |
| M6x120 | M12x130 | M18x280 | M24x215 | M27x260 | M33x100 | M36x155 | M40x210 | M48x240 |
| M8x35 | M12x140 | M20x60 | M24x220 | M27x265 | M33x105 | M36x160 | M40x220 | M48x250 |
| M8x40 | M12x150 | M20x65 | M24x225 | M27x270 | M33x110 | M36x165 | M40x230 | M48x260 |
| M8x45 | M12x160 | M20x70 | M24x230 | M27x275 | M33x115 | M36x170 | M40x240 | M48x270 |
| M8x50 | M12x180 | M20x75 | M24x235 | M27x280 | M33x120 | M36x175 | M40x250 | M48x280 |
| M8x55 | M12x200 | M20x80 | M24x240 | M27x285 | M33x125 | M36x180 | M40x260 | M48x290 |
| M8x60 | M12x220 | M20x85 | M24x245 | M27x290 | M33x130 | M36x185 | M40x270 | M48x300 |
| M8x65 | M12x240 | M20x90 | M24x250 | M27x295 | M33x135 | M36x190 | M40x280 | |
| M8x70 | M12x260 | M20x100 | M24x255 | M27x300 | M33x140 | M36x195 | M40x290 | |
| M8x80 | M12x261 | M20x110 | M24x260 | M30x90 | M33x145 | M36x200 | M40x300 | |
| M8x90 | M12x300 | M20x120 | M24x265 | M30x95 | M33x150 | M36x205 | M42x150 | |
| M8x100 | M14x45 | M20x130 | M24x270 | M30x100 | M33x155 | M36x210 | M42x160 | |
| M8x110 | M14x50 | M20x140 | M24x275 | M30x105 | M33x160 | M36x215 | M42x170 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.02. Surub cap hexagonal total filetat (Hexagon head bolt fully threaded)

**STANDARD: DIN 933 / ISO 4017 / STAS 4845**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X06 | M6x20 | M10x25 | M12x140 | M18x55 | M20x80 | M22x120 | M27x55 | M30x100 |
| M3X08 | M6x25 | M10x30 | M14x25 | M18x60 | M20x85 | M22x125 | M27x60 | M30x105 |
| M3X10 | M6x30 | M10x35 | M14x30 | M18x65 | M20x90 | M22x130 | M27x65 | M30x110 |
| M3X12 | M6x35 | M10x40 | M14x35 | M18x70 | M20x95 | M22x135 | M27x70 | M30x115 |
| M3X16 | M6x40 | M10x45 | M14x40 | M18x75 | M20x100 | M22x140 | M27x75 | M30x120 |
| M3X20 | M6x45 | M10x50 | M14x45 | M18x80 | M20x105 | M22x145 | M27x80 | M30x125 |
| M3X25 | M6x50 | M10x60 | M14x50 | M18x85 | M20x110 | M22x150 | M27x85 | M30x130 |
| M4x10 | M6x60 | M10x70 | M14x60 | M18x90 | M20x115 | M24x45 | M27x90 | M30x135 |
| M4x12 | M6x70 | M10x80 | M14x70 | M18x95 | M20x120 | M24x50 | M27x95 | M30x140 |
| M4x14 | M6x80 | M10x90 | M14x80 | M18x100 | M20x125 | M24x55 | M27x100 | M30x145 |
| M4x16 | M6x90 | M10x100 | M14x90 | M18x105 | M20x130 | M24x60 | M27x105 | M30x150 |
| M4x18 | M6x100 | M10x110 | M14x100 | M18x110 | M20x135 | M24x65 | M27x110 | M33x60 |
| M4x20 | M6x110 | M10x120 | M14x120 | M18x115 | M20x140 | M24x70 | M27x115 | M33x65 |
| M4x25 | M6x120 | M10x130 | M14x150 | M18x120 | M20x145 | M24x75 | M27x120 | M33x70 |
| M4x30 | M8x16 | M10x140 | M16x25 | M18x125 | M20x150 | M24x80 | M27x125 | M33x75 |
| M4x35 | M8x20 | M12x20 | M16x30 | M18x130 | M22x45 | M24x85 | M27x130 | M33x80 |
| M4x40 | M8x25 | M12x25 | M16x35 | M18x135 | M22x50 | M24x90 | M27x135 | M33x85 |
| M4x45 | M8x30 | M12x30 | M16x40 | M18x140 | M22x55 | M24x95 | M27x140 | M33x90 |
| M5x10 | M8x35 | M12x35 | M16x45 | M18x145 | M22x60 | M24x100 | M27x145 | M33x95 |
| M5x16 | M8x40 | M12x40 | M16x50 | M18x150 | M22x65 | M24x105 | M27x150 | M33x100 |
| M5x20 | M8x45 | M12x45 | M16x60 | M20x30 | M22x70 | M24x110 | M30x50 | M33x105 |
| M5x25 | M8x50 | M12x50 | M16x70 | M20x35 | M22x75 | M24x115 | M30x55 | M33x110 |
| M5x30 | M8x60 | M12x60 | M16x80 | M20x40 | M22x80 | M24x120 | M30x60 | M33x115 |
| M5x35 | M8x70 | M12x70 | M16x90 | M20x45 | M22x85 | M24x125 | M30x65 | M33x120 |
| M5x40 | M8x90 | M12x80 | M16x100 | M20x50 | M22x90 | M24x130 | M30x70 | M33x125 |
| M5x45 | M8x100 | M12x90 | M18x30 | M20x55 | M22x95 | M24x135 | M30x75 | M33x130 |
| M5x50 | M8x110 | M12x100 | M18x35 | M20x60 | M22x100 | M24x140 | M30x80 | M33x135 |
| M6 x 6 | M8x120 | M12x110 | M18x40 | M20x65 | M22x105 | M24x145 | M30x85 | M33x140 |
| M6x10 | M8x130 | M12x120 | M18x45 | M20x70 | M22x110 | M24x150 | M30x90 | M33x145 |
| M6x16 | M10x20 | M12x130 | M18x50 | M20x75 | M22x115 | M27x50 | M30x95 | M33x150 |

## 1.03. Surub cap hexagonal cu pas fin (Hexagon head bolt with fine thread)

**STANDARD: DIN 960; DIN 961 / ISO 8765; ISO 8676 / STAS 4272**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| M8x1x35 | M8x1x90 | M10X1X80 | M12X1.5X90 | M14X1.5X80 | M16X1.5X75 | M18X1.5X65 | M20X1.5X90 |
| M8x1x40 | M8x1x100 | M12X1.5X45 | M12X1.5X100 | M14X1.5X90 | M16X1.5X80 | M18X1.5X70 | M16X1.5X50 |
| M8x1x45 | M10X1X40 | M12X1.5X50 | M12X1.5X110 | M14X1.5X100 | M16X1.5X90 | M18X1.5X80 | M16X1.5X60 |
| M8x1x50 | M10X1X45 | M12X1.5X55 | M12X1.5X120 | M14X1.5X110 | M16X1.5X100 | M18X1.5X90 | M20X1.5X100 |
| M8x1x55 | M10X1X50 | M12X1.5X60 | M14X1.5X50 | M14X1.5X120 | M16X1.5X110 | M18X1.5X100 | M20X1.5X120 |
| M8x1x60 | M10X1X55 | M12X1.5X65 | M14X1.5X55 | M16X1.5X55 | M16X1.5X120 | M20X1.5X65 | M24x2x100 |
| M8x1x65 | M10X1X60 | M12X1.5X70 | M14X1.5X60 | M16X1.5X60 | M16X1.5X130 | M20X1.5X70 | M24x2x110 |
| M8x1x70 | M10X1X65 | M12X1.5X75 | M14X1.5X65 | M16X1.5X65 | M16X1.5X140 | M20X1.5X75 | M24x2x120 |
| M8x1x80 | M10X1X70 | M12X1.5X80 | M14X1.5X70 | M16X1.5X70 | M18X1.5X60 | M20X1.5X80 | M24x2x130 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.04. Surub cap hexagonal UNC, UNF, BSW, BSF (Hexagon head bolt UNC, UNF, BSW, BSF)

**STANDARD: DIN ~931 ANSI B18.2.1; DIN ~933 ANSI B18.2.1**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3x20 | M8x110 | M14x45 | M20x120 | M24x260 | M27x300 | M33x135 | M36x185 | M40x260 |
| M3x25 | M8x120 | M14x50 | M20x130 | M24x265 | M30x90 | M33x140 | M36x190 | M40x270 |
| M3x30 | M8x130 | M14x55 | M20x140 | M24x270 | M30x95 | M33x145 | M36x195 | M40x280 |
| M3x35 | M8x140 | M14x60 | M20x150 | M24x275 | M30x100 | M33x150 | M36x200 | M40x290 |
| M3x40 | M8x150 | M14x65 | M20x160 | M24x280 | M30x105 | M33x155 | M36x205 | M40x300 |
| M4x18 | M8x160 | M14x70 | M20x180 | M24x285 | M30x110 | M33x160 | M36x210 | M42x150 |
| M4x20 | M8x180 | M14x80 | M20x200 | M24x290 | M30x115 | M33x165 | M36x215 | M42x160 |
| M4x25 | M8x200 | M14x90 | M20x200 | M24x295 | M30x120 | M33x170 | M36x220 | M42x170 |
| M4x30 | M10x35 | M14x100 | M20x220 | M24x300 | M30x125 | M33x175 | M36x225 | M42x180 |
| M4x35 | M10x40 | M14x110 | M20x240 | M27x90 | M30x130 | M33x180 | M36x230 | M42x190 |
| M4x40 | M10x45 | M14x120 | M20x260 | M27x95 | M30x135 | M33x185 | M36x235 | M42x200 |
| M4x45 | M10x50 | M14x130 | M20x280 | M27x100 | M30x140 | M33x190 | M36x240 | M42x210 |
| M4x50 | M10x55 | M14x140 | M20x300 | M27x105 | M30x145 | M33x195 | M36x245 | M42x220 |
| M5x25 | M10x60 | M14x150 | M20x320 | M27x110 | M30x150 | M33x200 | M36x250 | M42x230 |
| M5x30 | M10x65 | M14x160 | M20x340 | M27x115 | M30x155 | M33x205 | M36x255 | M42x240 |
| M5x35 | M10x70 | M14x180 | M20x360 | M27x120 | M30x160 | M33x210 | M36x260 | M42x250 |
| M5x40 | M10x80 | M14x200 | M20x380 | M27x125 | M30x165 | M33x215 | M36x265 | M42x260 |
| M5x45 | M10x90 | M14x220 | M22x80 | M27x130 | M30x170 | M33x220 | M36x270 | M42x270 |
| M5x50 | M10x100 | M14x240 | M22x85 | M27x135 | M30x175 | M33x225 | M36x275 | M42x280 |
| M5x55 | M10x110 | M14x260 | M22x90 | M27x140 | M30x180 | M33x230 | M36x280 | M42x290 |
| M5x60 | M10x120 | M14x280 | M22x95 | M27x145 | M30x185 | M33x235 | M36x285 | M42x300 |
| M5x65 | M10x130 | M14x300 | M22x100 | M27x150 | M30x190 | M33x240 | M36x290 | M46x150 |
| M5x70 | M10x140 | M18x55 | M22x105 | M27x155 | M30x195 | M33x245 | M36x295 | M46x160 |
| M5x80 | M10x150 | M18x60 | M22x110 | M27x160 | M30x200 | M33x250 | M36x300 | M46x170 |
| M6x20 | M10x160 | M18x65 | M22x115 | M27x165 | M30x205 | M33x255 | M38x150 | M46x180 |
| M6x25 | M10x180 | M18x70 | M22x120 | M27x170 | M30x210 | M33x260 | M38x160 | M46x190 |
| M6x30 | M10x200 | M18x75 | M22x125 | M27x175 | M30x215 | M33x265 | M38x170 | M46x200 |
| M6x35 | M10x220 | M18x80 | M22x130 | M27x180 | M30x220 | M33x270 | M38x180 | M46x210 |
| M6x40 | M12x40 | M18x90 | M22x135 | M27x185 | M30x225 | M33x275 | M38x190 | M46x220 |
| M6x45 | M12x45 | M18x100 | M22x140 | M27x190 | M30x230 | M33x280 | M38x200 | M46x230 |
| M6x50 | M12x50 | M18x110 | M22x145 | M27x195 | M30x235 | M33x285 | M38x210 | M46x240 |
| M6x55 | M12x55 | M18x120 | M24x160 | M27x200 | M30x240 | M33x290 | M38x220 | M46x250 |
| M6x60 | M12x60 | M18x130 | M24x165 | M27x205 | M30x245 | M33x295 | M38x230 | M46x260 |
| M6x65 | M12x65 | M18x140 | M24x170 | M27x210 | M30x250 | M33x300 | M38x240 | M46x270 |
| M6x70 | M12x70 | M18x150 | M24x175 | M27x215 | M30x255 | M36x100 | M38x250 | M46x270 |
| M6x80 | M12x80 | M18x160 | M24x180 | M27x220 | M30x260 | M36x105 | M38x260 | M46x280 |
| M6x90 | M12x90 | M18x180 | M24x185 | M27x225 | M30x265 | M36x110 | M38x270 | M46x290 |
| M6x100 | M12x100 | M18x200 | M24x190 | M27x230 | M30x270 | M36x115 | M38x280 | M46x300 |
| M6x110 | M12x110 | M18x220 | M24x195 | M27x235 | M30x275 | M36x120 | M38x290 | M48x150 |
| M6x120 | M12x120 | M18x240 | M24x200 | M27x240 | M30x280 | M36x125 | M38x300 | M48X160 |
| M8x35 | M12x130 | M18x260 | M24x205 | M27x245 | M30x285 | M36x130 | M40x150 | M48x170 |
| M8x40 | M12x140 | M18x280 | M24x210 | M27x250 | M30x290 | M36x135 | M40x160 | M48x180 |
| M8x45 | M12x150 | M20x60 | M24x215 | M27x255 | M30x295 | M36x140 | M40x170 | M48x190 |
| M8x50 | M12x160 | M20x65 | M24x220 | M27x260 | M30x300 | M36x145 | M40x180 | M48x200 |
| M8x55 | M12x180 | M20x70 | M24x225 | M27x265 | M33x100 | M36x150 | M40x190 | M48x210 |
| M8x60 | M12x200 | M20x75 | M24x230 | M27x270 | M33x105 | M36x155 | M40x200 | M48x220 |
| M8x65 | M12x220 | M20x80 | M24x235 | M27x275 | M33x110 | M36x160 | M40x210 | M48x230 |
| M8x70 | M12x240 | M20x85 | M24x240 | M27x280 | M33x115 | M36x165 | M40x220 | M48x240 |
| M8x80 | M12x260 | M20x90 | M24x245 | M27x285 | M33x120 | M36x170 | M40x230 | M48x250 |
| M8x90 | M12x261 | M20x100 | M24x250 | M27x290 | M33x125 | M36x175 | M40x240 | M48x260 |
| M8x100 | M12x300 | M20x110 | M24x255 | M27x295 | M33x130 | M36x180 | M40x250 | M48x270 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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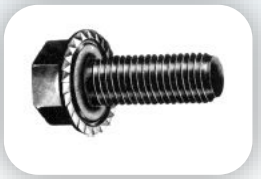
## 1.05 Surub cu cap hexagonal si flansa partial filetat/total filetat (Hexagon flange screw)



**STANDARD: DIN 6921**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5X10 | M6X16 | M8X12 | M8X35 | M10X25 | M10X50 | M12X35 | M12X60 | M16X40 |
| M5X12 | M6X20 | M8X16 | M8X40 | M10X30 | M10X60 | M12X40 | M12X80 | M16X50 |
| M5X16 | M6X25 | M8X20 | M8X50 | M10X35 | M12X25 | M12X45 | M16X30 | M16X60 |
| M5X20 | M6X30 | M8X25 | M10X16 | M10X40 | M12X30 | M12X50 | M16X35 | M16X70 |
| M6X12 | M8X10 | M8X30 | M10X20 | | | | | |

## 1.06 Surub cu autoblocare (Self locking fastener)



**STANDARD: TENSILOCK**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5X10 | M6X16 | M8X12 | M8X35 | M10X25 | M10X50 | M12X35 | M12X60 | M16X40 |
| M5X12 | M6X20 | M8X16 | M8X40 | M10X30 | M10X60 | M12X40 | M12X80 | M16X50 |
| M5X16 | M6X25 | M8X20 | M8X50 | M10X35 | M12X25 | M12X45 | M16X30 | M16X60 |
| M5X20 | M6X30 | M8X25 | M10X16 | M10X40 | M12X30 | M12X50 | M16X35 | M16X70 |
| M6X12 | M8X10 | M8X30 | M10X20 | | | | | |

## 1.07 Surub cu cap hexagonal si flansa dantelata (Hexagon ribbed flange bolt)



**STANDARD: VERBUS RIPP**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5X10 | M6X16 | M8X12 | M8X35 | M10X25 | M10X50 | M12X35 | M12X60 | M16X40 |
| M5X12 | M6X20 | M8X16 | M8X40 | M10X30 | M10X60 | M12X40 | M12X80 | M16X50 |
| M5X16 | M6X25 | M8X20 | M8X50 | M10X35 | M12X25 | M12X45 | M16X30 | M16X60 |
| M5X20 | M6X30 | M8X25 | M10X16 | M10X40 | M12X30 | M12X50 | M16X35 | M16X70 |
| M6X12 | M8X10 | M8X30 | M10X20 | | | | | |

## 1.08 Surub cu cap hexagonal si varf cilindric (Hexagon set screw with full dog point)



**STANDARD: DIN 561 / STAS 5259**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5X10 | M6X16 | M8X12 | M8X35 | M10X25 | M10X50 | M12X35 | M12X60 | M16X40 |
| M5X12 | M6X20 | M8X16 | M8X40 | M10X30 | M10X60 | M12X40 | M12X80 | M16X50 |
| M5X16 | M6X25 | M8X20 | M8X50 | M10X35 | M12X25 | M12X45 | M16X30 | M16X60 |
| M5X20 | M6X30 | M8X25 | M10X16 | M10X40 | M12X30 | M12X50 | M16X35 | M16X70 |
| M6X12 | M8X10 | M8X30 | M10X20 | | | | | |

## 1.09 Surub cu cap hexagonal si varf conic (Hexagon set screw with flat cone point)



**STANDARD: DIN 564 / STAS 4922**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5X10 | M6X16 | M8X12 | M8X35 | M10X25 | M10X50 | M12X35 | M12X60 | M16X40 |
| M5X12 | M6X20 | M8X16 | M8X40 | M10X30 | M10X60 | M12X40 | M12X80 | M16X50 |
| M5X16 | M6X25 | M8X20 | M8X50 | M10X35 | M12X25 | M12X45 | M16X30 | M16X60 |
| M5X20 | M6X30 | M8X25 | M10X16 | M10X40 | M12X30 | M12X50 | M16X35 | M16X70 |
| M6X12 | M8X10 | M8X30 | M10X20 | | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.10 Surub de ridicare (Ochet-tata) (Lifting eye bolt)

**STANDARD: DIN 580 / ISO 3266**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M8 | M12 | M18 | M22 | M30 | M48 | M64 | M72 | M80 |
| M10 | M16 | M20 | M24 | M36 | M56 | | | |

## 1.11 Suruburi de inalta rezistenta (Hexagon bolts for high strength)

**STANDARD: DIN 6914 / EN 14399-4 / ISO 7412**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M12x30 | M16x80 | M16x280 | M20x190 | M22x100 | M22x300 | M24x230 | M27x160 | M30x100 |
| M12x35 | M16x90 | M16x290 | M20x200 | M22x110 | M24x60 | M24x240 | M27x170 | M30x110 |
| M12x40 | M16x100 | M16x300 | M20x210 | M22x120 | M24x65 | M24x250 | M27x180 | M30x120 |
| M12x45 | M16x110 | M20x50 | M20x220 | M22x130 | M24x70 | M24x260 | M27x190 | M30x130 |
| M12x50 | M16x120 | M20x55 | M20x230 | M22x140 | M24x75 | M24x270 | M27x200 | M30x140 |
| M12x55 | M16x130 | M20x60 | M20x240 | M22x150 | M24x80 | M24x280 | M27x210 | M30x150 |
| M12x60 | M16x140 | M20x65 | M20x250 | M22x160 | M24x90 | M24x290 | M27x220 | M30x160 |
| M12x65 | M16x150 | M20x70 | M20x260 | M22x170 | M24x100 | M24x300 | M27x230 | M30x170 |
| M12x70 | M16x160 | M20x75 | M20x270 | M22x180 | M24x110 | M27x50 | M27x240 | M30x180 |
| M12x75 | M16x170 | M20x80 | M20x280 | M22x190 | M24x120 | M27x60 | M27x250 | M30x190 |
| M12x80 | M16x180 | M20x90 | M20x290 | M22x200 | M24x130 | M27x70 | M27x260 | M30x200 |
| M12x90 | M16x190 | M20x100 | M20x300 | M22x210 | M24x140 | M27x75 | M27x270 | M30x210 |
| M16x40 | M16x200 | M20x110 | M22x50 | M22x220 | M24x150 | M27x80 | M27x280 | M30x220 |
| M16x45 | M16x210 | M20x120 | M22x55 | M22x230 | M24x160 | M27x90 | M27x290 | M30x230 |
| M16x50 | M16x220 | M20x130 | M22x60 | M22x240 | M24x170 | M27x100 | M27x300 | M30x240 |
| M16x55 | M16x230 | M20x140 | M22x65 | M22x250 | M24x180 | M27x110 | M30x50 | M30x250 |
| M16x60 | M16x240 | M20x150 | M22x70 | M22x260 | M24x190 | M27x120 | M30x60 | M30x260 |
| M16x65 | M16x250 | M20x160 | M22x75 | M22x270 | M24x200 | M27x130 | M30x70 | M30x270 |
| M16x70 | M16x260 | M20x170 | M22x80 | M22x280 | M24x210 | M27x140 | M30x80 | M30x280 |
| M16x75 | M16x270 | M20x180 | M22x90 | M22x290 | M24x220 | M27x150 | M30x90 | M30x290 |

## 1.12 Suruburi cap hexagonal - structuri otel (Hexagon bolts for steel structures)

**STANDARD: DIN 7990 / STAS 11028**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M12X35 | M12X55 | M16X50 | M16X70 | M20X45 | M20X65 | M20X80 | M24X65 | M24X80 |
| M12X40 | M12X60 | M16X55 | M16X75 | M20X50 | M20X70 | M24X55 | M24X70 | M24X85 |
| M12X45 | M16X35 | M16X60 | M16X80 | M20X55 | M20X75 | M24X60 | M24X75 | |
| M12X50 | M16X40 | M16X65 | M20X40 | M20X60 | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.13 Surub inata rezistenta– structuri otel (High strength fit bolt for steel structures)

**STANDARD: DIN 7999**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M12x30 | M16x80 | M16x280 | M20x190 | M22x100 | M22x300 | M24x230 | M27x160 | M30x100 |
| M12x35 | M16x90 | M16x290 | M20x200 | M22x110 | M24x60 | M24x240 | M27x170 | M30x110 |
| M12x40 | M16x100 | M16x300 | M20x210 | M22x120 | M24x65 | M24x250 | M27x180 | M30x120 |
| M12x45 | M16x110 | M20x50 | M20x220 | M22x130 | M24x70 | M24x260 | M27x190 | M30x130 |
| M12x50 | M16x120 | M20x55 | M20x230 | M22x140 | M24x75 | M24x270 | M27x200 | M30x140 |
| M12x55 | M16x130 | M20x60 | M20x240 | M22x150 | M24x80 | M24x280 | M27x210 | M30x150 |
| M12x60 | M16x140 | M20x65 | M20x250 | M22x160 | M24x90 | M24x290 | M27x220 | M30x160 |
| M12x65 | M16x150 | M20x70 | M20x260 | M22x170 | M24x100 | M24x300 | M27x230 | M30x170 |
| M12x70 | M16x160 | M20x75 | M20x270 | M22x180 | M24x110 | M27x50 | M27x240 | M30x180 |
| M12x75 | M16x170 | M20x80 | M20x280 | M22x190 | M24x120 | M27x60 | M27x250 | M30x190 |
| M12x80 | M16x180 | M20x90 | M20x290 | M22x200 | M24x130 | M27x70 | M27x260 | M30x200 |
| M12x90 | M16x190 | M20x100 | M20x300 | M22x210 | M24x140 | M27x75 | M27x270 | M30x210 |
| M16x40 | M16x200 | M20x110 | M22x50 | M22x220 | M24x150 | M27x80 | M27x280 | M30x220 |
| M16x45 | M16x210 | M20x120 | M22x55 | M22x230 | M24x160 | M27x90 | M27x290 | M30x230 |
| M16x50 | M16x220 | M20x130 | M22x60 | M22x240 | M24x170 | M27x100 | M27x300 | M30x240 |
| M16x55 | M16x230 | M20x140 | M22x65 | M22x250 | M24x180 | M27x110 | M30x50 | M30x250 |
| M16x60 | M16x240 | M20x150 | M22x70 | M22x260 | M24x190 | M27x120 | M30x60 | M30x260 |
| M16x65 | M16x250 | M20x160 | M22x75 | M22x270 | M24x200 | M27x130 | M30x70 | M30x270 |
| M16x70 | M16x260 | M20x170 | M22x80 | M22x280 | M24x210 | M27x140 | M30x80 | M30x280 |
| M16x75 | M16x270 | M20x180 | M22x90 | M22x290 | M24x220 | M27x150 | M30x90 | M30x290 |

## 1.14 Surub cap imbus mic (Imbus with shallow head)

**STANDARD: DIN 6912; DIN 7984 / STAS 9224; STAS 9225**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M4X06 | M5X35 | M6X65 | M8X55 | M10X60 | M12X55 | M14X50 | M16X70 | M20X150 |
| M4X08 | M5X40 | M6X70 | M8X60 | M10X65 | M12X60 | M14X60 | M16X75 | M20X160 |
| M4X10 | M5X45 | M6X75 | M8X65 | M10X70 | M12X65 | M14X70 | M16X80 | M20X180 |
| M4X12 | M5X50 | M6X80 | M8X70 | M10X75 | M12X70 | M16X100 | M16X90 | M20X200 |
| M4X16 | M5X55 | M6X90 | M8X75 | M10X80 | M12X75 | M16X110 | M20X30 | M24X50 |
| M4X20 | M6X8 | M6X100 | M8X80 | M10X100 | M12X80 | M16X120 | M20X35 | M24X55 |
| M4X25 | M6X10 | M6X110 | M8X90 | M10X110 | M12X90 | M16X130 | M20X40 | M24X60 |
| M4X30 | M6X12 | M6X120 | M8X100 | M10X120 | M12X100 | M16X140 | M20X45 | M24X70 |
| M4X35 | M6X14 | M8X10 | M8X110 | M10X130 | M12X110 | M16X150 | M20X50 | M24X80 |
| M4X40 | M6X16 | M8X12 | M8X120 | M10X140 | M12X120 | M16X160 | M20X55 | M24X90 |
| M5X06 | M6X18 | M8X14 | M10X12 | M10X150 | M12X130 | M16X180 | M20X60 | M24X100 |
| M5X08 | M6X20 | M8X16 | M10X16 | M10X160 | M12X140 | M16X200 | M20X65 | M24X110 |
| M5X10 | M6X22 | M8X18 | M10X18 | M10X180 | M12X150 | M16X25 | M20X70 | M24X120 |
| M5X12 | M6X25 | M8X20 | M10X20 | M10X200 | M12X160 | M16X30 | M20X75 | M24X130 |
| M5X14 | M6X30 | M8X22 | M10X25 | M12X20 | M12X180 | M16X35 | M20X80 | M24X140 |
| M5X16 | M6X35 | M8X25 | M10X30 | M12X25 | M12X200 | M16X40 | M20X90 | M24X150 |
| M5X18 | M6X40 | M8X30 | M10X35 | M12X30 | M14X25 | M16X45 | M20X100 | M24X160 |
| M5X20 | M6X45 | M8X35 | M10X40 | M12X35 | M14X30 | M16X50 | M20X110 | M24X180 |
| M5X22 | M6X50 | M8X40 | M10X45 | M12X40 | M14X35 | M16X55 | M20X120 | |
| M5X25 | M6X55 | M8X45 | M10X50 | M12X45 | M14X40 | M16X60 | M20X130 | |
| M5X30 | M6X60 | M8X50 | M10X55 | M12X50 | M14X45 | M16X65 | M20X140 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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# 1.15 Surub imbus (Hexagon socket head cap screw)



**STANDARD: DIN 912 / ISO 4762 / STAS 5144**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M2X03 | M6x40 | M14x50 | M18x115 | M20x200 | M24x80 | M27x140 | M30x200 | M33x265 |
| M2X04 | M6x45 | M14x55 | M18x120 | M20x205 | M24x85 | M27x145 | M30x205 | M33x270 |
| M2X05 | M6x50 | M14x60 | M18x125 | M20x210 | M24x90 | M27x150 | M30x210 | M33x275 |
| M2X06 | M6x55 | M14x65 | M18x130 | M20x215 | M24x95 | M27x155 | M30x215 | M33x280 |
| M2X08 | M6x60 | M14x70 | M18x135 | M20x220 | M24x100 | M27x160 | M30x220 | M33x285 |
| M2X10 | M6x65 | M14x75 | M18x140 | M20x225 | M24x105 | M27x165 | M30x225 | M33x290 |
| M2X12 | M6x70 | M14x80 | M18x145 | M20x230 | M24x110 | M27x170 | M30x230 | M33x295 |
| M2x16 | M6x75 | M14x90 | M18x150 | M20x235 | M24x115 | M27x175 | M30x235 | M33x300 |
| M2x20 | M6x80 | M14x100 | M18x155 | M20x240 | M24x120 | M27x180 | M30x240 | M36x60 |
| M2.5X03 | M8x16 | M14x110 | M18x160 | M20x245 | M24x125 | M27x185 | M30x245 | M36x65 |
| M2.5X04 | M8x20 | M14x120 | M18x165 | M20x250 | M24x130 | M27x190 | M30x250 | M36x70 |
| M2.5X05 | M8x25 | M14x130 | M18x170 | M20x255 | M24x135 | M27x195 | M30x255 | M36x75 |
| M2.5X06 | M8x30 | M14x140 | M18x175 | M20x260 | M24x140 | M27x200 | M30x260 | M36x80 |
| M2.5X08 | M8x35 | M16x25 | M18x180 | M22x50 | M24x145 | M27x205 | M30x265 | M36x85 |
| M2.5X10 | M8x40 | M16x30 | M18x185 | M22x55 | M24x150 | M27x210 | M30x270 | M36x90 |
| M2.5X12 | M8x45 | M16x35 | M18x190 | M22x60 | M24x155 | M27x215 | M30x275 | M36x95 |
| M2.5X16 | M8x50 | M16x40 | M18x195 | M22x65 | M24x160 | M27x220 | M30x280 | M36x100 |
| M2.5X20 | M8x55 | M16x45 | M18x200 | M22x70 | M24x165 | M27x225 | M30x285 | M36x105 |
| M2.5X25 | M8x60 | M16x50 | M18x205 | M22x75 | M24x170 | M27x230 | M30x290 | M36x110 |
| M3X12 | M8x65 | M16x55 | M18x210 | M22x80 | M24x175 | M27x235 | M30x295 | M36x115 |
| M3X16 | M8x70 | M16x60 | M18x215 | M22x85 | M24x180 | M27x240 | M30x300 | M36x120 |
| M3X20 | M8x75 | M16x65 | M18x220 | M22x90 | M24x185 | M27x245 | M33x60 | M36x125 |
| M3X25 | M8x80 | M16x70 | M18x225 | M22x95 | M24x190 | M27x250 | M33x65 | M36x130 |
| M3X30 | M8x90 | M16x75 | M18x230 | M22x100 | M24x195 | M27x255 | M33x70 | M36x135 |
| M3X35 | M10x16 | M16x80 | M18x235 | M22x105 | M24x200 | M27x260 | M33x75 | M36x140 |
| M3X40 | M10x20 | M16x90 | M18x240 | M22x110 | M24x205 | M27x265 | M33x80 | M36x145 |
| M3X45 | M10x25 | M16x100 | M18x245 | M22x115 | M24x210 | M27x270 | M33x85 | M36x150 |
| M3X50 | M10x30 | M16x110 | M18x250 | M22x120 | M24x215 | M27x275 | M33x90 | M36x155 |
| M3X60 | M10x35 | M16x120 | M18x255 | M22x125 | M24x220 | M27x280 | M33x95 | M36x160 |
| M4X08 | M10x40 | M16x130 | M18x260 | M22x130 | M24x225 | M27x285 | M33x100 | M36x165 |
| M4X10 | M10x45 | M16x140 | M20x40 | M22x135 | M24x230 | M27x290 | M33x105 | M36x170 |
| M4X12 | M10x50 | M16x150 | M20x45 | M22x140 | M24x235 | M27x295 | M33x110 | M36x175 |
| M4X14 | M10x55 | M16x160 | M20x50 | M22x145 | M24x240 | M27x300 | M33x115 | M36x180 |
| M4X16 | M10x60 | M16x170 | M20x55 | M22x150 | M24x245 | M30x55 | M33x120 | M36x185 |
| M4X18 | M10x65 | M16x180 | M20x60 | M22x155 | M24x250 | M30x60 | M33x125 | M36x190 |
| M4X20 | M10x70 | M16x190 | M20x65 | M22x160 | M24x255 | M30x65 | M33x130 | M36x195 |
| M4X25 | M10x75 | M16x200 | M20x70 | M22x165 | M24x260 | M30x70 | M33x135 | M36x200 |
| M4X30 | M10x80 | M16x210 | M20x75 | M22x170 | M24x265 | M30x75 | M33x140 | M36x205 |
| M4X35 | M10x90 | M16x220 | M20x80 | M22x175 | M24x270 | M30x80 | M33x145 | M36x210 |
| M4X40 | M10x100 | M16x230 | M20x85 | M22x180 | M24x275 | M30x85 | M33x150 | M36x215 |
| M4X45 | M12x20 | M16x240 | M20x90 | M22x185 | M24x280 | M30x90 | M33x155 | M36x220 |
| M4X50 | M12x25 | M16x250 | M20x95 | M22x190 | M24x285 | M30x95 | M33x160 | M36x225 |
| M4X55 | M12x30 | M16x260 | M20x100 | M22x195 | M24x290 | M30x100 | M33x165 | M36x230 |
| M4X60 | M12x35 | M16x270 | M20x105 | M22x200 | M24x295 | M30x105 | M33x170 | M36x235 |
| M4X65 | M12x40 | M16x280 | M20x110 | M22x205 | M24x300 | M30x110 | M33x175 | M36x240 |
| M4X70 | M12x45 | M16x290 | M20x115 | M22x210 | M27x55 | M30x115 | M33x180 | M36x245 |
| M5X08 | M12x50 | M16x300 | M20x120 | M22x215 | M27x60 | M30x120 | M33x185 | M36x250 |
| M5x10 | M12x55 | M18x40 | M20x125 | M22x220 | M27x65 | M30x125 | M33x190 | M36x255 |
| M5x16 | M12x60 | M18x45 | M20x130 | M22x225 | M27x70 | M30x130 | M33x195 | M36x260 |
| M5x20 | M12x65 | M18x50 | M20x135 | M22x230 | M27x75 | M30x135 | M33x200 | M36x265 |
| M5x25 | M12x70 | M18x55 | M20x140 | M22x235 | M27x80 | M30x140 | M33x205 | M36x270 |
| M5x30 | M12x75 | M18x60 | M20x145 | M22x240 | M27x85 | M30x145 | M33x210 | M36x275 |
| M5x35 | M12x80 | M18x65 | M20x150 | M22x245 | M27x90 | M30x150 | M33x215 | M36x280 |
| M5x40 | M12x90 | M18x70 | M20x155 | M22x250 | M27x95 | M30x155 | M33x220 | M36x285 |
| M5x45 | M12x100 | M18x75 | M20x160 | M22x255 | M27x100 | M30x160 | M33x225 | M36x290 |
| M5x50 | M12x110 | M18x80 | M20x165 | M22x260 | M27x105 | M30x165 | M33x230 | M36x295 |
| M6x10 | M12x120 | M18x85 | M20x170 | M24x50 | M27x110 | M30x170 | M33x235 | M36x300 |
| M6x16 | M14x25 | M18x90 | M20x175 | M24x55 | M27x115 | M30x175 | M33x240 | |
| M6x20 | M14x30 | M18x95 | M20x180 | M24x60 | M27x120 | M30x180 | M33x245 | |
| M6x25 | M14x35 | M18x100 | M20x185 | M24x65 | M27x125 | M30x185 | M33x250 | |
| M6x30 | M14x40 | M18x105 | M20x190 | M24x70 | M27x130 | M30x190 | M33x255 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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# 1.16 Surub imbus cu filet UNC, UNF, BSW, BSF
# (Hexagon socket head cap screw UNC, UNF, BSW, BSF thread)



**STANDARD: DIN ~ 912 / STAS 5144**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M2X03 | M4X55 | M8x80 | M14x60 | M16x280 | M18x235 | M20x220 | M22x215 | M24x210 |
| M2X04 | M4X60 | M8x90 | M14x65 | M16x290 | M18x240 | M20x225 | M22x220 | M24x215 |
| M2X05 | M4X65 | M10x16 | M14x70 | M16x300 | M18x245 | M20x230 | M22x225 | M24x220 |
| M2X06 | M4X70 | M10x20 | M14x75 | M18x40 | M18x250 | M20x235 | M22x230 | M24x225 |
| M2X08 | M5X08 | M10x25 | M14x80 | M18x45 | M18x255 | M20x240 | M22x235 | M24x230 |
| M2X10 | M5x10 | M10x30 | M14x90 | M18x50 | M18x260 | M20x245 | M22x240 | M24x235 |
| M2X12 | M5x16 | M10x35 | M14x100 | M18x55 | M20x40 | M20x250 | M22x245 | M24x240 |
| M2x16 | M5x20 | M10x40 | M14x110 | M18x60 | M20x45 | M20x255 | M22x250 | M24x245 |
| M2x20 | M5x25 | M10x45 | M14x120 | M18x65 | M20x50 | M20x260 | M22x255 | M24x250 |
| M2.5X03 | M5x30 | M10x50 | M14x130 | M18x70 | M20x55 | M22x50 | M22x260 | M24x255 |
| M2.5X04 | M5x35 | M10x55 | M14x140 | M18x75 | M20x60 | M22x55 | M24x50 | M24x260 |
| M2.5X05 | M5x40 | M10x60 | M16x25 | M18x80 | M20x65 | M22x60 | M24x55 | M24x265 |
| M2.5X06 | M5x45 | M10x65 | M16x30 | M18x85 | M20x70 | M22x65 | M24x60 | M24x270 |
| M2.5X08 | M5x50 | M10x70 | M16x35 | M18x90 | M20x75 | M22x70 | M24x65 | M24x275 |
| M2.5X10 | M6x10 | M10x75 | M16x40 | M18x95 | M20x80 | M22x75 | M24x70 | M24x280 |
| M2.5X12 | M6x16 | M10x80 | M16x45 | M18x100 | M20x85 | M22x80 | M24x75 | M24x285 |
| M2.5X16 | M6x20 | M10x90 | M16x50 | M18x105 | M20x90 | M22x85 | M24x80 | M24x290 |
| M2.5X20 | M6x25 | M10x100 | M16x55 | M18x110 | M20x95 | M22x90 | M24x85 | M24x295 |
| M2.5X25 | M6x30 | M12x20 | M16x60 | M18x115 | M20x100 | M22x95 | M24x90 | M24x300 |
| M3X12 | M6x35 | M12x25 | M16x65 | M18x120 | M20x105 | M22x100 | M24x95 | M27x55 |
| M3X16 | M6x40 | M12x30 | M16x70 | M18x125 | M20x110 | M22x105 | M24x100 | M27x60 |
| M3X20 | M6x45 | M12x35 | M16x75 | M18x130 | M20x115 | M22x110 | M24x105 | M27x65 |
| M3X25 | M6x50 | M12x40 | M16x80 | M18x135 | M20x120 | M22x115 | M24x110 | M27x70 |
| M3X30 | M6x55 | M12x45 | M16x90 | M18x140 | M20x125 | M22x120 | M24x115 | M27x75 |
| M3X35 | M6x60 | M12x50 | M16x100 | M18x145 | M20x130 | M22x125 | M24x120 | M27x80 |
| M3X40 | M6x65 | M12x55 | M16x110 | M18x150 | M20x135 | M22x130 | M24x125 | M27x85 |
| M3X45 | M6x70 | M12x60 | M16x120 | M18x155 | M20x140 | M22x135 | M24x130 | M27x90 |
| M3X50 | M6x75 | M12x65 | M16x130 | M18x160 | M20x145 | M22x140 | M24x135 | M27x95 |
| M3X60 | M6x80 | M12x70 | M16x140 | M18x165 | M20x150 | M22x145 | M24x140 | M27x100 |
| M4X08 | M8x16 | M12x75 | M16x150 | M18x170 | M20x155 | M22x150 | M24x145 | M27x105 |
| M4X10 | M8x20 | M12x80 | M16x160 | M18x175 | M20x160 | M22x155 | M24x150 | M27x110 |
| M4X12 | M8x25 | M12x90 | M16x170 | M18x180 | M20x165 | M22x160 | M24x155 | M27x115 |
| M4X14 | M8x30 | M12x100 | M16x180 | M18x185 | M20x170 | M22x165 | M24x160 | M27x120 |
| M4X16 | M8x35 | M12x110 | M16x190 | M18x190 | M20x175 | M22x170 | M24x165 | M27x125 |
| M4X18 | M8x40 | M12x120 | M16x200 | M18x195 | M20x180 | M22x175 | M24x170 | M27x130 |
| M4X20 | M8x45 | M14x25 | M16x210 | M18x200 | M20x185 | M22x180 | M24x175 | M27x135 |
| M4X25 | M8x50 | M14x30 | M16x220 | M18x205 | M20x190 | M22x185 | M24x180 | M27x140 |
| M4X30 | M8x55 | M14x35 | M16x230 | M18x210 | M20x195 | M22x190 | M24x185 | M27x145 |
| M4X35 | M8x60 | M14x40 | M16x240 | M18x215 | M20x200 | M22x195 | M24x190 | M27x150 |
| M4X40 | M8x65 | M14x45 | M16x250 | M18x220 | M20x205 | M22x200 | M24x195 | M27x155 |
| M4X45 | M8x70 | M14x50 | M16x260 | M18x225 | M20x210 | M22x205 | M24x200 | M27x160 |
| M4X50 | M8x75 | M14x55 | M16x270 | M18x230 | M20x215 | M22x210 | M24x205 | M27x165 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M27x170 | M27x270 | M30x120 | M30x220 | M33x75 | M33x175 | M33x275 | M36x130 | M36x230 |
| M27x175 | M27x275 | M30x125 | M30x225 | M33x80 | M33x180 | M33x280 | M36x135 | M36x235 |
| M27x180 | M27x280 | M30x130 | M30x230 | M33x85 | M33x185 | M33x285 | M36x140 | M36x240 |
| M27x185 | M27x285 | M30x135 | M30x235 | M33x90 | M33x190 | M33x290 | M36x145 | M36x245 |
| M27x190 | M27x290 | M30x140 | M30x240 | M33x95 | M33x195 | M33x295 | M36x150 | M36x250 |
| M27x195 | M27x295 | M30x145 | M30x245 | M33x100 | M33x200 | M33x300 | M36x155 | M36x255 |
| M27x200 | M27x300 | M30x150 | M30x250 | M33x105 | M33x205 | M36x60 | M36x160 | M36x260 |
| M27x205 | M30x55 | M30x155 | M30x255 | M33x110 | M33x210 | M36x65 | M36x165 | M36x265 |
| M27x210 | M30x60 | M30x160 | M30x260 | M33x115 | M33x215 | M36x70 | M36x170 | M36x270 |
| M27x215 | M30x65 | M30x165 | M30x265 | M33x120 | M33x220 | M36x75 | M36x175 | M36x275 |
| M27x220 | M30x70 | M30x170 | M30x270 | M33x125 | M33x225 | M36x80 | M36x180 | M36x280 |
| M27x225 | M30x75 | M30x175 | M30x275 | M33x130 | M33x230 | M36x85 | M36x185 | M36x285 |
| M27x230 | M30x80 | M30x180 | M30x280 | M33x135 | M33x235 | M36x90 | M36x190 | M36x290 |
| M27x235 | M30x85 | M30x185 | M30x285 | M33x140 | M33x240 | M36x95 | M36x195 | M36x295 |
| M27x240 | M30x90 | M30x190 | M30x290 | M33x145 | M33x245 | M36x100 | M36x200 | M36x300 |
| M27x245 | M30x95 | M30x195 | M30x295 | M33x150 | M33x250 | M36x105 | M36x205 | |
| M27x250 | M30x100 | M30x200 | M30x300 | M33x155 | M33x255 | M36x110 | M36x210 | |
| M27x255 | M30x105 | M30x205 | M33x60 | M33x160 | M33x260 | M36x115 | M36x215 | |
| M27x260 | M30x110 | M30x210 | M33x65 | M33x165 | M33x265 | M36x120 | M36x220 | |
| M27x265 | M30x115 | M30x215 | M33x70 | M33x170 | M33x270 | M36x125 | M36x225 | |

## 1.17 Surub cu locas hexalobular (Hexalobular socket head cap screw)

**STANDARD: ISO 14580**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M4X06 | M5X35 | M6X65 | M8X55 | M10X60 | M12X55 | M14X50 | M16X70 | M20X150 |
| M4X08 | M5X40 | M6X70 | M8X60 | M10X65 | M12X60 | M14X60 | M16X75 | M20X160 |
| M4X10 | M5X45 | M6X75 | M8X65 | M10X70 | M12X65 | M14X70 | M16X80 | M20X180 |
| M4X12 | M5X50 | M6X80 | M8X70 | M10X75 | M12X70 | M16X100 | M16X90 | M20X200 |
| M4X16 | M5X55 | M6X90 | M8X75 | M10X80 | M12X75 | M16X110 | M20X30 | M24X50 |
| M4X20 | M6X8 | M6X100 | M8X80 | M10X100 | M12X80 | M16X120 | M20X35 | M24X55 |
| M4X25 | M6X10 | M6X110 | M8X90 | M10X110 | M12X90 | M16X130 | M20X40 | M24X60 |
| M4X30 | M6X12 | M6X120 | M8X100 | M10X120 | M12X100 | M16X140 | M20X45 | M24X70 |
| M4X35 | M6X14 | M8X10 | M8X110 | M10X130 | M12X110 | M16X150 | M20X50 | M24X80 |
| M4X40 | M6X16 | M8X12 | M8X120 | M10X140 | M12X120 | M16X160 | M20X55 | M24X90 |
| M5X06 | M6X18 | M8X14 | M10X12 | M10X150 | M12X130 | M16X180 | M20X60 | M24X100 |
| M5X08 | M6X20 | M8X16 | M10X16 | M10X160 | M12X140 | M16X200 | M20X65 | M24X110 |
| M5X10 | M6X22 | M8X18 | M10X18 | M10X180 | M12X150 | M16X25 | M20X70 | M24X120 |
| M5X12 | M6X25 | M8X20 | M10X20 | M10X200 | M12X160 | M16X30 | M20X75 | M24X130 |
| M5X14 | M6X30 | M8X22 | M10X25 | M12X20 | M12X180 | M16X35 | M20X80 | M24X140 |
| M5X16 | M6X35 | M8X25 | M10X30 | M12X25 | M12X200 | M16X40 | M20X90 | M24X150 |
| M5X18 | M6X40 | M8X30 | M10X35 | M12X30 | M14X25 | M16X45 | M20X100 | M24X160 |
| M5X20 | M6X45 | M8X35 | M10X40 | M12X35 | M14X30 | M16X50 | M20X110 | M24X180 |
| M5X22 | M6X50 | M8X40 | M10X45 | M12X40 | M14X35 | M16X55 | M20X120 | |
| M5X25 | M6X55 | M8X45 | M10X50 | M12X45 | M14X40 | M16X60 | M20X130 | |
| M5X30 | M6X60 | M8X50 | M10X55 | M12X50 | M14X45 | M16X65 | M20X140 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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# 1.18 Surub imbus cu pas fin (Hexagon socket head cap screw with fine thread)

**STANDARD: DIN 912 / STAS 5144**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M2X03 | M4X55 | M8x80 | M14x60 | M16x280 | M18x235 | M20x220 | M22x215 | M24x210 |
| M2X04 | M4X60 | M8x90 | M14x65 | M16x290 | M18x240 | M20x225 | M22x220 | M24x215 |
| M2X05 | M4X65 | M10x16 | M14x70 | M16x300 | M18x245 | M20x230 | M22x225 | M24x220 |
| M2X06 | M4X70 | M10x20 | M14x75 | M18x40 | M18x250 | M20x235 | M22x230 | M24x225 |
| M2X08 | M5X08 | M10x25 | M14x80 | M18x45 | M18x255 | M20x240 | M22x235 | M24x230 |
| M2X10 | M5x10 | M10x30 | M14x90 | M18x50 | M18x260 | M20x245 | M22x240 | M24x235 |
| M2X12 | M5x16 | M10x35 | M14x100 | M18x55 | M20x40 | M20x250 | M22x245 | M24x240 |
| M2x16 | M5x20 | M10x40 | M14x110 | M18x60 | M20x45 | M20x255 | M22x250 | M24x245 |
| M2x20 | M5x25 | M10x45 | M14x120 | M18x65 | M20x50 | M20x260 | M22x255 | M24x250 |
| M2.5X03 | M5x30 | M10x50 | M14x130 | M18x70 | M20x55 | M22x50 | M22x260 | M24x255 |
| M2.5X04 | M5x35 | M10x55 | M14x140 | M18x75 | M20x60 | M22x55 | M24x50 | M24x260 |
| M2.5X05 | M5x40 | M10x60 | M16x25 | M18x80 | M20x65 | M22x60 | M24x55 | M24x265 |
| M2.5X06 | M5x45 | M10x65 | M16x30 | M18x85 | M20x70 | M22x65 | M24x60 | M24x270 |
| M2.5X08 | M5x50 | M10x70 | M16x35 | M18x90 | M20x75 | M22x70 | M24x65 | M24x275 |
| M2.5X10 | M6x10 | M10x75 | M16x40 | M18x95 | M20x80 | M22x75 | M24x70 | M24x280 |
| M2.5X12 | M6x16 | M10x80 | M16x45 | M18x100 | M20x85 | M22x80 | M24x75 | M24x285 |
| M2.5X16 | M6x20 | M10x90 | M16x50 | M18x105 | M20x90 | M22x85 | M24x80 | M24x290 |
| M2.5X20 | M6x25 | M10x100 | M16x55 | M18x110 | M20x95 | M22x90 | M24x85 | M24x295 |
| M2.5X25 | M6x30 | M12x20 | M16x60 | M18x115 | M20x100 | M22x95 | M24x90 | M24x300 |
| M3X12 | M6x35 | M12x25 | M16x65 | M18x120 | M20x105 | M22x100 | M24x95 | M27x55 |
| M3X16 | M6x40 | M12x30 | M16x70 | M18x125 | M20x110 | M22x105 | M24x100 | M27x60 |
| M3X20 | M6x45 | M12x35 | M16x75 | M18x130 | M20x115 | M22x110 | M24x105 | M27x65 |
| M3X25 | M6x50 | M12x40 | M16x80 | M18x135 | M20x120 | M22x115 | M24x110 | M27x70 |
| M3X30 | M6x55 | M12x45 | M16x90 | M18x140 | M20x125 | M22x120 | M24x115 | M27x75 |
| M3X35 | M6x60 | M12x50 | M16x100 | M18x145 | M20x130 | M22x125 | M24x120 | M27x80 |
| M3X40 | M6x65 | M12x55 | M16x110 | M18x150 | M20x135 | M22x130 | M24x125 | M27x85 |
| M3X45 | M6x70 | M12x60 | M16x120 | M18x155 | M20x140 | M22x135 | M24x130 | M27x90 |
| M3X50 | M6x75 | M12x65 | M16x130 | M18x160 | M20x145 | M22x140 | M24x135 | M27x95 |
| M3X60 | M6x80 | M12x70 | M16x140 | M18x165 | M20x150 | M22x145 | M24x140 | M27x100 |
| M4X08 | M8x16 | M12x75 | M16x150 | M18x170 | M20x155 | M22x150 | M24x145 | M27x105 |
| M4X10 | M8x20 | M12x80 | M16x160 | M18x175 | M20x160 | M22x155 | M24x150 | M27x110 |
| M4X12 | M8x25 | M12x90 | M16x170 | M18x180 | M20x165 | M22x160 | M24x155 | M27x115 |
| M4X14 | M8x30 | M12x100 | M16x180 | M18x185 | M20x170 | M22x165 | M24x160 | M27x120 |
| M4X16 | M8x35 | M12x110 | M16x190 | M18x190 | M20x175 | M22x170 | M24x165 | M27x125 |
| M4X18 | M8x40 | M12x120 | M16x200 | M18x195 | M20x180 | M22x175 | M24x170 | M27x130 |
| M4X20 | M8x45 | M14x25 | M16x210 | M18x200 | M20x185 | M22x180 | M24x175 | M27x135 |
| M4X25 | M8x50 | M14x30 | M16x220 | M18x205 | M20x190 | M22x185 | M24x180 | M27x140 |
| M4X30 | M8x55 | M14x35 | M16x230 | M18x210 | M20x195 | M22x190 | M24x185 | M27x145 |
| M4X35 | M8x60 | M14x40 | M16x240 | M18x215 | M20x200 | M22x195 | M24x190 | M27x150 |
| M4X40 | M8x65 | M14x45 | M16x250 | M18x220 | M20x205 | M22x200 | M24x195 | M27x155 |
| M4X45 | M8x70 | M14x50 | M16x260 | M18x225 | M20x210 | M22x205 | M24x200 | M27x160 |
| M4X50 | M8x75 | M14x55 | M16x270 | M18x230 | M20x215 | M22x210 | M24x205 | M27x165 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M27x170 | M27x270 | M30x120 | M30x220 | M33x75 | M33x175 | M33x275 | M36x130 | M36x230 |
| M27x175 | M27x275 | M30x125 | M30x225 | M33x80 | M33x180 | M33x280 | M36x135 | M36x235 |
| M27x180 | M27x280 | M30x130 | M30x230 | M33x85 | M33x185 | M33x285 | M36x140 | M36x240 |
| M27x185 | M27x285 | M30x135 | M30x235 | M33x90 | M33x190 | M33x290 | M36x145 | M36x245 |
| M27x190 | M27x290 | M30x140 | M30x240 | M33x95 | M33x195 | M33x295 | M36x150 | M36x250 |
| M27x195 | M27x295 | M30x145 | M30x245 | M33x100 | M33x200 | M33x300 | M36x155 | M36x255 |
| M27x200 | M27x300 | M30x150 | M30x250 | M33x105 | M33x205 | M36x60 | M36x160 | M36x260 |
| M27x205 | M30x55 | M30x155 | M30x255 | M33x110 | M33x210 | M36x65 | M36x165 | M36x265 |
| M27x210 | M30x60 | M30x160 | M30x260 | M33x115 | M33x215 | M36x70 | M36x170 | M36x270 |
| M27x215 | M30x65 | M30x165 | M30x265 | M33x120 | M33x220 | M36x75 | M36x175 | M36x275 |
| M27x220 | M30x70 | M30x170 | M30x270 | M33x125 | M33x225 | M36x80 | M36x180 | M36x280 |
| M27x225 | M30x75 | M30x175 | M30x275 | M33x130 | M33x230 | M36x85 | M36x185 | M36x285 |
| M27x230 | M30x80 | M30x180 | M30x280 | M33x135 | M33x235 | M36x90 | M36x190 | M36x290 |
| M27x235 | M30x85 | M30x185 | M30x285 | M33x140 | M33x240 | M36x95 | M36x195 | M36x295 |
| M27x240 | M30x90 | M30x190 | M30x290 | M33x145 | M33x245 | M36x100 | M36x200 | M36x300 |
| M27x245 | M30x95 | M30x195 | M30x295 | M33x150 | M33x250 | M36x105 | M36x205 | |
| M27x250 | M30x100 | M30x200 | M30x300 | M33x155 | M33x255 | M36x110 | M36x210 | |
| M27x255 | M30x105 | M30x205 | M33x60 | M33x160 | M33x260 | M36x115 | M36x215 | |
| M27x260 | M30x110 | M30x210 | M33x65 | M33x165 | M33x265 | M36x120 | M36x220 | |
| M27x265 | M30x115 | M30x215 | M33x70 | M33x170 | M33x270 | M36x125 | M36x225 | |

## 1.19 Surub cu cap plat si locas imbus (Hexagon socket flat head screw)

**STANDARD: ISO 14581**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X05 | M4X06 | M5X06 | M5X70 | M6X45 | M8X12 | M8X80 | M10X30 | M10X150 |
| M3X06 | M4X08 | M5X08 | M5X80 | M6X50 | M8X14 | M8X90 | M10X35 | M10X160 |
| M3X08 | M4X10 | M5X10 | M5X90 | M6X55 | M8X16 | M8X100 | M10X40 | M10X180 |
| M3X10 | M4X12 | M5X12 | M5X100 | M6X60 | M8X18 | M8X110 | M10X45 | M10X200 |
| M3X12 | M4X14 | M5X14 | M6X08 | M6X65 | M8X20 | M8X120 | M10X50 | M12X20 |
| M3X14 | M4X16 | M5X16 | M6X10 | M6X70 | M8X25 | M8X130 | M10X55 | M12X25 |
| M3X16 | M4X18 | M5X18 | M6X12 | M6X75 | M8X30 | M8X140 | M10X60 | M12X30 |
| M3X18 | M4X20 | M5X20 | M6X14 | M6X80 | M8X35 | M8X150 | M10X65 | M12X35 |
| M3X20 | M4X25 | M5X25 | M6X16 | M6X90 | M8X40 | M8X160 | M10X70 | M12X40 |
| M3X25 | M4X30 | M5X30 | M6X18 | M6X100 | M8X45 | M8X180 | M10X80 | M12X45 |
| M3X30 | M4X35 | M5X35 | M6X20 | M6X110 | M8X50 | M8X200 | M10X90 | M12X50 |
| M3X35 | M4X40 | M5X40 | M6X22 | M6X120 | M8X55 | M10X12 | M10X100 | M12X60 |
| M3X40 | M4X45 | M5X45 | M6X25 | M6X130 | M8X60 | M10X16 | M10X110 | M12X65 |
| M3X45 | M4X50 | M5X50 | M6X30 | M6X140 | M8X65 | M10X18 | M10X120 | M12X70 |
| M3X50 | M4X55 | M5X55 | M6X35 | M6X150 | M8X70 | M10X20 | M10X130 | M12X80 |
| M4X05 | M4X60 | M5X60 | M6X40 | M8X10 | M8X75 | M10X25 | M10X140 | M12X90 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.20 Surub de reglare (Hexagon socket head shoulder screw)

**STANDARD: ISO 7379**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5X06 | M6X12 | M6X90 | M8X60 | M10X50 | M12X30 | M12X160 | M16X180 | M20X45 |
| M5X08 | M6X14 | M6X100 | M8X65 | M10X55 | M12X35 | M12X180 | M16X200 | M20X50 |
| M5X10 | M6X16 | M6X110 | M8X70 | M10X60 | M12X40 | M12X200 | M16X25 | M20X55 |
| M5X12 | M6X18 | M6X120 | M8X75 | M10X65 | M12X45 | M14X25 | M16X30 | M20X60 |
| M5X14 | M6X20 | M8X10 | M8X80 | M10X70 | M12X50 | M14X30 | M16X35 | M20X65 |
| M5X16 | M6X22 | M8X12 | M8X90 | M10X75 | M12X55 | M14X35 | M16X40 | M20X70 |
| M5X18 | M6X25 | M8X14 | M8X100 | M10X80 | M12X60 | M14X40 | M16X45 | M20X75 |
| M5X20 | M6X30 | M8X16 | M8X110 | M10X100 | M12X65 | M14X45 | M16X50 | M20X80 |
| M5X22 | M6X35 | M8X18 | M8X120 | M10X110 | M12X70 | M14X50 | M16X55 | M20X90 |
| M5X25 | M6X40 | M8X20 | M10X12 | M10X120 | M12X75 | M14X60 | M16X60 | M20X100 |
| M5X30 | M6X45 | M8X22 | M10X16 | M10X130 | M12X80 | M14X70 | M16X65 | M20X110 |
| M5X35 | M6X50 | M8X25 | M10X18 | M10X140 | M12X90 | M16X100 | M16X70 | M20X120 |
| M5X40 | M6X55 | M8X30 | M10X20 | M10X150 | M12X100 | M16X110 | M16X75 | M20X130 |
| M5X45 | M6X60 | M8X35 | M10X25 | M10X160 | M12X110 | M16X120 | M16X80 | M20X140 |
| M5X50 | M6X65 | M8X40 | M10X30 | M10X180 | M12X120 | M16X130 | M16X90 | M20X150 |
| M5X55 | M6X70 | M8X45 | M10X35 | M10X200 | M12X130 | M16X140 | M20X30 | M20X160 |
| M6X8 | M6X75 | M8X50 | M10X40 | M12X20 | M12X140 | M16X150 | M20X35 | |
| M6X10 | M6X80 | M8X55 | M10X45 | M12X25 | M12X150 | M16X160 | M20X40 | |

## 1.21 Surub cu locas imbus si cap bombat (Socket button head cap screw)

**STANDARD: ISO 7380**



| DIMENSIUNI DISPODNIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X05 | M4X30 | M5X90 | M6X120 | M8X120 | M10X120 | M14X30 | M16X90 | M20X150 |
| M3X06 | M4X35 | M5X100 | M6X130 | M8X130 | M10X130 | M14X35 | M16X100 | M20X160 |
| M3X08 | M4X40 | M6X08 | M6X140 | M8X140 | M10X140 | M14X40 | M16X110 | M20X180 |
| M3X10 | M4X45 | M6X10 | M6X150 | M8X150 | M10X150 | M14X45 | M16X120 | M20X200 |
| M3X12 | M4X50 | M6X12 | M8X10 | M8X160 | M10X160 | M14X50 | M16X130 | M24X40 |
| M3X14 | M4X55 | M6X14 | M8X12 | M8X180 | M10X180 | M14X55 | M16X140 | M24X45 |
| M3X16 | M4X60 | M6X16 | M8X14 | M8X200 | M10X200 | M14X60 | M16X150 | M24X50 |
| M3X18 | M5X06 | M6X18 | M8X16 | M10X12 | M12X20 | M14X70 | M16X160 | M24X55 |
| M3X20 | M5X08 | M6X20 | M8X18 | M10X16 | M12X25 | M14X80 | M16X180 | M24X60 |
| M3X25 | M5X10 | M6X22 | M8X20 | M10X18 | M12X30 | M14X90 | M16X200 | M24X70 |
| M3X30 | M5X12 | M6X25 | M8X25 | M10X20 | M12X35 | M14X100 | M20X35 | M24X80 |
| M3X35 | M5X14 | M6X30 | M8X30 | M10X25 | M12X40 | M14X110 | M20X40 | M24X90 |
| M3X40 | M5X16 | M6X35 | M8X35 | M10X30 | M12X45 | M14X120 | M20X45 | M24X100 |
| M3X45 | M5X18 | M6X40 | M8X40 | M10X35 | M12X50 | M16X25 | M20X50 | M24X110 |
| M3X50 | M5X20 | M6X45 | M8X45 | M10X40 | M12X60 | M16X30 | M20X55 | M24X120 |
| M4X05 | M5X25 | M6X50 | M8X50 | M10X45 | M12X65 | M16X35 | M20X60 | M24X130 |
| M4X06 | M5X30 | M6X55 | M8X55 | M10X50 | M12X70 | M16X40 | M20X65 | M24X140 |
| M4X08 | M5X35 | M6X60 | M8X60 | M10X55 | M12X80 | M16X45 | M20X70 | M24X150 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.22 Surub imbus cap bombat si flansa (Hexagon socket button head screw with flange)

**STANDARD: ISO 7380**



| DIMENSIUNI DISPODNIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X05 | M4X30 | M5X90 | M6X120 | M8X120 | M10X120 | M14X30 | M16X90 | M20X150 |
| M3X06 | M4X35 | M5X100 | M6X130 | M8X130 | M10X130 | M14X35 | M16X100 | M20X160 |
| M3X08 | M4X40 | M6X08 | M6X140 | M8X140 | M10X140 | M14X40 | M16X110 | M20X180 |
| M3X10 | M4X45 | M6X10 | M6X150 | M8X150 | M10X150 | M14X45 | M16X120 | M20X200 |
| M3X12 | M4X50 | M6X12 | M8X10 | M8X160 | M10X160 | M14X50 | M16X130 | M24X40 |
| M3X14 | M4X55 | M6X14 | M8X12 | M8X180 | M10X180 | M14X55 | M16X140 | M24X45 |
| M3X16 | M4X60 | M6X16 | M8X14 | M8X200 | M10X200 | M14X60 | M16X150 | M24X50 |
| M3X18 | M5X06 | M6X18 | M8X16 | M10X12 | M12X20 | M14X70 | M16X160 | M24X55 |
| M3X20 | M5X08 | M6X20 | M8X18 | M10X16 | M12X25 | M14X80 | M16X180 | M24X60 |
| M3X25 | M5X10 | M6X22 | M8X20 | M10X18 | M12X30 | M14X90 | M16X200 | M24X70 |
| M3X30 | M5X12 | M6X25 | M8X25 | M10X20 | M12X35 | M14X100 | M20X35 | M24X80 |
| M3X35 | M5X14 | M6X30 | M8X30 | M10X25 | M12X40 | M14X110 | M20X40 | M24X90 |
| M3X40 | M5X16 | M6X35 | M8X35 | M10X30 | M12X45 | M14X120 | M20X45 | M24X100 |
| M3X45 | M5X18 | M6X40 | M8X40 | M10X35 | M12X50 | M16X25 | M20X50 | M24X110 |
| M3X50 | M5X20 | M6X45 | M8X45 | M10X40 | M12X60 | M16X30 | M20X55 | M24X120 |
| M4X05 | M5X25 | M6X50 | M8X50 | M10X45 | M12X65 | M16X35 | M20X60 | M24X130 |
| M4X06 | M5X30 | M6X55 | M8X55 | M10X50 | M12X70 | M16X40 | M20X65 | M24X140 |
| M4X08 | M5X35 | M6X60 | M8X60 | M10X55 | M12X80 | M16X45 | M20X70 | M24X150 |
| M4X10 | M5X40 | M6X65 | M8X65 | M10X60 | M12X90 | M16X50 | M20X80 | M24X160 |
| M4X12 | M5X45 | M6X70 | M8X70 | M10X65 | M12X100 | M16X55 | M20X90 | M24X180 |
| M4X14 | M5X50 | M6X75 | M8X75 | M10X70 | M12X110 | M16X60 | M20X100 | M24X200 |
| M4X16 | M5X55 | M6X80 | M8X80 | M10X80 | M12X120 | M16X65 | M20X110 | |
| M4X18 | M5X60 | M6X90 | M8X90 | M10X90 | M12X130 | M16X70 | M20X120 | |
| M4X20 | M5X70 | M6X100 | M8X100 | M10X100 | M12X140 | M16X75 | M20X130 | |
| M4X25 | M5X80 | M6X110 | M8X110 | M10X110 | M12X150 | M16X80 | M20X140 | |

## 1.23 Surub cu cap bombat si locas torx (Torx socket button head screw)

**STANDARD: ISO ~7380**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X05 | M4X18 | M5X45 | M6X55 | M8X40 | M10X20 | M12X20 | M14X50 | M16X100 |
| M3X06 | M4X20 | M5X50 | M6X60 | M8X45 | M10X25 | M12X25 | M14X55 | M16X110 |
| M3X08 | M4X25 | M5X55 | M6X65 | M8X50 | M10X30 | M12X30 | M14X60 | M16X120 |
| M3X10 | M4X30 | M5X60 | M6X70 | M8X55 | M10X35 | M12X35 | M14X70 | M16X130 |
| M3X12 | M4X35 | M5X70 | M6X75 | M8X60 | M10X40 | M12X40 | M14X80 | M16X140 |
| M3X14 | M4X40 | M5X80 | M6X80 | M8X65 | M10X45 | M12X45 | M14X90 | M16X150 |
| M3X16 | M4X45 | M5X90 | M6X90 | M8X70 | M10X50 | M12X50 | M14X100 | M16X160 |
| M3X18 | M4X50 | M5X100 | M6X100 | M8X75 | M10X55 | M12X60 | M14X110 | M16X180 |
| M3X20 | M4X55 | M6X08 | M6X110 | M8X80 | M10X60 | M12X65 | M14X120 | M16X200 |
| M3X25 | M4X60 | M6X10 | M6X120 | M8X90 | M10X65 | M12X70 | M16X25 | M20X35 |
| M3X30 | M5X06 | M6X12 | M6X130 | M8X100 | M10X70 | M12X80 | M16X30 | M20X40 |
| M3X35 | M5X08 | M6X14 | M6X140 | M8X110 | M10X80 | M12X90 | M16X35 | M20X45 |
| M3X40 | M5X10 | M6X16 | M6X150 | M8X120 | M10X90 | M12X100 | M16X40 | M20X50 |
| M3X45 | M5X12 | M6X18 | M8X10 | M8X130 | M10X100 | M12X110 | M16X45 | M20X55 |
| M3X50 | M5X14 | M6X20 | M8X12 | M8X140 | M10X110 | M12X120 | M16X50 | M20X60 |
| M4X05 | M5X16 | M6X22 | M8X14 | M8X150 | M10X120 | M12X130 | M16X55 | M20X65 |
| M4X06 | M5X18 | M6X25 | M8X16 | M8X160 | M10X130 | M12X140 | M16X60 | |
| M4X08 | M5X20 | M6X30 | M8X18 | M8X180 | M10X140 | M12X150 | M16X65 | |
| M4X10 | M5X25 | M6X35 | M8X20 | M8X200 | M10X150 | M14X30 | M16X70 | |
| M4X12 | M5X30 | M6X40 | M8X25 | M10X12 | M10X160 | M14X35 | M16X75 | |
| M4X14 | M5X35 | M6X45 | M8X30 | M10X16 | M10X180 | M14X40 | M16X80 | |
| M4X16 | M5X40 | M6X50 | M8X35 | M10X18 | M10X200 | M14X45 | M16X90 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.24 Surub cap bombat, amprenta cruce (Cross recessed pan head screw)

**STANDARD: DIN 7985 / ISO 7045 / STAS 10295**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1,6X03 | M2,5X10 | M3X20 | M4X18 | M5X12 | M5X90 | M6X90 | M10X20 | M16X60 |
| M1,6X05 | M2,5X12 | M3X22 | M4X20 | M5X14 | M6X08 | M8X10 | M10X25 | M16X70 |
| M2X04 | M2,5X14 | M3X25 | M4X22 | M5X16 | M6X10 | M8X12 | M10X30 | M16X80 |
| M2X05 | M2,5X16 | M3X28 | M4X25 | M5X18 | M6X12 | M8X16 | M10X35 | M16X90 |
| M2X06 | M2,5X18 | M3X30 | M4X30 | M5X20 | M6X16 | M8X20 | M12X20 | M16X100 |
| M2X08 | M2,5X20 | M3X35 | M4X32 | M5X22 | M6X18 | M8X25 | M12X30 | M20X20 |
| M2X10 | M2,5X25 | M3X38 | M4x35 | M5X25 | M6X20 | M8X30 | M12X40 | M20X30 |
| M2X12 | M2,5X30 | M3X40 | M4X40 | M5X30 | M6X25 | M8X35 | M12X50 | M20X40 |
| M2X14 | M3X04 | M3X45 | M4X45 | M5X35 | M6X30 | M8X40 | M12X60 | M20X50 |
| M2X16 | M3X05 | M3X50 | M4X50 | M5X40 | M6X35 | M8X45 | M12X70 | M20X60 |
| M2X18 | M3X06 | M4X05 | M4X55 | M5X45 | M6X40 | M8X50 | M12X80 | M20X70 |
| M2X20 | M3X08 | M4X06 | M4X60 | M5X50 | M6X45 | M8X60 | M12X90 | M20X80 |
| M2,5X03 | M3X10 | M4X08 | M4X70 | M5X55 | M6X50 | M8X70 | M12X100 | M20X90 |
| M2,5X04 | M3X12 | M4X10 | M4X85 | M5X60 | M6X55 | M8X80 | M16X20 | M20X100 |
| M2,5X05 | M3X14 | M4X12 | M5X06 | M5X65 | M6X60 | M8X90 | M16X30 | |
| M2,5X06 | M3X16 | M4X14 | M5X08 | M5X70 | M6X70 | M8X100 | M16X40 | |
| M2,5X08 | M3X18 | M4X16 | M5X10 | M5X80 | M6X80 | M10X16 | M16X50 | |

## 1.25 Surub cu cap inecat si locas imbus (Hexagon socket countersunk head screw)

**STANDARD: DIN 7991 / STAS 10642**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X05 | M4X30 | M5X90 | M6X120 | M8X120 | M10X120 | M14X30 | M16X90 | M20X150 |
| M3X06 | M4X35 | M5X100 | M6X130 | M8X130 | M10X130 | M14X35 | M16X100 | M20X160 |
| M3X08 | M4X40 | M6X08 | M6X140 | M8X140 | M10X140 | M14X40 | M16X110 | M20X180 |
| M3X10 | M4X45 | M6X10 | M6X150 | M8X150 | M10X150 | M14X45 | M16X120 | M20X200 |
| M3X12 | M4X50 | M6X12 | M8X10 | M8X160 | M10X160 | M14X50 | M16X130 | M24X40 |
| M3X14 | M4X55 | M6X14 | M8X12 | M8X180 | M10X180 | M14X55 | M16X140 | M24X45 |
| M3X16 | M4X60 | M6X16 | M8X14 | M8X200 | M10X200 | M14X60 | M16X150 | M24X50 |
| M3X18 | M5X06 | M6X18 | M8X16 | M10X12 | M12X20 | M14X70 | M16X160 | M24X55 |
| M3X20 | M5X08 | M6X20 | M8X18 | M10X16 | M12X25 | M14X80 | M16X180 | M24X60 |
| M3X25 | M5X10 | M6X22 | M8X20 | M10X18 | M12X30 | M14X90 | M16X200 | M24X70 |
| M3X30 | M5X12 | M6X25 | M8X25 | M10X20 | M12X35 | M14X100 | M20X35 | M24X80 |
| M3X35 | M5X14 | M6X30 | M8X30 | M10X25 | M12X40 | M14X110 | M20X40 | M24X90 |
| M3X40 | M5X16 | M6X35 | M8X35 | M10X30 | M12X45 | M14X120 | M20X45 | M24X100 |
| M3X45 | M5X18 | M6X40 | M8X40 | M10X35 | M12X50 | M16X25 | M20X50 | M24X110 |
| M3X50 | M5X20 | M6X45 | M8X45 | M10X40 | M12X60 | M16X30 | M20X55 | M24X120 |
| M4X05 | M5X25 | M6X50 | M8X50 | M10X45 | M12X65 | M16X35 | M20X60 | M24X130 |
| M4X06 | M5X30 | M6X55 | M8X55 | M10X50 | M12X70 | M16X40 | M20X65 | M24X140 |
| M4X08 | M5X35 | M6X60 | M8X60 | M10X55 | M12X80 | M16X45 | M20X70 | M24X150 |
| M4X10 | M5X40 | M6X65 | M8X65 | M10X60 | M12X90 | M16X50 | M20X80 | M24X160 |
| M4X12 | M5X45 | M6X70 | M8X70 | M10X65 | M12X100 | M16X55 | M20X90 | M24X180 |
| M4X14 | M5X50 | M6X75 | M8X75 | M10X70 | M12X110 | M16X60 | M20X100 | M24X200 |
| M4X16 | M5X55 | M6X80 | M8X80 | M10X80 | M12X120 | M16X65 | M20X110 | |
| M48X1 | M5X60 | M6X90 | M8X90 | M10X90 | M12X130 | M16X70 | M20X120 | |
| M4X20 | M5X70 | M6X100 | M8X100 | M10X100 | M12X140 | M16X75 | M20X130 | |
| M4X25 | M5X80 | M6X110 | M8X110 | M10X110 | M12X150 | M16X80 | M20X140 | |

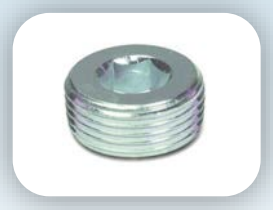
- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.26 Dop filetat locas hexagonal (Hexagon socket pipe plug)

**STANDARD: DIN 906**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M8X1 | M12X1,5 | M16X1,5 | M20X1,5 | M24X1,5 | M30X1,5 | M30X2 | M36X1,5 | M39X2 |
| M10X1 | M14X1,5 | M18X1,5 | M22X1,5 | | | | | |

## 1.27 Dop filetat locas hexagonal (Hexagon socket screw plug)

**STANDARD: DIN 908**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M8X1 | M12X1,5 | M16X1,5 | M20X1,5 | M24X1,5 | M27X2 | M30X2 | M36X1,5 | M42X1,5 |
| M10X1 | M14X1,5 | M18X1,5 | M22X1,5 | M26X1,5 | M30X1,5 | M33X2 | M38X1,5 | M48X1,5 |

## 1.28 Dop filetat locas hexagonal (Hexagon socket screw plug)

**STANDARD: DIN 910**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M10X1 | M14X1,5 | M18X1,5 | M20X1,5 | M22X1,5 | M24X1,5 | M26X1,5 | M30X1,5 | M36X1,5 |
| M12X1,5 | M16X1,5 | | | | | | | |

## 1.29 Dop filetat locas hexagonal (Light duty hexagon head screw plugs)

**STANDARD: DIN 7604A ; DIN 7604C**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M8x1 | M12x1.5 | M18x1.5 | M26x1.5 | M30x1.5 | M38x1.5 | M38x1.5 | M45x1.5 | M52x1.5 |
| M10x1 | M14x1.5 | M22x1.5 | | | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.30 Stift filetat locas hexagonal cap plat (Hexagon socket set screw with flat point)

**STANDARD: DIN 913 / ISO 4026**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1,4X2,5 | M2,5X10 | M4X12 | M5X35 | M8X8 | M10X20 | M12X50 | M16X30 | M20X40 |
| M1,4X3 | M2,5x12 | M4X14 | M5X40 | M8X10 | M10X22 | M12X55 | M16X35 | M20X45 |
| M1,4X4 | M3X3 | M4X16 | M5x50 | M8X12 | M10X25 | M12X60 | M16X40 | M20X50 |
| M1,4X5 | M3X4 | M4X18 | M6X4 | M8X14 | M10X30 | M12X70 | M16X45 | M20X55 |
| M1,6X2 | M3X5 | M4X20 | M6X5 | M8X16 | M10X35 | M12X80 | M16X50 | M20X60 |
| M1,6X2,5 | M3X6 | M4X22 | M6X6 | M8X18 | M10X40 | M14X12 | M16X55 | M20X70 |
| M1,6X3 | M3X8 | M4X25 | M6X8 | M8X20 | M10X45 | M14X14 | M16X60 | M20X80 |
| M1,6X4 | M3X10 | M4X30 | M6X10 | M8X22 | M10X50 | M14X16 | M16X70 | M20X90 |
| M1,6X5 | M3X12 | M4X35 | M6X12 | M8X25 | M10X60 | M14X20 | M16X80 | M24X20 |
| M1,6X6 | M3X14 | M4X40 | M6X14 | M8X30 | M10X70 | M14X25 | M18X20 | M24X25 |
| M1,6X8 | M3X16 | M5X5 | M6X16 | M8X35 | M10X80 | M14X30 | M18X25 | M24X30 |
| M2X3 | M3X18 | M5X6 | M6X18 | M8X40 | M12X10 | M14X35 | M18X30 | M24X35 |
| M2X4 | M3X20 | M5X8 | M6X20 | M8X45 | M12X12 | M14X40 | M18X35 | M24X40 |
| M2X5 | M3X22 | M5X10 | M6X22 | M8X50 | M12X14 | M14X45 | M18X40 | M24X45 |
| M2X6 | M3X25 | M5X12 | M6X25 | M8X60 | M12X16 | M14X50 | M18X45 | M24X50 |
| M2X8 | M3X30 | M5X14 | M6X30 | M8X70 | M12X18 | M14X55 | M18X50 | M24X55 |
| M2X10 | M4X3 | M5X16 | M6X35 | M10X8 | M12X20 | M14X60 | M18X60 | M24X60 |
| M2,5X3 | M4X4 | M5X18 | M6X40 | M10X10 | M12X25 | M14X70 | M18X70 | M24X70 |
| M2,5X4 | M4X5 | M5X20 | M6X45 | M10X12 | M12X30 | M16X16 | M20X20 | M24X80 |
| M2,5X5 | M4X6 | M5X22 | M6X50 | M10X14 | M12X35 | M16X18 | M20X25 | M24X90 |
| M2,5X6 | M4X8 | M5X25 | M6X60 | M10X16 | M12X40 | M16X20 | M20X30 | |
| M2,5X8 | M4X10 | M5X30 | M8X6 | M10X18 | M12X45 | M16X25 | M20X35 | |

## 1.31 Stift filetat cu crestatura si con interior (Slotted set screw with cup point)

**STANDARD: DIN 438 / ISO 7436 / STAS 4846**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X3 | M3X8 | M4X6 | M4X12 | M5X6 | M5X12 | M6X6 | M6X12 | M8X10 |
| M3X4 | M4X4 | M4X8 | M4X16 | M5X8 | M5X16 | M6X8 | M6X20 | M8X12 |
| M3X5 | M4X5 | M4X10 | M5X5 | M5X10 | M5X20 | M6X10 | M6X25 | M6X16 |
| M3X6 | | | | | | | | |

## 1.32 Stift filetat cu crestatura si cep (Slotted set screw with long point)

**STANDARD: DIN 417 / ISO 7435 / STAS 4847**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X5 | M4X5 | M4X20 | M5X20 | M6X20 | M8X16 | M8X40 | M10X25 | M12X20 |
| M3X6 | M4X6 | M5X6 | M5X25 | M6X25 | M8X18 | M8X45 | M10X30 | M12X25 |
| M3X8 | M4X8 | M5X8 | M6X8 | M6X30 | M8X20 | M8X50 | M10X35 | M12X30 |
| M3X10 | M4X10 | M5X10 | M6X10 | M6X35 | M8X22 | M10X10 | M10X40 | M12X35 |
| M3X12 | M4X12 | M5X12 | M6X12 | M6X40 | M8X25 | M10X16 | M10X50 | M12X40 |
| M3X16 | M4X16 | M5X16 | M6X16 | M8X10 | M8X30 | M10X18 | M10X55 | M12X45 |
| M3X20 | M4X18 | M5X18 | M6X18 | M8X12 | M8X35 | M10X20 | M12X18 | M12X50 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.33 Stift filetat locas imbus pas fin
## (Hexagon socket set screw with flat point and fine thread)

**STANDARD: DIN 913 / ISO 4026**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1,4X2,5 | M2,5X10 | M4X12 | M5X35 | M8X8 | M10X20 | M12X50 | M16X30 | M20X40 |
| M1,4X3 | M2,5x12 | M4X14 | M5X40 | M8X10 | M10X22 | M12X55 | M16X35 | M20X45 |
| M1,4X4 | M3X3 | M4X16 | M5x50 | M8X12 | M10X25 | M12X60 | M16X40 | M20X50 |
| M1,4X5 | M3X4 | M4X18 | M6X4 | M8X14 | M10X30 | M12X70 | M16X45 | M20X55 |
| M1,6X2 | M3X5 | M4X20 | M6X5 | M8X16 | M10X35 | M12X80 | M16X50 | M20X60 |
| M1,6X2,5 | M3X6 | M4X22 | M6X6 | M8X18 | M10X40 | M14X12 | M16X55 | M20X70 |
| M1,6X3 | M3X8 | M4X25 | M6X8 | M8X20 | M10X45 | M14X14 | M16X60 | M20X80 |
| M1,6X4 | M3X10 | M4X30 | M6X10 | M8X22 | M10X50 | M14X16 | M16X70 | M20X90 |
| M1,6X5 | M3X12 | M4X35 | M6X12 | M8X25 | M10X60 | M14X20 | M16X80 | M24X20 |
| M1,6X6 | M3X14 | M4X40 | M6X14 | M8X30 | M10X70 | M14X25 | M18X20 | M24X25 |
| M1,6X8 | M3X16 | M5X5 | M6X16 | M8X35 | M10X80 | M14X30 | M18X25 | M24X30 |
| M2X3 | M3X18 | M5X6 | M6X18 | M8X40 | M12X10 | M14X35 | M18X30 | M24X35 |
| M2X4 | M3X20 | M5X8 | M6X20 | M8X45 | M12X12 | M14X40 | M18X35 | M24X40 |
| M2X5 | M3X22 | M5X10 | M6X22 | M8X50 | M12X14 | M14X45 | M18X40 | M24X45 |
| M2X6 | M3X25 | M5X12 | M6X25 | M8X60 | M12X16 | M14X50 | M18X45 | M24X50 |
| M2X8 | M3X30 | M5X14 | M6X30 | M8X70 | M12X18 | M14X55 | M18X50 | M24X55 |
| M2X10 | M4X3 | M5X16 | M6X35 | M10X8 | M12X20 | M14X60 | M18X60 | M24X60 |
| M2,5X3 | M4X4 | M5X18 | M6X40 | M10X10 | M12X25 | M14X70 | M18X70 | M24X70 |
| M2,5X4 | M4X5 | M5X20 | M6X45 | M10X12 | M12X30 | M16X16 | M20X20 | M24X80 |
| M2,5X5 | M4X6 | M5X22 | M6X50 | M10X14 | M12X35 | M16X18 | M20X25 | M24X90 |
| M2,5X6 | M4X8 | M5X25 | M6X60 | M10X16 | M12X40 | M16X20 | M20X30 | |
| M2,5X8 | M4X10 | M5X30 | M8X6 | M10X18 | M12X45 | M16X25 | M20X35 | |

## 1.34 Stift filetat cu crestatura si varf conic (Slotted set screw with cone point)

**STANDARD: DIN 553 / ISO 7434 / STAS 4771**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1,6X2 | M2X6 | M3X5 | M4X4 | M5X30 | M6X20 | M8X16 | M10X10 | M12X16 |
| M1,6X3 | M2,5X4 | M3X6 | M4X5 | M5X5 | M6X25 | M8X18 | M10X12 | M12X20 |
| M1,6X4 | M2,5X6 | M3X8 | M4X6 | M5X6 | M6X30 | M8X20 | M10X16 | M12X25 |
| M1,6X5 | M3X10 | M4X10 | M4X8 | M5X8 | M6X35 | M8X25 | M10X20 | M12X30 |
| M1,6X6 | M3X12 | M4X12 | M5X10 | M6X6 | M6X40 | M8X30 | M10X25 | M12X35 |
| M1,6X8 | M3X16 | M4X16 | M5X12 | M6X8 | M6X45 | M8X35 | M10X30 | M12X40 |
| M1,6X10 | M3X20 | M4X20 | M5X16 | M6X10 | M6X50 | M8X40 | M10X35 | M12X50 |
| M2X3 | M3X25 | M4X25 | M5X18 | M6X12 | M8X8 | M8X45 | M10X40 | M16X12 |
| M2X4 | M3X3 | M4X30 | M5X20 | M6X16 | M8X10 | M8X50 | M12X10 | M16X16 |
| M2X5 | M3X4 | M4X35 | M5X25 | M6X18 | M8X12 | M8X60 | M12X12 | M16X20 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.35 Stift filetat locas hexagonal cap plat si filet UNC, UNF, BSW, BSF (Hexagon socket set screw with flat point and UNC, UNF, BSW, BSF)



**STANDARD: DIN ~913 / ISO ~4026**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1,4X2,5 | M2,5X10 | M4X12 | M5X35 | M8X8 | M10X20 | M12X50 | M16X30 | M20X40 |
| M1,4X3 | M2,5x12 | M4X14 | M5X40 | M8X10 | M10X22 | M12X55 | M16X35 | M20X45 |
| M1,4X4 | M3X3 | M4X16 | M5x50 | M8X12 | M10X25 | M12X60 | M16X40 | M20X50 |
| M1,4X5 | M3X4 | M4X18 | M6X4 | M8X14 | M10X30 | M12X70 | M16X45 | M20X55 |
| M1,6X2 | M3X5 | M4X20 | M6X5 | M8X16 | M10X35 | M12X80 | M16X50 | M20X60 |
| M1,6X2,5 | M3X6 | M4X22 | M6X6 | M8X18 | M10X40 | M14X12 | M16X55 | M20X70 |
| M1,6X3 | M3X8 | M4X25 | M6X8 | M8X20 | M10X45 | M14X14 | M16X60 | M20X80 |
| M1,6X4 | M3X10 | M4X30 | M6X10 | M8X22 | M10X50 | M14X16 | M16X70 | M20X90 |
| M1,6X5 | M3X12 | M4X35 | M6X12 | M8X25 | M10X60 | M14X20 | M16X80 | M24X20 |
| M1,6X6 | M3X14 | M4X40 | M6X14 | M8X30 | M10X70 | M14X25 | M18X20 | M24X25 |
| M1,6X8 | M3X16 | M5X5 | M6X16 | M8X35 | M10X80 | M14X30 | M18X25 | M24X30 |
| M2X3 | M3X18 | M5X6 | M6X18 | M8X40 | M12X10 | M14X35 | M18X30 | M24X35 |
| M2X4 | M3X20 | M5X8 | M6X20 | M8X45 | M12X12 | M14X40 | M18X35 | M24X40 |
| M2X5 | M3X22 | M5X10 | M6X22 | M8X50 | M12X14 | M14X45 | M18X40 | M24X45 |
| M2X6 | M3X25 | M5X12 | M6X25 | M8X60 | M12X16 | M14X50 | M18X45 | M24X50 |
| M2X8 | M3X30 | M5X14 | M6X30 | M8X70 | M12X18 | M14X55 | M18X50 | M24X55 |
| M2X10 | M4X3 | M5X16 | M6X35 | M10X8 | M12X20 | M14X60 | M18X60 | M24X60 |
| M2,5X3 | M4X4 | M5X18 | M6X40 | M10X10 | M12X25 | M14X70 | M18X70 | M24X70 |
| M2,5X4 | M4X5 | M5X20 | M6X45 | M10X12 | M12X30 | M16X16 | M20X20 | M24X80 |
| M2,5X5 | M4X6 | M5X22 | M6X50 | M10X14 | M12X35 | M16X18 | M20X25 | M24X90 |
| M2,5X6 | M4X8 | M5X25 | M6X60 | M10X16 | M12X40 | M16X20 | M20X30 | |
| M2,5X8 | M4X10 | M5X30 | M8X6 | M10X18 | M12X45 | M16X25 | M20X35 | |

## 1.36 Stift filetat locas imbus cap conic (Hexagon socket set screw with cone point)



**STANDARD: DIN 914 / ISO 4027**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1,6X3 | M2,5X12 | M4X12 | M5X20 | M6X40 | M8X50 | M10X60 | M12X60 | M16X60 |
| M1,6X4 | M3X3 | M4X14 | M5X25 | M6X45 | M8X60 | M10X70 | M12X70 | M16X70 |
| M1,6X5 | M3X4 | M4X16 | M5X30 | M6X50 | M10X8 | M10X80 | M12X80 | M16X80 |
| M1,6X6 | M3X5 | M4X18 | M5X35 | M8X6 | M10X10 | M12X10 | M14X20 | M20X20 |
| M1,6X8 | M3X6 | M4X20 | M5X40 | M8X8 | M10X12 | M12X12 | M14X25 | M20X25 |
| M2X3 | M3X8 | M4X25 | M6X5 | M8X10 | M10X14 | M12X14 | M14X30 | M20X30 |
| M2X4 | M3X10 | M4X30 | M6X6 | M8X12 | M10X16 | M12X16 | M14X40 | M20X35 |
| M2X5 | M3X12 | M4X35 | M6X8 | M8X14 | M10X18 | M12X18 | M14X50 | M20X40 |
| M2X6 | M3X14 | M4X40 | M6X10 | M8X16 | M10X20 | M12X20 | M14X60 | M20X45 |
| M2X8 | M3X16 | M5X5 | M6X12 | M8X18 | M10X22 | M12X22 | M16X16 | M20X50 |
| M2X10 | M3X20 | M5X6 | M6X14 | M8X20 | M10X25 | M12X25 | M16X20 | M20X60 |
| M2,5X3 | M3X25 | M5X8 | M6X16 | M8X22 | M10X30 | M12X30 | M16X25 | M20X70 |
| M2,5X4 | M4X4 | M5X10 | M6X18 | M8X25 | M10X35 | M12X35 | M16X30 | M20X80 |
| M2,5X5 | M4X5 | M5X12 | M6X20 | M8X30 | M10X40 | M12X40 | M16X35 | |
| M2,5X6 | M4X6 | M5X14 | M6X25 | M8X35 | M10X45 | M12X45 | M16X40 | |
| M2,5X8 | M4X8 | M5X16 | M6X30 | M8X40 | M10X50 | M12X50 | M16X45 | |
| M2,5X10 | M4X10 | M5X18 | M6X35 | M8X45 | M10X55 | M12X55 | M16X50 | |

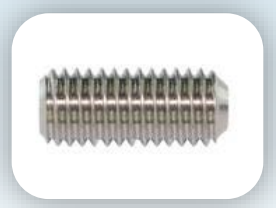
- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.37 Stift filetat locas torx cap plat (Torx socket set screw with flat point)

**STANDARD: DIN ~913 / ISO ~4026**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1,4X2,5 | M2,5X10 | M4X12 | M5X35 | M8X8 | M10X20 | M12X50 | M16X30 | M20X40 |
| M1,4X3 | M2,5x12 | M4X14 | M5X40 | M8X10 | M10X22 | M12X55 | M16X35 | M20X45 |
| M1,4X4 | M3X3 | M4X16 | M5x50 | M8X12 | M10X25 | M12X60 | M16X40 | M20X50 |
| M1,4X5 | M3X4 | M4X18 | M6X4 | M8X14 | M10X30 | M12X70 | M16X45 | M20X55 |
| M1,6X2 | M3X5 | M4X20 | M6X5 | M8X16 | M10X35 | M12X80 | M16X50 | M20X60 |
| M1,6X2,5 | M3X6 | M4X22 | M6X6 | M8X18 | M10X40 | M14X12 | M16X55 | M20X70 |
| M1,6X3 | M3X8 | M4X25 | M6X8 | M8X20 | M10X45 | M14X14 | M16X60 | M20X80 |
| M1,6X4 | M3X10 | M4X30 | M6X10 | M8X22 | M10X50 | M14X16 | M16X70 | M20X90 |
| M1,6X5 | M3X12 | M4X35 | M6X12 | M8X25 | M10X60 | M14X20 | M16X80 | M24X20 |
| M1,6X6 | M3X14 | M4X40 | M6X14 | M8X30 | M10X70 | M14X25 | M18X20 | M24X25 |
| M1,6X8 | M3X16 | M5X5 | M6X16 | M8X35 | M10X80 | M14X30 | M18X25 | M24X30 |
| M2X3 | M3X18 | M5X6 | M6X18 | M8X40 | M12X10 | M14X35 | M18X30 | M24X35 |
| M2X4 | M3X20 | M5X8 | M6X20 | M8X45 | M12X12 | M14X40 | M18X35 | M24X40 |
| M2X5 | M3X22 | M5X10 | M6X22 | M8X50 | M12X14 | M14X45 | M18X40 | M24X45 |
| M2X6 | M3X25 | M5X12 | M6X25 | M8X60 | M12X16 | M14X50 | M18X45 | M24X50 |
| M2X8 | M3X30 | M5X14 | M6X30 | M8X70 | M12X18 | M14X55 | M18X50 | M24X55 |
| M2X10 | M4X3 | M5X16 | M6X35 | M10X8 | M12X20 | M14X60 | M18X60 | M24X60 |
| M2,5X3 | M4X4 | M5X18 | M6X40 | M10X10 | M12X25 | M14X70 | M18X70 | M24X70 |
| M2,5X4 | M4X5 | M5X20 | M6X45 | M10X12 | M12X30 | M16X16 | M20X20 | M24X80 |
| M2,5X5 | M4X6 | M5X22 | M6X50 | M10X14 | M12X35 | M16X18 | M20X25 | M24X90 |
| M2,5X6 | M4X8 | M5X25 | M6X60 | M10X16 | M12X40 | M16X20 | M20X30 | |
| M2,5X8 | M4X10 | M5X30 | M8X6 | M10X18 | M12X45 | M16X25 | M20X35 | |

## 1.38 Stift filetat cu crestatura si varf plat (Slotted set screw with flat point)

**STANDARD: DIN 551 / ISO 4766 / STAS 4770**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M2X2 | M3X3 | M3,5X6 | M4X25 | M6X5 | M6X60 | M8X45 | M10X40 | M12X40 |
| M2X3 | M3X30 | M3,5X8 | M4X30 | M6X6 | M6X70 | M8X50 | M10X45 | M12X45 |
| M2X4 | M3X4 | M3,5X10 | M4X35 | M6X8 | M6X80 | M8X60 | M10X50 | M12X50 |
| M2X5 | M3X40 | M3,5X12 | M4X40 | M6X10 | M6X90 | M8X70 | M10X60 | M12X60 |
| M2X6 | M3X5 | M4X3 | M4X50 | M6X12 | M6X100 | M8X80 | M10X70 | M12X70 |
| M2X8 | M3X6 | M4X4 | M4X60 | M6X14 | M8X6 | M8X90 | M10X80 | M12X80 |
| M2X10 | M3X8 | M4X5 | M5X4 | M6X16 | M8X8 | M8X100 | M10X90 | M12X90 |
| M2X12 | M3X10 | M4X6 | M5X5 | M6X18 | M8X10 | M10X8 | M10X100 | M12X100 |
| M2,5X2 | M3X12 | M4X8 | M5X6 | M6X20 | M8X12 | M10X10 | M12X8 | M16X16 |
| M2,5X3 | M3X14 | M4X10 | M5X8 | M6X22 | M8X16 | M10X12 | M12X10 | M16X20 |
| M2,5X4 | M3X16 | M4X12 | M5X40 | M6X25 | M8X20 | M10X16 | M12X12 | M16X25 |
| M2,5X5 | M3X18 | M4X14 | M5X50 | M6X30 | M8X22 | M10X20 | M12X16 | M16X30 |
| M2,5X6 | M3X20 | M4X16 | M5X60 | M6X35 | M8X25 | M10X22 | M12X20 | M16X35 |
| M2,5X8 | M3X25 | M4X18 | M5X70 | M6X40 | M8X30 | M10X25 | M12X25 | M16X40 |
| M2,5X10 | M3,5X4 | M4X20 | M5X80 | M6X45 | M8X35 | M10X30 | M12X30 | M16X50 |
| M2,5X12 | M3,5X5 | M4X22 | M6X4 | M6X50 | M8X40 | M10X35 | M12X35 | M16X60 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.39 Stift filetat locas imbus si cep (Hexagon socket set screw with dog point)

**STANDARD: DIN 915 / ISO 4028**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M2X4 | M3X12 | M5X6 | M6X14 | M8X20 | M10X22 | M12X35 | M16X30 | M20X50 |
| M2X5 | M3X14 | M5X8 | M6X16 | M8X22 | M10X25 | M12X40 | M16X35 | M20X55 |
| M2X6 | M3X16 | M5X10 | M6X18 | M8X25 | M10X30 | M12X45 | M16X40 | M20X60 |
| M2X8 | M3X20 | M5X12 | M6X20 | M8X30 | M10X35 | M12X50 | M16X45 | M20X70 |
| M2X10 | M4X5 | M5X14 | M6X25 | M8X35 | M10X40 | M12X55 | M16X50 | M20X80 |
| M2,5X4 | M4X6 | M5X16 | M6X30 | M8X40 | M10X45 | M12X60 | M16X60 | M20X90 |
| M2,5X5 | M4X8 | M5X20 | M6X35 | M8X45 | M10X50 | M12X70 | M16X70 | M24X30 |
| M2,5X6 | M4X10 | M5X25 | M6X40 | M8X50 | M10X60 | M12X80 | M16X80 | M24X35 |
| M2,5X8 | M4X12 | M5X30 | M6X45 | M8X60 | M10X70 | M14X25 | M16X90 | M24X40 |
| M2,5X10 | M4X14 | M5X35 | M6X50 | M8X70 | M10X80 | M14X30 | M16X100 | M24X50 |
| M3X3 | M4X16 | M5X40 | M8X8 | M10X10 | M12X12 | M14X35 | M20X20 | M24X60 |
| M3X4 | M4X20 | M6X5 | M8X10 | M10X12 | M12X16 | M14X40 | M20X25 | M24X70 |
| M3X5 | M4X25 | M6X6 | M8X12 | M10X14 | M12X18 | M14X45 | M20X30 | M24X80 |
| M3X6 | M4X30 | M6X8 | M8X14 | M10X16 | M12X20 | M14X50 | M20X35 | |
| M3X8 | M4X35 | M6X10 | M8X16 | M10X18 | M12X25 | M16X20 | M20X40 | |
| M3X10 | M4X40 | M6X12 | M8X18 | M10X20 | M12X30 | M16X25 | M20X45 | |

## 1.40 Stift filetat locas imbus si con interior (Hexagon socket set screw with cup point)

**STANDARD: DIN 916 / ISO 4029**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1,6X2 | M2,5X8 | M3X20 | M4X40 | M6X6 | M8X14 | M10X20 | M12X60 | M20X20 |
| M1,6X2,5 | M2,5X10 | M3X22 | M5X4 | M6X8 | M8X16 | M10X22 | M12X80 | M20X25 |
| M1,6X3 | M2,6X10 | M3X25 | M5X5 | M6X10 | M8X18 | M10X25 | M14X14 | M20X30 |
| M1,6X4 | M2,6X3 | M3x30 | M5X6 | M6X12 | M8X20 | M10X30 | M14X16 | M20X35 |
| M1,6X5 | M2,6X4 | M4X3 | M5X8 | M6X14 | M8X22 | M10X35 | M14X20 | M20X40 |
| M1,6X6 | M2,6X5 | M4X4 | M5X10 | M6X16 | M8X25 | M10X40 | M14X25 | M20X50 |
| M1,6X8 | M2,6X6 | M4X5 | M5X12 | M6X18 | M8X30 | M10X50 | M14X30 | M20X60 |
| M2x2,5 | M2,6X8 | M4X6 | M5X14 | M6X20 | M8X35 | M10X60 | M14X40 | M24X40 |
| M2X3 | M3X3 | M4X8 | M5X16 | M6X22 | M8X40 | M12X12 | M14X50 | M24X45 |
| M2X4 | M3X4 | M4X10 | M5X18 | M6X25 | M8X50 | M12X14 | M16X16 | M24X50 |
| M2X5 | M3X5 | M4X12 | M5X20 | M6X30 | M8X60 | M12X16 | M16X20 | M24X60 |
| M2X6 | M3X6 | M4X14 | M5X22 | M6X35 | M8x70 | M12X20 | M16X25 | |
| M2X8 | M3X8 | M4X16 | M5X25 | M6X40 | M10X8 | M12X25 | M16X30 | |
| M2X10 | M3X10 | M4X18 | M5X30 | M6x50 | M10X10 | M12X30 | M16X35 | |
| M2,5X3 | M3X12 | M4X20 | M5X35 | M8X6 | M10X12 | M12X35 | M16X40 | |
| M2,5X4 | M3X14 | M4X25 | M5X40 | M8X8 | M10X14 | M12X40 | M16X50 | |
| M2,5X5 | M3X16 | M4X30 | M6X4 | M8X10 | M10X16 | M12X45 | M16X60 | |
| M2,5X6 | M3X2,5 | M4X35 | M6X5 | M8X12 | M10X18 | M12X50 | M16X70 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.41 Stift filetat locas imbus, con interior, si filet UNC, UNF, BSW, BSF (Hexagon socket set screw with cup point and UNC, UNF, BSW, BSF)

**STANDARD: DIN ~916 / ISO ~4029**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1,6X2 | M2,5X8 | M3X20 | M4X40 | M6X6 | M8X14 | M10X20 | M12X60 | M20X20 |
| M1,6X2,5 | M2,5X10 | M3X22 | M5X4 | M6X8 | M8X16 | M10X22 | M12X80 | M20X25 |
| M1,6X3 | M2,6X10 | M3X25 | M5X5 | M6X10 | M8X18 | M10X25 | M14X14 | M20X30 |
| M1,6X4 | M2,6X3 | M3x30 | M5X6 | M6X12 | M8X20 | M10X30 | M14X16 | M20X35 |
| M1,6X5 | M2,6X4 | M4X3 | M5X8 | M6X14 | M8X22 | M10X35 | M14X20 | M20X40 |
| M1,6X6 | M2,6X5 | M4X4 | M5X10 | M6X16 | M8X25 | M10X40 | M14X25 | M20X50 |
| M1,6X8 | M2,6X6 | M4X5 | M5X12 | M6X18 | M8X30 | M10X50 | M14X30 | M20X60 |
| M2x2,5 | M2,6X8 | M4X6 | M5X14 | M6X20 | M8X35 | M10X60 | M14X40 | M24X40 |
| M2X3 | M3X3 | M4X8 | M5X16 | M6X22 | M8X40 | M12X12 | M14X50 | M24X45 |
| M2X4 | M3X4 | M4X10 | M5X18 | M6X25 | M8X50 | M12X14 | M16X16 | M24X50 |
| M2X5 | M3X5 | M4X12 | M5X20 | M6X30 | M8X60 | M12X16 | M16X20 | M24X60 |
| M2X6 | M3X6 | M4X14 | M5X22 | M6X35 | M8x70 | M12X20 | M16X25 | |
| M2X8 | M3X8 | M4X16 | M5X25 | M6X40 | M10X8 | M12X25 | M16X30 | |
| M2X10 | M3X10 | M4X18 | M5X30 | M6x50 | M10X10 | M12X30 | M16X35 | |
| M2,5X3 | M3X12 | M4X20 | M5X35 | M8X6 | M10X12 | M12X35 | M16X40 | |
| M2,5X4 | M3X14 | M4X25 | M5X40 | M8X8 | M10X14 | M12X40 | M16X50 | |
| M2,5X5 | M3X16 | M4X30 | M6X4 | M8X10 | M10X16 | M12X45 | M16X60 | |
| M2,5X6 | M3X2,5 | M4X35 | M6X5 | M8X12 | M10X18 | M12X50 | M16X70 | |

## 1.42 Stift filetat locas torx si con interior (Torx socket set screw with cup point )

**STANDARD: DIN ~916 / ISO ~4029**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1,6X2 | M2,5X8 | M3X20 | M4X40 | M6X6 | M8X14 | M10X20 | M12X60 | M20X20 |
| M1,6X2,5 | M2,5X10 | M3X22 | M5X4 | M6X8 | M8X16 | M10X22 | M12X80 | M20X25 |
| M1,6X3 | M2,6X10 | M3X25 | M5X5 | M6X10 | M8X18 | M10X25 | M14X14 | M20X30 |
| M1,6X4 | M2,6X3 | M3x30 | M5X6 | M6X12 | M8X20 | M10X30 | M14X16 | M20X35 |
| M1,6X5 | M2,6X4 | M4X3 | M5X8 | M6X14 | M8X22 | M10X35 | M14X20 | M20X40 |
| M1,6X6 | M2,6X5 | M4X4 | M5X10 | M6X16 | M8X25 | M10X40 | M14X25 | M20X50 |
| M1,6X8 | M2,6X6 | M4X5 | M5X12 | M6X18 | M8X30 | M10X50 | M14X30 | M20X60 |
| M2x2,5 | M2,6X8 | M4X6 | M5X14 | M6X20 | M8X35 | M10X60 | M14X40 | M24X40 |
| M2X3 | M3X3 | M4X8 | M5X16 | M6X22 | M8X40 | M12X12 | M14X50 | M24X45 |
| M2X4 | M3X4 | M4X10 | M5X18 | M6X25 | M8X50 | M12X14 | M16X16 | M24X50 |
| M2X5 | M3X5 | M4X12 | M5X20 | M6X30 | M8X60 | M12X16 | M16X20 | M24X60 |
| M2X6 | M3X6 | M4X14 | M5X22 | M6X35 | M8x70 | M12X20 | M16X25 | |
| M2X8 | M3X8 | M4X16 | M5X25 | M6X40 | M10X8 | M12X25 | M16X30 | |
| M2X10 | M3X10 | M4X18 | M5X30 | M6x50 | M10X10 | M12X30 | M16X35 | |
| M2,5X3 | M3X12 | M4X20 | M5X35 | M8X6 | M10X12 | M12X35 | M16X40 | |
| M2,5X4 | M3X14 | M4X25 | M5X40 | M8X8 | M10X14 | M12X40 | M16X50 | |
| M2,5X5 | M3X16 | M4X30 | M6X4 | M8X10 | M10X16 | M12X45 | M16X60 | |
| M2,5X6 | M3X2,5 | M4X35 | M6X5 | M8X12 | M10X18 | M12X50 | M16X70 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.43 Surub cu cap hexagonal, partial filetat si piulita (Hexagon head bolt with nut)



**STANDARD: DIN 601**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5x16 | M6x80 | M8x150 | M10x160 | M12x110 | M16x40 | M20x65 | M24x100 | M30x100 |
| M5x20 | M6x90 | M8x160 | M10x180 | M12x120 | M16x45 | M20x70 | M24x110 | M30x110 |
| M5x25 | M6x100 | M8x180 | M10x200 | M12x130 | M16x50 | M20x75 | M24x120 | M30x120 |
| M5x30 | M8x16 | M10x16 | M10x220 | M12x140 | M16x55 | M20x80 | M24x130 | M30x130 |
| M5x35 | M8x20 | M10x20 | M10x240 | M12x150 | M16x60 | M20x90 | M24x140 | M30x140 |
| M5x40 | M8x25 | M10x25 | M10x260 | M12x160 | M16x65 | M20x100 | M24x150 | M30x150 |
| M5x45 | M8x30 | M10x30 | M10x280 | M12x180 | M16x70 | M20x110 | M24x160 | M30x160 |
| M5x50 | M8x35 | M10x35 | M10x300 | M14x30 | M16x75 | M20x120 | M24x180 | M30x180 |
| M5x60 | M8x40 | M10x40 | M12x20 | M14x35 | M16x80 | M20x130 | M27x60 | M33x110 |
| M6x10 | M8x45 | M10x45 | M12x25 | M14x40 | M16x90 | M20x140 | M27x65 | M33x120 |
| M6x12 | M8x50 | M10x50 | M12x30 | M14x45 | M16x100 | M20x150 | M27x70 | M33x130 |
| M6x16 | M8x55 | M10x55 | M12x35 | M14x50 | M16x110 | M20x160 | M27x75 | M33x150 |
| M6x20 | M8x60 | M10x60 | M12x40 | M14x55 | M16x120 | M20x180 | M27x80 | M36x100 |
| M6x25 | M8x60 | M10x65 | M12x45 | M14x60 | M16x140 | M22x90 | M27x90 | M36x110 |
| M6x30 | M8x65 | M10x70 | M12x50 | M14x65 | M16x150 | M24x45 | M27x100 | M36x120 |
| M6x35 | M8x70 | M10x75 | M12x50 | M14x70 | M16x160 | M24x50 | M27x110 | M36x140 |
| M6x40 | M8x75 | M10x80 | M12x55 | M14x80 | M16x180 | M24x55 | M27x120 | M36x160 |
| M6x45 | M8x80 | M10x90 | M12x60 | M14x90 | M20x30 | M24x60 | M27x130 | M36x180 |
| M6x50 | M8x90 | M10x100 | M12x65 | M14x100 | M20x35 | M24x65 | M27x140 | |
| M6x55 | M8x100 | M10x110 | M12x70 | M14x110 | M20x40 | M24x70 | M27x150 | |
| M6x60 | M8x110 | M10x120 | M12x75 | M14x120 | M20x45 | M24x75 | M30x60 | |
| M6x65 | M8x120 | M10x130 | M12x80 | M14x130 | M20x50 | M24x75 | M30x70 | |
| M6x70 | M8x130 | M10x140 | M12x90 | M16x30 | M20x55 | M24x80 | M30x80 | |
| M6x75 | M8x140 | M10x150 | M12x100 | M16x35 | M20x60 | M24x90 | M30x90 | |

## 1.44 Surub cu gat patrat si cap bombat/torbant (Mushroom head square neck bolt)



**STANDARD: DIN 603 / ISO 8677 / STAS 925**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5x16 | M5x80 | M6x60 | M8x40 | M8x130 | M10X80 | M12x35 | M12x140 | M16X130 |
| M5x20 | M5x90 | M6x65 | M8x45 | M8x140 | M10X90 | M12x40 | M12x150 | M16X140 |
| M5x25 | M5x100 | M6x70 | M8x50 | M8x150 | M10X100 | M12x45 | M12x160 | M16X150 |
| M5x30 | M6x16 | M6x80 | M8x55 | M10X20 | M10X110 | M12x50 | M12x180 | M16X160 |
| M5x35 | M6x20 | M6x90 | M8x60 | M10X25 | M10X120 | M12x60 | M12x200 | M16X170 |
| M5x40 | M6x25 | M6x100 | M8x65 | M10X30 | M10X130 | M12x70 | M16x50 | M16X180 |
| M5x45 | M6x30 | M6x110 | M8x70 | M10X35 | M10X140 | M12x80 | M16x50 | M16X200 |
| M5x50 | M6x35 | M6x120 | M8x80 | M10X40 | M10X150 | M12x90 | M16X80 | M16X220 |
| M5x55 | M6x40 | M8x20 | M8x90 | M10X45 | M10X160 | M12x100 | M16X90 | M16X240 |
| M5x60 | M6x45 | M8x25 | M8x100 | M10X50 | M10X180 | M12x110 | M16X100 | M16X260 |
| M5x65 | M6x50 | M8x30 | M8x110 | M10X60 | M10X200 | M12x120 | M16X110 | M16X280 |
| M5x70 | M6x55 | M8x35 | M8x120 | M10X70 | M12x30 | M12x130 | M16X120 | M16X300 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.45 Surub cu cap inecat si nas (Countersunk flat nib bolt)

**STANDARD: DIN 604 / STAS 1474**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M6x20 | M6x60 | M8x60 | M10x50 | M12x25 | M12x65 | M16x45 | M20x40 | M20x90 |
| M6x25 | M8x25 | M8x65 | M10x55 | M12x30 | M12x70 | M16x50 | M20x45 | M20x100 |
| M6x30 | M8x30 | M8x70 | M10x60 | M12x35 | M12x80 | M16x55 | M20x50 | |
| M6x35 | M8x35 | M10x25 | M10x70 | M12x40 | M12x90 | M16x60 | M20x55 | |
| M6x40 | M8x40 | M10x30 | M10x80 | M12x45 | M12x100 | M16x70 | M20x60 | |
| M6x45 | M8x45 | M10x35 | M10x90 | M12x50 | M16x30 | M16x80 | M20x65 | |
| M6x50 | M8x50 | M10x40 | M10x95 | M12x55 | M16x35 | M16x90 | M20x70 | |
| M6x55 | M8x55 | M10x45 | M10x100 | M12x60 | M16x40 | M16x100 | M20x80 | |

## 1.46 Surub cu gat patrat si cap inecat (Flat countersunk square neck bolt)

**STANDARD: DIN 605 / STAS 2349**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M6x30 | M8x40 | M1x30 | M10x80 | M12x45 | M14x35 | M14x60 | M16x60 | M20x70 |
| M6x40 | M8x50 | M10x40 | M12x30 | M12x50 | M14x40 | M16x40 | M16x70 | M20x80 |
| M6x50 | M8x60 | M10x50 | M12x35 | M12x60 | M14x45 | M16x45 | M16x80 | M20x90 |
| M6x60 | M8x70 | M10x60 | M12x40 | M14x30 | M14x50 | M16x50 | M20x60 | M20x100 |
| M8x30 | M8x80 | M10x70 | | | | | | |

## 1.47 Surub cu cap bombat si nas (Round head nib bolt)

**STANDARD: DIN 607 / STAS 1470**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M8x20 | M8x55 | M10x35 | M10x70 | M12x45 | M12x90 | M16x45 | M16x90 | M16x160 |
| M8x25 | M8x60 | M10x40 | M10x80 | M12x50 | M12x100 | M16x50 | M16x100 | |
| M8x30 | M8x65 | M10x45 | M10x90 | M12x55 | M12x110 | M16x55 | M16x110 | |
| M8x35 | M8x70 | M10x50 | M10x100 | M12x60 | M12x120 | M16x60 | M16x120 | |
| M8x40 | M8x80 | M10x55 | M12x30 | M12x65 | M16x30 | M16x65 | M16x130 | |
| M8x45 | M10x25 | M10x60 | M12x35 | M12x70 | M16x35 | M16x70 | M16x140 | |
| M8x50 | M10x30 | M10x65 | M12x40 | M12x80 | M16x40 | M16x80 | M16x150 | |

## 1.48 Suruburi de pasuire (Hexagon fit bolts)

**STANDARD: DIN 609; DIN 610 / STAS 5930**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M8X25 | M10X50 | M12X45 | M14X45 | M16X65 | M20X65 | M20X160 | M24X120 | M30X95 |
| M8X30 | M10X55 | M12X50 | M14X50 | M16X70 | M20X70 | M20X180 | M24X130 | M30X100 |
| M8X35 | M10X60 | M12X55 | M14X55 | M16X75 | M20X75 | M20X200 | M24X140 | M30X110 |
| M8X40 | M10X65 | M12X60 | M14X60 | M16X80 | M20X80 | M24X60 | M24X150 | M30X120 |
| M8X45 | M10X70 | M12X65 | M14X65 | M16X85 | M20X85 | M24X65 | M24X160 | M30X130 |
| M8X50 | M10X75 | M12X70 | M14X70 | M16X90 | M20X90 | M24X70 | M24X180 | M30X140 |
| M8X60 | M10X80 | M12X75 | M14X80 | M16X100 | M20X100 | M24X75 | M24X200 | M30X150 |
| M8X70 | M10X90 | M12X80 | M16X40 | M16X120 | M20X110 | M24X80 | M30X70 | M30X160 |
| M10X30 | M10X100 | M12X90 | M16X45 | M20X45 | M20X120 | M24X85 | M30X75 | M30X170 |
| M10X35 | M12X30 | M12X100 | M16X50 | M20X50 | M20X130 | M24X90 | M30X80 | M30X180 |
| M10X40 | M12X35 | M14X35 | M16X55 | M20X55 | M20X140 | M24X100 | M30X85 | M30X190 |
| M10X45 | M12X40 | M14X40 | M16X60 | M20X60 | M20X150 | M24X110 | M30X90 | M30X200 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.49 Surub cap T cu gat (T-head bolt with neck)

**STANDARD: DIN 186; DIN 188 / STAS 2568; STAS 2569**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M6X25 | M10X75 | M12X150 | M16X260 | M24X50 | M36X75 | M42X150 | M48X260 | M64X30 |
| M8X25 | M10X80 | M12X160 | M16X280 | M30X40 | M36X80 | M42X160 | M48X280 | M64X40 |
| M8X30 | M10X90 | M12X170 | M16X300 | M30X45 | M36X90 | M42X170 | M48X300 | M64X45 |
| M8X35 | M10X100 | M12X180 | M16X320 | M30X50 | M36X100 | M42X180 | M48X320 | M64X50 |
| M8X40 | M10X110 | M12X190 | M16X340 | M30X55 | M36X110 | M42X190 | M48X340 | M64X55 |
| M8X45 | M10X120 | M12X200 | M16X360 | M30X60 | M36X120 | M42X200 | M48X360 | M64X60 |
| M8X50 | M10X130 | M12X220 | M16X380 | M30X65 | M36X130 | M42X220 | M48X380 | M64X65 |
| M8X55 | M10X140 | M12X240 | M16X400 | M30X70 | M36X140 | M42X240 | M48X400 | M64X70 |
| M8X60 | M10X150 | M12X260 | M20X30 | M30X75 | M36X150 | M42X260 | M56X30 | M64X75 |
| M8X65 | M10X160 | M12X280 | M20X40 | M30X80 | M36X160 | M42X280 | M56X40 | M64X80 |
| M8X70 | M10X170 | M12X300 | M20X45 | M30X90 | M36X170 | M42X300 | M56X45 | M64X90 |
| M8X75 | M10X180 | M12X320 | M20X50 | M30X100 | M36X180 | M42X320 | M56X50 | M64X100 |
| M8X80 | M10X190 | M12X340 | M20X55 | M30X110 | M36X190 | M42X340 | M56X55 | M64X110 |
| M8X90 | M10X200 | M12X360 | M20X60 | M30X120 | M36X200 | M42X360 | M56X60 | M64X120 |
| M8X100 | M10X220 | M12X380 | M20X65 | M30X130 | M36X220 | M42X380 | M56X65 | M64X130 |
| M8X110 | M10X240 | M12X400 | M20X70 | M30X140 | M36X240 | M42X400 | M56X70 | M64X140 |
| M8X120 | M10X260 | M16X30 | M20X75 | M30X150 | M36X260 | M48X30 | M56X75 | M64X150 |
| M8X130 | M10X280 | M16X40 | M20X80 | M30X160 | M36X280 | M48X40 | M56X80 | M64X160 |
| M8X140 | M10X300 | M16X45 | M20X90 | M30X170 | M36X300 | M48X45 | M56X90 | M64X170 |
| M8X150 | M10X320 | M16X50 | M20X100 | M30X180 | M36X320 | M48X50 | M56X100 | M64X180 |
| M8X160 | M10X340 | M16X55 | M20X110 | M30X190 | M36X340 | M48X55 | M56X110 | M64X190 |
| M8X170 | M10X360 | M16X60 | M20X120 | M30X200 | M36X360 | M48X60 | M56X120 | M64X200 |
| M8X180 | M10X380 | M16X65 | M20X130 | M30X220 | M36X380 | M48X65 | M56X130 | M64X220 |
| M8X190 | M10X400 | M16X70 | M20X140 | M30X240 | M36X400 | M48X70 | M56X140 | M64X240 |
| M8X200 | M12X25 | M16X75 | M20X150 | M30X260 | M42X30 | M48X75 | M56X150 | M64X260 |
| M8X220 | M12X40 | M16X80 | M20X160 | M30X280 | M42X40 | M48X80 | M56X160 | M64X280 |
| M8X240 | M12X45 | M16X90 | M20X170 | M30X300 | M42X45 | M48X90 | M56X170 | M64X300 |
| M8X260 | M12X50 | M16X100 | M20X180 | M30X320 | M42X50 | M48X100 | M56X180 | M64X320 |
| M8X280 | M12X55 | M16X110 | M20X190 | M30X340 | M42X55 | M48X110 | M56X190 | M64X340 |
| M8X300 | M12X60 | M16X120 | M20X200 | M30X360 | M42X60 | M48X120 | M56X200 | M64X360 |
| M8X320 | M12X65 | M16X130 | M20X220 | M30X380 | M42X65 | M48X130 | M56X220 | M64X380 |
| M8X340 | M12X70 | M16X140 | M20X240 | M30X400 | M42X70 | M48X140 | M56X240 | M64X400 |
| M10X25 | M12X75 | M16X150 | M20X260 | M36X30 | M42X75 | M48X150 | M56X260 | |
| M10X40 | M12X80 | M16X160 | M20X280 | M36X40 | M42X80 | M48X160 | M56X280 | |
| M10X45 | M12X90 | M16X170 | M20X300 | M36X45 | M42X90 | M48X170 | M56X300 | |
| M10X50 | M12X100 | M16X180 | M20X320 | M36X50 | M42X100 | M48X180 | M56X320 | |
| M10X55 | M12X110 | M16X190 | M20X340 | M36X55 | M42X110 | M48X190 | M56X340 | |
| M10X60 | M12X120 | M16X200 | M20X360 | M36X60 | M42X120 | M48X200 | M56X360 | |
| M10X65 | M12X130 | M16X220 | M20X380 | M36X65 | M42X130 | M48X220 | M56X380 | |
| M10X70 | M12X140 | M16X240 | M20X400 | M36X70 | M42X140 | M48X240 | M56X400 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.50 Surub cap T (T-head bolt)



**STANDARD: DIN 261**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M8X30 | M8X190 | M10X170 | M12X150 | M16X130 | M20X110 | M24X90 | M30X75 | M36X65 |
| M8X35 | M8X200 | M10X180 | M12X160 | M16X140 | M20X120 | M24X100 | M30X80 | M36X70 |
| M8X40 | M10X30 | M10X190 | M12X170 | M16X150 | M20X130 | M24X110 | M30X90 | M36X75 |
| M8X45 | M10X35 | M10X200 | M12X180 | M16X160 | M20X140 | M24X120 | M30X100 | M36X80 |
| M8X50 | M10X40 | M12X30 | M12X190 | M16X170 | M20X150 | M24X130 | M30X110 | M36X90 |
| M8X55 | M10X45 | M12X35 | M12X200 | M16X180 | M20X160 | M24X140 | M30X120 | M36X100 |
| M8X60 | M10X50 | M12X40 | M16X30 | M16X190 | M20X170 | M24X150 | M30X130 | M36X110 |
| M8X65 | M10X55 | M12X45 | M16X35 | M16X200 | M20X180 | M24X160 | M30X140 | M36X120 |
| M8X70 | M10X60 | M12X50 | M16X40 | M20X30 | M20X190 | M24X170 | M30X150 | M36X130 |
| M8X75 | M10X65 | M12X55 | M16X45 | M20X35 | M20X200 | M24X180 | M30X160 | M36X140 |
| M8X80 | M10X70 | M12X60 | M16X50 | M20X40 | M24X30 | M24X190 | M30X170 | M36X150 |
| M8X90 | M10X75 | M12X65 | M16X55 | M20X45 | M24X35 | M24X200 | M30X180 | M36X160 |
| M8X100 | M10X80 | M12X70 | M16X60 | M20X50 | M24X40 | M30X30 | M30X190 | M36X170 |
| M8X110 | M10X90 | M12X75 | M16X65 | M20X55 | M24X45 | M30X35 | M30X200 | M36X180 |
| M8X120 | M10X100 | M12X80 | M16X70 | M20X60 | M24X50 | M30X40 | M36X30 | M36X190 |
| M8X130 | M10X110 | M12X90 | M16X75 | M20X65 | M24X55 | M30X45 | M36X35 | M36X200 |
| M8X140 | M10X120 | M12X100 | M16X80 | M20X70 | M24X60 | M30X50 | M36X40 | |
| M8X150 | M10X130 | M12X110 | M16X90 | M20X75 | M24X65 | M30X55 | M36X45 | |
| M8X160 | M10X140 | M12X120 | M16X100 | M20X80 | M24X70 | M30X60 | M36X50 | |
| M8X170 | M10X150 | M12X130 | M16X110 | M20X90 | M24X75 | M30X65 | M36X55 | |
| M8X180 | M10X160 | M12X140 | M16X120 | M20X100 | M24X80 | M30X70 | M36X60 | |

## 1.51 Surub cu ochi (Eye bolt)



**STANDARD: DIN 444**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5X20 | M6X60 | M8X60 | M10X60 | M12X70 | M16X90 | M20X90 | M24x80 | M24x170 |
| M5X30 | M6X80 | M8X70 | M10X70 | M12X80 | M16X100 | M20X120 | M24x90 | M24x180 |
| M5X40 | M8X25 | M8X80 | M10X80 | M12X90 | M16X120 | M20x130 | M24x100 | M24x200 |
| M6X25 | M8X30 | M8X90 | M10X90 | M12X100 | M16X130 | M20x 40 | M24x110 | |
| M6X30 | M8X35 | M8X100 | M10X100 | M12X120 | M16X140 | M20x150 | M24x120 | |
| M6X35 | M8X40 | M8X120 | M10X110 | M12X140 | M16X150 | M20x160 | M24x130 | |
| M6X40 | M8X45 | M10X40 | M10X120 | M16X60 | M16X160 | M20x170 | M24x140 | |
| M6X45 | M8X50 | M10X45 | M12X50 | M16X70 | M16X180 | M20x180 | M24x150 | |
| M6X50 | M8X55 | M10X50 | M12X60 | M16X80 | M16X200 | M20x200 | M24x160 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.52 Surub future (Wing screw)

**STANDARD: DIN 316**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M4x10 | M5x16 | M6x12 | M6x50 | M8x40 | M10x35 | M12x40 | M20x20 | M24x40 |
| M4x12 | M5x20 | M6x16 | M8x10 | M8x45 | M10x40 | M12x50 | M20x30 | M24x50 |
| M4x16 | M5x25 | M6x20 | M8x12 | M8x50 | M10x45 | M12x60 | M20x40 | M24x60 |
| M4x20 | M5x30 | M6x25 | M8x16 | M8x60 | M10x50 | M16x20 | M20x50 | M24x70 |
| M4x25 | M5x35 | M6x30 | M8x20 | M10x16 | M10x55 | M16x30 | M20x60 | |
| M4x30 | M5x40 | M6x35 | M8x25 | M10x20 | M10x60 | M16x40 | M20x70 | |
| M5x10 | M5x50 | M6x40 | M8x30 | M10x25 | M12x20 | M16x50 | M24x20 | |
| M5x12 | M6x10 | M6x45 | M8x35 | M10x30 | M12x30 | M16x60 | M24x30 | |

## 1.53 Surub cu cap striat si guler (Knurled thumb screw)

**STANDARD: DIN 464; DIN 465; DIN 653 / STAS 5302; STAS 5303**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3x6 | M4x6 | M4x20 | M5x12 | M6x8 | M6x25 | M8x16 | M8x40 | M10x35 |
| M3x8 | M4x8 | M4x25 | M5x16 | M6x10 | M6x30 | M8x20 | M10x16 | M10x40 |
| M3x10 | M4x10 | M4x30 | M5x20 | M6x12 | M6x35 | M8x25 | M10x20 | |
| M3x12 | M4x12 | M5x8 | M5x25 | M6x16 | M8x10 | M8x30 | M10x25 | |
| M3x16 | M4x16 | M5x10 | M5x30 | M6x20 | M8x12 | M8x35 | M10x30 | |

## 1.54 Prezon-bolt filetat (Stud bolts for flanged connections)

**STANDARD: DIN 2509; DIN 2510**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M12 | M24 | M33 | M42 | M52 | M72X6 | M110X6 | M140X6 | M170X6 |
| M16 | M27 | M36 | M45 | M56 | M80X6 | M120X6 | M150X6 | M180X6 |
| M20 | M30 | M39 | M48 | M64 | M100X6 | M125X6 | M160X6 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.55 Prezon (Stud)

**STANDARD: DIN 938; DIN 939; DIN 835 / STAS 4551**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5X16 | M6X45 | M8X50 | M10X22 | M10X100 | M12X70 | M14X50 | M16X65 | M20X45 |
| M5X20 | M6X50 | M8X55 | M10X25 | M10X110 | M12X75 | M14X60 | M16X70 | M20X50 |
| M5X25 | M6X55 | M8X60 | M10X30 | M10X120 | M12X80 | M14X70 | M16X75 | M20X55 |
| M5X30 | M6X60 | M8X65 | M10X35 | M12X20 | M12X90 | M14X80 | M16X80 | M20X60 |
| M5X35 | M6X70 | M8X70 | M10X40 | M12X25 | M12X100 | M14X90 | M16X85 | M20X65 |
| M5X40 | M8X16 | M8X75 | M10X45 | M12X30 | M12X120 | M14X100 | M16X90 | M20X70 |
| M6X16 | M8X18 | M8X80 | M10X50 | M12X35 | M12X140 | M16X30 | M16X100 | M20X80 |
| M6X18 | M8X20 | M8X90 | M10X55 | M12X40 | M12X150 | M16X35 | M16X110 | M20X90 |
| M6X20 | M8X25 | M8X100 | M10X60 | M12X45 | M14X30 | M16X40 | M16X120 | M20X100 |
| M6X25 | M8X30 | M8X110 | M10X65 | M12X50 | M14X35 | M16X45 | M16X130 | M20X110 |
| M6X30 | M8X35 | M8X120 | M10X70 | M12X55 | M14X40 | M16X50 | M16X140 | M20X120 |
| M6X35 | M8X40 | M10X16 | M10X80 | M12X60 | M14X45 | M16X55 | M16X150 | |
| M6X40 | M8X45 | M10X20 | M10X90 | M12X65 | M14X50 | M16X60 | M20X40 | |

## 1.56 Tije filetate (Threaded rods)

**STANDARD: DIN 975; DIN 976 / ANSI B 16.5 / A193-B7**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| M2X1000 | M8X2000 | M12X3000 | M18X1000 | M22X1000 | M27X2000 | M33X3000 | M42X2000 |
| M3X1000 | M10X1000 | M14X1,5X1000 | M18X2000 | M22X2000 | M27X3000 | M36X1000 | M42X3000 |
| M4X1000 | M10X1X1000 | M14X1000 | M18X3000 | M22X3000 | M30X1,5X1000 | M36X2000 | M45X1000 |
| M5X1000 | M10X2000 | M14X2000 | M20X1,5X1000 | M24X1,5X1000 | M30X1000 | M36X3000 | M45X2000 |
| M6X1000 | M10X3000 | M14X3000 | M20X1000 | M24X1000 | M30X2000 | M39X1000 | M45X3000 |
| M6X2000 | M12X1,5X1000 | M16X1000 | M20X2000 | M24X2000 | M30X3000 | M39X2000 | M48X1000 |
| M8X1000 | M12X1X1000 | M16X2000 | M20X3000 | M24X3000 | M33X1000 | M39X3000 | M48X2000 |
| M8X1X1000 | M12X2000 | M16X3000 | M22X1,5X1000 | M27X1000 | M33X2000 | M42X1000 | M48X3000 |

## 1.57 Intinzator cu 2 ochiuri la capete (Turnbuckles with 2 eyes)

**STANDARD: DIN 1480**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5x50 | M5X70 | 8 x 70 | M10x80 | M10X150 | M12X200 | M20X200 | M30X255 | M24X255 |
| 5x50 | M6X100 | M8X110 | M10x120 | M12X125 | M14X140 | M22X220 | M32X295 | M36X180 |
| 6x60 | M6X110 | M8X125 | M10X125 | M12x130 | M16X170 | M24X255 | M24X180 | M36X295 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.58 Intinzator cu 2 carlige la capete (Turnbuckles with two hooks bolts )

**STANDARD: DIN 1478**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5x50 | M5X70 | 8 x 70 | M10x80 | M10X150 | M12X200 | M20X200 | M30X255 | M24X255 |
| 5x55 | M6X100 | M8X110 | M10x120 | M12X125 | M14X140 | M22X220 | M32X295 | M36X180 |
| 6x60 | M6X110 | M8X125 | M10X125 | M12x130 | M16X170 | M24X255 | M24X180 | M36X295 |

## 1.59 Intinzator carlig-ochi la capete (Turnbuckles with hook and eye )

**STANDARD: DIN 1478**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5X70 | M6X110 | M10X85 | M12X90 | M16X120 | M20X140 | M24X180 | M30X160 | M36X180 |
| M6X80 | M8X85 | M10X125 | M12X125 | M16X170 | M20X200 | M24X255 | M30X255 | M36X295 |
| M6X90 | M8X110 | | | | | | | |

## 1.60 Intinzator prezon-prezon la capete (Turnbuckles with studs and studs)

**STANDARD: DIN 1480**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5X70 | M6X110 | M10X85 | M12X90 | M16X120 | M20X140 | M24X180 | M30X160 | M36X180 |
| M6X80 | M8X85 | M10X125 | M12X125 | M16X170 | M20X200 | M24X255 | M30X255 | M36X295 |
| M6X90 | M8X110 | | | | | | | |

## 1.61 Surub forma ``U`` (U– bolt)

**STANDARD: DIN 3570**



| DIMENSIUNI DISPONIBILE | | | | |
|---|---|---|---|---|
| M6 | M8 | M10 | M12 | M16 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.62 Surub cu ochi (Bent eye bolts)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M6x30 | M8x60 | M10x40 | M10x140 | M12x110 | M16x100 | M20x80 | M20x170 | M24x140 |
| M6x40 | M8x70 | M10x50 | M12x30 | M12x120 | M16x110 | M20x90 | M20x180 | M24x150 |
| M6x50 | M8x80 | M10x60 | M12x40 | M12x140 | M16x120 | M20x100 | M20x200 | M24x160 |
| M6x60 | M8x90 | M10x70 | M12x50 | M12x150 | M16x130 | M20x110 | M24x80 | M24x170 |
| M6x70 | M8x100 | M10x80 | M12x60 | M12x160 | M16x140 | M20x120 | M24x90 | M24x180 |
| M6x80 | M8x110 | M10x90 | M12x70 | M16x60 | M16x150 | M20x130 | M24x100 | M24x200 |
| M8x30 | M8x120 | M10x100 | M12x80 | M16x70 | M16x160 | M20x140 | M24x110 | |
| M8x40 | M8x140 | M10x110 | M12x90 | M16x80 | M16x180 | M20x150 | M24x120 | |
| M8x50 | M10x30 | M10x120 | M12x100 | M16x90 | M16x200 | M20x160 | M24x130 | |

## 1.63 Surub ``Tommy`` (Tommy screw)

**STANDARD: DIN 6304**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M6X40 | M8X50 | M10X60 | M12X70 | M16X70 | M16X90 | M20X75 | M20X90 | M20X110 |
| M6X50 | M8X60 | M10X70 | M12X80 | M16X75 | M16X110 | | | |

## 1.64 Suruburi de fundatie (Foundation bolts)

**STANDARD: DIN 529; DIN 7992 / STAS 2350**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M8X80 | M10X250 | M16X320 | M20X800 | M30X1000 | M36X1250 | M42X1600 | M48X2500 | M64X1250 |
| M8X100 | M12X125 | M16X400 | M24X1000 | M30X1250 | M36X1600 | M42X2000 | M48X3200 | M64X1600 |
| M8X125 | M12X160 | M16X500 | M24X1250 | M30X1600 | M36X2000 | M42X2500 | M56X800 | M64X2000 |
| M8X160 | M12X200 | M20X200 | M24X250 | M30X2000 | M36X2500 | M48X630 | M56X1000 | M64X2500 |
| M8X200 | M12X250 | M20X250 | M24X320 | M36X400 | M42X500 | M48X800 | M56X1250 | M64X3200 |
| M10X100 | M12X320 | M20X320 | M24X400 | M36X500 | M42X630 | M48X1000 | M56X1600 | M72X1600 |
| M10X125 | M16X160 | M20X400 | M24X500 | M36X630 | M42X800 | M48X1250 | M56X2000 | M72X2000 |
| M10X160 | M16X200 | M20X500 | M24X630 | M36X800 | M42X1000 | M48X1600 | M56X2500 | M72X2500 |
| M10X200 | M16X250 | M20X630 | M24X800 | M36X1000 | M42X1250 | M48X2000 | M56X3200 | M72X3200 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.65 Ancora conexpand standard (Standard conexpands anchor)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5x40 | M6x120 | M8x90 | M10x70 | M10x180 | M12x120 | M12x250 | M16x150 | M20x200 |
| M6x40 | M6x160 | M8x100 | M10x80 | M10x200 | M12x140 | M12x300 | M16x200 | M20x250 |
| M6x50 | M8x50 | M8x120 | M10x90 | M12x80 | M12x160 | M16x80 | M16x250 | M20x300 |
| M6x60 | M8x60 | M8x160 | M10x100 | M12x90 | M12x180 | M16x90 | M16x300 | M24x250 |
| M6x80 | M8x70 | M8x180 | M10x120 | M12x100 | M12x200 | M16x100 | M18x200 | M24x300 |
| M6x100 | M8x80 | M10x60 | M10x140 | M12x110 | M12x220 | M16x120 | M18x250 | M24x350 |

## 1.66 Surub cu cap crestat (Slotted pan head screw)

**STANDARD: DIN 923**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X3 | M3X12 | M4X4 | M4X16 | M5X6 | M5X20 | M6X8 | M8X3 | M8X12 |
| M3X4 | M3X16 | M4X6 | M4X20 | M5X8 | M6X3 | M6X12 | M8X4 | M8X16 |
| M3X6 | M3X20 | M4X8 | M5X3 | M5X12 | M6X4 | M6X16 | M8X6 | M8X20 |
| M3X8 | M4X3 | M4X12 | M5X4 | M5X16 | M6X6 | M6X20 | M8X8 | |

## 1.67 Surub cu cap crestat pentru sigilii (Thumbscrew for seals)

**STANDARD: DIN 404**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3x5 | M3x8 | M4x5 | M4x8 | M5x8 | M5x10 | M5x16 | M5x20 | M6x20 |
| M3x6 | M3x10 | M4x6 | M4x10 | | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.68 Surub cu cap cilindric crestat (Slotted cheese head screw)

**STANDARD: DIN 84 / ISO 1207 / STAS 3954**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1,2X04 | M2X08 | M2,5X04 | M3X05 | M3,5X10 | M4X28 | M5X22 | M6X25 | M8X50 |
| M1,2X05 | M2X10 | M2,5X05 | M3X06 | M3,5X12 | M4X30 | M5X25 | M6X30 | M8X60 |
| M1,2X06 | M2X12 | M2,5X06 | M3X08 | M3,5X16 | M4X35 | M5X30 | M6X35 | M8X70 |
| M1,2X08 | M2X14 | M2,5X08 | M3X10 | M3,5X18 | M4X40 | M5X35 | M6X40 | M8X80 |
| M1,4X03 | M2X16 | M2,5X10 | M3X12 | M3,5X20 | M4X45 | M5X40 | M6X45 | M8X90 |
| M1,4X04 | M2X18 | M2,5X12 | M3X14 | M3,5X22 | M4X50 | M5X45 | M6X50 | M8X100 |
| M1,4X05 | M2X20 | M2,5X14 | M3X16 | M3,5X25 | M4X55 | M5X50 | M6X55 | M10X16 |
| M1,4X06 | M2X22 | M2,5X16 | M3X18 | M3,5X30 | M4X60 | M5X55 | M6X60 | M10X20 |
| M1,4X08 | M2X25 | M2,5X18 | M3X20 | M3,5X35 | M4X65 | M5X60 | M6X65 | M10X25 |
| M1,4X10 | M2X30 | M2,5X20 | M3X22 | M3,5X40 | M4X70 | M5X70 | M6X70 | M10X30 |
| M1,6X03 | M2,3X03 | M2,5X22 | M3X25 | M4X04 | M4X75 | M5X75 | M6X80 | M10X35 |
| M1,6X04 | M2,3X04 | M2,5X25 | M3X28 | M4X05 | M4X80 | M5X80 | M6X90 | M10X40 |
| M1,6X05 | M2,3X05 | M2,5X30 | M3X30 | M4X06 | M4X90 | M5X90 | M6X100 | M10X45 |
| M1,6X06 | M2,3X06 | M2,6X04 | M3X35 | M4X08 | M4X100 | M5X100 | M8X10 | M10X50 |
| M1,6X08 | M2,3X08 | M2,6X05 | M3X40 | M4X10 | M5X06 | M6X08 | M8X12 | M10X55 |
| M1,6X10 | M2,3X10 | M2,6X06 | M3X45 | M4X12 | M5X08 | M6X10 | M8X16 | M10X60 |
| M1,6X12 | M2,3X12 | M2,6X08 | M3X50 | M4X14 | M5X10 | M6X12 | M8X20 | M10X70 |
| M1,6X16 | M2,3X14 | M2,6X10 | M3X55 | M4X16 | M5X12 | M6X14 | M8X25 | M10X80 |
| M2X03 | M2,3X16 | M2,6X12 | M3X60 | M4X18 | M5X14 | M6X16 | M8X30 | M10X100 |
| M2X04 | M2,3X20 | M2,6X16 | M3,5X05 | M4X20 | M5X16 | M6X18 | M8X35 | M20X50 |
| M2X05 | M2,3X22 | M3X03 | M3,5X06 | M4X22 | M5X18 | M6X20 | M8X40 | M20X70 |
| M2X06 | M2,5X03 | M3X04 | M3,5X08 | M4X25 | M5X20 | M6X22 | M8X45 | M20X100 |

## 1.69 Surub cu cap bombat crestat (Slotted pan head screw)

**STANDARD: DIN 85**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M2,5X03 | M2,6X08 | M3X50 | M4X14 | M5X10 | M5X90 | M6X70 | M8X90 | M16X50 |
| M2,5X04 | M2,6X10 | M3X60 | M4X16 | M5X12 | M5X100 | M6X80 | M10X16 | M16X60 |
| M2,5X05 | M2,6X12 | M3,5X05 | M4X18 | M5X14 | M6X06 | M6X90 | M10X20 | M16X70 |
| M2,5X06 | M3X04 | M3,5X06 | M4X20 | M5X16 | M6X08 | M6X100 | M10X25 | M16X80 |
| M2,5X08 | M3X05 | M3,5X08 | M4X22 | M5X18 | M6X10 | M8X10 | M10X30 | M16X90 |
| M2,5X10 | M3X06 | M3,5X10 | M4X25 | M5X20 | M6X12 | M8X12 | M10X35 | M16X100 |
| M2,5X12 | M3X08 | M3,5X12 | M4X28 | M5X22 | M6X14 | M8X16 | M12X20 | M20X20 |
| M2,5X14 | M3X10 | M3,5X16 | M4X30 | M5X25 | M6X16 | M8X20 | M12X30 | M20X30 |
| M2,5X16 | M3X12 | M3,5X20 | M4X35 | M5X30 | M6X18 | M8X25 | M12X40 | M20X40 |
| M2,5X18 | M3X14 | M3,5X25 | M4X40 | M5X35 | M6X20 | M8X30 | M12X50 | M20X50 |
| M2,5X20 | M3X16 | M3,5X30 | M4X45 | M5X40 | M6X25 | M8X35 | M12X60 | M20X60 |
| M2,5X22 | M3X18 | M3,5X35 | M4X50 | M5X45 | M6X30 | M8X40 | M12X70 | M20X70 |
| M2,5X25 | M3X20 | M4X04 | M4X55 | M5X50 | M6X35 | M8X45 | M12X80 | M20X80 |
| M2,5X30 | M3X22 | M4X05 | M4X60 | M5X55 | M6X40 | M8X50 | M12X90 | M20X90 |
| M2,6X03 | M3X25 | M4X06 | M4X70 | M5X60 | M6X45 | M8X55 | M12X100 | M20X100 |
| M2,6X04 | M3X30 | M4X08 | M4X80 | M5X65 | M6X50 | M8X60 | M16X20 | |
| M2,6X05 | M3X35 | M4X10 | M5X06 | M5X70 | M6X55 | M8X70 | M16X30 | |
| M2,6X06 | M3X40 | M4X12 | M5X08 | M5X80 | M6X60 | M8X80 | M16X40 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.70 Surub cap inecat/plat, crestat (Slotted countersunk /flat head screw)

**STANDARD: DIN 963 / ISO 2009 / STAS 2571**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M2X03 | M3x20 | M4x30 | M5x50 | M6x60 | M8x60 | M12X25 | M16X60 | M20X100 |
| M2X04 | M3x25 | M4X40 | M5x60 | M6x70 | M8x70 | M12X30 | M16X70 | |
| M2X05 | M3x30 | M4X45 | M5x70 | M6x80 | M8X80 | M12X35 | M16X80 | |
| M2X06 | M3X35 | M4X50 | M6x10 | M6x90 | M10X20 | M12X40 | M16X90 | |
| M2X08 | M3X50 | M4X60 | M6X12 | M8X14 | M10X30 | M12X60 | M16X100 | |
| M2X10 | M4x06 | M5x10 | M6x16 | M8x16 | M10X35 | M12X70 | M20X20 | |
| M2X12 | M4x08 | M5x16 | M6x20 | M8x20 | M10X40 | M12X80 | M20X30 | |
| M3x06 | M4x10 | M5x20 | M6x25 | M8x25 | M10X50 | M12X90 | M20X40 | |
| M3x08 | M4x12 | M5x25 | M6x30 | M8x30 | M10X60 | M12X100 | M20X50 | |
| M3x10 | M4x14 | M5x30 | M6x35 | M8x35 | M10X70 | M16X20 | M20X60 | |
| M3x12 | M4x16 | M5x35 | M6x40 | M8x40 | M10X80 | M16X30 | M20X70 | |
| M3x14 | M4x20 | M5x40 | M6x45 | M8x45 | M10X90 | M16X40 | M20X80 | |
| M3x16 | M4x25 | M5x45 | M6x50 | M8x50 | M10X100 | M16X50 | M20X90 | |

## 1.71 Surub cap oval crestat (Slotted raised countersunk/oval head screw)

**STANDARD: DIN 964 / ISO 2010 / STAS 3167**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X05 | M3X35 | M4X18 | M4X80 | M5X40 | M6X18 | M6X70 | M8X50 | M10X40 |
| M3X06 | M3X40 | M4X20 | M5X8 | M5X45 | M6X20 | M6X80 | M8X55 | M10X45 |
| M3X08 | M3X45 | M4X25 | M5X10 | M5X50 | M6X25 | M8X16 | M8X60 | M10X50 |
| M3X10 | M3X50 | M4X30 | M5X12 | M5X55 | M6X30 | M8X18 | M8X70 | M10X60 |
| M3X12 | M4X05 | M4X35 | M5X16 | M5X60 | M6X35 | M8X20 | M8X80 | |
| M3X16 | M4X06 | M4X40 | M5X18 | M5X80 | M6X40 | M8X25 | M8X100 | |
| M3X18 | M4X08 | M4X45 | M5X20 | M6X8 | M6X45 | M8X30 | M10X20 | |
| M3X20 | M4X10 | M4X50 | M5X25 | M6X10 | M6X50 | M8X35 | M10X25 | |
| M3X25 | M4X12 | M4X60 | M5X30 | M6X12 | M6X55 | M8X40 | M10X30 | |
| M3X30 | M4X16 | M4X70 | M5X35 | M6X16 | M6X60 | M8X45 | M10X35 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.72 Surub cap inecat, amprenta cruce (Cross recessed countersunk/flat head screw)

**STANDARD: DIN 965 / ISO 7046 / STAS 10296**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M2X03 | M3X05 | M3X35 | M4X20 | M5X10 | M5X50 | M6X25 | M8X10 | M8X50 |
| M2X04 | M3X06 | M3X40 | M4X25 | M5X12 | M5X60 | M6X30 | M8X12 | M8X60 |
| M2X05 | M3X08 | M3X50 | M4X30 | M5X14 | M5X70 | M6X35 | M8X14 | M8X70 |
| M2X06 | M3X10 | M4X05 | M4X35 | M5X16 | M5X80 | M6X40 | M8X16 | M8X80 |
| M2X08 | M3X12 | M4X06 | M4X40 | M5X20 | M6X08 | M6X45 | M8X20 | M8X100 |
| M2X10 | M3X14 | M4X08 | M4X45 | M5X25 | M6X10 | M6X50 | M8X25 | |
| M2X12 | M3X16 | M4X10 | M4X50 | M5X30 | M6X12 | M6X60 | M8X30 | |
| M2X16 | M3X20 | M4X12 | M4X60 | M5X35 | M6X14 | M6X70 | M8X35 | |
| M2X20 | M3X25 | M4X14 | M5X06 | M5X40 | M6X16 | M6X80 | M8X40 | |
| M3X04 | M3X30 | M4X16 | M5X08 | M5X45 | M6X20 | M6X100 | M8X45 | |

## 1.73 Surub cap oval, amprenta cruce (Cross recessed raised countersunk/oval head screw)

**STANDARD: DIN 966 / ISO 7047 / STAS 10294**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M4X04 | M3X30 | M4X25 | M5X12 | M5X50 | M6X25 | M8X16 | M8X70 | M10X60 |
| M3X05 | M3X35 | M4X30 | M5X14 | M5X60 | M6X30 | M8X20 | M8X80 | |
| M3X06 | M4X06 | M4X35 | M5X16 | M5X70 | M6X35 | M8X25 | M10X20 | |
| M3X08 | M4X08 | M4X40 | M5X20 | M5X80 | M6X40 | M8X30 | M10X25 | |
| M3X10 | M4X10 | M4X45 | M5X25 | M6X08 | M6X45 | M8X35 | M10X30 | |
| M3X12 | M4X12 | M4X50 | M5X30 | M6X10 | M6X50 | M8X40 | M10X35 | |
| M3X16 | M4X14 | M5X06 | M5X35 | M6X12 | M6X60 | M8X45 | M10X40 | |
| M3X20 | M4X16 | M5X08 | M5X40 | M6X16 | M6X70 | M8X50 | M10X45 | |
| M3X25 | M4X20 | M5X10 | M5X45 | M6X20 | M8X12 | M8X60 | M10X50 | |

## 1.74 Suruburi de sudura (Cheese head weld screws)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X20 | M4X40 | M6X20 | M8X40 | M12X25 | M12X100 | M14X100 | M16X100 | M18X100 |
| M3X40 | M5X20 | M6X40 | M10X20 | M12X50 | M14X25 | M16X25 | M18X25 | M20X50 |
| M4X20 | M5X40 | M8X20 | M10X40 | M12X50 | M14X50 | M16X50 | M18X50 | M20X100 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 1.75 Surub cap bombat trilobat (Pan head thread rolling screw for metric ISO thread)

**STANDARD: DIN 7500C**



| DIMENSIUNI DISPONIBILE | | | | | |
|---|---|---|---|---|---|
| M2 | M4 | M6 | M8 | M10 | M12 |

## 1.76 Surub cap hexagonal trilobat (Hexagon flange thread rolling screw for metric ISO thread)

**STANDARD: DIN 7500D**



| DIMENSIUNI DISPONIBILE | | | | | |
|---|---|---|---|---|---|
| M2 | M4 | M6 | M8 | M10 | M12 |

## 1.77 Surub cap inecat trlobat (Countersunk thread rolling screw for metric ISO thread)

**STANDARD: DIN 7500M**



| DIMENSIUNI DISPONIBILE | | | | | |
|---|---|---|---|---|---|
| M2 | M4 | M6 | M8 | M10 | M12 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.6; 5.8; 8.8; 10.9; 12.9
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 2.01 Surub cap crestat pentru tabla (Slotted pan head tapping screw)

**STANDARD: DIN 7971 / ISO 1481 / STAS 9344/4**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2.2 x 6.5 | 2.9 x 6.5 | 2.9 x 22 | 3.5 x 19 | 3.9 x 9.5 | 3.9 x 22 | 3.9 x 45 | 4.2 x 16 | 4.2 x 32 |
| 2.2 x 9.5 | 2.9 x 9.5 | 2.9 x 25 | 3.5 x 22 | 3.9 x 13 | 3.9 x 25 | 3.9 x 50 | 4.2 x 19 | 4.2 x 38 |
| 2.2 x 13 | 2.9 x 13 | 3.5 x 9.5 | 3.5 x 25 | 3.9 x 16 | 3.9 x 32 | 4.2 x 9.5 | 4.2 x 22 | 4.2 x 45 |
| 2.2 x 16 | 2.9 x 16 | 3.5 x 13 | 3.5 x 32 | 3.9 x 19 | 3.9 x 38 | 4.2 x 13 | 4.2 x 25 | 4.2 x 50 |
| 2.2 x 19 | 2.9 x 19 | 3.5 x 16 | 3.5 x 38 | | | | | |

## 2.02 Surub cap inecat pentru tabla (Slotted countersunk/flat head tapping screw)

**STANDARD: DIN 7972 / ISO 1482 / STAS 9344/2**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2.2 x 6.5 | 2.9 x 19 | 3.5 x 32 | 3.9 x 38 | 4.2 x 32 | 4.8 x 16 | 4.8 x 70 | 5.5 x 45 | 6.3 x 25 |
| 2.2 x 9.5 | 2.9 x 22 | 3.5 x 38 | 3.9 x 45 | 4.2 x 38 | 4.8 x 19 | 4.8 x 80 | 5.5 x 50 | 6.3 x 32 |
| 2.2 x 13 | 2.9 x 25 | 3.9 x 9.5 | 3.9 x 50 | 4.2 x 45 | 4.8 x 22 | 5.5 x 13 | 5.5 x 60 | 6.3 x 38 |
| 2.2 x 16 | 3.5 x 9.5 | 3.9 x 13 | 4.2 x 9.5 | 4.2 x 50 | 4.8 x 25 | 5.5 x 16 | 5.5 x 70 | 6.3 x 45 |
| 2.2 x 19 | 3.5 x 13 | 3.9 x 16 | 4.2 x 13 | 4.2 x 60 | 4.8 x 32 | 5.5 x 19 | 5.5 x 80 | 6.3 x 50 |
| 2.9 x 6.5 | 3.5 x 16 | 3.9 x 19 | 4.2 x 16 | 4.2 x 70 | 4.8 x 38 | 5.5 x 22 | 6.3 x 13 | 6.3 x 60 |
| 2.9 x 9.5 | 3.5 x 19 | 3.9 x 22 | 4.2 x 19 | 4.2 x 80 | 4.8 x 45 | 5.5 x 25 | 6.3 x 16 | 6.3 x 70 |
| 2.9 x 13 | 3.5 x 22 | 3.9 x 25 | 4.2 x 22 | 4.8 x 9.5 | 4.8 x 50 | 5.5 x 32 | 6.3 x 19 | |
| 2.9 x 16 | 3.5 x 25 | 3.9 x 32 | 4.2 x 25 | 4.8 x 13 | 4.8 x 60 | 5.5 x 38 | 6.3 x 22 | |

## 2.03 Surub cap oval pentru tabla (Slotted raised countersunk/oval head tapping screw)

**STANDARD: DIN 7973 / ISO 1483 / STAS 9344/3**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2.2 x 9.5 | 2.9 x 13 | 3.5 x 9.5 | 3.5 x 25 | 3.9 x 16 | 3.9 x 32 | 4.2 x 9.5 | 4.2 x 22 | 4.2 x 45 |
| 2.2 x 13 | 2.9 x 16 | 3.5 x 13 | 3.5 x 32 | 3.9 x 19 | 3.9 x 38 | 4.2 x 13 | 4.2 x 25 | 4.2 x 50 |
| 2.2 x 16 | 2.9 x 19 | 3.5 x 16 | 3.5 x 38 | 3.9 x 22 | 3.9 x 45 | 4.2 x 16 | 4.2 x 32 | 4.2 x 60 |
| 2.9 x 6.5 | 2.9 x 22 | 3.5 x 19 | 3.9 x 9.5 | 3.9 x 25 | 3.9 x 50 | 4.2 x 19 | 4.2 x 38 | 4.2 x 70 |
| 2.9 x 9.5 | 2.9 x 25 | 3.5 x 22 | 3.9 x 13 | | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2
- Tip filet: autofiletant/ autoforant
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 2.04 Surub cap hexagonal pentru tabla (Hexagon head tapping screw)

**STANDARD: DIN 7976 / ISO 1479 / STAS 9344/5**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2.9 x 6.5 | 3.5 x 22 | 4.2 x 9.5 | 4.2 x 25 | 4.8 x 22 | 5.5 x 22 | 5.5 x 50 | 6.3 x 45 | 8 x 32 |
| 2.9 x 9.5 | 3.5 x 25 | 4.2 x 13 | 4.2 x 32 | 4.8 x 25 | 5.5 x 25 | 5.5 x 70 | 6.3 x 45 | 8 x 38 |
| 2.9 x 13 | 3.9 x 6.5 | 4.2 x 13 | 4.2 x 32 | 4.8 x 32 | 5.5 x 25 | 5.5 x 70 | 6.3 x 50 | 8 x 45 |
| 2.9 x 16 | 3.9 x 9.5 | 4.2 x 16 | 4.2 x 38 | 4.8 x 38 | 5.5 x 32 | 6.3 x 13 | 6.3 x 50 | 8 x 50 |
| 2.9 x 19 | 3.9 x 13 | 4.2 x 16 | 4.2 x 38 | 4.8 x 45 | 5.5 x 32 | 6.3 x 16 | 6.3 x 70 | |
| 3.5 x 6.5 | 3.9 x 16 | 4.2 x 19 | 4.2 x 45 | 4.8 x 50 | 5.5 x 38 | 6.3 x 19 | 6.3 x 70 | |
| 3.5 x 9.5 | 3.9 x 19 | 4.2 x 19 | 4.2 x 45 | 5.5 x 13 | 5.5 x 38 | 6.3 x 22 | 8 x 16 | |
| 3.5 x 13 | 3.9 x 22 | 4.2 x 22 | 4.8 x 13 | 5.5 x 16 | 5.5 x 45 | 6.3 x 25 | 8 x 19 | |
| 3.5 x 16 | 3.9 x 25 | 4.2 x 22 | 4.8 x 16 | 5.5 x 19 | 5.5 x 45 | 6.3 x 32 | 8 x 22 | |
| 3.5 x 19 | 4.2 x 9.5 | 4.2 x 25 | 4.8 x 19 | 5.5 x 22 | 5.5 x 50 | 6.3 x 38 | 8 x 25 | |

## 2.05 Surub cu cap bombat pentru tabla (Cross recessed pan head tapping screw)

**STANDARD: DIN 7981 / ISO 7049 / STAS 9344/8**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2.2 x 6.5 | 3.5 x 6.5 | 3.5 x 38 | 3.9 x 38 | 4.2 x 25 | 4.8 x 19 | 4.8 x 70 | 5.5 x 25 | 6.3 x 16 |
| 2.9 x 6.5 | 3.5 x 9.5 | 3.9 x 9.5 | 3.9 x 45 | 4.2 x 32 | 4.8 x 22 | 4.8 x 80 | 5.5 x 32 | 6.3 x 19 |
| 2.9 x 9.5 | 3.5 x 13 | 3.9 x 13 | 3.9 x 50 | 4.2 x 38 | 4.8 x 25 | 4.8 x 90 | 5.5 x 38 | 6.3 x 22 |
| 2.9 x 13 | 3.5 x 16 | 3.9 x 16 | 4.2 x 9.5 | 4.2 x 45 | 4.8 x 32 | 4.8 x 100 | 5.5 x 45 | 6.3 x 25 |
| 2.9 x 16 | 3.5 x 19 | 3.9 x 19 | 4.2 x 13 | 4.2 x 50 | 4.8 x 38 | 5.5 x 13 | 5.5 x 50 | |
| 2.9 x 19 | 3.5 x 22 | 3.9 x 22 | 4.2 x 16 | 4.8 x 9.5 | 4.8 x 45 | 5.5 x 16 | 5.5 x 60 | |
| 2.9 x 22 | 3.5 x 25 | 3.9 x 25 | 4.2 x 19 | 4.8 x 13 | 4.8 x 50 | 5.5 x 19 | 5.5 x 70 | |
| 2.9 x 25 | 3.5 x 32 | 3.9 x 32 | 4.2 x 22 | 4.8 x 16 | 4.8 x 60 | 5.5 x 22 | 6.3 x 13 | |

## 2.06 Surub cap inecat pentru tabla (Cross recessed countersunk/flat head tapping screw)

**STANDARD: DIN 7982 / ISO 7050 / STAS 9344/6**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2.2 x 6.5 | 2.9 x 19 | 3.5 x 32 | 3.9 x 38 | 4.2 x 32 | 4.8 x 16 | 4.8 x 70 | 5.5 x 45 | 6.3 x 25 |
| 2.2 x 9.5 | 2.9 x 22 | 3.5 x 38 | 3.9 x 45 | 4.2 x 38 | 4.8 x 19 | 4.8 x 80 | 5.5 x 50 | 6.3 x 32 |
| 2.2 x 13 | 2.9 x 25 | 3.9 x 9.5 | 3.9 x 50 | 4.2 x 45 | 4.8 x 22 | 5.5 x 13 | 5.5 x 60 | 6.3 x 38 |
| 2.2 x 16 | 3.5 x 9.5 | 3.9 x 13 | 4.2 x 9.5 | 4.2 x 50 | 4.8 x 25 | 5.5 x 16 | 5.5 x 70 | 6.3 x 45 |
| 2.2 x 19 | 3.5 x 13 | 3.9 x 16 | 4.2 x 13 | 4.2 x 60 | 4.8 x 32 | 5.5 x 19 | 5.5 x 80 | 6.3 x 50 |
| 2.9 x 6.5 | 3.5 x 16 | 3.9 x 19 | 4.2 x 16 | 4.2 x 70 | 4.8 x 38 | 5.5 x 22 | 6.3 x 13 | 6.3 x 60 |
| 2.9 x 9.5 | 3.5 x 19 | 3.9 x 22 | 4.2 x 19 | 4.2 x 80 | 4.8 x 45 | 5.5 x 25 | 6.3 x 16 | 6.3 x 70 |
| 2.9 x 13 | 3.5 x 22 | 3.9 x 25 | 4.2 x 22 | 4.8 x 9.5 | 4.8 x 50 | 5.5 x 32 | 6.3 x 19 | |
| 2.9 x 16 | 3.5 x 25 | 3.9 x 32 | 4.2 x 25 | 4.8 x 13 | 4.8 x 60 | 5.5 x 38 | 6.3 x 22 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2
- Tip filet: autofiletant/ autoforant
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 2.07 Surub cap semi inecat pentru tabla (Cross recessed raised countersunk/oval head tapping screw)

**STANDARD: DIN 7983 / ISO 7051 / STAS 9344/7**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2.2 x 9.5 | 2.9 x 25 | 3.9 x 9.5 | 3.9 x 50 | 4.2 x 45 | 4.8 x 25 | 5.5 x 19 | 6.3 x 13 | 6.3 x 60 |
| 2.2 x 13 | 3.5 x 9.5 | 3.9 x 13 | 4.2 x 9.5 | 4.2 x 50 | 4.8 x 32 | 5.5 x 22 | 6.3 x 16 | 6.3 x 70 |
| 2.2 x 16 | 3.5 x 13 | 3.9 x 16 | 4.2 x 13 | 4.2 x 60 | 4.8 x 38 | 5.5 x 25 | 6.3 x 19 | |
| 2.9 x 6.5 | 3.5 x 16 | 3.9 x 19 | 4.2 x 16 | 4.2 x 70 | 4.8 x 45 | 5.5 x 32 | 6.3 x 22 | |
| 2.9 x 9.5 | 3.5 x 19 | 3.9 x 22 | 4.2 x 19 | 4.8 x 9.5 | 4.8 x 50 | 5.5 x 38 | 6.3 x 25 | |
| 2.9 x 13 | 3.5 x 22 | 3.9 x 25 | 4.2 x 22 | 4.8 x 13 | 4.8 x 60 | 5.5 x 45 | 6.3 x 32 | |
| 2.9 x 16 | 3.5 x 25 | 3.9 x 32 | 4.2 x 25 | 4.8 x 16 | 4.8 x 70 | 5.5 x 50 | 6.3 x 38 | |
| 2.9 x 19 | 3.5 x 32 | 3.9 x 38 | 4.2 x 32 | 4.8 x 19 | 5.5 x 13 | 5.5 x 60 | 6.3 x 45 | |
| 2.9 x 22 | 3.5 x 38 | 3.9 x 45 | 4.2 x 38 | 4.8 x 22 | 5.5 x 16 | 5.5 x 70 | 6.3 x 50 | |

## 2.08 Surub autoforant cu cap hexagonal (Self drilling hexagon head screw with collar)

**STANDARD: DIN 7504K / ISO 15480**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3.9x16 | 4.2x16 | 4.2x38 | 4.8X22 | 4.8X50 | 5.5x38 | 6.3x32 | 6.3x70 | 6.3X120 |
| 3.9x19 | 4.2x19 | 4.2x38 | 4.8X25 | 5.5x19 | 5.5x45 | 6.3x38 | 6.3x80 | 6.3X130 |
| 3.9x22 | 4.2x22 | 4.2x50 | 4.8X32 | 5.5x22 | 5.5x50 | 6.3x45 | 6.3x90 | 6.3X140 |
| 3.9x25 | 4.2x25 | 4.8X16 | 4.8X38 | 5.5x25 | 5.5x60 | 6.3x50 | 6.3X100 | 6.3X150 |
| 3.9x32 | 4.2x32 | 4.8X19 | 4.8X45 | 5.5x32 | 6.3x25 | 6.3x60 | 6.3X110 | |

## 2.09 Surub autoforant cu cap bombat (Self drilling pan head screw )

**STANDARD: DIN 7504N / ISO 15481**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3.5x9.5 | 3.5x32 | 3.9x25 | 4.2x25 | 4.8x16 | 4.8x45 | 5.5x22 | 5.5x60 | 6.3x50 |
| 3.5x13 | 3.9x9.5 | 3.9x32 | 4.2x32 | 4.8x19 | 4.8x50 | 5.5x25 | 5.5x70 | 6.3x60 |
| 3.5x16 | 3.9x13 | 4.2x13 | 4.2x38 | 4.8x22 | 4.8x60 | 5.5x32 | 6.3x25 | 6.3x70 |
| 3.5x19 | 3.9x16 | 4.2x16 | 4.2x45 | 4.8x25 | 4.8x70 | 5.5x38 | 6.3x32 | |
| 3.5x22 | 3.9x19 | 4.2x19 | 4.2x50 | 4.8x32 | 4.8x80 | 5.5x45 | 6.3x38 | |
| 3.5x25 | 3.9x22 | 4.2x22 | 4.8x13 | 4.8x38 | 5.5x19 | 5.5x50 | 6.3x45 | |

## 2.10 Surub autoforant cu cap inecat (Self drilling flat CSK head screw)

**STANDARD: DIN 7504P / ISO 15482**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3.5x13 | 3.5x38 | 3.9x25 | 4.2x13 | 4.2x32 | 4.8x19 | 4.8x45 | 5.5x38 | 6.3x32 |
| 3.5x16 | 3.5x45 | 3.9X32 | 4.2x16 | 4.2x38 | 4.8x22 | 4.8x50 | 5.5x45 | 6.3x38 |
| 3.5x19 | 3.9x13 | 3.9X38 | 4.2x19 | 4.2x45 | 4.8x25 | 5.5x22 | 5.5x50 | 6.3x45 |
| 3.5x22 | 3.9x16 | 3.9X45 | 4.2x22 | 4.2x50 | 4.8x32 | 5.5x25 | 5.5x60 | 6.3x50 |
| 3.5x25 | 3.9x19 | 3.9X50 | 4.2x25 | 4.8x16 | 4.8x38 | 5.5x32 | 6.3x25 | 6.3x60 |
| 3.5x32 | 3.9X22 | | | | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2
- Tip filet: autofiletant/ autoforant
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 2.11 Surub autoforant cu cap oval (Self drilling screw wafer head)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3.5x13 | 3.5x22 | 3.5x38 | 3.9x16 | 3.9x25 | 3.9X45 | 4.2x16 | 4.2x25 | 4.2x45 |
| 3.5x16 | 3.5x25 | 3.5x45 | 3.9x19 | 3.9X32 | 3.9X50 | 4.2x19 | 4.2x32 | 4.2x50 |
| 3.5x19 | 3.5x32 | 3.9x13 | 3.9X22 | 3.9X38 | 4.2x13 | 4.2x22 | 4.2x38 | |

## 2.12 Surub autoforant cu cap hexagonal (Farmer screw)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4.2x50 | 4.8X22 | 4.8X38 | 5.5x22 | 5.5x45 | 6.3x32 | 6.3x60 | 6.3X100 | 6.3X140 |
| 4.8X16 | 4.8X25 | 4.8X45 | 5.5x25 | 5.5x50 | 6.3x38 | 6.3x70 | 6.3X110 | 6.3X150 |
| 4.8X19 | 4.8X32 | 4.8X50 | 5.5x32 | 5.5x60 | 6.3x45 | 6.3x80 | 6.3X120 | |
| 4,8X 20 | 4,8X35 | 5.5x19 | 5.5x38 | 6.3x25 | 6.3x50 | 6.3x90 | 6.3X130 | |

## 2.13 Surub autoforant pentru acoperis (Screw for roofing and wall covering)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4.2x50 | 4.8X25 | 4.8X50 | 5.5x32 | 5.5x60 | 6.3x45 | 6.3x70 | 6.3X100 | 6.3X130 |
| 4.8X16 | 4.8X32 | 5.5x19 | 5.5x38 | 6.3x25 | 6.3x50 | 6.3x80 | 6.3X110 | 6.3X140 |
| 4.8X19 | 4.8X38 | 5.5x22 | 5.5x45 | 6.3x32 | 6.3x60 | 6.3x90 | 6.3X120 | 6.3X150 |
| 4.8X22 | 4.8X45 | 5.5x25 | 5.5x50 | 6.3x38 | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2
- Tip filet: autofiletant/ autoforant
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 2.14 Surub PAL cu cap inecat (Countersunk flat head, chipboard screws)

**STANDARD: DIN 7505A**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2.5x10 | 3x15 | 3.5x13 | 4x12 | 4x55 | 4.5x45 | 5x40 | 6x25 | 6x110 |
| 2.5x12 | 3x16 | 3.5x14 | 4x14 | 4x60 | 4.5x50 | 5x45 | 6x30 | 6x120 |
| 2.5x14 | 3x17 | 3.5x16 | 4x16 | 4x70 | 4.5x55 | 5x50 | 6x35 | 6x130 |
| 2.5x16 | 3x18 | 3.5x18 | 4x18 | 4.5x16 | 4.5x60 | 5x55 | 6x40 | 6x140 |
| 2.5x18 | 3x20 | 3.5x20 | 4x20 | 4.5x17 | 4.5x70 | 5x60 | 6x45 | 6x150 |
| 2.5x20 | 3x25 | 3.5x25 | 4x25 | 4.5x18 | 4.5x80 | 5x70 | 6x50 | 6x160 |
| 2.5x25 | 3x30 | 3.5x30 | 4x30 | 4.5x20 | 5x16 | 5x80 | 6x60 | 6x180 |
| 3x10 | 3x35 | 3.5x35 | 4x35 | 4.5x25 | 5x20 | 5x90 | 6x70 | 6x200 |
| 3x12 | 3x40 | 3.5x40 | 4x40 | 4.5x30 | 5x25 | 5x100 | 6x80 | 6x220 |
| 3x13 | 3x45 | 3.5x45 | 4x45 | 4.5x35 | 5x30 | 5x120 | 6x90 | |
| 3x14 | 3.5x12 | 3.5x50 | 4x50 | 4.5x40 | 5x35 | 5x140 | 6x100 | |

## 2.15 Surub PAL cu cap bombat (Chipboard screw, oval head)

**STANDARD: DIN 7505B**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 x 12 | 3.5 x 12 | 3.5 x 35 | 4 x 30 | 4.5 x 16 | 4.5 x 40 | 5 x 25 | 5 x 50 |
| 3 x 16 | 3.5 x 16 | 3.5 x 40 | 4 x 35 | 4.5 x 20 | 4.5 x 45 | 5 x 30 | 5 x 60 |
| 3 x 20 | 3.5 x 20 | 4 x 20 | 4 x 40 | 4.5 x 25 | 4.5 x 50 | 5 x 35 | 6 x 40 |
| 3 x 25 | 3.5 x 25 | 4 x 16 | 4 x 45 | 4.5 x 30 | 5 x 16 | 5 x 40 | 6 x 50 |
| 3 x 30 | 3.5 x 30 | 4 x 25 | 4 x 50 | 4.5 x 35 | 5 x 20 | 5 x 45 | 6 x 60 |

## 2.16 Surub PAL cu cap semibombat (Chipboard screw, semioval head)

**STANDARD: DIN 7505C**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 x 12 | 3.5 x 12 | 3.5 x 30 | 4 x 16 | 4 x 30 | 4.5 x 25 | 5 x 16 | 5 x 40 |
| 3 x 16 | 3.5 x 16 | 3.5 x 35 | 4 x 20 | 4 x 35 | 4.5 x 45 | 5 x 25 | 5 x 50 |
| 3 x 20 | 3.5 x 20 | 3.5 x 40 | 4 x 25 | 4 x 40 | 4.5 x 50 | 5 x 30 | 6 x 50 |
| 3 x 30 | 3.5 x 25 | | | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2
- Tip filet: autofiletant/ autoforant
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 2.17 Holz-surub cu cap hexagonal (Hexagon head wood screw)

**STANDARD: DIN 571 / STAS 1454**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4X25 | 6X30 | 6X110 | 7X120 | 8X60 | 8X160 | 10X130 | 12X110 | 16X110 |
| 4X40 | 6X35 | 6X120 | 7X130 | 8X65 | 8X180 | 10X140 | 12X120 | 16X120 |
| 5X25 | 6X40 | 6X130 | 7X140 | 8X70 | 8X200 | 10X150 | 12X130 | 16X130 |
| 5X30 | 6X45 | 6X140 | 7X150 | 8X75 | 10X40 | 10X160 | 12X140 | 16X140 |
| 5X35 | 6X50 | 7X40 | 7X160 | 8X80 | 10X50 | 10X180 | 12X150 | |
| 5X40 | 6X55 | 7X50 | 8X25 | 8X90 | 10X60 | 10X200 | 12X160 | |
| 5X45 | 6X60 | 7X60 | 8X30 | 8X100 | 10X70 | 12X50 | 12X180 | |
| 5X50 | 6X65 | 7X70 | 8X35 | 8X110 | 10X80 | 12X60 | 12X200 | |
| 5X55 | 6X70 | 7X80 | 8X40 | 8X120 | 10X90 | 12X70 | 16X70 | |
| 5X60 | 6X80 | 7X90 | 8X45 | 8X130 | 10X100 | 12X80 | 16X80 | |
| 5X70 | 6X90 | 7X100 | 8X50 | 8X140 | 10X110 | 12X90 | 16X90 | |
| 6X25 | 6X100 | 7X110 | 8X55 | 8X150 | 10X120 | 12X100 | 16X100 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2
- Tip filet: autofiletant/ autoforant
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.01 Piulita hexagonala (Hexagon nut)

**STANDARD: DIN 934; DIN 555 / ~ ISO 4033; ISO 4032; ISO 4034**
**STAS 4071; STAS 922**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1 | M2.3 | M5 | M14 | M27 | M45 | M68 | M95 | M125 |
| M1.2 | M2.5 | M6 | M16 | M30 | M48 | M72 | M100 | M130 |
| M1.4 | M2.6 | M7 | M18 | M33 | M52 | M76 | M105 | M135 |
| M1.6 | M3 | M8 | M20 | M36 | M56 | M80 | M110 | M140 |
| M1.7 | M3.5 | M10 | M22 | M39 | M60 | M85 | M115 | M145 |
| M2 | M4 | M12 | M24 | M42 | M64 | M90 | M120 | M150 |

## 3.02 Piulita hexagonala joasa (Hexagon thin nut)

**STANDARD: DIN 439 / ISO 4035; ISO 4036; ISO 8675**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M2 | M4 | M10 | M12X1,5 | M18 | M20X2 | M24X1,5 | M30x1,5 | M36X2 |
| M2,3 | M5 | M10X1 | M14 | M18X1,5 | M22 | M24X2 | M30X2 | M42X1,5 |
| M2,5 | M6 | M10X1,25 | M14X1,5 | M18X2 | M22X1,5 | M27 | M33X1,5 | |
| M2,6 | M8 | M12 | M16 | M20 | M22X2 | M27X1,5 | M36 | |
| M3 | M8X1 | M12X1,25 | M16X1,5 | M20X1,5 | M24 | M27X2 | M36X1,5 | |

## 3.03 Piulita hexagonala joasa (Hexagon thin nut)

**STANDARD: DIN 936**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M 8 | M 12 | M 16 | M 18 | M 20 | M 22 | M 24 | M 27 | M 30 |
| M 10 | M 14 | | | | | | | |

## 3.04 Piulita hexagonala inalta (Hexagon high nut)

**STANDARD: DIN ~6330**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M6X1.0 | M10X1.5 | M14X2 | M18X2.5 | M22X2.5 | M27X3 | M36X4 | M42X45 | M48X5 |
| M8X1.25 | M12X1.75 | M16X2 | M20X2.5 | M24X3 | M30X3.5 | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.05 Piulita patrata (Square nut)

**STANDARD: DIN 557; DIN 562 / STAS 926**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M4 | M5 | M6 | M8 | M10 | M12 | M16 | M20 |

## 3.06 Piulita crenelata (Hexagon slotted and castle nut)

**STANDARD: DIN 935 / ISO ~7035 / STAS 4073**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M4 | M10 | M18 | M27 | M39 | M52 | M64 | M80 | M100 |
| M5 | M12 | M20 | M30 | M42 | M56 | M68 | M85 | |
| M6 | M14 | M22 | M33 | M45 | M58 | M72 | M90 | |
| M8 | M16 | M24 | M36 | M48 | M60 | M76 | M95 | |

## 3.07 Piulita crenelata joasa (Hexagon thin slotted and castle nut)

**STANDARD: DIN 937 / ISO 7038 / STAS 4074**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M6 | M10 | M16 | M20 | M24 | M30 | M36 | M42 | M48 |
| M7 | M12 | M18 | M22 | M27 | M33 | M39 | M45 | M52 |
| M8 | M14 | | | | | | | |

## 3.08 Piulita hexagonala cu flansa cu striatii/fara striatii (Hexagon nut with flange)

**STANDARD: DIN 6923 / ISO 4161; ISO 1661**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 |
| M4 | | | | | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.09 Piulita hexagonala cu flansa si insertie de plastic (Prevailing torque type hexagon nut with flange)

**STANDARD: DIN 6926**



| DIMENSIUNI DISPONIBILE | | | | | | |
|---|---|---|---|---|---|---|
| M5 | M6 | M8 | M10 | M12 | M14 | M16 |

## 3.10 Piulita cu autoblocare si flansa (Self hex nuts with flange)

**STANDARD: DIN 6927 / ISO 7044**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 |
| M4 | | | | | | | | |

## 3.11 Piulita de sudura patrata (Square weld nut)

**STANDARD: DIN 928**



| DIMENSIUNI DISPONIBILE | | | | | | |
|---|---|---|---|---|---|---|
| M5 | M6 | M8 | M10 | M12 | M14 | M16 |

## 3.12 Piulita de sudura hexagonala (Hexagon weld nut)

**STANDARD: DIN 929**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.13 Piulita hexagonala cu insertie de plastic (Prevailing torque type hexagon nuts)

**STANDARD: DIN 985 / ISO 10512**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M6 | M10X1 | M14X1,5 | M18X1,5 | M22X1,5 | M27 | M30X2 | M39 |
| M30 | M8 | M12 | M16 | M20 | M24 | M27X2 | M33 | M42 |
| M4 | M8X1 | M12X1,5 | M16X1,5 | M20X1,5 | M24X1,5 | M30 | M36 | M45 |
| M5 | M10 | M14 | M18 | M22 | M24X2 | M30X1,5 | M36X3 | M48 |

## 3.14 Piulita hexagonala cu insertie de plastic UNC, UNF (Prevailing torque type hexagon nuts UNC, UNF)

**STANDARD: DIN ~985**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M6 | M10X1 | M14X1,5 | M18X1,5 | M22X1,5 | M27 | M30X2 | M39 |
| M30 | M8 | M12 | M16 | M20 | M24 | M27X2 | M33 | M42 |
| M4 | M8X1 | M12X1,5 | M16X1,5 | M20X1,5 | M24X1,5 | M30 | M36 | M45 |
| M5 | M10 | M14 | M18 | M22 | M24X2 | M30X1,5 | M36X3 | M48 |

## 3.15 . Piulita hexagonala cu autoblocare, insertie metalica (Prevailing high torque type hexagon nuts)

**STANDARD: DIN 982 / ISO 7040**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M5 | M8 | M12 | M16 | M22 | M24 | M30 | M36 | M42 |
| M6 | M10 | M14 | M20 | | | | | |

## 3.16 Piulita hexagonala cu autoblocare (Self locking hex nut)

**STANDARD: DIN 980 / ISO 7042**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M4 | M8 | M10x1,25 | M14 | M16x1,5 | M20x1,5 | M24x1,5 | M30 | M36 |
| M5 | M10 | M12 | M14X1,5 | M18 | M20X2 | M24X2 | M30X2 | |
| M6 | M10X1 | M12X1,5 | M16 | M20 | M24 | M27 | M33 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.17 Piulita infundata inalta (Hexagon domed cap nuts)

**STANDARD: DIN 1587**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M5 | M8 | M12 | M16 | M20 | M24 | M27 | M30 |
| M4 | M6 | M10 | M14 | | | | | |

## 3.18 Piulita infundata cu insertie non-metalica (Hexagon nut domed cap nuts with non-metallic insert)

**STANDARD: DIN 6986**



| DIMENSIUNI DISPONIBILE | | | | | | |
|---|---|---|---|---|---|---|
| M4 | M5 | M8 | M12 | M14 | M16 | M20 |

## 3.19 Piulita infundata standard (Hexagon cup nut)

**STANDARD: DIN 917 / STAS 4374**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M5 | M8 | M10 | M12 | M14 | M16 | M20 | M24 |
| M4 | M6 | | | | | | | |

## 3.20 Piulita infundata cu autoblocare (Hexagon cup lock nut)

**STANDARD: DIN 986**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| M 4 | M 5 | M 6 | M 8 | M 10 | M 12 | M 16 | M 20 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.21 Piulita intinzator (Turnbuckle nuts)

**STANDARD: DIN 1478**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M6 | M10 | M16 | M24 | M36 | M42 | M48 | M56 | M64 |
| M8 | M12 | M20 | M30 | M39 | M45 | M52 | M60 | |

## 3.22 Piulita intinzator ( Turnbuckle nuts)

**STANDARD: DIN 1479**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M6 | M10 | M16 | M24 | M36 | M42 | M48 | M52 | M56 |
| M8 | M12 | M20 | M30 | M39 | M45 | | | |

## 3.23 Piulita intinzator (Turnbuckle nuts)

**STANDARD: DIN 1480**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M6 | M10 | M16 | M24 | M36 | M42 | M48 | M56 | M64 |
| M8 | M12 | M20 | M30 | M39 | M45 | M52 | M60 | |

## 3.24 Piulita hexagonala pentru prezoane ( Hexagon nuts fort stud bolts)

**STANDARD: DIN 2510 / A194-2H**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M12 | M20 | M30 | M39 | M45 | M52 | M60 | M68 | M72 |
| M16 | M24 | M36 | M42 | M48 | M56 | M64 | | |

## 3.25 Piulita fluture (Wing nut)

**STANDARD: DIN 315**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M5 | M8 | M12 | M14 | M16 | M18 | M20 | M24 |
| M4 | M6 | M10 | | | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.26 Piulita cu gheara (Teeth nuts with pronges)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3X8 | M5X8 | M6X9 | M6X12,6 | M6X15,3 | M6X18 | M8X15 | M8X11 | M10X12,5 |
| M4X8 | | | | | | | | |

## 3.27 Piulita hexagonala UNC, UNF, BSW, BSF (Hexagon nuts UNC, UNF, BSW, BSF)

**STANDARD: ANSI 18.2.2**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M1 | M2.3 | M5 | M14 | M27 | M45 | M68 | M95 | M125 |
| M1.2 | M2.5 | M6 | M16 | M30 | M48 | M72 | M100 | M130 |
| M1.4 | M2.6 | M7 | M18 | M33 | M52 | M76 | M105 | M135 |
| M1.6 | M3 | M8 | M20 | M36 | M56 | M80 | M110 | M140 |
| M1.7 | M3.5 | M10 | M22 | M39 | M60 | M85 | M115 | M145 |
| M2 | M4 | M12 | M24 | M42 | M64 | M90 | M120 | M150 |

## 3.28 Piulita de inalta rezistenta (Hexagon nut for high strength)

**STANDARD: DIN 6915 / EN 14399-5 / ISO 7414**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M12 | M16 | M20 | M22 | M24 | M27 | M30 | M36 | M42 |

## 3.29 Contra piulita (Piulita cu autoblocare) (Self locking counter nut/Pall nut)

**STANDARD: DIN 7967**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M 6 | M 10 | M 14 | M 20 | M 24 | M 30 | M 36 | M 42 | M 48 |
| M 8 | M 12 | M 16 | M 22 | M 27 | M 33 | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.30 Piulita striata inalta (Knurled nut with collar)

**STANDARD: DIN 466**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |

## 3.31 Piulita striata (Knurled nut)

**STANDARD: DIN 467**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |

## 3.32 Piulita rotunda cu crestatura (Slotted round nut)

**STANDARD: DIN ~546 / STAS 5332**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |

## 3.33 Piulita de ridicare (Ochet-mama) (Lifting eye nut)

**STANDARD: DIN 582**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M6 | M10 | M16 | M22 | M30 | M39 | M48 | M60 | M72 |
| M7 | M12 | M18 | M24 | M33 | M42 | M52 | M64 | M76 |
| M8 | M14 | M20 | M27 | M36 | M45 | M56 | M68 | M80 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.34 Piulita speciala (Nut for covers)

**STANDARD: DIN 28129**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 | M30 |

## 3.35 Piulita hexagonala cu autoblocare THERMAG (THERMAG hexagon lock nuts)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M8 | M12 | M16 | M20 | M22 | M24 | M30 | M36 | M42 |
| M10 | M14 | | | | | | | |

## 3.36 Piulita conector (Joint conector)



| DIMENSIUNI DISPONIBILE | | | |
|---|---|---|---|
| M6 | M8 | M10 | M12 |

## 3.37 Piulita pentru tevi (Pipe nut)

**STANDARD: DIN 431**



| DIMENSIUNI DISPONIBILE | | | | | | |
|---|---|---|---|---|---|---|
| BG 1/4 | BG 3/8 | BG 1/2 | BG 3/4 | BG 1 | BG 1/2 | BG 2 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.38 Piulita canelata/cu caneluri (Slotted round nuts with grooves )

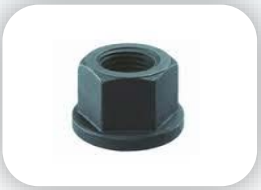
**STANDARD: DIN 1804**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M8x1 | M16x1.5 | M24x1.5 | M32x1.5 | M42x1.5 | M52x1.5 | M62x1.5 | M72x1.5 | M90x2 |
| M10x1 | M18x1.5 | M26x1.5 | M35x1.5 | M45x1.5 | M55x1.5 | M65x1.5 | M75x1.5 | M95x2 |
| M12x1.5 | M20x1.5 | M28x1.5 | M38x1.5 | M48x1.5 | M58x1.5 | M68x1.5 | M80x2 | M100x2 |
| M14x1.5 | M22x1.5 | M30x1.5 | M40x1.5 | M50x1.5 | M60x1.5 | M70x1.5 | M85x2 | |

## 3.39 Piulita hexagonala inalta cu flansa (Hexagon high nut with flange)

**STANDARD: DIN 6331**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M 8 | M 10 | M 12 | M 14 | M 16 | M 18 | M 20 | M 24 | M 30 |

## 3.40 Piulita de cuplare hexagonala/cilindrica (Coupling nuts)

**STANDARD: DIN 6334 (3d)**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| M6x20x10 | M6x30x10 | M8x25x11 | M10x30x13 | M12x35x17 | M16x50x24 | M20x60x30 | M24x72x36 |

## 3.41 Piulite standard pentru spectru larg de utilizare (Self clinching nuts)

**STANDARD: Tip S, SS, CLS, CLSS**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M2X0,4 | M2,5X0,45 | M3X0,5 | M3,5X0,6 | M4X0,7 | M5X0,8 | M6X1 | M8X1,25 | M10X1,5 |

## 3.42 Piulite standard pentru spectru larg de utilizare (Self clinching nuts)

**STANDARD: Tip CLA**



| DIMENSIUNI DISPONIBILE | | | | | |
|---|---|---|---|---|---|
| M2X0,4 | M3X0,5 | M3,5X0,6 | M4X0,7 | M5X0,8 | M6X1 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.43 Piulite standard pentru spectru larg de utilizare (Self clinching nuts)

**STANDARD: Tip SL**



| DIMENSIUNI DISPONIBILE | | | | |
|---|---|---|---|---|
| M3X0,5 | M3,5X0,6 | M4X0,7 | M5X0,8 | M6X1 |

## 3.44 Piulite standard pentru spectru larg de utilizare (Self clinching nuts)

**STANDARD: Tip H, HN, HNL**



| DIMENSIUNI DISPONIBILE | | |
|---|---|---|
| M6X1 | M8X1,25 | M10X1,5 |

## 3.45 Piulite speciale pentru table din otel inox (Self clinching nuts)

**STANDARD: Tip SP**



| DIMENSIUNI DISPONIBILE | | | | |
|---|---|---|---|---|
| M3X0,5 | M3,5X0,6 | M4X0,7 | M5X0,8 | M6X1 |

## 3.46 Piulite speciale pentru table; permit montaj la distanta mai mica de marginea materialului (Self clinching nuts)

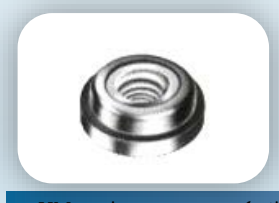
**STANDARD: Tip SMPS**



| DIMENSIUNI DISPONIBILE | | |
|---|---|---|
| M2,5X0,45 | M3X0,5 | M3,5X0,6 |

## 3.47 Piulite flotante (in colivie) (Self clinching nuts)

**STANDARD: Tip AS, AC**



| DIMENSIUNI DISPONIBILE | | | |
|---|---|---|---|
| M3X0,5 | M4X0,7 | M5X0,8 | M6X1 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.48 Piulite flotante (in colivie) autoblocante (Self clinching nuts)

**STANDARD: Tip LAS, LAC**



| DIMENSIUNI DISPONIBILE | | | |
|---|---|---|---|
| M3X0,5 | M4X0,7 | M5X0,8 | M6X1 |

## 3.49 Piulite autosertizate miniature (Self clinching nuts)

**STANDARD: Tip U, FEOX, FEX**



| DIMENISUNI DISPONIBILE | | | | |
|---|---|---|---|---|
| M2X0,4 | M3X0,5 | M4X0,7 | M5X0,8 | M6X1 |

## 3.50 Piulite autoblocante miniatura (conforme MIL-N-45938/7) (Self clinching nuts)

**STANDARD: Tip UL, FEO, FE**



| DIMENISUNI DISPONIBILE | | | | |
|---|---|---|---|---|
| M2X0,4 | M3X0,5 | M4X0,7 | M5X0,8 | M6X1 |

## 3.51 Piulite autoblocante cu nylon (Self clinching nuts)

**STANDARD: Tip PL, PLC**



| DIMENISUNI DISPONIBILE | | |
|---|---|---|
| M3X0,5 | M4X0,7 | M5X0,8 |

## 3.52 Piulite autoblocante (Self clinching nuts)

**STANDARD: Tip LK**



| DIMENISUNI DISPONIBILE | | | |
|---|---|---|---|
| M2,5x0,45 | M3X0,5 | M4X0,7 | M5X0,8 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 3.53 Piulita extra plata (Self clinching nuts)

**STANDARD: Tip F**



| DIMENISUNI DISPONIBILE | | | | | |
|---|---|---|---|---|---|
| M2X0,4 | M2,5X0,45 | M3X0,5 | M4X0,7 | M5X0,8 | M6X1 |

## 3.54 Piulita extra lata (Self clinching nuts)

**STANDARD: Tip B, BS**



| DIMENISUNI DISPONIBILE | | | |
|---|---|---|---|
| M3X0,5 | M4X0,7 | M5X0,8 | M6X1 |

## 3.55 Piulite autosertizate pentru montaj in PCB si placi electronice (Self clinching nuts)

**STANDARD: Tip KF2, KFS2**



| DIMENSIUNI DISPONIBILE | | | | | |
|---|---|---|---|---|---|
| M2X0,4 | M2,5X0,45 | M3X0,5 | M3,5X0,6 | M4X0,7 | M5X0,8 |

## 3.56 Piulite autoexpandabile pentru PCB si placi electronice (Self clinching nuts)

**STANDARD: Tip KPS6**



| DIMENSIUNI DISPONIBILE | | |
|---|---|---|
| M3X0,5 | M4X0,7 | M5X0,8 |

## 3.57 Piulite cu autoblocare la vibratii - aplicate in conexiuni conectori/cablu (Self clinching nuts)

**STANDARD: Tip CFN**



| DIMENSIUNI DISPONIBILE |
|---|
| M3X0,5 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2-70; inox A4-70; inox A4-80
- Grupa otel (Steel class): 5.; 8.; 10.; 12.
- Tip filet: metric; inch; UNC/UNF
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 4.01 Saiba plata standard (Plain washer fine series)

**STANDARD: DIN 125 / ISO 7089 / STAS ~1388**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| A1,6 | A2,5 | A4 | A8 | A16 | A22 | A30 | A39 | A48 |
| A1,7 | A2,7 | A5 | A10 | A18 | A24 | A33 | A42 | A50 |
| A2 | A3 | A6 | A12 | A20 | A27 | A36 | A45 | A52 |
| A2,3 | A3,5 | A7 | A14 | | | | | |

## 4.02 Saiba plata groasa (Plain washer coarse series)

**STANDARD: DIN 126 / ISO 7091 / STAS 1388**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5,5(M5) | 11(M10) | 17,5(M16) | 22(M20) | 26(M24) | 33(M30) | 39(M36) | 45(M42) | 52(M48) |
| 6,6(M6) | 13,5(M12) | 20(M18) | 24(M22) | 30(M27) | 36(M33) | 42(M39) | 48(M45) | 56(M52) |
| 9(M8) | 15,5(14) | | | | | | | |

## 4.03 Saiba Grower (arc) (Spring washer)

**STANDARD: DIN 127; DIN 128 / STAS 7666/2**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| MN2 | MN5 | MN12 | MN20 | MN30 | MN39 | MN48 | MN60 | MN80 |
| MN2,5 | MN6 | MN14 | MN22 | MN33 | MN42 | MN52 | MN64 | MN90 |
| MN3 | MN8 | MN16 | MN24 | MN36 | MN45 | MN56 | MN72 | MN100 |
| MN4 | MN10 | MN18 | MN27 | | | | | |

## 4.04 Saiba elastica (Waved and curved spring washer)

**STANDARD: DIN 137**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3,5(M3,5) | 5(M5) | 7(M7) | 10(M10) | 13(M13) | 16(M16) | 20(M20) | 24(M24) | 30(M30) |
| 4(M4) | 6(M6) | 8(M8) | 12(M12) | 14(M14) | 18(M18) | 22(M22) | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2; inox A4
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 4.05 Saiba cu crestatura exterioara (External tab washer)

**STANDARD: DIN 432 / ISO A-1234 / STAS 2241/2243**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3,2(M3) | 5,3(M5) | 10,5(M10) | 17(M16) | 23(M22) | 34(M33) | 40(M39) | 46(M45) | 54(M52) |
| 3,7(M3,5) | 6,4(M6) | 13(M12) | 19(M18) | 25(M24) | 37(M36) | 43(M42) | 50(M48) | 58(M56) |
| 4,3(M4) | 8,4(M8) | 15(M14) | 21(M20) | 31(M30) | | | | |

## 4.06 Saiba plata redusa (Plain washer for cheese and round head screws)

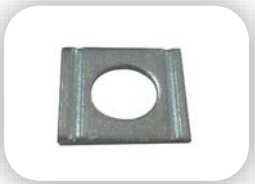
**STANDARD: DIN 433 / ISO 7092**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,5(M1,4) | 2,5(M2,4) | 2,8(M2,6) | 3,7(M3,5) | 5,3(M5) | 8,4(M8) | 12,2(M2) | 15(M14) | 19(M18) |
| 1,7(M1,6) | 2,7(M2,5) | 3,2(M3) | 4,3(M4) | 6,4(M6) | 10,5(M10,5) | 13(M12) | 17(M16) | 21(M20) |

## 4.07 Saiba patrata pentru profil tip "U" (Square taper washer for U sections)

**STANDARD: DIN 434 / STAS 3242**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9(M8) | 11(M10) | 14(M12) | 18(M16) | 22(M20) | 24(M22) | 26(M24) | 30(M27) |

## 4.08 Saiba patrata pentru profil de tip "I" (Square taper washer for I sections)

**STANDARD: DIN 435 / STAS 3242**



| DIMENSIUNI DISPONIBILE | | | | | |
|---|---|---|---|---|---|
| 9(M8) | 11(M10) | 14(M12) | 18(M16) | 22(M20) | 24(M22) |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2; inox A4
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 4.09 Saiba patrata pt lemn (Square washer for wood constructions)

**STANDARD: DIN 436 / ISO 7094 / STAS 7565**



| DIMENSIUNI DISPONIBILE | | | | |
|---|---|---|---|---|
| 11(M10) | 13,5(M12) | 17,5(M16) | 22(M20) | 26(M24) |

## 4.10 Saiba plata serie mare pt lemn (Round washer for wood connections)

**STANDARD: DIN 440 / ISO 7094 / STAS 7565**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5 | 6.6 | 10 | 13.5 | 17.5 | 22 | 26 | 33 | 39 |
| 5.5 | 8 | 11 | 16 | 20 | 24 | 30 | 36 | 42 |
| 6 | 9 | 12 | | | | | | |

## 4.11 Saiba cu crestatura interioara (Internal tab washer)

**STANDARD: DIN 462 / ISO A-1234 / STAS 2241/2242**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8 | 16 | 24 | 32 | 42 | 52 | 62 | 75 | 95 |
| 10 | 18 | 26 | 35 | 45 | 55 | 65 | 80 | 100 |
| 12 | 20 | 28 | 38 | 48 | 58 | 70 | 85 | |
| 14 | 22 | 30 | 40 | 50 | 60 | 72 | 90 | |

## 4.12 Saiba de siguranta cu limba si aripa (Tab washer with long tab and wing)

**STANDARD: DIN 463 / ISO A-1234 / STAS 2241/2243**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4,3(M4) | 6,4(M6) | 10,5(M10) | 15(M14) | 19(M18) | 23(M22) | 25(M24) | 28(M27) | 31(M30) |
| 5,3(M5) | 8,4(M8) | 13(M12) | 17(M16) | 21(M20) | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2; inox A4
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 4.13 Saiba de siguranta cu limba (Tab washers with long tab)

**STANDARD: DIN 93**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5,3(M5) | 8,4(M8) | 13(M12) | 17(M16) | 21(M20) | 25(M24) | 34(M33) | 37(M36) | 43(M42) |
| 6,4(M6) | 10,5(M10) | 15(M14) | 19(M18) | 23(M22) | 31(M30) | | | |

## 4.14 Saiba pentru bolturi (Plain washer for clevis pins)

**STANDARD: DIN 1440 / ISO 8738**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | 6 | 10 | 16 | 22 | 26 | 30 | 35 | 50 |
| 4 | 7 | 12 | 18 | 24 | 27 | 32 | 36 | 60 |
| 5 | 8 | 14 | 20 | 25 | 28 | 33 | 40 | |

## 4.15 Saiba plata (Type coarse washer)

**STANDARD: DIN 1441**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | 6 | 10 | 16 | 22 | 26 | 30 | 35 | 50 |
| 4 | 7 | 12 | 18 | 24 | 27 | 32 | 36 | 60 |
| 5 | 8 | 14 | 20 | 25 | 28 | 33 | 40 | |

## 4.16 Saiba distantier (Shim washer)

**STANDARD: DIN 988**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8X4X0,2 | 12X6X0,3 | 16X10X0,2 | 19X13X1 | 22X16X0,1 | 28X20X0,2 | 35X25X1 | 47X30X0,1 |
| 8X4X0,5 | 12X6X0,5 | 16X10X0,5 | 20X12,5X0,5 | 22X16X0,2 | 28X20X0,3 | 35X25X2 | 47X37X0,2 |
| 10X5X0,1 | 12X6X1 | 16X10X1 | 20X14X0,2 | 22X16X0,3 | 28X20X0,5 | 37X26X0,5 | 50X40X0,1 |
| 10X5X0,2 | 12X8X0,5 | 16X10X2 | 20X14X0,3 | 22X16X0,5 | 28X20X1 | 40X30X0,1 | 50X40X0,5 |
| 10X5X0,3 | 14X8X0,1 | 18X12X0,1 | 20X14X0,5 | 22X16X1 | 30X22X0,1 | 40X30X0,5 | 50X40X2,5 |
| 10X5X0,5 | 14X8X0,2 | 18X12X0,2 | 20X14X1 | 24X17X0,3 | 30X22X0,5 | 42X30X0,1 | 62X50X0,2 |
| 10X5X1 | 14X8X0,3 | 18X12X0,3 | 20X8X1,5 | 24X17X0,5 | 30x22x0,8 | 42X30X0,2 | |
| 12X6X0,1 | 14X8X0,5 | 18X12X0,5 | 21X15X0,2 | 24X17X1 | 30x22x1 | 42X30X0,5 | |
| 12X6X0,15 | 14X8X1 | 18X12X1 | 21X15X0,5 | 25X14X0,5 | 35X25X0,1 | 42X30X1 | |
| 12X6X0,2 | 15X9X1,2 | 19X13X0,2 | 21X15X1 | 26X19X0,5 | 35X25X0,2 | 45X35X0,5 | |
| 12X6X0,25 | 16X10X0,1 | 19X13X0,5 | 21X15X1,5 | 28X20X0,1 | 35X25X0,5 | 45X35X1 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2; inox A4
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 4.17 Arc disc (Disc spring)



**STANDARD: DIN 2093**

| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8x3.2x0.4 | 15x5.2x0.6 | 20x8.2x1 | 28x12.2x1.0 | 40x20.4x2.25 | 63x31x3 | 100x51x2.7 | 140x72x3.8 |
| 8x3.2x0.5 | 15x5.2x0.7 | 20x10.2x0.5 | 28x12.2x1.5 | 40x20.4x2.5 | 63x31x3.5 | 100x51x3.5 | 140x72x5 |
| 8x4.2x0.3 | 15x8.2x0.7 | 20x10.2x0.8 | 28x14.2x0.8 | 45x22.4x1.25 | 70x25.5x2 | 100x51x4 | 140x72x8 |
| 8x4.2x0.4 | 15x8.2x0.8 | 20x10.2x0.9 | 28x14.2x1 | 45x22.4x1.75 | 70x30.5x2.5 | 100x51x5 | 150x61x5 |
| 10x4.2x0.5 | 16x8.2x0.4 | 20x10.2x1 | 28x14.2x1.25 | 45x22.4x2.5 | 70x30.5x3 | 100x51x6 | 150x61x6 |
| 10x5.2x0.25 | 16x8.2x0.6 | 20x10.2x1.1 | 28x14.2x1.5 | 50x20.4x2 | 70x35.5x3 | 112x57x3 | 150x71x6 |
| 10x5.2x0.4 | 16x8.2x0.9 | 22.5x11.2x0.6 | 31.5x16.3x0.8 | 50x20.4x2.5 | 70x35.5x4 | 112x57x4 | 150x71x8 |
| 10x5.2x0.5 | 18x6.2x0.4 | 22.5x11.2x0.8 | 31.5x16.3x1.25 | 50x22.4x2 | 70x40.5x4 | 112x57x6 | 150x81x8 |
| 12x4.2x0.5 | 18x6.2x0.5 | 22.5x11.2x1.25 | 31.5x16.3x1.5 | 50x22.4x2.5 | 70x40.5x5 | 125x51x4 | 150x81x10 |
| 12x4.2x0.6 | 18x6.2x0.6 | 23x8.2x0.7 | 31.5x16.3x1.75 | 50x25.4x1.25 | 71x36x2 | 125x51x5 | |
| 12x5.2x0.5 | 18x6.2x0.7 | 23x8.2x0.8 | 31.5x16.3x2 | 50x25.4x1.5 | 71x36x2.5 | 125x51x6 | |
| 12x5.2x0.6 | 18x6.2x0.8 | 23x8.2x0.9 | 34x16.3x1.5 | 50x25.4x2 | 71x36x4 | 125x61x5 | |
| 12x6.2x0.5 | 18x8.2x0.7 | 23x10.2x0.9 | 34x16.3x2 | 50x25.4x2.5 | 80x31x3 | 125x61x6 | |
| 12x6.2x0.6 | 18x8.2x0.8 | 23x10.2x1 | 35.5x18.3x0.9 | 50x25.4x3 | 80x31x4 | 125x61x8 | |
| 12.5x6.2x0.35 | 18x8.2x1.0 | 23x12.2x1.0 | 35.5x18.3x1.25 | 56x28.5x1.5 | 80x36x3 | 125x64x3.5 | |
| 12.5x6.2x0.5 | 18x9.2x0.45 | 23x12.2x1.25 | 35.5x18.3x2 | 56x28.5x2 | 80x41x3 | 125x64x5 | |
| 12.5x6.2x0.7 | 18x9.2x0.7 | 23x12.2x1.5 | 40x16.3x1.5 | 56x28.5x3 | 80x41x4 | 125x64x6 | |
| 14x7.2x0.35 | 18x9.2x1 | 25x12.2x0.9 | 40x16.3x2 | 60x30.5x2.5 | 80x41x5 | 125x64x7 | |
| 14x7.2x0.5 | 20x8.2x0.6 | 25x12.2x1.5 | 40x18.3x2 | 60x30.5x3 | 90x46x2.5 | 125x64x8 | |
| 14x7.2x0.8 | 20x8.2x0.7 | 28x10.2x0.8 | 40x20.4x1 | 60x30.5x3.5 | 90x46x5 | 125x71x6 | |
| 15x5.2x0.4 | 20x8.2x0.8 | 28x10.2x1 | 40x20.4x1.5 | 63x31x1.8 | 100x41x4 | 125x71x8 | |
| 15x5.2x0.5 | 20x8.2x0.9 | 28x10.2x1.25 | 40x20.4x2 | 63x31x2.5 | 100x41x5 | 125x71x10 | |

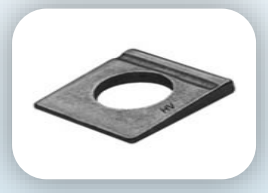
## 4.18 Saiba de inalta rezistenta (Plain washers for high strength structural bolting HV)



**STANDARD: DIN 6916 / EN 14399-6 / ISO 7416**

| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| A12 | A16 | A20 | A22 | A24 | A27 | A30 | A36 |

## 4.19 Saiba patrata de inalta rezistenta profil tip "I" (Square taper washers for I-sections)



**STANDARD: DIN 6917 / EN 14399-7**

| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9(M8) | 11(M10) | 14(M12) | 18(M16) | 22(M20) | 24(M22) | 26(M24) | 30(M27) |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2; inox A4
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 4.20 Saiba patrata de inalta rezistenta profil tip "U" (Square taper washer for U-sections)

**STANDARD: DIN 6918 / EN 14399-8**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9(M8) | 11(M10) | 14(M12) | 18(M16) | 22(M20) | 24(M22) | 26(M24) | 30(M27) |

## 4.21 Saiba Grower (arc) (Spring washers)

**STANDARD: DIN 7980 / STAS 7666/2**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| MN3 | MN6 | MN12 | MN16 | MN20 | MN24 | MN30 | MN36 | MN42 |
| MN4 | MN8 | MN14 | MN18 | MN22 | MN27 | MN33 | MN36 | MN48 |
| MN5 | MN10 | | | | | | | |

## 4.22 Saiba arc pentru rotile autovehiculelor si remorcilor (Spring washers for disc wheels for motor vehicles and trailers)

**STANDARD: DIN 74361C**



| DIMENSIUNI DISPONIBILE | | | | | |
|---|---|---|---|---|---|
| M12X1,5 | M14X1,5 | M16X1,5 | M18X1,5 | M20X1,5 | M22X1,5 |

## 4.23 Saiba dreptunghiulara cu 2 gauri (Tab washers with two holes)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3,2(M3) | 4,3(M4) | 6,4(M6) | 10,5(M10) | 15(M14) | 19(M18) | 23(M22) | 25(M24) | 31(M30) |
| 3,7(M3,5) | 5,3(M5) | 8,4(M8) | 13(M12) | 17(M16) | 21(M20) | | | |

## 4.24 Saiba plata extra-larga pentru lemn (Washers with outside diameter 3xbolt diameter)

**STANDARD: DIN 9021 / ISO 7093**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3X9X0,8 | 5X15X1,2 | 8X24X2 | 12X37X3 | 16X50X3 | 18X56X4 | 20X60X4 | 24X72X5 | 30X92X6 |
| 4X12X1 | 6X18X1,6 | 10X30X2,5 | 14X44X3 | | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2; inox A4
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 4.25 Saiba cu dinti interiori (Lock washers internal teeth)

**STANDARD: DIN 6797J / STAS 10491**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2,2(M2) | 2,8(M2,6) | 4,3(M4) | 6,4(M6) | 8,4(M8) | 13(M12) | 17(M16) | 21(M20) | 25(M24) |
| 2,5(M2,3) | 3,2(M3) | 5,1(M5) | 7,4(M7) | 10,5(M10) | 15(M14) | 19(M18) | 23(M22) | 31(M30) |
| 2,7(M2,5) | 3,7(M3,5) | 5,3(M5) | 8,2(M8) | | | | | |

## 4.26 Saiba cu dinti exteriori (Lock washers external teeth)

**STANDARD: DIN 6797A / STAS 10481**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2,2(M2) | 2,8(M2,6) | 4,3(M4) | 6,4(M6) | 8,4(M8) | 13(M12) | 17(M16) | 21(M20) | 25(M24) |
| 2,5(M2,3) | 3,2(M3) | 5,1(M5) | 7,4(M7) | 10,5(M10) | 15(M14) | 19(M18) | 23(M22) | 31(M30) |
| 2,7(M2,5) | 3,7(M3,5) | 5,3(M5) | 8,2(M8) | | | | | |

## 4.27 Saiba cu crestaturi exterioare (Serrated lock washers)

**STANDARD: DIN 6798A / STAS 11012**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2,2(M2) | 2,7(M2,5) | 3,7(M3,5) | 5,3(M5) | 8,2(M8) | 13(M12) | 19(M18) | 25(M24) | 30(M30) |
| 2,3(M2) | 2,8(M2,7) | 4,3(M4) | 6,4(M6) | 8,4(M8) | 15(M14) | 21(M20) | 28(M27) | 31(30) |
| 2,5(M2,3) | 3,2(M3,5) | 5,1(M5) | 7,4(M7) | 10,5(M10) | 17(M16) | | | |

## 4.28 Saiba cu crestaturi interioare (Serrated lock washers)

**STANDARD: DIN 6798J / STAS 11012**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2,2(M2) | 2,7(M2,5) | 3,7(M3,5) | 5,3(M5) | 8,2(M8) | 13(M12) | 19(M18) | 25(M24) | 30(M30) |
| 2,3(M2) | 2,8(M2,7) | 4,3(M4) | 6,4(M6) | 8,4(M8) | 15(M14) | 21(M20) | 28(M27) | 31(30) |
| 2,5(M2,3) | 3,2(M3,5) | 5,1(M5) | 7,4(M7) | 10,5(M10) | 17(M16) | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2; inox A4
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 4.29 Saiba cu crestaturi exterioare forma V (Serrated lock washers)

**STANDARD: DIN 6798V / STAS 11012**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2,2(M2) | 2,7(M2,5) | 3,7(M3,5) | 5,3(M5) | 8,2(M8) | 13(M12) | 19(M18) | 25(M24) | 30(M30) |
| 2,3(M2) | 2,8(M2,7) | 4,3(M4) | 6,4(M6) | 8,4(M8) | 15(M14) | 21(M20) | 28(M27) | 31(30) |
| 2,5(M2,3) | 3,2(M3,5) | 5,1(M5) | 7,4(M7) | 10,5(M10) | 17(M16) | | | |

## 4.30 Saiba conica tip arc (Conical spring washer for screws connections)

**STANDARD: DIN 6796 / STAS 11132**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| A3 | A5 | A8 | A10 | A12 | A14 | A16 | A20 | A24 |
| A4 | A6 | | | | | | | |

## 4.31 Saiba plata (Flat washers for bolts with heavy type spring pins)

**STANDARD: DIN 7349**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3,2(M3) | 5,3(M5) | 8,4(M8) | 13(M12) | 17(M16) | 19(M18) | 25(M24) | 13(M12) | 31(M30) |
| 4,3(M4) | 6,4(M6) | 10,5(M10) | 15(M14) | 5,3(M5) | 21(M20) | 28(M27) | | |

## 4.32 Saiba pentru constructii de otel (Washers for steel constructions)

**STANDARD: DIN 7989**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| A10 | A18 | A24 | A26 | A30 | A33 | A36 | A39 | A41 |
| A14 | A22 | | | | | | | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2; inox A4
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 4.33 Saiba plata-serie grea (Washer for clamping devices)

**STANDARD: DIN 6340**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6x17x3 | 8x23x4 | 10x28x4 | 12x35x5 | 16x45x6 | 20x50x6 | 24x60x8 | 30x68x10 |

## 4.34 Saiba RIPLOCK (Washers RIPLOCK)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| RL3 | RL10 | RL18 | RL30 | RL45 | RL60 | RL76 | RL95 | RL115 |
| RL4 | RL11 | RL20 | RL33 | RL48 | RL64 | RL80 | RL100 | RL120 |
| RL5 | RL12 | RL22 | RL36 | RL52 | RL68 | RL85 | RL105 | RL125 |
| RL6 | RL14 | RL24 | RL39 | RL56 | RL72 | RL90 | RL110 | RL130 |
| RL8 | RL16 | RL27 | RL42 | | | | | |

## 4.35 Saiba NORDLOCK (Washers NORDLOCK)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NL3 | NL10 | NL18 | NL30 | NL45 | NL60 | NL76 | NL95 | NL115 |
| NL4 | NL11 | NL20 | NL33 | NL48 | NL64 | NL80 | NL100 | NL120 |
| NL5 | NL12 | NL22 | NL36 | NL52 | NL68 | NL85 | NL105 | NL125 |
| NL6 | NL14 | NL24 | NL39 | NL56 | NL72 | NL90 | NL110 | NL130 |
| NL8 | NL16 | NL27 | NL42 | | | | | |

## 4.36 Saiba Schnorr (Washer Schnorr)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,7 | 3,2 | 5,3 | 7,4 | 11,6 | 17 | 21 | 27 | 38 |
| 2,2 | 3,7 | 6,4 | 8,4 | 13 | 19 | 23 | 28,6 | |
| 2,7 | 4,3 | 6,7 | 10,5 | 15 | 20 | 25,6 | 31,6 | |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2; inox A4
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 4.37 Saiba STAR-LOCK (Washer STAR-LOCK)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| A2 | A4 | A6 | A7 | A8 | A10 | A12 | A14 | A16 |
| A3 | A5 | | | | | | | |

## 4.38 Saiba cu striatii (Ribbed lock washers)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | 10 | 18 | 30 | 45 | 60 | 76 | 95 | 115 |
| 4 | 11 | 20 | 33 | 48 | 64 | 80 | 100 | 120 |
| 5 | 12 | 22 | 36 | 52 | 68 | 85 | 105 | 125 |
| 6 | 14 | 24 | 39 | 56 | 72 | 90 | 110 | 130 |
| 8 | 16 | 27 | 42 | | | | | |

## 4.39 Saiba EPDM (WASHERS EPDM)



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5,5X14X1 | 5,5X16X1 | 6,3X16X1 | 6,3X19X1 | 6,3X25X1 | 8,5X19X1 | 8,5X19X1 | 8,5X25X1 |

## 4.40 Saiba sferica (Spherical washer)

**STANDARD: DIN 6319C**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6,4X12X2,3 | 10,5X 21X4 | 13X24X4,6 | 17X30X5,3 | 21X36X6,3 | 25X44X8,2 | 25X44X8,2 | 31X56X11,2 |

## 4.41 Saiba conica (Conical seats)

**STANDARD: DIN 6319D**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7,1X11X2,8 | 9,6X17X3,5 | 12X21X4,2 | 14,2X24X5 | 19X30X6,2 | 23,2X36X7,5 | 28X44X9,5 | 35X56X12 |

- UM: nu impunem o pachetizare minima
- Material: Otel(steel); inox A2; inox A4
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.01 Stift conic forma ``B`` (Taper pins)

**STANDARD: DIN 1 / ISO 2339 / STAS 3436**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1.5 x 10 | 2.5 x 16 | 3 x 36 | 4 x 40 | 5 x 36 | 6 x 45 | 8 x 80 | 10 x 120 | 14 x 50 |
| 1.5 x 12 | 2.5 x 20 | 3 x 40 | 4 x 45 | 5 x 40 | 6 x 50 | 8 x 90 | 10 x 140 | 14 x 60 |
| 1.5 x 14 | 2.5 x 24 | 3 x 45 | 4 x 50 | 5 x 45 | 6 x 60 | 8 x 100 | 12 x 30 | 14 x 70 |
| 1.5 x 16 | 2.5 x 30 | 3 x 50 | 4 x 60 | 5 x 50 | 6 x 70 | 8 x 120 | 12 x 36 | 14 x 80 |
| 1.5 x 20 | 2.5 x 40 | 4 x 10 | 4 x 70 | 5 x 60 | 6 x 80 | 10 x 28 | 12 x 40 | 14 x 90 |
| 2 x 10 | 3 x 10 | 4 x 12 | 4 x 80 | 5 x 70 | 6 x 90 | 10 x 30 | 12 x 45 | 14 x 100 |
| 2 x 12 | 3 x 12 | 4 x 14 | 4 x 100 | 5 x 80 | 6 x 100 | 10 x 32 | 12 x 50 | 14 x 140 |
| 2 x 14 | 3 x 14 | 4 x 16 | 5 x 14 | 5 x 90 | 8 x 24 | 10 x 36 | 12 x 55 | 16 x 40 |
| 2 x 16 | 3 x 16 | 4 x 18 | 5 x 16 | 5 x 100 | 8 x 28 | 10 x 40 | 12 x 60 | 16 x 50 |
| 2 x 18 | 3 x 18 | 4 x 20 | 5 x 18 | 6 x 20 | 8 x 30 | 10 x 45 | 12 x 70 | 16 x 60 |
| 2 x 20 | 3 x 20 | 4 x 22 | 5 x 20 | 6 x 24 | 8 x 32 | 10 x 50 | 12 x 80 | 16 x 70 |
| 2 x 30 | 3 x 22 | 4 x 24 | 5 x 22 | 6 x 26 | 8 x 36 | 10 x 55 | 12 x 90 | 16 x 80 |
| 2 x 36 | 3 x 24 | 4 x 26 | 5 x 24 | 6 x 28 | 8 x 40 | 10 x 60 | 12 x 100 | 16 x 90 |
| 2 x 40 | 3 x 26 | 4 x 28 | 5 x 26 | 6 x 30 | 8 x 45 | 10 x 70 | 12 x 110 | 16 x 100 |
| 2.5 x 10 | 3 x 28 | 4 x 30 | 5 x 28 | 6 x 32 | 8 x 50 | 10 x 80 | 12 x 130 | 16 x 140 |
| 2.5 x 12 | 3 x 30 | 4 x 32 | 5 x 30 | 6 x 36 | 8 x 60 | 10 x 90 | 12 x 150 | 20 x 50 |
| 2.5 x 14 | 3 x 32 | 4 x 36 | 5 x 32 | 6 x 40 | 8 x 70 | 10 x 100 | 14 x 40 | 20 x 60 |

## 5.02 Stift cilindric (Parallel pins)

**STANDARD: DIN 7 / ISO 2338 / STAS 1599**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 x 4 | 2.5 x 8 | 4 x 8 | 5 x 28 | 6 x 45 | 8 x 70 | 10 x 100 | 14 x 32 | 16 x 90 |
| 1 x 6 | 2.5 x 10 | 4 x 10 | 5 x 30 | 6 x 50 | 8 x 80 | 10 x 120 | 14 x 36 | 16 x 100 |
| 1 x 8 | 2.5 x 12 | 4 x 12 | 5 x 32 | 6 x 60 | 8 x 90 | 12 x 14 | 14 x 40 | 16 x 120 |
| 1 x 10 | 2.5 x 14 | 4 x 14 | 5 x 36 | 6 x 70 | 8 x 100 | 12 x 16 | 14 x 45 | 20 x 24 |
| 1 x 12 | 2.5 x 16 | 4 x 16 | 5 x 40 | 6 x 80 | 10 x 10 | 12 x 18 | 14 x 50 | 20 x 28 |
| 1.5 x 4 | 2.5 x 18 | 4 x 18 | 5 x 45 | 6 x 90 | 10 x 12 | 12 x 20 | 14 x 60 | 20 x 30 |
| 1.5 x 6 | 2.5 x 20 | 4 x 20 | 5 x 50 | 6 x 100 | 10 x 14 | 12 x 24 | 14 x 70 | 20 x 32 |
| 1.5 x 8 | 2.5 x 24 | 4 x 24 | 5 x 55 | 8 x 10 | 10 x 16 | 12 x 28 | 14 x 80 | 20 x 36 |
| 1.5 x 10 | 2.5 x 30 | 4 x 28 | 5 x 60 | 8 x 12 | 10 x 18 | 12 x 30 | 14 x 90 | 20 x 40 |
| 1.5 x 12 | 3 x 5 | 4 x 30 | 6 x 6 | 8 x 14 | 10 x 20 | 12 x 32 | 14 x 100 | 20 x 45 |
| 1.5 x 14 | 3 x 6 | 4 x 32 | 6 x 8 | 8 x 16 | 10 x 24 | 12 x 36 | 14 x 120 | 20 x 50 |
| 1.5 x 16 | 3 x 8 | 4 x 36 | 6 x 10 | 8 x 18 | 10 x 28 | 12 x 40 | 16 x 20 | 20 x 60 |
| 2 x 6 | 3 x 10 | 4 x 40 | 6 x 12 | 8 x 20 | 10 x 30 | 12 x 45 | 16 x 24 | 20 x 70 |
| 2 x 8 | 3 x 12 | 4 x 45 | 6 x 14 | 8 x 24 | 10 x 32 | 12 x 50 | 16 x 28 | 20 x 80 |
| 2 x 10 | 3 x 14 | 4 x 50 | 6 x 16 | 8 x 28 | 10 x 36 | 12 x 60 | 16 x 30 | 20 x 90 |
| 2 x 12 | 3 x 16 | 5 x 8 | 6 x 18 | 8 x 30 | 10 x 40 | 12 x 70 | 16 x 32 | 20 x 100 |
| 2 x 14 | 3 x 18 | 5 x 10 | 6 x 20 | 8 x 32 | 10 x 45 | 12 x 80 | 16 x 36 | 20 x 120 |
| 2 x 16 | 3 x 20 | 5 x 12 | 6 x 24 | 8 x 36 | 10 x 50 | 12 x 90 | 16 x 40 | |
| 2 x 18 | 3 x 24 | 5 x 14 | 6 x 28 | 8 x 40 | 10 x 55 | 12 x 100 | 16 x 45 | |
| 2 x 20 | 3 x 28 | 5 x 16 | 6 x 30 | 8 x 45 | 10 x 60 | 12 x 120 | 16 x 50 | |
| 2 x 24 | 3 x 30 | 5 x 18 | 6 x 32 | 8 x 50 | 10 x 70 | 14 x 24 | 16 x 60 | |
| 2 x 30 | 3 x 32 | 5 x 20 | 6 x 36 | 8 x 55 | 10 x 80 | 14 x 28 | 16 x 70 | |
| 2.5 x 6 | 3 x 40 | 5 x 24 | 6 x 40 | 8 x 60 | 10 x 90 | 14 x 30 | 16 x 80 | |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.03 Stift conic cu cep filetat (Taper pins with thread ends and constant taper lengths)

**STANDARD: DIN 258**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5 x 8 | 6 x 8 | 6 x 90 | 8 x 70 | 10 x 55 | 12 x 50 | 14 x 90 | 20 x 24 | 25x100 |
| 5 x 10 | 6 x 10 | 6 x 100 | 8 x 80 | 10 x 60 | 12 x 60 | 14 x 100 | 20 x 28 | 30x24 |
| 5 x 12 | 6 x 12 | 8 x 10 | 8 x 90 | 10 x 70 | 12 x 70 | 14 x 120 | 20 x 30 | 30xx28 |
| 5 x 14 | 6 x 14 | 8 x 12 | 8 x 100 | 10 x 80 | 12 x 80 | 16 x 20 | 20 x 32 | 30x30 |
| 5 x 16 | 6 x 16 | 8 x 14 | 10 x 10 | 10 x 90 | 12 x 90 | 16 x 24 | 20 x 36 | 30x32 |
| 5 x 18 | 6 x 18 | 8 x 16 | 10 x 12 | 10 x 100 | 12 x 100 | 16 x 28 | 20 x 40 | 30x36 |
| 5 x 20 | 6 x 20 | 8 x 18 | 10 x 14 | 10 x 120 | 12 x 120 | 16 x 30 | 20 x 45 | 30x40 |
| 5 x 24 | 6 x 24 | 8 x 20 | 10 x 16 | 12 x 14 | 14 x 24 | 16 x 32 | 20 x 50 | 30x50 |
| 5 x 28 | 6 x 28 | 8 x 24 | 10 x 18 | 12 x 16 | 14 x 28 | 16 x 36 | 20 x 60 | 30x60 |
| 5 x 30 | 6 x 30 | 8 x 28 | 10 x 20 | 12 x 18 | 14 x 30 | 16 x 40 | 20 x 70 | 30x70 |
| 5 x 32 | 6 x 32 | 8 x 30 | 10 x 24 | 12 x 20 | 14 x 32 | 16 x 45 | 20 x 80 | 30x80 |
| 5 x 36 | 6 x 36 | 8 x 32 | 10 x 28 | 12 x 24 | 14 x 36 | 16 x 50 | 20 x 90 | 30x90 |
| 5 x 40 | 6 x 40 | 8 x 36 | 10 x 30 | 12 x 28 | 14 x 40 | 16 x 60 | 20 x 100 | 30x100 |
| 5 x 45 | 6 x 45 | 8 x 40 | 10 x 32 | 12 x 30 | 14 x 45 | 16 x 70 | 20 x 120 | |
| 5 x 50 | 6 x 50 | 8 x 45 | 10 x 36 | 12 x 32 | 14 x 50 | 16 x 80 | 25x24 | |
| 5 x 55 | 6 x 60 | 8 x 50 | 10 x 40 | 12 x 36 | 14 x 60 | 16 x 90 | 25x28 | |
| 5 x 60 | 6 x 70 | 8 x 55 | 10 x 45 | 12 x 40 | 14 x 70 | 16 x 100 | 25x50 | |
| 6 x 6 | 6 x 80 | 8 x 60 | 10 x 50 | 12 x 45 | 14 x 80 | 16 x 120 | 25x80 | |

## 5.04 Stift de pasuire (Groved pins, half length grooved with gorge)

**STANDARD: DIN 1469C**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2X8 | 3X8 | 4X8 | 4X20 | 5X30 | 5X25 | 5X40 | 8X30 | 8X20 |
| 2X20 | 3X10 | 4X10 | 4X25 | 6X30 | 6X25 | 5X50 | 6X40 | 8X25 |
| 2X25 | 3X20 | 5X10 | 4X30 | 6X35 | 8X35 | 6X10 | 6X45 | 8X45 |
| 3X5 | 3X25 | 5X32 | 4X40 | 5X20 | 8X40 | 6X20 | 6X50 | 8X50 |
| 3X6 | 3X30 | 5X36 | 5X8 | | | | | |

## 5.05 Stift de pasuire cu con de introducere (Full-length parallel grooved pins with pilot)

**STANDARD: DIN 1470 / ISO 8739**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,5X6 | 2,5X6 | 3X8 | 3X30 | 4X30 | 5X22 | 6X10 | 6X50 | 10X20 |
| 2X8 | 2,5X8 | 3X10 | 4X8 | 4X40 | 5X25 | 6X16 | 8X20 | 10X50 |
| 2X10 | 2,5X10 | 3X12 | 4X10 | 5X8 | 5X28 | 6X20 | 8X25 | 16X20 |
| 2X12 | 2,5X12 | 3X16 | 4X12 | 5X10 | 5X30 | 6X25 | 8X30 | 16X50 |
| 2X14 | 2,5X16 | 3X18 | 4X16 | 5X12 | 5X32 | 6X30 | 8X35 | 20X20 |
| 2X18 | 2,5X20 | 3X20 | 4X18 | 5X16 | 5X36 | 6X35 | 8X40 | 20X50 |
| 2X20 | 3X5 | 3X22 | 4X20 | 5X18 | 5X40 | 6X40 | 8X45 | 25X20 |
| 2X25 | 3X6 | 3X25 | 4X25 | 5X20 | 5X50 | 6X45 | 8X50 | 25X50 |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.06 Stift etansare (Full-length taper grooved pin)

**STANDARD: DIN 1471 / ISO 8744 / STAS 7803**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,5X6 | 2,5X6 | 3X8 | 3X30 | 4X30 | 5X22 | 6X10 | 6X50 | 10X20 |
| 2X8 | 2,5X8 | 3X10 | 4X8 | 4X40 | 5X25 | 6X16 | 8X20 | 10X50 |
| 2X10 | 2,5X10 | 3X12 | 4X10 | 5X8 | 5X28 | 6X20 | 8X25 | 16X20 |
| 2X12 | 2,5X12 | 3X16 | 4X12 | 5X10 | 5X30 | 6X25 | 8X30 | 16X50 |
| 2X14 | 2,5X16 | 3X18 | 4X16 | 5X12 | 5X32 | 6X30 | 8X35 | 20X20 |
| 2X18 | 2,5X20 | 3X20 | 4X18 | 5X16 | 5X36 | 6X35 | 8X40 | 20X50 |
| 2X20 | 3X5 | 3X22 | 4X20 | 5X18 | 5X40 | 6X40 | 8X45 | 25X20 |
| 2X25 | 3X6 | 3X25 | 4X25 | 5X20 | 5X50 | 6X45 | 8X50 | 25X50 |

## 5.07 Stift etansare (Half-length taper grooved pin)

**STANDARD: DIN 1472 / ISO 8745 / STAS 7803**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,5X6 | 2X20 | 3X12 | 4X14 | 4X40 | 5X28 | 6X20 | 6X60 | 8X45 |
| 1,5X8 | 2,5X6 | 3X14 | 4X16 | 5X10 | 5X30 | 6X22 | 8X16 | 8X50 |
| 2X4 | 2,5X8 | 3X16 | 4X18 | 5X12 | 5X32 | 6X24 | 8X20 | 8X60 |
| 2X6 | 2,5X10 | 3X18 | 4X20 | 5X14 | 5X36 | 6X26 | 8X24 | 10X50 |
| 2X8 | 2,5X12 | 3X20 | 4X22 | 5X16 | 5X40 | 6X28 | 8X26 | 16X20 |
| 2X10 | 2,5X14 | 3X24 | 4X24 | 5X18 | 5X45 | 6X30 | 8X28 | 16X50 |
| 2X12 | 2,5X16 | 3X28 | 4X26 | 5X20 | 6X10 | 6X32 | 8X30 | 20X20 |
| 2X14 | 3X6 | 3X30 | 4X30 | 5X22 | 6X12 | 6X36 | 8X32 | 20X50 |
| 2X16 | 3X8 | 4X10 | 4X32 | 5X24 | 6X14 | 6X40 | 8X36 | 25X20 |
| 2X18 | 3X10 | 4X12 | 4X36 | 5X26 | 6X16 | 6X50 | 8X40 | 25X50 |

## 5.08 Stift pasuire (Full-length parallel grooved pin with chamfer)

**STANDARD: DIN 1473 / ISO 8740 / STAS 7464**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1X6 | 2,5X8 | 3X16 | 4X20 | 5X18 | 6X12 | 6X60 | 8X70 | 14x25 |
| 1,5X5 | 2,5X10 | 3X18 | 4X22 | 5X20 | 6X16 | 6X70 | 8X80 | 14x28 |
| 1,5X8 | 2,5X12 | 3X20 | 4X25 | 5X25 | 6X18 | 6X80 | 10X16 | 14x30 |
| 2X4 | 2,5X14 | 3X24 | 4X28 | 5X28 | 6X20 | 8X12 | 10X20 | 14x40 |
| 2X5 | 2,5X16 | 3X25 | 4X30 | 5X30 | 6X24 | 8X16 | 10X25 | 14x50 |
| 2X6 | 2,5X20 | 3X30 | 4X32 | 5X35 | 6X25 | 8X20 | 10X30 | 14x60 |
| 2X8 | 2,5X24 | 3X35 | 4X35 | 5X36 | 6X30 | 8X25 | 10X40 | 14x70 |
| 2X10 | 3X6 | 3X40 | 4X40 | 5X40 | 6X35 | 8X30 | 10X45 | 14x80 |
| 2X12 | 3X7 | 4X8 | 4X50 | 5X42 | 6X36 | 8X35 | 10X50 | 14x90 |
| 2X16 | 3X8 | 4X10 | 4X60 | 5X45 | 6X40 | 8X40 | 10X55 | |
| 2X20 | 3X10 | 4X12 | 5X10 | 5X60 | 6X45 | 8X45 | 10X60 | |
| 2X25 | 3X12 | 4X16 | 5X12 | 5X70 | 6X50 | 8X50 | 12X24 | |
| 2X30 | 3X14 | 4X18 | 5X16 | 6X10 | 6X54 | 8X60 | 14x24 | |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.09 Stift (Half-length reverse-taper grooved pin)

**STANDARD: DIN 1474 / ISO 8741**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2,5X10 | 2X6 | 3X20 | 4X16 | 5X12 | 6X12 | 6X32 | 8X36 | 16X50 |
| 2,5X12 | 2X8 | 3X24 | 4X20 | 5X14 | 6X14 | 6X36 | 8X40 | 20X20 |
| 2,5X8 | 3X10 | 3X8 | 4X24 | 5X16 | 6X16 | 6X40 | 8X50 | 20X50 |
| 2X10 | 3X12 | 4X10 | 4X30 | 5X20 | 6X20 | 8X20 | 10X20 | 25X20 |
| 2X12 | 3X14 | 4X12 | 4X8 | 5X24 | 6X24 | 8X24 | 10X50 | 25X50 |
| 2X5 | 3X16 | 4X14 | 5X10 | 5X30 | 6X28 | 8X30 | 16X20 | |

## 5.10 Stift (One-third-length centre grooved pin)

**STANDARD: DIN 1475 / ISO 8742**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2X12 | 2,5X12 | 3X25 | 5X14 | 6X25 | 8X24 | 10X20 | 16X50 | 25X20 |
| 2X14 | 3X14 | 4X16 | 5X18 | 6X26 | 8X30 | 10X50 | 20X20 | 25X50 |
| 2X16 | 3X15 | 4X20 | 5X25 | 6X32 | 8X36 | 16X20 | 20X50 | |
| 2X20 | 3X20 | 4X24 | 5X40 | 6X40 | 8X40 | | | |
| 2X36 | 3X22 | 4X28 | 6X22 | 8X20 | 8X50 | | | |

## 5.11 Stift elastic serie grea (Spring-type straight pins)

**STANDARD: DIN 1481 / ISO 8752 / STAS 9729/2**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1X4 | 2X6 | 3X30 | 4X16 | 5X40 | 7X30 | 10X10 | 12X24 | 14X70 |
| 1X5 | 2X8 | 3X32 | 4X18 | 5X45 | 7X40 | 10X12 | 12X26 | 14X80 |
| 1X6 | 2,5X4 | 3X36 | 4X20 | 5X50 | 7X50 | 10X14 | 12X30 | 14X90 |
| 1X8 | 2,5X5 | 3X40 | 4X22 | 5X55 | 7X60 | 10X16 | 12X32 | 14X100 |
| 1X10 | 2,5X6 | 3X45 | 4X24 | 5X60 | 7X70 | 10X18 | 12X36 | 16X30 |
| 1X12 | 2,5X8 | 3X50 | 4X26 | 5X70 | 7X80 | 10X20 | 12X40 | 16X36 |
| 1,5X4 | 2,5X10 | 3,5X6 | 4X28 | 5X80 | 8X10 | 10X22 | 12X45 | 16X40 |
| 1,5X5 | 2,5X12 | 3,5X8 | 4X30 | 6X10 | 8X12 | 10X24 | 12X50 | 16X45 |
| 1,5X6 | 2,5X14 | 3,5X10 | 4X32 | 6X100 | 8X14 | 10X26 | 12X55 | 16X50 |
| 1,5X8 | 2,5X16 | 3,5X12 | 4X36 | 6X12 | 8X16 | 10X28 | 12X60 | 16X55 |
| 1,5X10 | 2,5X18 | 3,5X14 | 4X40 | 6X14 | 8X18 | 10X30 | 12X65 | 16X60 |
| 1,5X12 | 2,5X20 | 3,5X16 | 4X45 | 6X16 | 8X20 | 10X32 | 12X70 | 16X70 |
| 1,5X14 | 2,5X22 | 3,5X18 | 4X50 | 6X18 | 8X22 | 10X36 | 12X80 | 16X80 |
| 1,5X16 | 2,5X24 | 3,5X20 | 4X60 | 6X20 | 8X24 | 10X40 | 12X90 | 16X90 |
| 1,5X18 | 2,5X26 | 3,5X22 | 4,5X10 | 6X22 | 8X26 | 10X45 | 13X28 | 16X100 |
| 1,5X20 | 2,5X28 | 3,5X24 | 4,5X24 | 6X24 | 8X28 | 10X50 | 13X30 | 16X120 |
| 2X10 | 2,5X30 | 3,5X26 | 5X6 | 6X26 | 8X30 | 10X55 | 13X32 | 20X36 |
| 2X12 | 3X4 | 3,5X28 | 5X8 | 6X28 | 8X32 | 10X60 | 13X36 | 20X40 |
| 2X14 | 3X5 | 3,5X30 | 5X10 | 6X30 | 8X36 | 10X65 | 13X40 | 20X50 |
| 2X16 | 3X6 | 3,5X32 | 5X12 | 6X32 | 8X40 | 10X70 | 13X45 | 20X60 |
| 2X18 | 3X8 | 3,5X36 | 5X14 | 6X36 | 8X45 | 10X75 | 13X50 | 20X70 |
| 2X20 | 3X10 | 3,5X40 | 5X16 | 6X40 | 8X50 | 10X80 | 13X60 | 20X80 |
| 2X22 | 3X12 | 3,5X45 | 5X18 | 6X45 | 8X55 | 10X90 | 13X70 | 20X90 |
| 2X24 | 3X14 | 3,5X50 | 5X20 | 6X50 | 8X60 | 10X100 | 13X80 | 20X100 |
| 2X26 | 3X16 | 4X4 | 5X22 | 6X55 | 8X65 | 10X120 | 13X90 | 20X120 |
| 2X28 | 3X18 | 4X5 | 5X24 | 6X60 | 8X70 | 12X100 | 13X100 | 20x140 |
| 2X30 | 3X20 | 4X6 | 5X26 | 6X65 | 8X75 | 12X120 | 14X30 | 20x160 |
| 2X36 | 3X22 | 4X8 | 5X28 | 6X70 | 8X80 | 12X14 | 14X36 | |
| 2X4 | 3X24 | 4X10 | 5X30 | 6X75 | 8X90 | 12X140 | 14X40 | |
| 2X40 | 3X26 | 4X12 | 5X32 | 6X80 | 8X100 | 12X16 | 14X50 | |
| 2X5 | 3X28 | 4X14 | 5X36 | 6X90 | 8X120 | 12X20 | 14X60 | |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.12 Stift cilindric (Parallel pin)



**STANDARD: DIN 6325 / ISO 8734**

| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 m 6 x 6 | 3 m 6 x 10 | 4 m 6 x 20 | 5 m 6 x 28 | 6 m 6 x 32 | 8 m 6 x 55 | 10 m 6 x 80 | 14 m 6 x 50 |
| 2 m 6 x 8 | 3 m 6 x 12 | 4 m 6 x 24 | 5 m 6 x 30 | 6 m 6 x 36 | 8 m 6 x 60 | 10 m 6 x 90 | 14 m 6 x 60 |
| 2 m 6 x 10 | 3 m 6 x 14 | 4 m 6 x 26 | 5 m 6 x 32 | 6 m 6 x 40 | 8 m 6 x 70 | 10 m 6 x 100 | 14 m 6 x 70 |
| 2 m 6 x 12 | 3 m 6 x 16 | 4 m 6 x 28 | 5 m 6 x 36 | 6 m 6 x 45 | 8 m 6 x 80 | 10 m 6 x 120 | 14 m 6 x 80 |
| 2 m 6 x 14 | 3 m 6 x 18 | 4 m 6 x 30 | 5 m 6 x 40 | 6 m 6 x 50 | 8 m 6 x 90 | 12 m 6 x 20 | 14 m 6 x 100 |
| 2 m 6 x 16 | 3 m 6 x 20 | 4 m 6 x 32 | 5 m 6 x 45 | 6 m 6 x 55 | 8 m 6 x 100 | 12 m 6 x 24 | 16 m 6 x 40 |
| 2 m 6 x 18 | 3 m 6 x 24 | 4 m 6 x 36 | 5 m 6 x 50 | 6 m 6 x 60 | 8 m 6 x 120 | 12 m 6 x 28 | 16 m 6 x 45 |
| 2 m 6 x 20 | 3 m 6 x 26 | 4 m 6 x 40 | 5 m 6 x 60 | 6 m 6 x 70 | 10 m 6 x 16 | 12 m 6 x 30 | 16 m 6 x 50 |
| 2 m 6 x 24 | 3 m 6 x 28 | 4 m 6 x 45 | 5 m 6 x 70 | 8 m 6 x 16 | 10 m 6 x 20 | 12 m 6 x 32 | 16 m 6 x 55 |
| 2.5 m 6 x 6 | 3 m 6 x 30 | 4 m 6 x 50 | 6 m 6 x 8 | 8 m 6 x 18 | 10 m 6 x 24 | 12 m 6 x 36 | 16 m 6 x 60 |
| 2.5 m 6 x 8 | 3 m 6 x 32 | 4 m 6 x 60 | 6 m 6 x 10 | 8 m 6 x 20 | 10 m 6 x 28 | 12 m 6 x 40 | 16 m 6 x 70 |
| 2.5 m 6 x 10 | 3 m 6 x 40 | 5 m 6 x 8 | 6 m 6 x 12 | 8 m 6 x 24 | 10 m 6 x 30 | 12 m 6 x 45 | 16 m 6 x 80 |
| 2.5 m 6 x 12 | 3 m 6 x 50 | 5 m 6 x 10 | 6 m 6 x 14 | 8 m 6 x 26 | 10 m 6 x 32 | 12 m 6 x 50 | 16 m 6 x 90 |
| 2.5 m 6 x 14 | 4 m 6 x 6 | 5 m 6 x 12 | 6 m 6 x 16 | 8 m 6 x 28 | 10 m 6 x 36 | 12 m 6 x 55 | 16 m 6 x 100 |
| 2.5 m 6 x 16 | 4 m 6 x 8 | 5 m 6 x 14 | 6 m 6 x 18 | 8 m 6 x 30 | 10 m 6 x 40 | 12 m 6 x 60 | 16 m 6 x 120 |
| 2.5 m 6 x 18 | 4 m 6 x 10 | 5 m 6 x 16 | 6 m 6 x 20 | 8 m 6 x 32 | 10 m 6 x 45 | 12 m 6 x 70 | 20 m 6 X 50 |
| 2.5 m 6 x 20 | 4 m 6 x 12 | 5 m 6 x 18 | 6 m 6 x 24 | 8 m 6 x 36 | 10 m 6 x 50 | 12 m 6 x 80 | 20 m 6 X 60 |
| 2.5 m 6 x 24 | 4 m 6 x 14 | 5 m 6 x 20 | 6 m 6 x 26 | 8 m 6 x 40 | 10 m 6 x 55 | 12 m 6 x 90 | 20 m 6 X 80 |
| 3 m 6 x 6 | 4 m 6 x 16 | 5 m 6 x 24 | 6 m 6 x 28 | 8 m 6 x 45 | 10 m 6 x 60 | 12 m 6 x 100 | 20 m 6 X 100 |
| 3 m 6 x 8 | 4 m 6 x 18 | 5 m 6 x 26 | 6 m 6 x 30 | 8 m 6 x 50 | 10 m 6 x 70 | 12 m 6 x 120 | 20 m 6 X 120 |

## 5.13 Stift conic cu filet exterior (Taper pin with external thread unhardened)



**STANDARD: DIN 7977 / ISO 8737**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5X40 | 6X50 | 8X50 | 8X75 | 10X85 | 12X100 | 16X120 | 25X85 | 30X100 |
| 5X45 | 6X55 | 8X55 | 8X85 | 10X100 | 12X120 | 20X85 | 25X100 | 30X120 |
| 5X50 | 6X60 | 8X60 | 10X65 | 10X120 | 14X85 | 20X100 | 25X120 | |
| 6X45 | 6X85 | 8X65 | 10X75 | 12X85 | 16X100 | 20X120 | 30X85 | |

## 5.14 Stift conic cu filet interior (Taper pin hole drills)



**STANDARD: DIN 7978A / ISO 8736A / STAS 7805**

| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6X20 | 6X60 | 8X50 | 10X45 | 12X40 | 14X50 | 16X90 | 25X60 | 40X70 |
| 6X24 | 6X70 | 8X55 | 10X50 | 12X45 | 14X60 | 16X100 | 25X70 | 40X100 |
| 6X26 | 8X20 | 8X60 | 10X55 | 12X50 | 14X80 | 16X120 | 25X100 | 40X120 |
| 6X28 | 8X24 | 8X70 | 10X60 | 12X55 | 14X90 | 16X130 | 25X120 | |
| 6X32 | 8X26 | 8X80 | 10X70 | 12X70 | 16X40 | 20X40 | 30X40 | |
| 6X36 | 8X28 | 8X90 | 10X80 | 12X80 | 16X45 | 20X60 | 30X60 | |
| 6X40 | 8X30 | 8X100 | 10X100 | 12X90 | 16X50 | 20X70 | 30X70 | |
| 6X45 | 8X32 | 10X30 | 10X120 | 12X100 | 16X55 | 20X100 | 30X100 | |
| 6X50 | 8X36 | 10X36 | 12X32 | 12X120 | 16X60 | 20X120 | 30X120 | |
| 6X55 | 8X40 | 10X40 | 12X36 | 14X40 | 16X80 | 25X40 | 40X40 | |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.15 Stift cilindric cu filet interior (Taper pin hole drills)

**STANDARD: DIN 7979D / ISO 8735A; ISO 8733**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5X10 | 5X40 | 6X50 | 8X60 | 10X55 | 12X55 | 14X80 | 16X100 | 25X100 |
| 5X12 | 5X45 | 6X60 | 8X70 | 10X60 | 12X60 | 14X90 | 16X120 | 25X120 |
| 5X14 | 6X16 | 8X20 | 8X80 | 10X70 | 12X70 | 14X100 | 20X50 | 30X40 |
| 5X16 | 6X20 | 8X24 | 10X24 | 10X80 | 12X80 | 14X120 | 20X60 | 30X60 |
| 5X18 | 6X24 | 8X28 | 10X28 | 10X100 | 12X90 | 16X40 | 20X70 | 30X70 |
| 5X20 | 6X28 | 8X30 | 10X30 | 12X30 | 12X100 | 16X45 | 20X80 | 30X100 |
| 5X24 | 6X30 | 8X32 | 10X32 | 12X32 | 12X120 | 16X50 | 20X90 | 30X120 |
| 5X28 | 6X32 | 8X36 | 10X36 | 12X36 | 14X40 | 16X60 | 20X100 | 40X40 |
| 5X30 | 6X36 | 8X40 | 10X40 | 12X40 | 14X50 | 16X70 | 20X120 | 40X70 |
| 5X32 | 6X40 | 8X45 | 10X45 | 12X45 | 14X60 | 16X80 | 25X60 | 40X100 |
| 5X36 | 6X45 | 8X50 | 10X50 | 12X50 | 14X70 | 16X90 | 25X70 | 40X120 |

## 5.16 Stift elastic spiralat, serie grea (Spring-type straight pin (coiled, standard duty))

**STANDARD: DIN 7343 / ISO 8750 / STAS 9729/5**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 x 10 | 2.5 x 16 | 3 x 16 | 4 x 24 | 5 x 30 | 8 x 40 | 10 x 40 | 10 x 70 | 12 x 50 |
| 2 x 12 | 2.5 x 20 | 3 x 20 | 4 x 30 | 6 x 20 | 8 x 50 | 10 x 50 | 12 x 40 | 12 x 70 |
| 2 x 16 | 3 x 10 | 3 x 24 | 5 x 20 | 6 x 30 | | | | |
| 2.5 x 14 | 3 x 12 | 4 x 20 | 5 x 24 | 6 x 40 | | | | |

## 5.17 Stifturi spiralate (Spring-type straight pin (coiled, heavy duty))

**STANDARD: DIN 7344 / ISO 8748 / STAS 9729/6**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 |

## 5.18 Stifturi crestate serie usoara (Spring-type straight pin (slotted, light duty))

**STANDARD: DIN 7346 / ISO ~13337 / STAS 9729/3**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | 3 | 4 | 6 | 10 | 16 | 20 | 23 | 28 |
| 2.5 | 3.5 | 5 | 8 | 12 | 18 | 21 | 25 | 30 |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.19 Stifturi serie grea zimtat (Heavy-duty spring tension pin with serrated slot)

**STANDARD: VSM 12786**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.5 | 5 | 8 | 12 | 18 | 22 | 28 | 40 |
| 1.5 | 3 | 6 | 10 | 16 | 20 | 25 | 30 | 50 |
| 2 | 4 | | | | | | | |

## 5.20 Stifturi fara cap (Clevis pin without head)

**STANDARD: DIN 1433 / ISO 2340**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | 6 | 10 | 18 | 22 | 28 | 40 | 60 | 90 |
| 4 | 8 | 12 | 20 | 25 | 30 | 50 | 70 | 100 |

## 5.21 Stift cu crestatura, cap inecat/rotund (Round-head and countersunk head grooved pin)

**STANDARD: DIN 1476; DIN 1477 / ISO 8746; ISO 8747**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | 3 | 4 | 6 | 10 | 16 | 20 | 23 | 28 |
| 2.5 | 3.5 | 5 | 8 | 12 | 18 | 21 | 25 | 30 |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.22 Stift partial filetat cu crestatura (Partially threaded pin notch )

**STANDARD: DIN 427**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M4x8 | M4x20 | M5x10 | M5x25 | M6x16 | M6x30 | M8x25 | M8x40 | M10x30 |
| M4x10 | M4x25 | M5x12 | M5x30 | M6x20 | M8x16 | M8x30 | M10x20 | M10x35 |
| M4x12 | M4x30 | M5x16 | M6x10 | M6x25 | M8x20 | M8x35 | M10x25 | M10x40 |
| M4x16 | M5x8 | M5x20 | M6x12 | | | | | |

## 5.23 Pana paralela forma ``A`` (Parallel keys)

**STANDARD: DIN 6885 / ISO R773**



| DIMENSIUNI DISPONIBILE | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2X2X6 | 4X4X36 | 5X5X60 | 6X6X70 | 8X7X36 | 10X8X40 | 12X8X80 | 18X11X63 |
| 2X2X8 | 4X4X40 | 6X4X12 | 6X6X80 | 8X7X40 | 10X8X45 | 12X8X90 | 18X11X70 |
| 2X2X10 | 4X4X45 | 6X4X14 | 6X6X90 | 8X7X45 | 10X8X50 | 14X9X30 | 18X11X80 |
| 2X2X12 | 4X4X50 | 6X4X16 | 6X6X100 | 8X7X50 | 10X8X56 | 14X9X32 | 18X11X90 |
| 2X2X14 | 4X4X56 | 6X4X18 | 8X5X16 | 8X7X56 | 10X8X60 | 14X9X36 | 18X11X100 |
| 2X2X16 | 5X3X8 | 6X4X20 | 8X5X18 | 8X7X60 | 10X8X63 | 14X9X40 | 20X12X45 |
| 2X2X20 | 5X3X10 | 6X4X22 | 8X5X20 | 8X7X63 | 10X8X70 | 14X9X45 | 20X12X50 |
| 3X3X6 | 5X3X12 | 6X4X25 | 8X5X22 | 8X7X70 | 10X8X80 | 14X9X50 | 20X12X60 |
| 3X3X8 | 5X3X14 | 6X4X28 | 8X5X25 | 8X7X75 | 10X8X90 | 14X9X56 | 20X12X70 |
| 3X3X10 | 5X3X16 | 6X4X32 | 8X5X28 | 8X7X80 | 10X8X100 | 14X9X60 | 20X12X75 |
| 3X3X12 | 5X3X18 | 6X4X40 | 8X5X30 | 8X7X90 | 10X8X125 | 14X9X63 | 20X12X80 |
| 3X3X14 | 5X3X20 | 6X4X50 | 8X5X32 | 8X7X125 | 12X6X25 | 14X9X70 | 20X12X90 |
| 3X3X16 | 5X3X25 | 6X4X60 | 8X5X36 | 8X7X140 | 12X6X30 | 14X9X80 | 20X12X100 |
| 3X3X18 | 5X3X28 | 6X6X10 | 8X5X40 | 10X6X25 | 12X6X32 | 14X9X90 | 20X12X120 |
| 3X3X20 | 5X5X8 | 6X6X12 | 8X5X45 | 10X6X28 | 12X6X40 | 14X9X100 | 22X14X60 |
| 3X3X22 | 5X5X10 | 6X6X14 | 8X5X50 | 10X6X30 | 12X6X50 | 14X9X110 | 22X14X70 |
| 3X3X25 | 5X5X12 | 6X6X16 | 8X5X56 | 10X6X32 | 12X8X100 | 14X9X125 | 22X14X80 |
| 3X3X28 | 5X5X14 | 6X6X18 | 8X5X63 | 10X6X36 | 12X8X18 | 14X9X140 | 22X14X90 |
| 4X4X6 | 5X5X16 | 6X6X20 | 8X5X80 | 10X6X40 | 12X8X20 | 16X10X40 | 22X14X100 |
| 4X4X8 | 5X5X18 | 6X6X22 | 8X7X100 | 10X6X50 | 12X8X25 | 16X10X45 | 25X14X70 |
| 4X4X10 | 5X5X20 | 6X6X25 | 8X7X110 | 10X6X60 | 12X8X28 | 16X10X50 | 25X14X80 |
| 4X4X12 | 5X5X22 | 6X6X28 | 8X7X12 | 10X6X70 | 12X8X30 | 16X10X56 | 25X14X90 |
| 4X4X14 | 5X5X25 | 6X6X30 | 8X7X14 | 10X8X16 | 12X8X32 | 16X10X60 | 25X14X100 |
| 4X4X16 | 5X5X28 | 6X6X32 | 8X7X16 | 10X8X18 | 12X8X36 | 16X10X63 | 25X14X110 |
| 4X4X18 | 5X5X30 | 6X6X36 | 8X7X18 | 10X8X20 | 12X8X40 | 16X10X70 | 25X14X120 |
| 4X4X20 | 5X5X32 | 6X6X40 | 8X7X20 | 10X8X22 | 12X8X45 | 16X10X80 | 28X16X125 |
| 4X4X22 | 5X5X36 | 6X6X45 | 8X7X22 | 10X8X25 | 12X8X50 | 16X10X90 | |
| 4X4X25 | 5X5X40 | 6X6X50 | 8X7X25 | 10X8X28 | 12X8X56 | 16X10X100 | |
| 4X4X28 | 5X5X45 | 6X6X56 | 8X7X28 | 10X8X30 | 12X8X60 | 18X11X40 | |
| 4X4X30 | 5X5X50 | 6X6X60 | 8X7X30 | 10X8X32 | 12X8X63 | 18X11X50 | |
| 4X4X32 | 5X5X56 | 6X6X63 | 8X7X32 | 10X8X36 | 12X8X70 | 18X11X60 | |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.24 Pana subtire (Thin taper keys)

**STANDARD: DIN 6883**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,5 x 2,6 | 3 x 3,7 | 4 x 5 | 5 x 6.5 | 5 x 10 | 6 x 10 | 8 x 9 | 8 x 13 | 10 x 13 |
| 2 x 2,6 | 3 x 5 | 4 x 6.5 | 5 x 7.5 | 6 x 7.5 | 6 x 11 | 8 x 11 | 10 x 11 | 10X16 |
| 2 x 3,7 | 3 x 6.5 | 4 x 7.5 | 5 x 9 | 6 x 9 | | | | |

## 5.25 Pana dreapta (Taper keys)

**STANDARD: DIN 6886**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,5 x 2,6 | 3 x 3,7 | 4 x 5 | 5 x 6.5 | 5 x 10 | 6 x 10 | 8 x 9 | 8 x 13 | 10 x 13 |
| 2 x 2,6 | 3 x 5 | 4 x 6.5 | 5 x 7.5 | 6 x 7.5 | 6 x 11 | 8 x 11 | 10 x 11 | 10X16 |
| 2 x 3,7 | 3 x 6.5 | 4 x 7.5 | 5 x 9 | 6 x 9 | | | | |

## 5.26 Pana circulara (Woodruff keyes)

**STANDARD: DIN 6888 / ISO 3912**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,5 x 2,6 | 3 x 3,7 | 4 x 5 | 5 x 6.5 | 5 x 10 | 6 x 10 | 8 x 9 | 8 x 13 | 10 x 13 |
| 2 x 2,6 | 3 x 5 | 4 x 6.5 | 5 x 7.5 | 6 x 7.5 | 6 x 11 | 8 x 11 | 10 x 11 | 10X16 |
| 2 x 3,7 | 3 x 6.5 | 4 x 7.5 | 5 x 9 | 6 x 9 | | | | |

## 5.27 Nit cu cap bombat (Round head rivet)

**STANDARD: DIN 660 / ISO 1051 / STAS 9229**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 x 6 | 3 x 20 | 4 x 50 | 6 x 12 | 8 x 25 | 8.8 x 40 | 10 x 60 | 14 x 16 | 16 x 30 |
| 2 x 8 | 3 x 25 | 5 x 8 | 6 x 16 | 8 x 30 | 8.8 x 45 | 12 x 10 | 14 x 20 | 16 x 35 |
| 2 x 10 | 3 x 30 | 5 x 10 | 6 x 20 | 8 x 35 | 8.8 x 50 | 12 x 12 | 14 x 25 | 16 x 40 |
| 2 x 12 | 4 x 6 | 5 x 12 | 6 x 25 | 8 x 40 | 8.8 x 60 | 12 x 16 | 14 x 30 | 16 x 45 |
| 2.5 x 6 | 4 x 8 | 5 x 16 | 6 x 30 | 8 x 45 | 10 x 10 | 12 x 20 | 14 x 35 | 16 x 50 |
| 2.5 x 8 | 4 x 10 | 5 x 20 | 6 x 35 | 8 x 50 | 10 x 12 | 12 x 25 | 14 x 40 | 16 x 60 |
| 2.5 x 10 | 4 x 12 | 5 x 25 | 6 x 40 | 8 x 60 | 10 x 16 | 12 x 30 | 14 x 45 | 20 x 16 |
| 2.5 x 12 | 4 x 16 | 5 x 30 | 6 x 45 | 8.8 x 10 | 10 x 20 | 12 x 35 | 14 x 50 | 20 x 30 |
| 2.5 x 16 | 4 x 20 | 5 x 35 | 6 x 50 | 8.8 x 12 | 10 x 25 | 12 x 40 | 14 x 60 | 20 x 50 |
| 3 x 6 | 4 x 25 | 5 x 40 | 6 x 60 | 8.8. x 16 | 10 x 30 | 12 x 45 | 16 x 10 | 36 x 12 |
| 3 x 8 | 4 x 30 | 5 x 45 | 8 x 10 | 8.8 x 20 | 10 x 35 | 12 x 50 | 16 x 12 | 36 x 16 |
| 3 x 10 | 4 x 35 | 5 x 50 | 8 x 12 | 8.8 x 25 | 10 x 40 | 12 x 60 | 16 x 16 | 36 x 20 |
| 3 x 12 | 4 x 40 | 5 x 60 | 8 x 16 | 8.8 x 30 | 10 x 45 | 14 x 10 | 16 x 20 | 36 x 30 |
| 3 x 16 | 4 x 45 | 6 x 10 | 8 x 20 | 8.8 x 35 | 10 x 50 | 14 x 12 | 16 x 25 | 36 x 50 |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.28 Nit cu cap inecat (Countersunk head rivet)

**STANDARD: DIN 661 / ISO ~1051 / STAS 9231**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2X5 | 3X10 | 4X25 | 5X30 | 6X35 | 8X60 | 14X20 | 20X30 | 36X40 |
| 2X6 | 3X12 | 4X30 | 5X35 | 6X40 | 10X 20 | 14X30 | 20X40 | 36X50 |
| 2X8 | 3X16 | 4X35 | 5X40 | 6X45 | 10X30 | 14X40 | 20X50 | 36X60 |
| 2X10 | 3X20 | 4X40 | 5X60 | 6X50 | 10X 40 | 14X50 | 20X60 | |
| 2X12 | 3X25 | 4X45 | 6X10 | 8X16 | 10X 50 | 14X60 | 30X20 | |
| 2X16 | 4X6 | 5X8 | 6X12 | 8X20 | 10X 60 | 16X20 | 30X30 | |
| 2,5X6 | 4X8 | 5X10 | 6X16 | 8X25 | 12X20 | 16X30 | 30X40 | |
| 2,5X8 | 4X10 | 5X12 | 6X18 | 8X30 | 12X30 | 16X40 | 30X50 | |
| 2,5X10 | 4X12 | 5X16 | 6X20 | 8X35 | 12X40 | 16X50 | 30X60 | |
| 2,5X12 | 4X16 | 5X20 | 6X25 | 8X40 | 12X50 | 16X60 | 36X20 | |
| 2,5X16 | 4X20 | 5X25 | 6X30 | 8X50 | 12X60 | 20X20 | 36X30 | |

## 5.29 Nit cu cap semibombat (Mushroom head rivet)

**STANDARD: DIN 674 / STAS 1987**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 x 6 | 3 x 10 | 4 x 6 | 4 x 10 | 4 x 16 | 5 x 12 | 8 x 10 | 10 x 10 | 10 x 16 |
| 3 x 8 | 3 x 16 | 4 x 8 | 4 x 12 | 5 x 10 | 5 x 16 | 8 x 16 | 10 x 12 | |

## 5.30 Piulita-nit cilindrica cu cap inecat (Blind rivet nut cylindrical and countersunk head)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M 4 x 9.5 | M 5 x 12 | M 5 x 15 | M 6 x 14.5 | M 6 x 16.5 | M 8 x 16.5 | M 8 x 18.5 | M 10 x 17.5 | M 12 x 25 |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.31 Nituri semi-tubulare cu cap inecat (Countersunk head semi-tubular rivet)

**STANDARD: DIN 7338 / STAS 8496**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 x 8 | 4 x 8 | 5 x 10 | 5 x 15 | 6 x 12 | 6 x 15 | 8 x 20 | 8 x 25 | 8 x 30 |
| 3 x 10 | 4 x 10 | 5 x 12 | | | | | | |

## 5.32 Nituri semi-tubulare cu cap plat (Flat head semi-tubular rivets)

**STANDARD: DIN 7338 / STAS 8496**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 x 8 | 4 x 8 | 5 x 10 | 5 x 15 | 6 x 12 | 6 x 15 | 8 x 20 | 8 x 25 | 8 x 30 |
| 3 x 10 | 4 x 10 | 5 x 12 | | | | | | |

## 5.33 Nituri tubulare cu cap plat (Flat head tubular rivets)

**STANDARD: DIN 7340 / STAS 8496**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 x 8 | 4 x 8 | 5 x 10 | 5 x 15 | 6 x 12 | 6 x 15 | 8 x 20 | 8 x 25 | 8 x 30 |
| 3 x 10 | 4 x 10 | 5 x 12 | | | | | | |

## 5.34 Bolt cu cap/cu gaura (Bolt with head/with hole)

**STANDARD: DIN 1444; DIN 1434; DIN 1435; DIN 1436 / ISO 2341**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3x1,6 | 5x2,9 | 8x3,5 | 12x5,5 | 16x6 | 20x8 | 24x9 | 30x9 | 36x9 |
| 4x2,2 | 6x3,2 | 10x4,5 | 14x6 | 18x7 | 22x8 | 27x9 | | |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.35 Pop-nituri (Tubular rivets with core)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3.2 x 6 | 3.2 x 15 | 4 x 8 | 4 x 16 | 4.8 x 8 | 4.8 x 16 | 4.8 x 27 | 5 x 12 | 5 x 20 |
| 3.2 x 8 | 3.2 x 18 | 4 x 10 | 4 x 18 | 4.8 x 10 | 4.8 x 18 | 4.8 x 30 | 5 x 14 | 5 x 25 |
| 3.2 x 10 | 3.2 x 20 | 4 x 12 | 4 x 20 | 4.8 x 12 | 4.8 x 21 | 4.8 x 35 | 5 x 16 | 5 x 30 |
| 3.2 x 12 | 4 x 6 | 4 x 14 | 4.8 x 6 | 4.8 x 14 | 4.8 x 24 | 5 x 10 | 5 x 18 | |

## 5.36 Pop-nituri Al/Ot si Ot/Ot Masterfix (Blind rivets Al/Ot and Ot/Ot Masterfix)

**STANDARD: DIN 7337**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3.2 x 6 | 3.2 x 15 | 4 x 8 | 4 x 16 | 4.8 x 8 | 4.8 x 16 | 4.8 x 27 | 5 x 12 | 5 x 20 |
| 3.2 x 8 | 3.2 x 18 | 4 x 10 | 4 x 18 | 4.8 x 10 | 4.8 x 18 | 4.8 x 30 | 5 x 14 | 5 x 25 |
| 3.2 x 10 | 3.2 x 20 | 4 x 12 | 4 x 20 | 4.8 x 12 | 4.8 x 21 | 4.8 x 35 | 5 x 16 | 5 x 30 |
| 3.2 x 12 | 4 x 6 | 4 x 14 | 4.8 x 6 | 4.8 x 14 | 4.8 x 24 | 5 x 10 | 5 x 18 | |

## 5.37 Saiba de siguranta
## (Round wire snap rings and snap ring grooves for shafts and bores )

**STANDARD: DIN 7993A; DIN 7993B / STAS 8436; STAS 8437**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Ø 8 | Ø 17 | Ø 26 | Ø 35 | Ø 45 | Ø 54 | Ø 65 | Ø 82 | Ø 105 |
| Ø 9 | Ø 18 | Ø 27 | Ø 36 | Ø 46 | Ø 55 | Ø 67 | Ø 85 | Ø 108 |
| Ø 10 | Ø 19 | Ø 28 | Ø 37 | Ø 47 | Ø 56 | Ø 68 | Ø 88 | Ø 110 |
| Ø 11 | Ø 20 | Ø 29 | Ø 38 | Ø 48 | Ø 57 | Ø 70 | Ø 90 | Ø 112 |
| Ø 12 | Ø 21 | Ø 30 | Ø 39 | Ø 49 | Ø 58 | Ø 72 | Ø 92 | Ø 115 |
| Ø 13 | Ø 22 | Ø 31 | Ø 40 | Ø 50 | Ø 60 | Ø 75 | Ø 95 | Ø 118 |
| Ø 14 | Ø 23 | Ø 32 | Ø 41 | Ø 51 | Ø 62 | Ø 77 | Ø 98 | Ø 120 |
| Ø 15 | Ø 24 | Ø 33 | Ø 42 | Ø 52 | Ø 63 | Ø 78 | Ø 100 | Ø 125 |
| Ø 16 | Ø 25 | Ø 34 | Ø 44 | Ø 53 | Ø 64 | Ø 80 | Ø 102 | |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.38 Siguranta pentru arbori (Circlips for shafts)

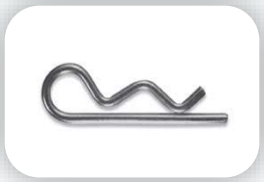
**STANDARD: DIN 6799**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Ø 1.2 | Ø 1.9 | Ø 3.2 | Ø 5 | Ø 7 | Ø 9 | Ø 12 | Ø 19 | Ø 24 |
| Ø 1.5 | Ø 2.3 | Ø 4 | Ø 6 | Ø 8 | Ø 10 | Ø 15 | | |

## 5.39 Ace siguranta (Spring cotters of a bolt)

**STANDARD: DIN ~11024**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3.2 x 20 | 3.2 x 36 | 4 x 20 | 4 x 36 | 4 x 56 | 5 x 45 | 5 x 71 | 6. 3 x 63 | 6. 3 x 80 |
| 3.2 x 25 | 3.2 x 40 | 4 x 25 | 4 x 40 | 4 x 63 | 5 x 50 | 5 x 80 | 6. 3 x 71 | 6. 3 x 100 |
| 3.2 x 28 | 3.2 x 56 | 4 x 28 | 4 x 45 | 5 x 36 | 5 x 56 | 5 x 100 | | |
| 3.2 x 32 | 3.2 x 63 | 4 x 32 | 4 x 50 | 5 x 40 | 5 x 63 | 6. 3 x 50 | | |

## 5.40 Dibluri (Wall plugs)



| DIMENSIUNI DISPONIBILE | | | | | | |
|---|---|---|---|---|---|---|
| 5X25 | 6X30 | 8X40 | 10X50 | 12X60 | 14X75 | 16X80 |

## 5.41 Diblu cui percutie (Hammer drive anchors with nail)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6X40 | 8X60 | 8X120 | 10X80 | 10X140 | 10X200 | 14X100 | 16X140 | 16X240 |
| 6X60 | 8X80 | 8X140 | 10X100 | 10X160 | 10X220 | 14X130 | 16X160 | |
| 6X80 | 8X100 | 8X160 | 10X120 | 10X180 | 14X80 | 14X160 | 16X200 | |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.42 Dibluri pentru materiale izolante (polistiren) (Plugs for insualting material)



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8X80 | 8X100 | 8X120 | 8X140 | 10X70 | 10X90 | 10X110 | 10X130 | 10X150 |

## 5.43 Splint (Split pin)

**STANDARD: DIN 94**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3.2 x 20 | 3.2 x 40 | 4 x 28 | 4 x 50 | 5 x 40 | 5 x 63 | 6. 3 x 50 | 6. 3 x 100 | 8 x 80 |
| 3.2 x 25 | 3.2 x 56 | 4 x 32 | 4 x 56 | 5 x 45 | 5 x 71 | 6. 3 x 63 | 8 x 50 | 10 x 71 |
| 3.2 x 28 | 3.2 x 63 | 4 x 36 | 4 x 63 | 5 x 50 | 5 x 80 | 6. 3 x 71 | 8 x 63 | 10 x 90 |
| 3.2 x 32 | 4 x 20 | 4 x 40 | 5 x 36 | 5 x 56 | 5 x 100 | 6. 3 x 80 | 8 x 71 | 10 x 100 |
| 3.2 x 36 | 4 x 25 | 4 x 45 | | | | | | |

## 5.44 Maner forma "N" (Handle form “N”)

**STANDARD: DIN 98**



| DIMENSIUNI DISPONIBILE | | | | | | |
|---|---|---|---|---|---|---|
| 6X50 | 8X63 | 10X80 | 12X100 | 16X125 | 20X160 | 24X200 |

## 5.45 Inel de siguranta pentru arbori (Spring retaining ring)

**STANDARD: DIN 471**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Ø 3 | Ø 15 | Ø 27 | Ø 39 | Ø 55 | Ø 75 | Ø 98 | Ø 135 | Ø 200 |
| Ø 4 | Ø 16 | Ø 28 | Ø 40 | Ø 56 | Ø 77 | Ø 100 | Ø 140 | Ø 210 |
| Ø 5 | Ø 17 | Ø 29 | Ø 41 | Ø 57 | Ø 78 | Ø 102 | Ø 145 | Ø 220 |
| Ø 6 | Ø 18 | Ø 30 | Ø 42 | Ø 58 | Ø 80 | Ø 105 | Ø 150 | Ø 230 |
| Ø 7 | Ø 19 | Ø 31 | Ø 44 | Ø 60 | Ø 82 | Ø 107 | Ø 155 | Ø 240 |
| Ø 8 | Ø 20 | Ø 32 | Ø 45 | Ø 62 | Ø 85 | Ø 108 | Ø 160 | Ø 250 |
| Ø 9 | Ø 21 | Ø 33 | Ø 46 | Ø 63 | Ø 87 | Ø 110 | Ø 165 | Ø 260 |
| Ø 10 | Ø 22 | Ø 34 | Ø 47 | Ø 65 | Ø 88 | Ø 115 | Ø 170 | Ø 270 |
| Ø 11 | Ø 23 | Ø 35 | Ø 48 | Ø 67 | Ø 90 | Ø 120 | Ø 175 | Ø 280 |
| Ø 12 | Ø 24 | Ø 36 | Ø 50 | Ø 68 | Ø 92 | Ø 125 | Ø 180 | Ø 290 |
| Ø 13 | Ø 25 | Ø 37 | Ø 52 | Ø 70 | Ø 95 | Ø 127 | Ø 185 | Ø 300 |
| Ø 14 | Ø 26 | Ø 38 | Ø 54 | Ø 72 | Ø 97 | Ø 130 | Ø 190 | |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.46 Inel de siguranta pentru alezaje (Spring retaining ring)

**STANDARD: DIN 472**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Ø 9 | Ø 19 | Ø 29 | Ø 39 | Ø 50 | Ø 60 | Ø 75 | Ø 95 | Ø 118 |
| Ø 10 | Ø 20 | Ø 30 | Ø 40 | Ø 51 | Ø 62 | Ø 77 | Ø 98 | Ø 120 |
| Ø 11 | Ø 21 | Ø 31 | Ø 41 | Ø 52 | Ø 63 | Ø 78 | Ø 100 | Ø 125 |
| Ø 12 | Ø 22 | Ø 32 | Ø 42 | Ø 53 | Ø 64 | Ø 80 | Ø 102 | Ø 128 |
| Ø 13 | Ø 23 | Ø 33 | Ø 44 | Ø 54 | Ø 65 | Ø 82 | Ø 105 | Ø 130 |
| Ø 14 | Ø 24 | Ø 34 | Ø 45 | Ø 55 | Ø 67 | Ø 85 | Ø 108 | Ø 135 |
| Ø 15 | Ø 25 | Ø 35 | Ø 46 | Ø 56 | Ø 68 | Ø 88 | Ø 110 | Ø 140 |
| Ø 16 | Ø 26 | Ø 36 | Ø 47 | Ø 57 | Ø 70 | Ø 90 | Ø 112 | Ø 145 |
| Ø 17 | Ø 27 | Ø 37 | Ø 48 | Ø 58 | Ø 72 | Ø 92 | Ø 115 | Ø 150 |
| Ø 18 | Ø 28 | Ø 38 | Ø 49 | | | | | |

## 5.47 Ungator, forma "A" 180° (Grease fitting form “A”)

**STANDARD: DIN 71412**



| DIMENSIUNI DISPONIBILE | | | | |
|---|---|---|---|---|
| M 6 x 1 | M 8 x 1 | M10 x 1 | R 1/8" | R 1/4" |

## 5.48 Ungator, forma "B" 45° (Grease fitting form “B”)

**STANDARD: DIN 71412**



| DIMENSIUNI DISPONIBILE | | | | |
|---|---|---|---|---|
| M 6 x 1 | M 8 x 1 | M10 x 1 | R 1/8" | R 1/4" |

## 5.49 Ungator, forma "C" 90° (Grease fitting form “C”)

**STANDARD: DIN 71412**



| DIMENSIUNI DISPONIBILE | | | | |
|---|---|---|---|---|
| M 6 x 1 | M 8 x 1 | M10 x 1 | R 1/8" | R 1/4" |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.50 Bara rotund (Round bar)

**STANDARD: inox 1.4307**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| H9 4 | H9 10 | H9 16 | H9 22 | H9 28 | H9 34 | H9 40 | H9 44 | H9 48 |
| H9 6 | H9 12 | H9 18 | H9 24 | H9 30 | H9 36 | H9 42 | H9 46 | H9 50 |
| H9 8 | H9 14 | H9 20 | H9 26 | H9 32 | H9 38 | | | |
| | | | | | | | | |
| RT 55 | RT 70 | RT 85 | RT 95 | RT 105 | RT 115 | RT 125 | RT 135 | RT 145 |
| RT 60 | RT 75 | RT 90 | RT 100 | RT 110 | RT 120 | RT 130 | RT 140 | RT 150 |
| RT 65 | RT 80 | | | | | | | |

## 5.51 Bara rotund (Round bar)

**STANDARD: inox 1.4404**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| H9 10 | H9 16 | H9 22 | H9 28 | H9 32 | H9 36 | H9 40 | H9 44 | H9 48 |
| H9 12 | H9 18 | H9 24 | H9 30 | H9 34 | H9 38 | H9 42 | H9 46 | H9 50 |
| H9 14 | H9 20 | H9 26 | | | | | | |
| | | | | | | | | |
| RT 60 | RT 75 | RT 85 | RT 95 | RT 105 | RT 115 | RT 125 | RT 135 | RT 145 |
| RT 65 | RT 80 | RT 90 | RT 100 | RT 110 | RT 120 | RT 130 | RT 140 | RT 150 |
| RT 70 | | | | | | | | |

## 5.52 Bara rotund (Round bar)

**STANDARD: inox 1.4571**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| H9 14 | H9 20 | H9 26 | H9 30 | H9 34 | H9 38 | H9 42 | H9 46 | H9 50 |
| H9 16 | H9 22 | H9 28 | H9 32 | H9 36 | H9 40 | H9 44 | H9 48 | H9 55 |
| H9 18 | H9 24 | RT 55 | | | | | | |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
- La comanda se pot efectua si furniza produsele si la alte dimensiuni sau tip de protectie decat cele precizate.

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## 5.53 Bara rotund (Round bar)

**STANDARD: inox 1.4305 / 1.4541**



| DIMENSIUNI DISPONIBILE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| H9 6 | H9 14 | H9 22 | H9 30 | H9 38 | H9 46 | H9 54 | H9 60 | H9 66 |
| H9 8 | H9 16 | H9 24 | H9 32 | H9 40 | H9 48 | H9 56 | H9 62 | H9 68 |
| H9 10 | H9 18 | H9 26 | H9 34 | H9 42 | H9 50 | H9 58 | H9 64 | H9 70 |
| H9 12 | H9 20 | H9 28 | H9 36 | H9 44 | H9 52 | | | |
| | | | | | | | | |
| RT 80 | RT 90 | RT 100 | RT 110 | RT 120 | RT 130 | RT 140 | RT 145 | RT 150 |
| RT 85 | RT 95 | RT 105 | RT 115 | RT 125 | RT 135 | | | |

**Indicatii pentru oteluri inoxidabile**

Compozitia chimica (%) - EN 10088-3

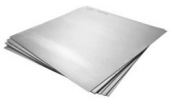
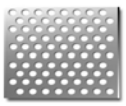
| Material | Standard nr. (AISI - Nr.) | Denumirea cf.DIN 17006, 17440/EN 10088-3 | Cr | Ni | Mo | C max. | Si max. | Mn max. | P max. | S max. |
|---|---|---|---|---|---|---|---|---|---|---|
| A1 | 1.4305(303) | X8CrNiS 18-9 | 17-19.0 | 8 -10,.0 | <0,7 | 0,10 | 1,0 | 2,0 | 0,045 | 0,15-0,35 |
| A2 | 1.4301(304) | X5CrNi 18-10 | 17-19.5 | 8-10,5 | | 0,07 | 1,0 | 2,0 | 0,045 | 0,03 |
| | 1.1303(305) | X4CrNi 18-12 | | | | | | | | |
| A3 | 1.4541(321) | X6CrNiTi 18-10 | 17-19 | 9-12,.0 | | 0,08 | | | | |
| A4 | 1.4401(316) | X5CrNiMo 17-12-2 | 16,5-18,5 | 10-13,.0 | 2,0-2,5 | 0,07 | | | | |
| A5 | 1.4571(316 Ti) | X6CrNiMoTi 17-12-2 | | 10,5-13,5 | | 0,08 | | | | |

- UM: nu impunem o pachetizare minima
- Material: otel(steel); inox A2
- Acoperire: natur; brunat; zincat alb/galben; zincat termic.
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# Alte produse
## Other products

| | | | | |
|---|---|---|---|---|
|  | **Tija poliamida (Polyamide rod)** | |  | **Otel inoxidabil W 1.4301 cornier: 20x20x3 mm up to 60x60x6 mm. (Angle)** |
|  | **Suruburi poliamida (Polyamide screws)** | |  | **Otel inoxidabil AISI 304L/2B, AISI 304 NO1, AISI 316 /NO1 tabla: 0,5 – 50 mm. (Sheet: 0,5-50 mm)** |
|  | **Piulite poliamide (Polyamide nuts)** | |  | **Otel Inoxidabil AISI 304 tevi rotunde si rectangulare cu luciu oglinda (Round pipes)** |
|  | **Saibe poliamida (Polyamide washers)** | |  | **Otel inoxidabil martensitic W 1.4021: bare rotunde: Ø 20-120 mm (Round bars)** |
|  | **Diblu cavitate (Cavity plugs)** | |  | **Table decorative si perfo-rate (Decorative sheet)** |
|  | **Intinzator cu doua furci la capete (Turnbuckle with two forks)** | |  | **Otel Inoxidabil 17-4 PH bare rotunde ½" – 3" x 10 – 12' (Round bars)** |
|  | **Clips pentru cabluri (Wire rope clip) DIN 741** | |  | **Carabina D5299e (Spring hook)** |
|  | **Carlig pentru remorca (Trailer hook)** | |  | **Brida DIN 82101 (Straight D shakle,short)** |



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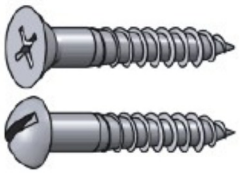
| | | | |
|---|---|---|---|
|  | **Brida (Bow shackle)** |  | **Suruburi si piulite pentru senile (Rail hexagonal bolts) (Rail hexagonal nuts)** |
|  | **Conector coltar (Angle connection, wide)** |  | **Diblu metal pentru gips-carton (Plasterboard plugs)** |
|  | **Conector coltar perforat (Angle connection, perforated HDG)** |  | **Cheie tachelaj (Omega link- EN 1677-1)** |
|  | **Carlige patrate pentru lemn (Square hooks)** |  | **Element legatura capat de furca (Clevis chain clutch EN 1677-1)** |
|  | **Carlige cu filet metric (Cup hooks)** |  | **Lant cu clichet de incarcare (Ratchet type load binder EN 12195-3)** |
|  | **Profil “L” (“L” Profile)** |  | **Lant tehnic (Technical chain) DIN 5685 A** |
|  | **Profil “U” (“U” Profile)** |  | **Lant tehnic grad “3” (Grade “3” technical chain DIN 766)** |
|  | **Cui de otel cu cap plat (Flat head steel nail ) DIN 1151** |  | **Truse stifturi, truse suruburi, truse piulite (Screws kit, nuts kit, pins kit)** |
|  | **Cui cu cap plat mare (Cardboard nail with larger flat head) DIN 10230** |  | **Colier pentru teava simpla cu cauciuc EPDM (Single screw pipe clamp with EPDM rubber)** |



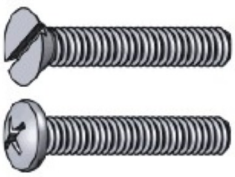
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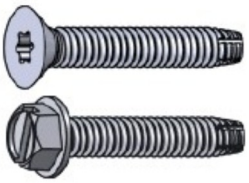
# Tipuri de suruburi
## Screw Categories



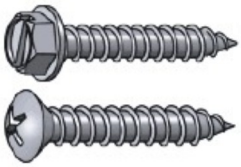
Suruburi pentru lemn
Wood screws



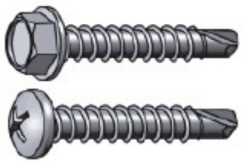
Suruburi pentru masini
Machine screws



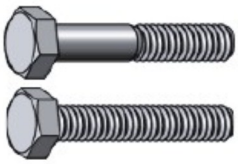
Thread cutting machine screw



Suruburi pentru metal
Sheet metal screws



Suruburi autoforante
Self drilling SMS



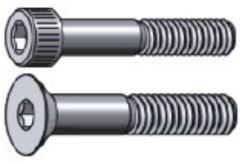
Suruburi cu cap hexagonal
Hex bolts



Suruburi cu cap bombat
Mushroom head screws



Suruburi pentru lemn cu cap hexagonal si varf ascutit
Lag bolts



Suruburi cu locas
Socket screws



Stifturi
Set screws



Suruburi cu ochi
Eye bolts



Suruburi cu ochi cu varf ascutit
Eye lags



Suruburi forma ``J``
J-bolts



Suruburi forma ``U``
U-bolts



Bolturi
Shoulder bolts



Surub lift
Elevator bolts



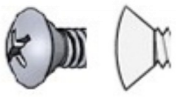
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## Tipuri de cap
Head style



Plat
Flat



Semibombat
Oval



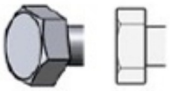
Bombat
Pan



Imbus
Socket cap



Rotund
Round



Hexagonal
Hex

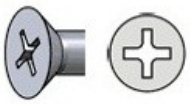


Hexagonal cu flansa
Hex washer

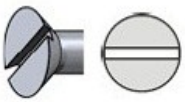


Hexalobular
Button

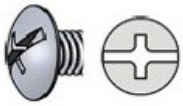
## Tipuri amprenta
Drive types



Cruce
X– shaped drive



Crestat
Slotted



Cruce si Crestatura
Combination of slotted and X-shapeed



Imbus/ Hexagon
Socket or Hex



Patrat
Square



Hexalobular
Torx





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# Tipuri de piulite
## Nut types


Hexagonala
Hex


Hexagonala inalta
Heavy Hex


Inalta cu insertie de plastic
Nylon insert lock


Hexagonala joasa
Jam

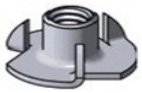

Joasa cu insertie de plastic
Nylon insert Jam lock


Fluture
Wing


Infundata joasa
Cap

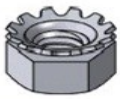

Infundata inalta/ Ghinda
Acorn


**Cu flansa**
**Flange**

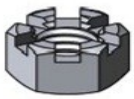

Cu gheara
Teeth


Patrata
Square


Hexagonala cu autoblocare
Prevailing torque lock


Cu blocare K
K-lock


De cuplare
Coupling


Crenelata inalta
Slotted


Crenelata joasa
Castle

# Tipuri de saibe
## Washer types


Plata
Flat

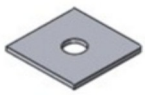

Cu amortizare
Fender

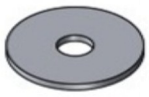

De finisare
Finishing


De blocare Grower
Split lock


Cu dinti exterior
External tooth lock


Cu dinti interior
Internal tooth lock


Patrata
Square


Extra-larga pentru lemn
Dock


De etansare
Sealing



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# Dimensiuni filet suruburi cu filet metric si cap plat

Thread dimensions for metric socket flat head screws



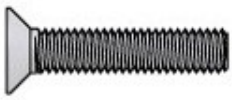
M3mm x 0.5



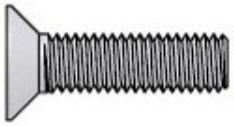
M4mm x 0.7



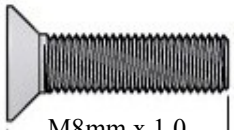
M5mm x 0.8



M6mm x 1.0

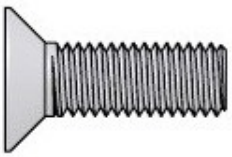


M8mm x 1.25



M8mm x 1.0

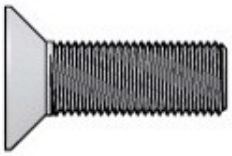
Length
Lungime



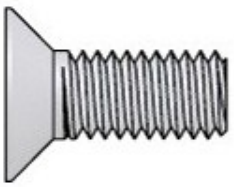
M10mm x 1.5



M10mm x 1.25



M10mm x 1.0



M12mm x 1.75



M12mm x 1.5



M12mm x 1.25



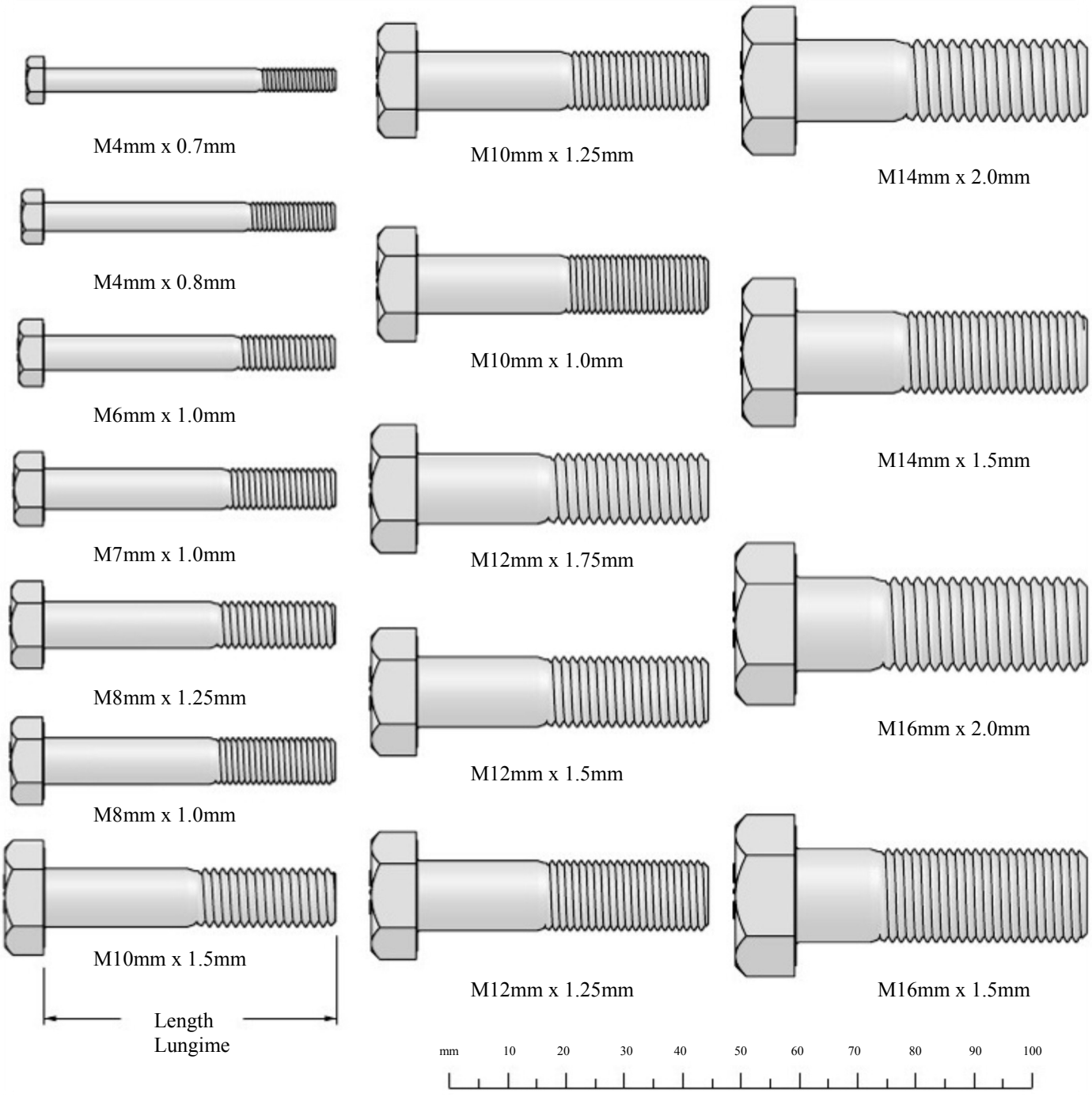


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# Dimensiuni filet suruburi cu filet metric si cap hexagonal

Thread dimensions for metric hexagonal head screws






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# Dimensiuni filet suruburi cu filet metric si cap imbus

Thread dimensions for metric socket head cap screws



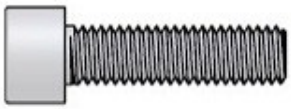
M4mm x 0.7



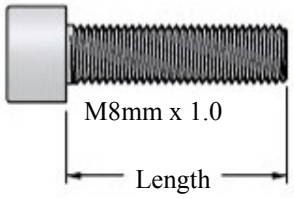
M5mm x 0.8



M6mm x 1.0

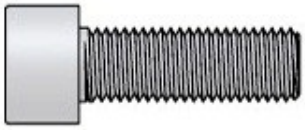


M8mm x 1.25






M10mm x 1.5



M10mm x 1.25



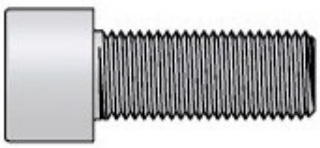
M10mm x 1.0



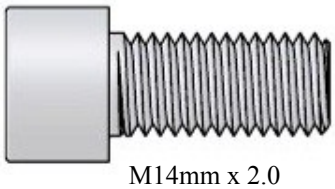
M12mm x 1.75



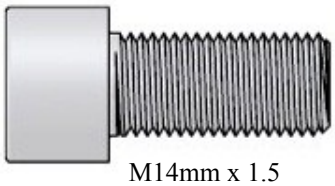
M12mm x 1.5



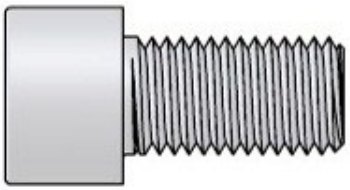
M12mm x 1.25



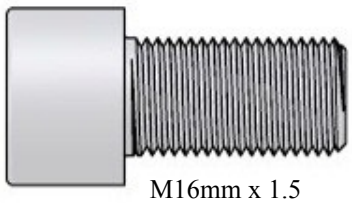
M14mm x 2.0



M14mm x 1.5



M16mm x 2.0



M16mm x 1.5





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# Dimensiuni filet suruburi cu filet metric si cap hexalobular

Thread dimensions for metric button head cap screws



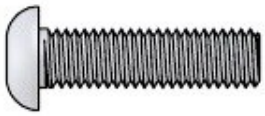
M4mm x o.7



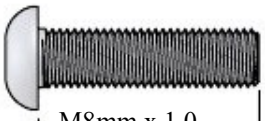
M5mm x 0.8



M6mm x 1.0

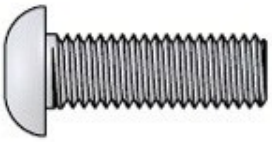


M8mm x 1.25



M8mm x 1.0

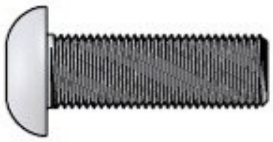
Length
Lungime



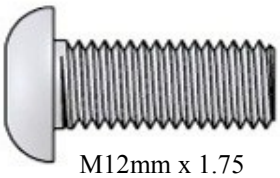
M10mm x 1.5



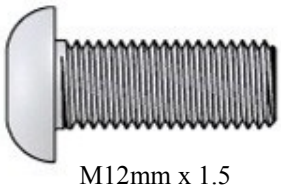
M10mm x 1.25



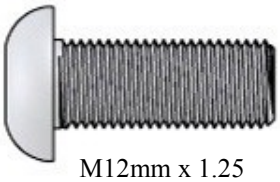
M10mm x 1.0



M12mm x 1.75



M12mm x 1.5



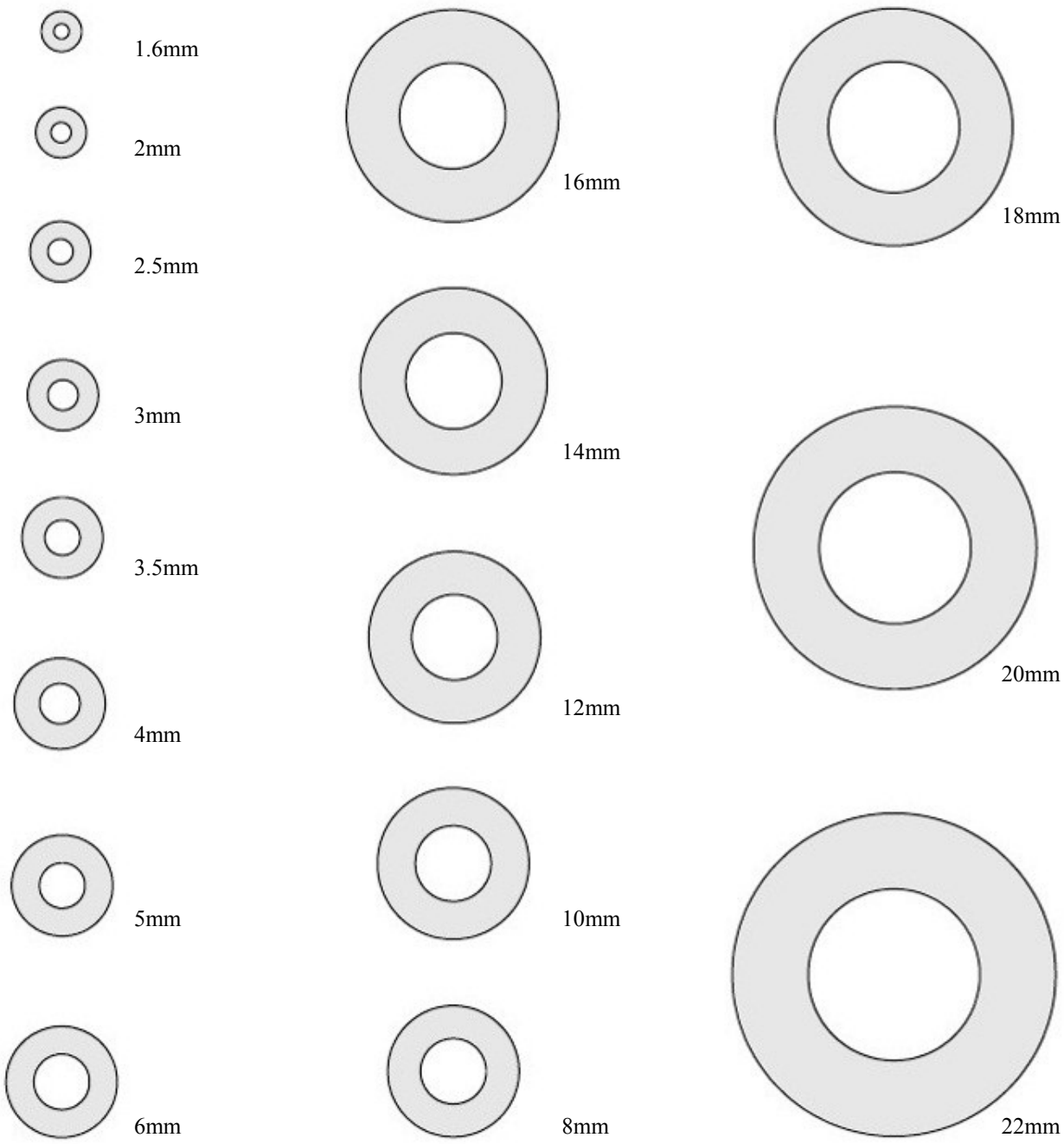
M12mm x 1.25



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# Dimensiuni saibe
## Washers dimensions

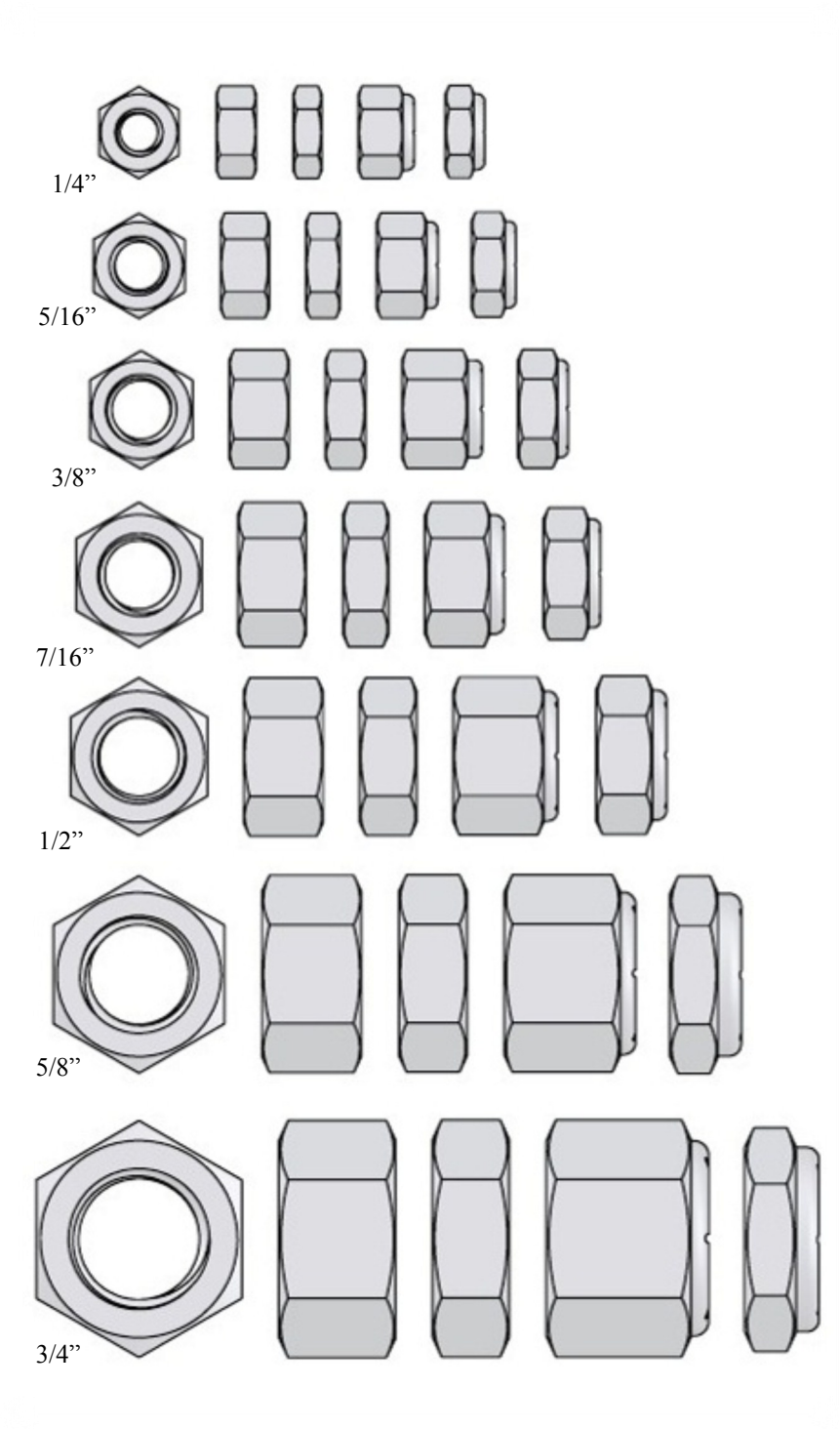


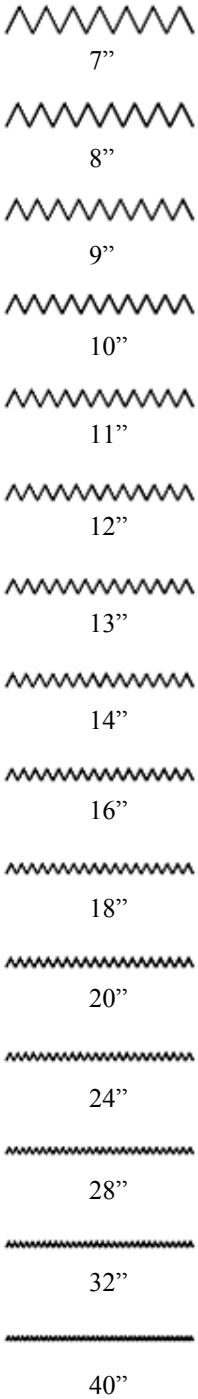
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# Dimensiuni piulite si marimi filet

Nuts dimensions and thread sizes






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*Certifitions*

Produsele noastre sunt intotdeauna insotite de:

*Our products are always accompanied by:*

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Noi, SC SMART INVEST GOLD SRL, cu sediul social in Calea Dorobantilor nr. 112/22, Cluj-Napoca, jud. Cluj si punct de lucru in Str. Fabricii de Zahar, nr 131, Cluj-Napoca, jud. Cluj cu certificat de inregistrare/Autorizatie nr. J12/1425/2012 asiguram, garantam pe propria raspundere, conform prevederilor art. 5 din Hotararea de Guvern nr. 1022/2002 privind regimul produselor si serviciilor care pot pune in pericol viata, sanatatea, securitatea muncii si potectia mediului, ca produsele conform factura nr._____/_____
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Cluj-Napoca, Semnatura/Signature


Certificat de înregistrare

SMART INVEST GOLD SRL

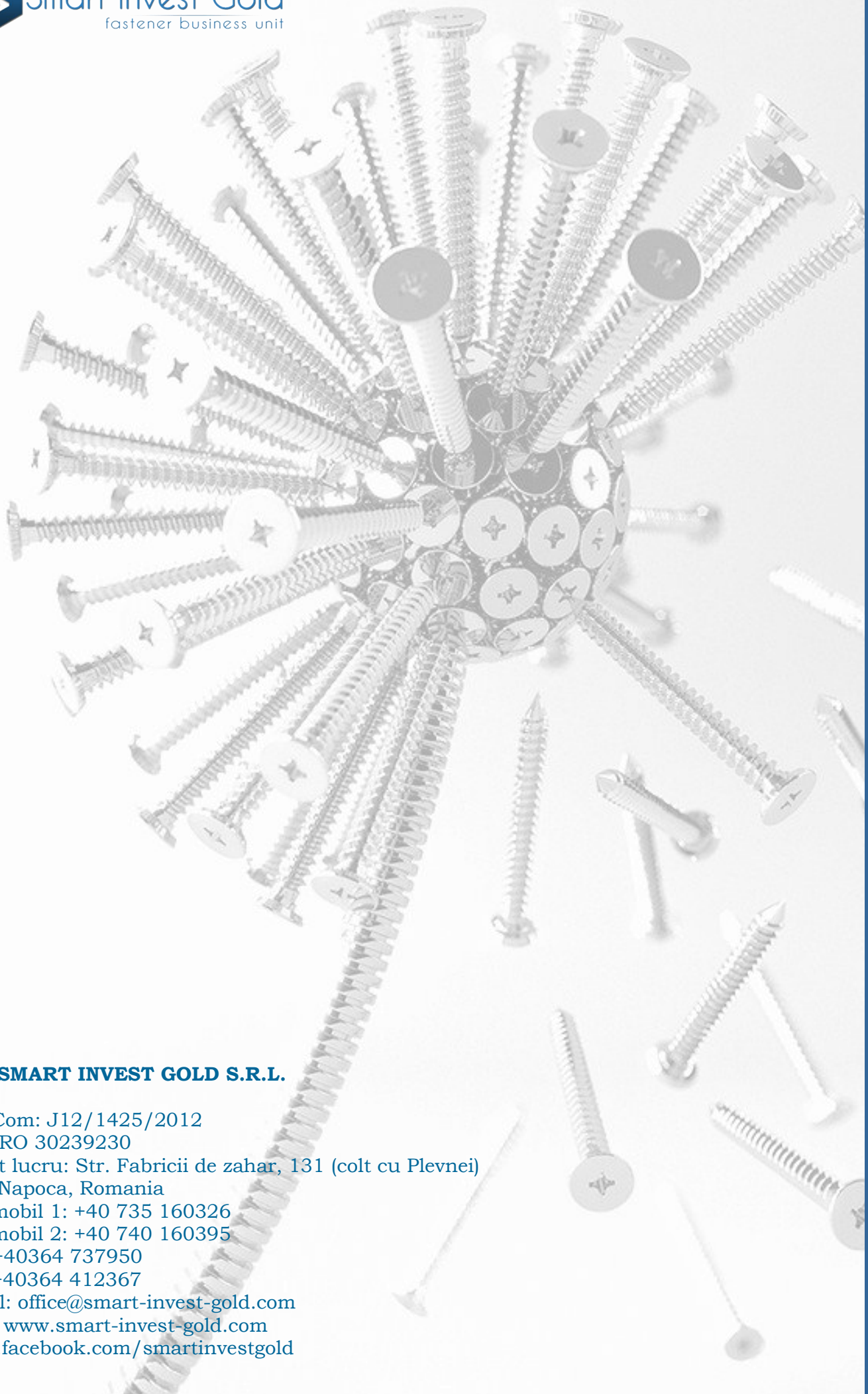
ISO 9001:2008

Comerț cu ridicata nespecializat, importul și distribuția de organe de asamblare și elemente de fixare

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*We, Smart Invest Gold Ltd, with registered offices on 112/22 Calea Dorobanţilor street, city of Cluj Napoca, city of Cluj and branch located at 131 Fabricii de Zahar street, city of Cluj Napoca, county of Cluj with Certificate of Registration/ Authorization no. J12/1495/2012 assure, guarantee on our own risk, according to Art. 5 of the Government Decision no. 1022/2002 regarding the products and services that may endanger the life, health, work safety and environmental violation protection, that the products according to invoice no. ___/__ which refers to this statement does not put/ endanger life, health, safety, does not produce a negative environmental act and is in accordance with GO 21/1992 and Government Decision 94/1995.*

Smart Invest Gold
fastener business unit



**S.C. SMART INVEST GOLD S.R.L.**

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