



Screws Brochure

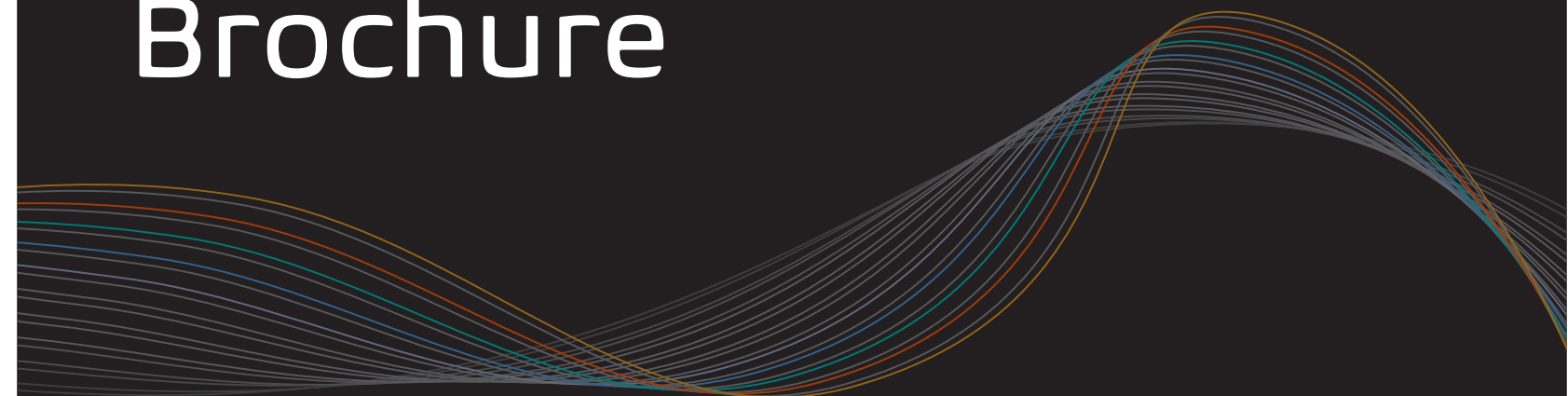


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Screws - General Information

High quality screws ensure that products can be held together securely through rigorous use. They are ideal for applications such as specialist vehicles, data services, consumer electronics and consumer appliances. Screws offer a number of different features that should be considered when choosing the most appropriate screw for your application



Screw Head

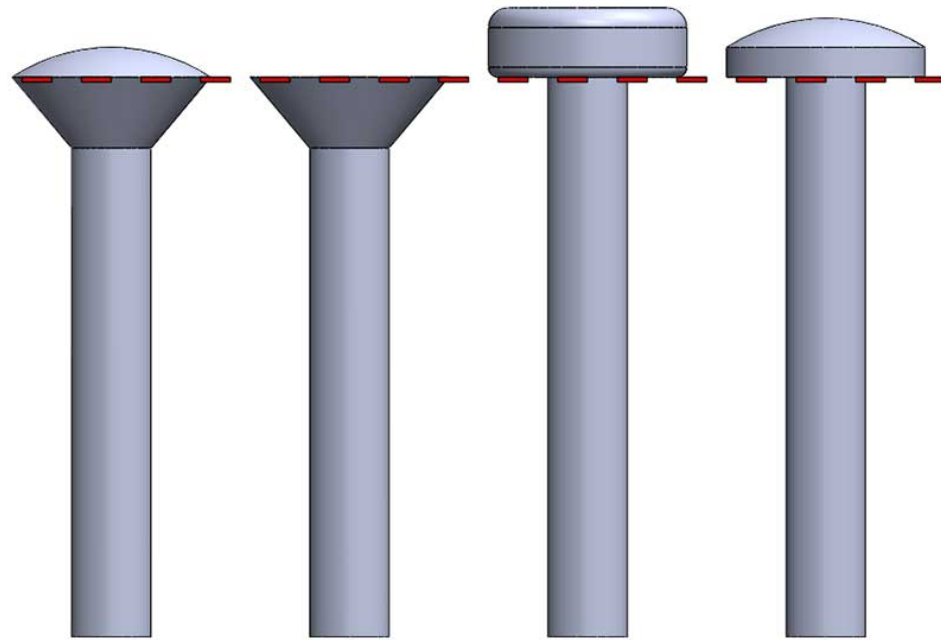
The screw head type will be the first feature considered and may be chosen based on personal preference or functionality. For users wanting a flush, flat appearance then a flat countersunk head may be a good choice to achieve this, however, products with thicker walls may require a thicker screw head that can rest on the surface of the product

Common types of screw head include:

- Washer head
- Rounded head
- Oval-head
- Cylindrical cross-head
- Countersunk cross-head
- Countersunk flat

Screw Length

Although seemingly self-explanatory, the screw length refers to the distance from the bottom of the screw to the area where the screw would rest on a surface. For some screws the length may include all or some of the screw head and for others it may not include the screw head at all. In the image below, four different types of screw are shown with different screw heads but all with the same screw length.



Thread Size

The thread of a screw refers to the helical tooth that runs around the outside of the screw shaft. It is the thread that provides the screw with its fastening capabilities and distinguishes it from other fasteners such as nails.

The ISO metric thread standard is the most commonly used standard for measuring screw thread. Displayed as an M size that represents the screw's nominal size in millimetres, an M3 screw, for instance, will have a 3mm nominal thread diameter.

Material

Fasteners are manufactured using a number of materials such as titanium, plastic and steel and, even beyond the material type, can be categorised further according to different grades. They can also be coated in a range of coatings or platings to increase the component's resistance to corrosion which may be an important consideration depending on the application.

Other considerations include the strength, the brittleness and the cost of a material and the environment of the project.

Zinc-plated steel fasteners are a popular choice for this type of component. As steel is a strong material it can be used in a number of applications. However, it is susceptible to corrosion (rust) when exposed to moisture and oxygen and so by coating the fastener in Zinc, corrosion protection is offered. Zinc is abundant, workable and inexpensive and provides heat resistance to temperatures below 200°C.



Polyamide/Nylon fasteners offer similar properties to their metal equivalents but at a fraction of the price. Lightweight and with low-wearing properties offering longevity, polyamide fastenings are used extensively in automotive and aerospace industries.



Stainless steel fasteners are ideal for long lasting applications due to their durability and corrosion-resistant properties. If stainless steel fasteners are scratched or burred the metal will not create surface rust as the corrosion resistance exists within the metal itself.



Countersunk Torx Screws

Features

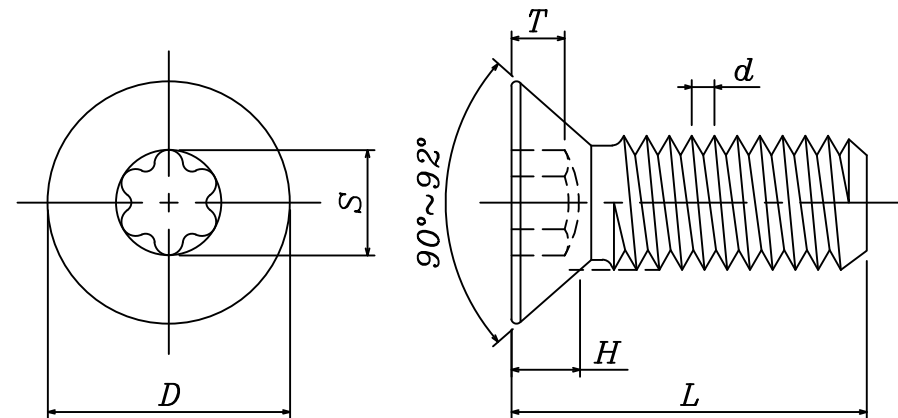
- No burrs and sharp edges
- Screw material: class 8.8 carbon steel
- Trivalent blue zinc 3.8 µm min. finish
- Heat treat:HRC 22-32
- Material and finish comply with 211/65/EU (RoHS)
- Meets ISO 14581 standard



6	5.76~6.24
8	7.71~8.29
10	9.71~10.29
12	11.65~12.35
16	15.65~16.35
20	19.58~20.42
25	24.58~25.42
30	29.58~30.42

Thread (6g)	D Head Diameter	H (Max) Head Height	Six-lobe Recess	S (Ref)	T Drive Depth
M2x0.4	3.50~3.80	1.20	T6	1.75	0.51~0.64
M2.5x0.45	4.40~4.70	1.50	T8	2.40	0.66~0.79
M3x0.5	5.20~5.50	1.65	T10	2.80	0.70~0.83
M3.5x0.6	6.94~7.30	2.35	T15	3.35	1.16~1.32
M4x0.7	8.04~8.40	2.70	T20	3.95	1.14~1.53
M5x0.8	8.94~9.30	2.70	T25	4.50	1.12~1.51
M6x1.0	10.87~11.30	3.30	T30	5.60	1.39~1.78
M8x1.25	15.37~15.80	4.65	T45	7.95	2.15~2.54
M10x1.5	17.78~18.30	5.00	T50	8.95	2.41~2.80

Thread (6g)	L	PART NO.
M3x0.5	6	RND 610-00398
	8	RND 610-00399
	10	RND 610-00395
	12	RND 610-00396
	16	RND 610-00397
M4x0.7	10	RND 610-00400
	12	RND 610-00401
	16	RND 610-00402
	20	RND 610-00403
M5x0.8	10	RND 610-00404
	12	RND 610-00405
	16	RND 610-00406
	20	RND 610-00407
	25	RND 610-00408
M6x1.0	10	RND 610-00409
	12	RND 610-00410
	16	RND 610-00411
	30	RND 610-00412



Cross-Head Phillips Galvanized Screws

Features

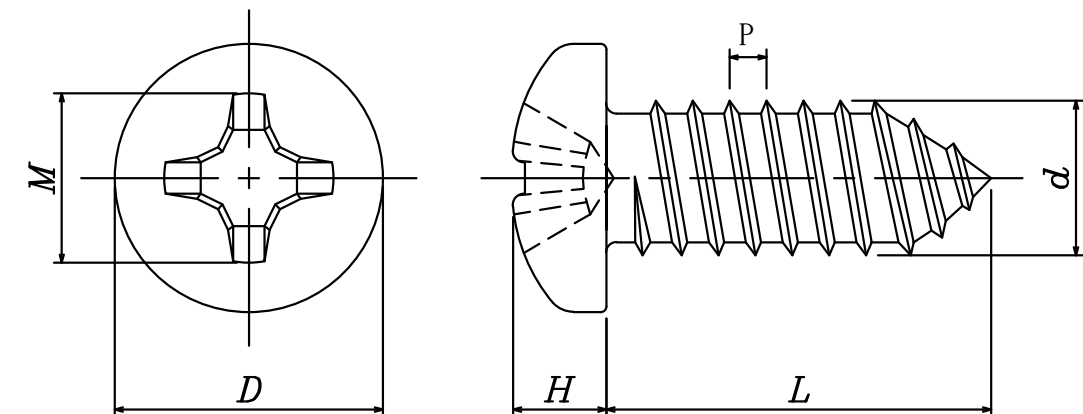
- No burrs and sharp edges
- Screw material:1018 ~ 1022 carbon steel
- Trivalent blue zinc 3.8 µm min. finish
- Heat treat:Case harden surface HV 450 min., core HV 270 ~ 370
- Material and finish comply with 211/65/EU (RoHS)
- MeetsDIN 7981standard



Length	L
6.5	6.5+/-0.8
9.5	9.5+/-0.8
16.0	16.0+/-0.8

Thread	D Head Diameter	H Head Height	Type H Drive Size	M (Ref) Drive Width	P	d
ST2.2	3.90~4.20	1.55~1.80	1	2.60	0.8	2.10~2.24
ST2.9	5.30~5.60	1.95~2.20		3.00	1.1	2.76~2.90
ST3.5	6.54~6.90	2.35~2.60	2	4.20	1.3	3.35~3.53
ST3.9	7.14~7.50	2.55~2.80		4.40	1.3	3.73~3.91
ST4.2	7.84~8.20	2.75~3.05		4.60	1.4	4.04~4.22
ST4.8	9.14~9.50	3.25~3.55	3	5.00	1.6	4.62~4.80
ST5.5	10.37~10.80	3.65~3.95		6.50	1.8	5.28~5.46
ST6.3	12.07~12.50	4.25~4.55		7.10	1.8	6.03~6.25

Thread	L	PART NO.
M2.2-0.8	6.5	RND 610-00413
	9.5	RND 610-00414
M2.9-1.1	16.0	RND 610-00621



Cross-Head Phillips Galvanized Screws

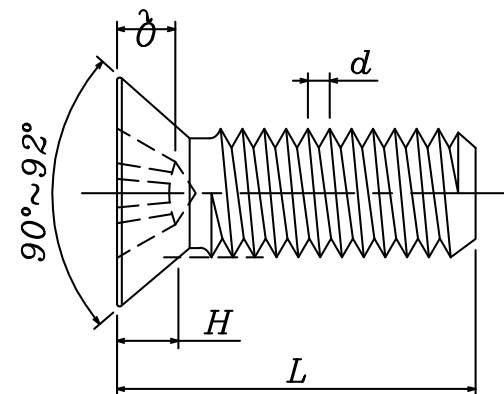
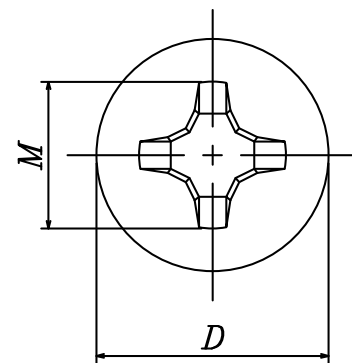
Features

- No burrs and sharp edges
- Screw material: class 4.8 carbon steel
- Trivalent blue zinc 3.8 µm min. finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets DIN 965 standard



Length	L	ΦKШI-Ř ócЭó	5 IŠI-Ř 5лI-YŠúŠú	I ó a I-Ěú IŠI-Ř IŠIЭKú	ФѐШŠ I 5шúŠ {лIŠ	a ówŠtú 5шúŠ ² лŘúK	v 5шúŠ 5ŠLúK
6	5.75~6.25	а мѐсѐлѐр	нѐтрѐоѐлл	лѐфс	л	мѐтл	лѐссѐлѐфм
8	7.70~8.30	а нѐлѐп	оѐрлѐоѐул	мѐнл	м	нѐор	лѐфрѐмѐнр
10	9.70~10.30	а нѐрѐлѐпр	пѐплѐпѐтл	мѐрл		нѐтл	мѐнрѐмѐрр
12	11.65~12.35	а оѐлѐр	рѐолѐрѐсл	мѐср		нѐфл	мѐрлѐмѐул
14	13.65~14.35	а оѐрѐлѐс	сѐмпѐсѐрл	мѐфо	н	оѐфл	мѐплѐмѐфл
16	15.65~16.35	а пѐлѐт	тѐмпѐтѐрл	нѐнл		пѐпл	мѐфлѐнѐпл
20	19.58~20.42	а рѐлѐу	уѐупѐфѐнл	нѐрл		пѐсл	нѐмлѐнѐсл
25	24.58~25.42	а сѐмѐл	млѐртѐммѐлл	оѐлл	о	сѐсл	нѐулѐоѐол
30	29.58~30.42	а уѐмѐнр	млѐлтѐмрѐлл	пѐлл	п	уѐтл	оѐфлѐпѐпл
		а млѐмѐр	мтѐртѐмуѐлл	рѐлл		фѐсл	пѐулѐрѐол

Thread (6g)	L	PART NO.
M2x0.4	6	RND 610-00417
	8	RND 610-00418
	12	RND 610-00415
	16	RND 610-00416
M2.5x0.45	6	RND 610-00421
	8	RND 610-00422
	10	RND 610-00419
	16	RND 610-00420
	20	RND 610-00426
M3x0.5	6	RND 610-00429
	10	RND 610-00423
	12	RND 610-00424
	16	RND 610-00425
	20	RND 610-00426
	25	RND 610-00427
	30	RND 610-00428
M4x0.7	6	RND 610-00433
	10	RND 610-00430
	12	RND 610-00431
	25	RND 610-00432



Cylindrical Cross-Head Phillips Screws

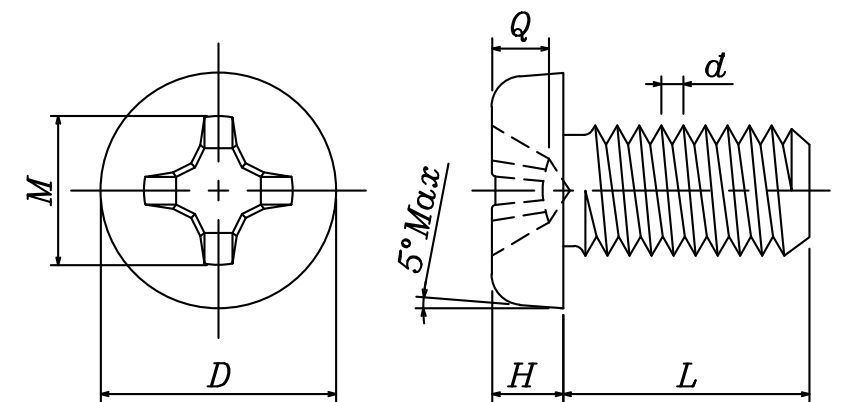
Features

- No burrs and sharp edges
- Screw material: class 4.8 carbon steel
- Trivalent blue zinc 3.8 µm min. finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets ISO 7048 standard



Length	L	ΦKШI-Ř ócЭó	5 IŠI-Ř 5лI-YŠúŠú	I ó a I-Ěú IŠI-Ř IŠIЭKú	ФѐШŠ I 5шúŠ {лIŠ	a ówŠtú 5шúŠ ² лŘúK	v 5шúŠ 5ŠLúK
4	3.76~4.24	а нѐлѐп	оѐснѐоѐул	мѐнсѐмѐпл	м	нѐол	лѐфлѐмѐнл
6	5.76~6.24	а нѐрѐлѐпр	пѐонѐпѐрл	мѐссѐмѐул		нѐтл	мѐнлѐмѐсн
8	7.71~8.29	а оѐлѐр	рѐонѐрѐрл	мѐусѐнѐлл		оѐрл	лѐусѐмѐпо
10	9.71~10.29	а оѐрѐлѐс	рѐунѐсѐлл	нѐнсѐнѐпл	н	оѐул	мѐмрѐмѐто
12	11.65~12.35	а пѐлѐт	сѐтуѐтѐлл	нѐпсѐнѐсл		пѐмл	мѐпрѐнѐло
16	15.65~16.35	а рѐлѐу	уѐнуѐуѐрл	оѐмнѐоѐол		пѐул	нѐмпѐнѐто
20	19.58~20.42	а сѐмѐл	фѐтуѐмлѐлл	оѐслѐоѐфл	о	сѐнл	нѐнрѐнѐус
25	24.58~25.42	а уѐмѐнр	мнѐтоѐмоѐлл	пѐтлѐрѐлл		тѐтл	оѐтоѐпѐос

Thread (6g)	L	PART NO.
M2x0.4	6	RND 610-00443
	10	RND 610-00441
	12	RND 610-00442
M2.5x0.45	4	RND 610-00446
	6	RND 610-00438
	8	RND 610-00447
	10	RND 610-00444
	16	RND 610-00445
	20	RND 610-00451
M3x0.5	6	RND 610-00453
	10	RND 610-00448
	12	RND 610-00449
	16	RND 610-00450
	25	RND 610-00452
M4x0.7	6	RND 610-00456
	10	RND 610-00454
	12	RND 610-00455
	16	RND 610-00440



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	мн	wb5 смлпллпрт
	нл	wb5 смлпллппру
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а сѐмѐл	мл	wb5 смлпллпсм
	мн	wb5 смлпллпсн
	мс	wb5 смлпллпсо
	нр	wb5 смлпллпсп
	ол	wb5 смлпллпспр
	пл	wb5 смлпллпсс

Cylindrical Slotted Screws

Features

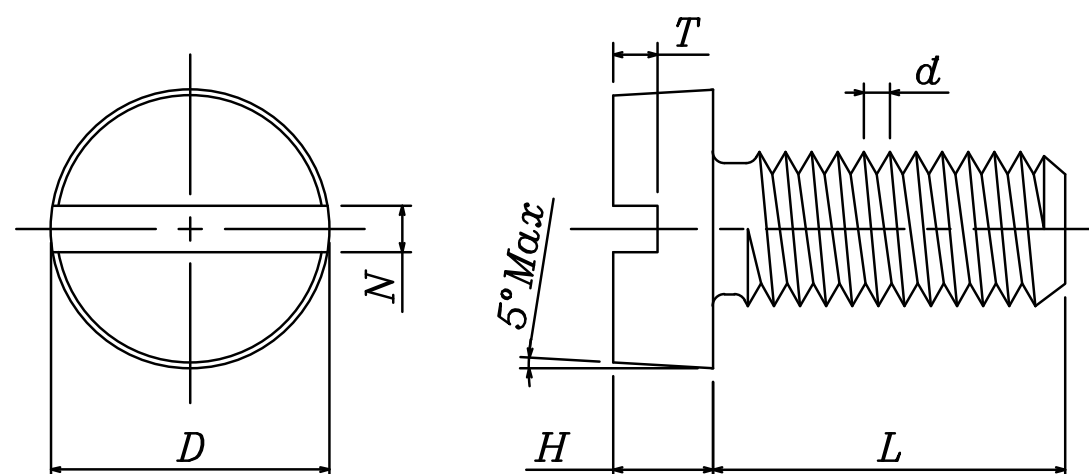
- No burrs and sharp edges
- Screw material: A2 stainless steel
- Passivated finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets DIN 84 standard



Length	L
5	4.76~5.24
10	9.71~10.29

Thread (6g)	L	PART NO.
M1x0.25	5	RND 610-00435
	10	RND 610-00434
M1.6x0.35	5	RND 610-00437
	10	RND 610-00436

Thread (6g)	D Head Diameter	H Head Height	N	T (Min)
M1x0.25	1.86~2.00	0.56~0.70	0.31~0.45	0.25
M1.2x0.25	2.16~2.30	0.66~0.80	0.36~0.50	0.30
M1.4x0.3	2.46~2.60	0.76~0.90	0.36~0.50	0.40
M1.6x0.35	2.86~3.00	0.86~1.00	0.46~0.60	0.45
M2x0.4	3.62~3.80	1.16~1.30	0.56~0.70	0.60
M2.5x0.45	4.32~4.50	1.46~1.60	0.66~0.80	0.70
M3x0.5	5.32~5.50	1.86~2.00	0.86~1.00	0.85
M3.5x0.6	5.82~6.00	2.26~2.40	1.06~1.20	1.00
M4x0.7	6.78~7.00	2.46~2.60	1.26~1.51	1.10
M5x0.8	8.28~8.50	3.12~3.30	1.26~1.51	1.30
M6x1.0	9.78~10.00	3.60~3.90	1.66~1.91	1.60
M8x1.25	12.73~13.00	4.70~5.00	2.06~2.31	2.00
M10x1.5	15.73~16.00	5.70~6.00	2.56~2.81	2.40



Cylindrical Acid-Proof Slotted Screws

Features

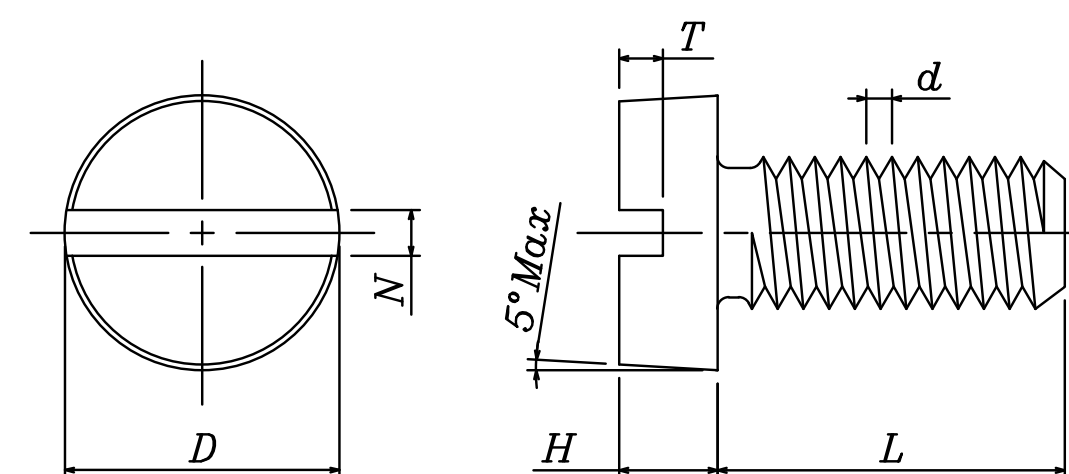
- No burrs and sharp edges
- Screw material: class 8.8 carbon steel, heat treat HRC 22-32
- Trivalent blue zinc 3.8 µm min. finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets DIN 84 standard



Length	L
12	11.65~12.35

Thread (6g)	L	PART NO.
M4x0.7	12	RND 610-00439

Thread (6g)	D Head Diameter	H Head Height	N	T (Min)
M1x0.25	1.86~2.00	0.56~0.70	0.31~0.45	0.25
M1.2x0.25	2.16~2.30	0.66~0.80	0.36~0.50	0.30
M1.4x0.3	2.46~2.60	0.76~0.90	0.36~0.50	0.40
M1.6x0.35	2.86~3.00	0.86~1.00	0.46~0.60	0.45
M2x0.4	3.62~3.80	1.16~1.30	0.56~0.70	0.60
M2.5x0.45	4.32~4.50	1.46~1.60	0.66~0.80	0.70
M3x0.5	5.32~5.50	1.86~2.00	0.86~1.00	0.85
M3.5x0.6	5.82~6.00	2.26~2.40	1.06~1.20	1.00
M4x0.7	6.78~7.00	2.46~2.60	1.26~1.51	1.10
M5x0.8	8.28~8.50	3.12~3.30	1.26~1.51	1.30
M6x1.0	9.78~10.00	3.60~3.90	1.66~1.91	1.60
M8x1.25	12.73~13.00	4.70~5.00	2.06~2.31	2.00
M10x1.5	15.73~16.00	5.70~6.00	2.56~2.81	2.40



Slotted Head Cap Screws

Features

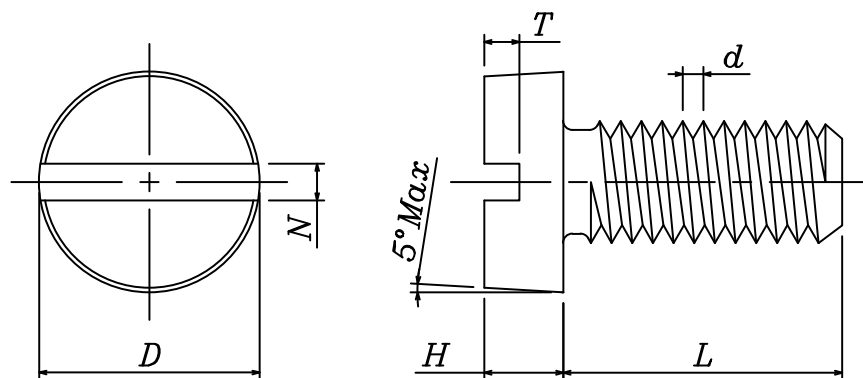
- No burrs and sharp edges
- Screw material class 4.8 carbon steel
- Trivalent blue zinc 3.8 μm min. finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets DIN 84 standard



Length	L
4	3.76~4.24
8	7.71~8.29
12	11.65~12.35
16	15.65~16.35
20	19.58~20.42
30	29.58~30.42
40	39.5~40.5
50	49.5~50.5
60	59.05~60.95

Thread (6g)	D Head Diameter	H Head Height	N	T (Min)
M1x0.25	1.86~2.00	0.56~0.70	0.31~0.45	0.25
M1.2x0.25	2.16~2.30	0.66~0.80	0.36~0.50	0.30
M1.4x0.3	2.46~2.60	0.76~0.90	0.36~0.50	0.40
M1.6x0.35	2.86~3.00	0.86~1.00	0.46~0.60	0.45
M2x0.4	3.62~3.80	1.16~1.30	0.56~0.70	0.60
M2.5x0.45	4.32~4.50	1.46~1.60	0.66~0.80	0.70
M3x0.5	5.32~5.50	1.86~2.00	0.86~1.00	0.85
M3.5x0.6	5.82~6.00	2.26~2.40	1.06~1.20	1.00
M4x0.7	6.78~7.00	2.46~2.60	1.26~1.51	1.10
M5x0.8	8.28~8.50	3.12~3.30	1.26~1.51	1.30
M6x1.0	9.78~10.00	3.60~3.90	1.66~1.91	1.60
M8x1.25	12.73~13.00	4.70~5.00	2.06~2.31	2.00
M10x1.5	15.73~16.00	5.70~6.00	2.56~2.81	2.40

Thread (6g)	L	PART NO.
M2x0.4	12	RND 610-00467
	16	RND 610-00468
	20	RND 610-00469
	30	RND 610-00470
M2.5x0.45	12	RND 610-00471
M3x0.5	8	RND 610-00474
	40	RND 610-00472
	60	RND 610-00473
M4x0.7	4	RND 610-00477
	16	RND 610-00475
	20	RND 610-00476
	40	RND 610-00478
	60	RND 610-00479
M5x0.8	8	RND 610-00482
	40	RND 610-00480
	50	RND 610-00481



Hex Head Cap Screws

Features

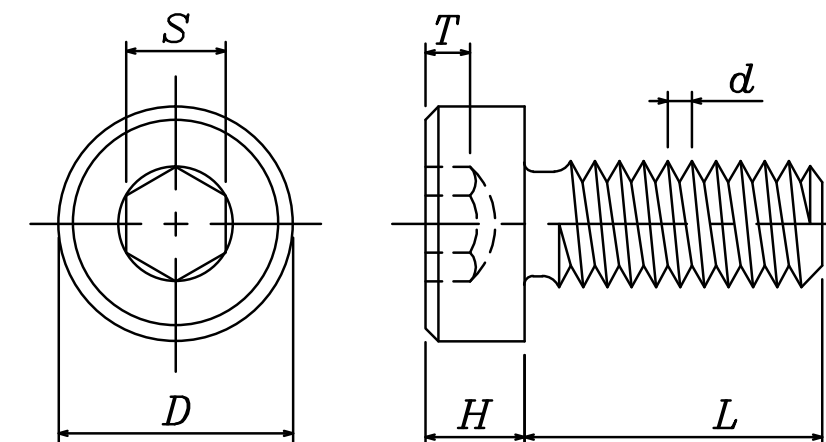
- No burrs and sharp edges
- Screw material A2 stainless steel
- Passivated finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets DIN 912 standard



Length	L
4	3.76~4.24
6	5.76~6.24
8	7.71~8.29
10	9.71~10.29
12	11.65~12.35
14	13.65~14.35
16	15.65~16.35
20	19.58~20.42
25	24.58~25.42
30	29.58~30.42
40	39.5~40.5

Thread (6g)	L	PART NO.
M2x0.4	4	RND 610-00492
	6	RND 610-00493
	8	RND 610-00494
	10	RND 610-00490
	12	RND 610-00491
M2.5x0.45	4	RND 610-00497
	6	RND 610-00498
	8	RND 610-00499
	10	RND 610-00495
	12	RND 610-00496
M3x0.5	6	RND 610-00504
	8	RND 610-00505
	10	RND 610-00500
	12	RND 610-00501
	16	RND 610-00502
M4x0.7	10	RND 610-00506
	12	RND 610-00507
	20	RND 610-00503
M5x0.8	25	RND 610-00508
	30	RND 610-00509

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а оѢлѳр	рѳонѳрѳрл	нѳусѳоѳлл	нѳрнѳнѳру	мѳол
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Thread (6g)	L	PART NO.
M6x1.0	10	RND 610-00510
	16	RND 610-00511
	20	RND 610-00512
	25	RND 610-00513
	30	RND 610-00514
	40	RND 610-00515

Hexalobular Socket Head Cap Screws

Features

- No burrs and sharp edges
- Screw material: A2 stainless steel
- Passivated finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets ISO 14580 standard

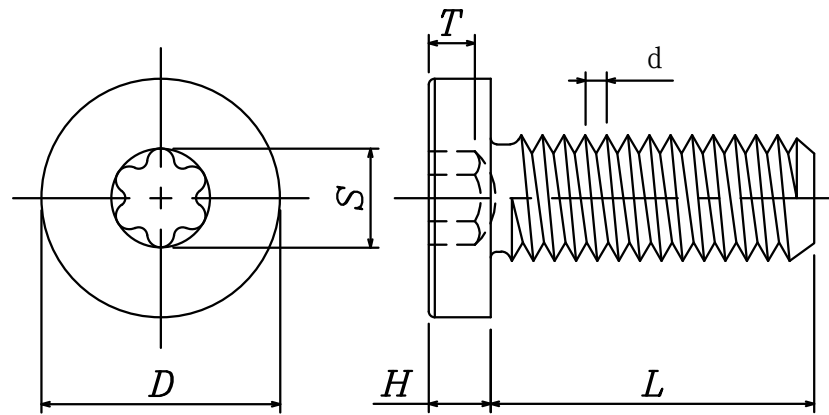


Length	L
4	3.76~4.24
6	5.76~6.24
8	7.71~8.29
10	9.71~10.29
12	11.65~12.35
16	15.65~16.35
20	19.58~20.42
25	24.58~25.42
30	29.58~30.42

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а оЕлФр	рФонЧрФрл	нФнсЧнФпл	Фмл	нФул	мФлмЧмФнт
а оФрЕлФс	рФунЧсФлл	нФпсЧнФсл	Фмр	оФор	мФлтЧмФоо
а пЕлФт	сФтуЧтФлл	нФфнЧоФмл	Фнл	оФфр	мФнтЧмФсс
а рЕлФу	уФнуЧуФрл	оФптЧоФср	Фнр	пФрл	мФрнЧмФФм
а сЕлмФл	фФтуЧмлФлл	пФмлЧпФпл	Фол	рФсл	мФфлЧнФнф
а уЕлмФнр	мнФтоЧмоФлл	рФрлЧрФул	Фпр	тФфр	нФссЧоФлр
а млЕмФр	мрФтоЧмсФлл	сФрпЧсФфл	Фрл	уФфр	оФлпЧоФпо

Thread (6g)	L	PART NO.
M2x0.4	4	RND 610-00519
	6	RND 610-00520
	8	RND 610-00521
M2.5x0.45	4	RND 610-00524
	6	RND 610-00525
	8	RND 610-00526
	10	RND 610-00522
M3x0.5	12	RND 610-00523
	6	RND 610-00535
	8	RND 610-00537
	10	RND 610-00527
	12	RND 610-00529
M4x0.7	16	RND 610-00531
	20	RND 610-00533
	8	RND 610-00549
	10	RND 610-00539
	16	RND 610-00542
	20	RND 610-00544
	25	RND 610-00546
	30	RND 610-00548

ΦKШI-ŘóсЭú	[	t !wФ bhФ
а рЕлФу	мл	wb5 смлпллррм
	мс	wb5 смлпллррп
	нл	wb5 смлпллррс
	нр	wb5 смлпллррп
а сЕлмФл	ол	wb5 смлпллрсл
	мл	wb5 смлпллрсм
	мс	wb5 смлпллрсн
	нл	wb5 смлпллрсо
	нр	wb5 смлпллрсп
	ол	wb5 смлпллрсп



Hexalobular Socket Head Cap Screws

Features

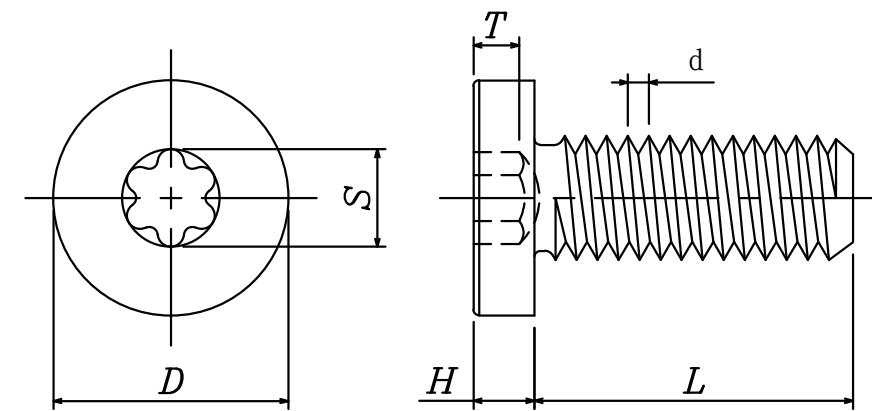
- No burrs and sharp edges
- Screw material: class 8.8 carbon steel, heat treat HRC 22-32
- Trivalent blue zinc 3.8 μm min. finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets ISO 14580 standard



Length	L
6	5.76~6.24
8	7.71~8.29
10	9.71~10.29
12	11.65~12.35
16	15.65~16.35
20	19.58~20.42
25	24.58~25.42

Thread (6g)	D Head Diameter	H Head Height	Six-lobe Recess	S (Ref)	T Drive Depth
M2x0.4	3.62~3.80	1.41~1.55	T6	1.75	0.71~0.84
M2.5x0.45	4.32~4.50	1.71~1.85	T8	2.40	0.78~0.91
M3x0.5	5.32~5.50	2.26~2.40	T10	2.80	1.01~1.27
M3.5x0.6	5.82~6.00	2.46~2.60	T15	3.35	1.07~1.33
M4x0.7	6.78~7.00	2.92~3.10	T20	3.95	1.27~1.66
M5x0.8	8.28~8.50	3.47~3.65	T25	4.50	1.52~1.91
M6x1.0	9.78~10.00	4.10~4.40	T30	5.60	1.90~2.29
M8x1.25	12.73~13.00	5.50~5.80	T45	7.95	2.66~3.05
M10x1.5	15.73~16.00	6.54~6.90	T50	8.95	3.04~3.43

Thread (6g)	L	PART NO.
M3x0.5	6	RND 610-00536
	8	RND 610-00538
	10	RND 610-00528
	12	RND 610-00530
	16	RND 610-00532
	20	RND 610-00534
M4x0.7	8	RND 610-00550
	10	RND 610-00540
	12	RND 610-00541
	16	RND 610-00543
	20	RND 610-00545
M5x0.8	25	RND 610-00547
	10	RND 610-00552
	12	RND 610-00553
	16	RND 610-00555
	20	RND 610-00557
	25	RND 610-00559



Oval-Head Phillips Screws

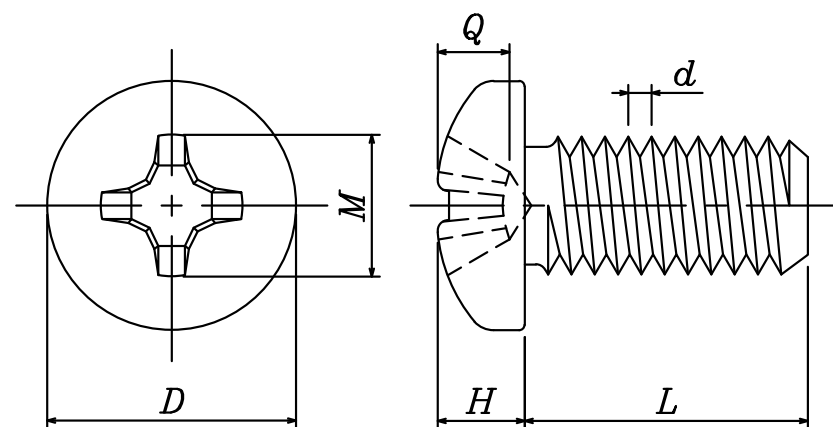
Features

- No burrs and sharp edges
- Screw material/A2 stainless steel
- Passivated finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets ISO 7985 standard



Length	L	Thread (6g)	D Head Diameter	H Head Height	Type H Drive Size	M (Ref) Drive Width	Q Drive Depth
5	4.75~5.25	M1.6x0.35	2.90~3.20	1.18~1.42	0	1.80	0.72~1.02
6	5.75~6.25	M2x0.4	3.70~4.00	1.48~1.72	1	2.50	1.10~1.40
8	7.70~8.30	M2.5x0.45	4.70~5.00	1.88~2.12		2.70	1.30~1.60
10	9.70~10.30	M3x0.5	5.70~6.00	2.28~2.52		3.10	1.70~2.00
12	11.65~12.35	M3.5x0.6	6.64~7.00	2.58~2.82	2	4.20	1.74~2.24
16	15.65~16.35	M4x0.7	7.64~8.00	2.95~3.25		4.60	2.04~2.54
25	24.58~25.42	M5x0.8	9.64~10.00	3.65~3.95		5.30	2.77~3.27
30	29.58~30.42	M6x1.0	11.57~12.00	4.45~4.75	3	6.80	3.03~3.53
40	39.5~40.5	M8x1.25	15.57~16.00	5.85~6.15	4	9.00	4.18~4.68
50	49.5~50.5	M10x1.5	19.48~20.00	7.32~7.68		10.20	5.38~5.88

Thread (6g)	L	PART NO.
M2x0.4	6	RND 610-00595
	8	RND 610-00592
	10	RND 610-00593
	12	RND 610-00594
M2.5x0.45	6	RND 610-00598
	8	RND 610-00599
	10	RND 610-00596
	12	RND 610-00597
M3x0.5	5	RND 610-00600
	6	RND 610-00601
	8	RND 610-00602
M4x0.7	6	RND 610-00608
	8	RND 610-00609
	10	RND 610-00603
	25	RND 610-00604
	30	RND 610-00605
	40	RND 610-00606
	50	RND 610-00607



Thread(6g)	L	PART NO.
M5x0.8	10	RND 610-00610
	12	RND 610-00611
	16	RND 610-00612
	40	RND 610-00613
	50	RND 610-00614

Oval-Head Torx Screws

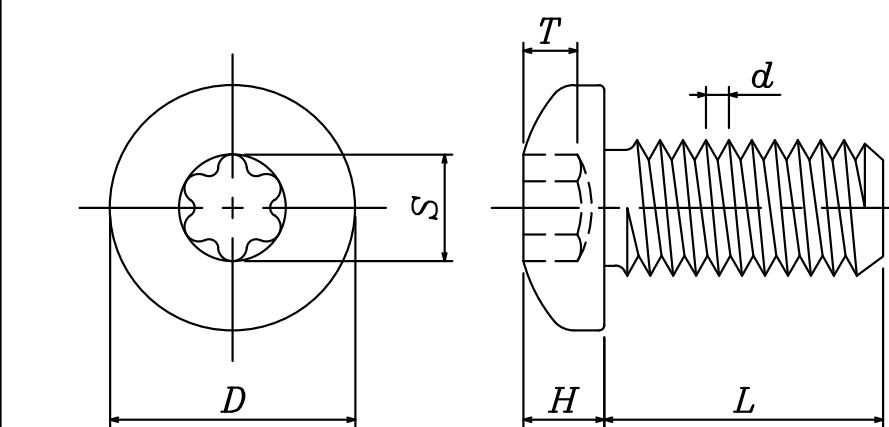
Features

- No burrs and sharp edges
- Screw material/A2 stainless steel
- Passivated finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets ISO 14583 standard



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мс	мрѳсрѳмсѳор	а рѢлѳу	ѳѳмпѳѳѳрл	оѳрнѳоѳтл	ѳнр	пѳрл	мѳрнѳмѳѳм
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Phillips Washer Head Screws

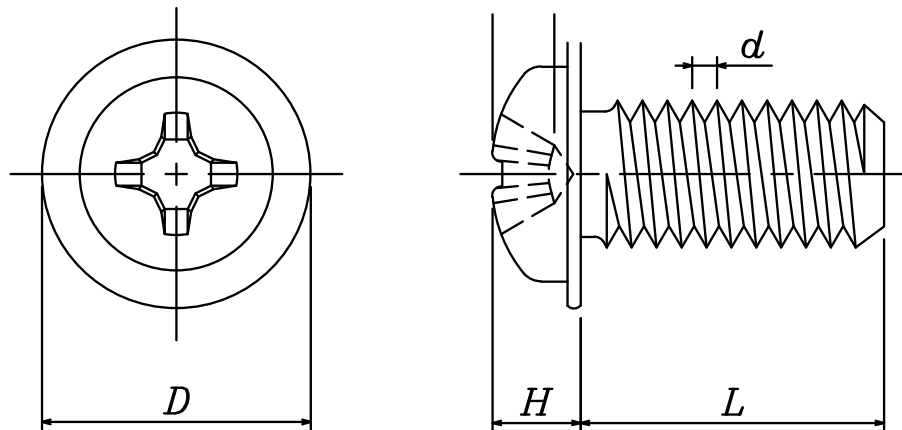
Features

- No burrs and sharp edges
- Material: Class 4.8 carbon steel
- Finish: Trivalent blue zinc / 3.8 μm min.
- Material and finish comply with 211/65/EU (RoHS)



Length	L	Thread (6g)	D(Max) Head Diameter	H(Max) Head Height	Type H Drive Size	M (Ref) Drive Width	Q Drive Depth
6	5.76~6.24	M2x0.4	5.00	1.90	1	2.20	0.60~1.00
8	7.71~8.29	M2.5x0.45	6.50	2.30		2.60	1.00~1.40
		M3x0.5	8.00	2.70	2	3.50	0.90~1.40
		M4x0.7	10.00	3.40		4.10	1.50~2.10

Thread (6g)	L	PART NO.
M3x0.5	6	RND 610-00618
	8	RND 610-00619



Torx Self Tapping Screws

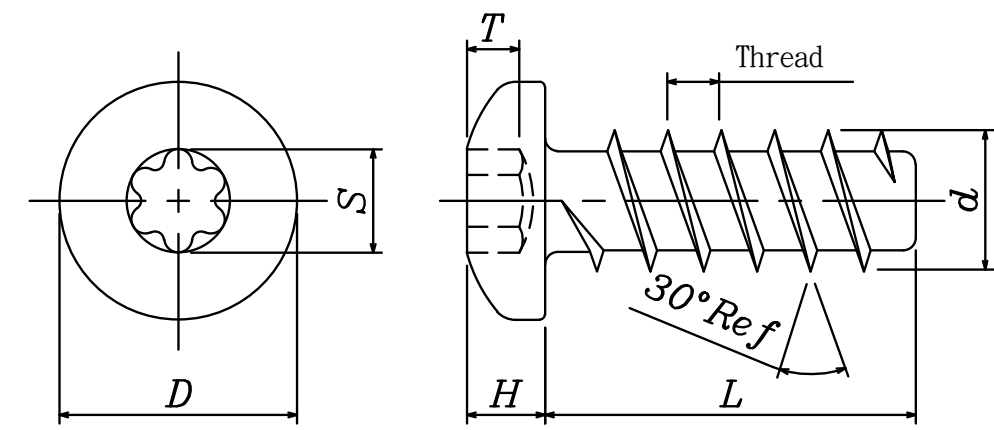
Features

- No burrs and sharp edges
- Material: 1018~1022 carbon steel, heat treat HV 400~550
- Finish: Zinc / 3.8 μm min. with blue chromate
- Material and finish comply with 211/65/EU (RoHS)



Length	L	Thread	D Head Diameter	H Head Height	Six-lobed Recess	S (Ref)	T Drive Depth	d
12	11.45~12.55	M3x1.35	5.30~5.60	2.26~2.40	T10	2.80	1.01~1.27	3.00~3.14

Thread (6g)	L	PART NO.
M3x1.35	12	RND 610-00620



Sheet Metal Pozidriv Screws

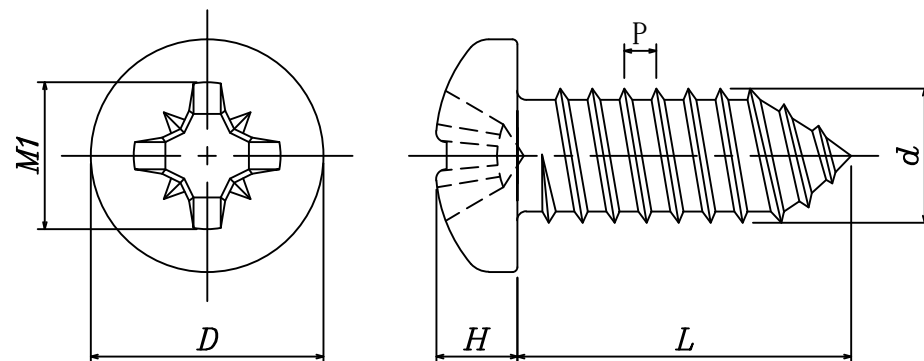
Features

- No burrs and sharp edges
- Material: 1018~1022 carbon steel
- Finish: Zinc / 3.8 μm min. with blue chromate
- Heat treat: Case harden surface HV450 min., core HV 270~370
- Material and finish comply with 211/65/EU (RoHS)
- Meets DIN 7981 standard



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	ффр	wb5 смлпллснс
а офрлмфо	ффр	wb5 смлпллснт
	ффр	wb5 смлпллснф
а оффлмфо	мсфл	wb5 смлпллснху
	мофл	wb5 смлпллснн
а пфнлмфп	мсфл	wb5 смлпллсол
	мфл	wb5 смлпллсно



Thread Forming Torx Screws

Features

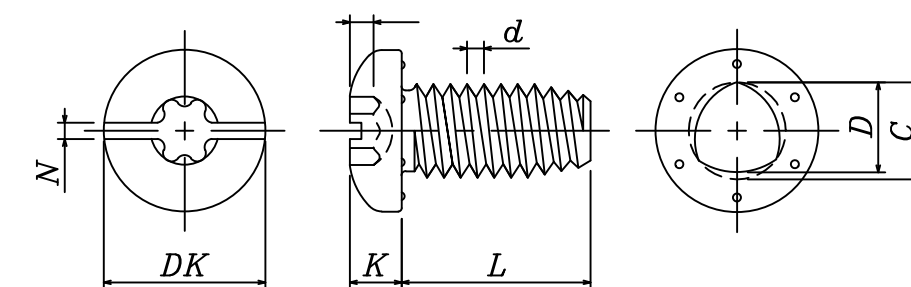
- No burrs and sharp edges
- 1018~1022 carbon steel material
- Trivalent blue zinc 3.8 μm finish
- Heat treat: case harden surface HV 450~560, core HV 290~370
- Material and finish comply with 211/65/EU (RoHS)
- Meets DIN 7985 standard



Length	L
5	4.75~5.25
6	5.75~6.25
8	7.70~8.30
10	9.70~10.30
12	11.65~12.35

Thread (6g)	DK Head Diameter	K Head Height	Six-lobe Recess	T(Max)	Thread (D)	Thread (C)	N(Min)
M3x0.5	5.70~6.00	2.28~2.52	T10	1.20	2.88~2.97	2.98~3.07	0.60
M4x0.7	7.64~8.00	2.95~3.25	T20	1.90	3.84~3.94	3.98~4.08	1.00

Thread	L	PART NO.
M3x0.5	5	RND 610-00705
	6	RND 610-00389
	8	RND 610-00390
M4x0.7	6	RND 610-00393
	8	RND 610-00394
	10	RND 610-00391
	12	RND 610-00392



Hexagon Bolts

Features

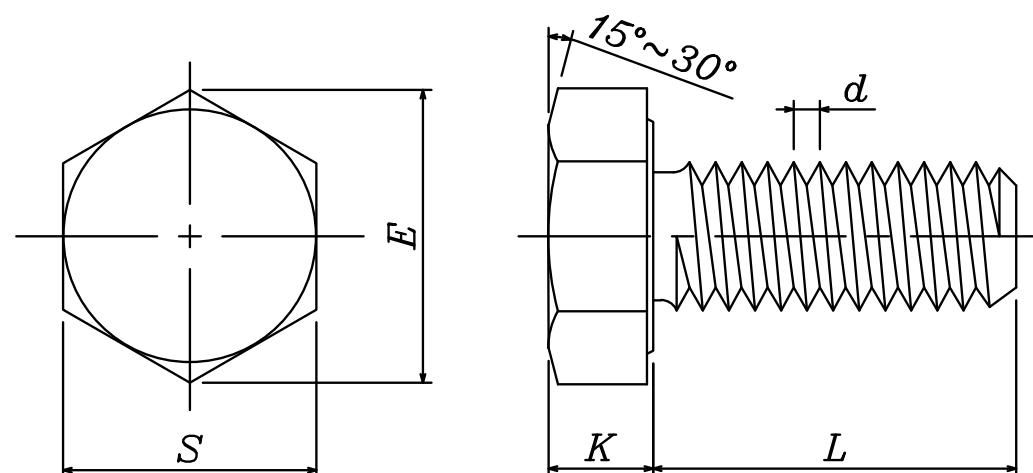
- No burrs and sharp edges
- Screw material: class 8.8 carbon steel, heat treatment HRC 22-32
- Trivalent blue zinc / 3.8 µm finish
- Material and finish comply with 2011/65/EU (RoHS)
- Meets DIN 933 standard



Length	L
20	19.58~20.42
25	24.58~25.42
30	29.58~30.42

Thread (6g)	L	PART NO.
M8x1.25	20	RND 610-00516
	25	RND 610-00517
	30	RND 610-00518

Thread(6g)	S	K	E(Min)
M1.6x0.35	3.02~3.20	0.98~1.22	3.41
M2x0.4	3.82~4.00	1.28~1.52	4.32
M2.5x0.45	4.82~5.00	1.58~1.82	5.45
M3x0.5	5.32~5.50	1.88~2.12	6.01
M3.5x0.6	5.82~6.00	2.28~2.52	6.58
M4x0.7	6.78~7.00	2.68~2.92	7.66
M5x0.8	7.78~8.00	3.35~3.65	8.79
M6x1.0	9.78~10.00	3.85~4.15	11.05
M8x1.25	12.73~13.00	5.45~5.45	14.38
M10x1.5	16.73~17.00	6.22~6.56	18.90
M12x1.75	18.67~19.00	7.32~7.68	21.10
M16x2.0	23.67~24.00	9.82~10.18	26.75
M20x2.5	29.67~30.00	12.28~12.72	33.53



Cheese Head Slotted Polyamide Screws

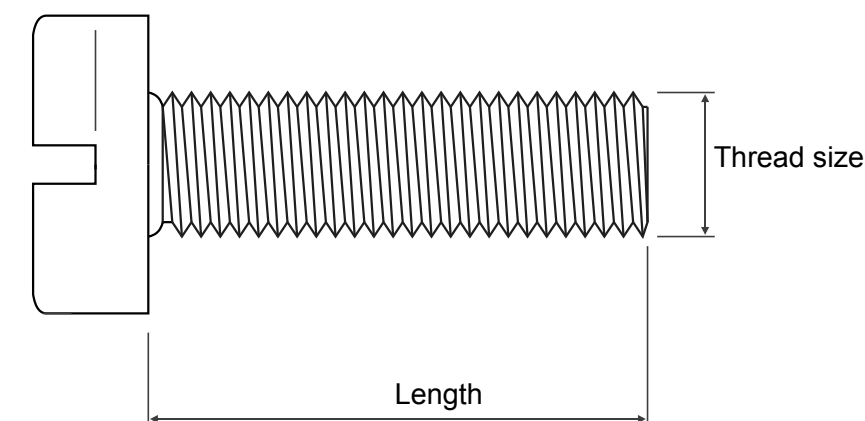
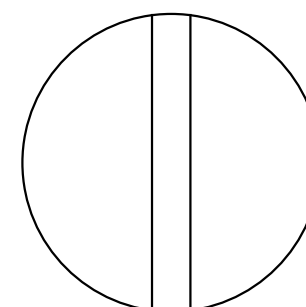
Features

- Deep slot in the screw head for an increased drive
- Durable and lightweight
- Good electrical and thermal insulating properties
- Resistant to greases and oils
- Meets DIN 84 ~ISO 1207 standard



PRODUCT RANGE:

Art. Nr.	Thread	Length	Head Diameter	Head Size
RND 610-00018	M3	10 mm	5.5 mm	0.8 mm
RND 610-00019	M3	5 mm	5.5 mm	0.8 mm
RND 610-00020	M3	6 mm	5.5 mm	0.8 mm
RND 610-00021	M3	12 mm	5.5 mm	0.8 mm
RND 610-00022	M3	20 mm	5.5 mm	0.8 mm
RND 610-00023	M4	6 mm	7 mm	1.2 mm
RND 610-00024	M4	12 mm	7 mm	1.2 mm
RND 610-00025	M4	16 mm	7 mm	1.2 mm
RND 610-00026	M4	20 mm	7 mm	1.2 mm
RND 610-00027	M5	12 mm	8.5 mm	1.2 mm
RND 610-00028	M5	20 mm	8.5 mm	1.2 mm
RND 610-00029	M5	30 mm	8.5 mm	1.2 mm
RND 610-00030	M6	12 mm	10 mm	1.6 mm
RND 610-00031	M6	30 mm	10 mm	1.6 mm
RND 610-00294	M6	20 mm	10 mm	1.6 mm



Nuts

Nuts are used extensively in a number of applications including consumer electronics, appliances, data servers, specialist vehicles and retail displays. Nuts hold components through the friction of the bolt and nut threads when applied against one another

Size

Metric measurements for nut size typically indicate nominal diameter, coarse thread and fine thread, all of which are measured in millimeters. Metric nuts are also available in five different tolerances rated from 4 to 8. The lower the tolerance value, the less tolerance a nut will have. Nuts with higher tolerance values offer greater tolerance for space between the nut and bolt threads

Types of Nut

Nuts are available in either “locking” or “non-locking” variations with examples of each including

Locking	Non-locking
Castle nuts	Acorn nuts
Flange nuts	Anchor nuts
Insert nuts	Cage nuts
Jam nuts	Coupling nuts
Jet nuts	Finger nuts
Kep nuts	Hex nuts
Palnuts	Push nuts
Speed nuts	Square nuts
Split beam nuts	Washer nuts



It is worth noting that two non-locking nuts, when torqued against one another, can create a locking action

The hex nut is one of the most commonly used types of nut, with a six-sided diameter it offers the optimal compromise between torque angle and footprint size

Material

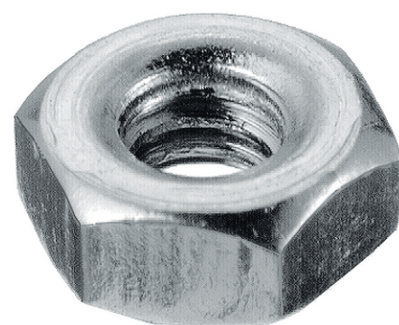
Nuts are commonly made from metal but are also available in other materials. The choice of nut material will depend on the application as different materials offer different properties

- Aluminium- light, resistant to oxidation and with an ability to conduct heat and electricity
- Brass- strong, corrosion resistant, conductive and offers low magnetic permeability
- Copper alloy- offers good load capacity, wear resistance and is suitable for dynamic loads
- Steel- strong, carbonated iron but when uncoated, steel is susceptible to corrosion
- Stainless steel- chemical and corrosion resistant with an aesthetic finish
- Titanium- hard, strong, light and corrosion resistant
- Nylon- tough and resistant material with good pressure ratings
- Plastic- inexpensive and corrosion resistant
- PVC- flexible, smooth and non-toxic, PV nuts are resistant to chemicals
- Rubber- used in specific applications requiring vibration and noise dampening

Hex Nuts

Features

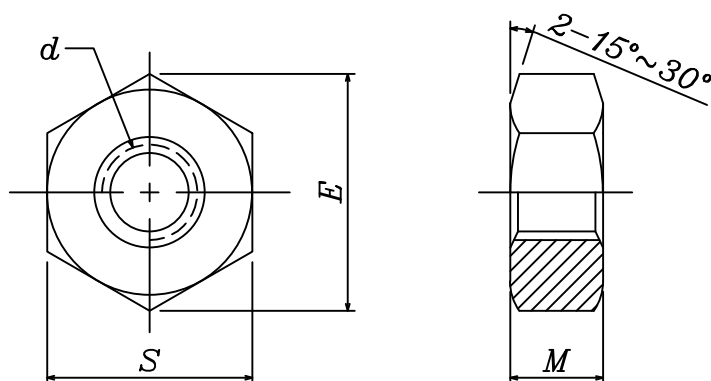
- No burrs and sharp edges
- Material: A2 stainless steel
- Passivated finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets DIN 934 standard



Thread (6g)	PART NO.
M2x0.4	RND 610-00483
M2.5x0.45	RND 610-00484
M3x0.5	RND 610-00485
M4x0.7	RND 610-00486
M5x0.8	RND 610-00487
M6x1.0	RND 610-00488
M8x1.25	RND 610-00489

Thread(6H)	S	M	E (Min)
M6x1.0	9.78~10.00	4.70~5.00	11.05
M8x1.25	12.73~13.00	6.14~6.50	14.38
M10x1.5	16.73~17.00	7.64~8.00	18.90
M12x1.75	18.67~19.00	9.64~10.00	21.10
M14x2.0	21.67~22.00	10.30~11.00	24.49
M16x2.0	23.67~24.00	12.30~13.00	26.75
M18x2.5	26.16~27.00	14.30~15.00	29.56
M20x2.5	29.16~30.00	14.90~16.00	32.95
M24x3.0	35.00~36.00	17.00~19.00	39.55
M30x3.5	45.00~46.00	22.70~24.00	50.85

Thread(6H)	S	M	E (Min)
M1x0.25	2.40~2.50	0.55~0.80	2.71
M1.2x0.25	2.90~3.00	0.75~1.00	3.28
M1.4x0.3	2.90~3.00	0.95~1.20	3.28
M1.6x0.35	3.02~3.20	1.05~1.30	3.41
M2x0.4	3.82~4.00	1.35~1.60	4.32
M2.5x0.45	4.82~5.00	1.75~2.00	5.45
M3x0.5	5.32~5.50	2.15~2.40	6.01
M3.5x0.6	5.82~6.00	2.55~2.80	6.58
M4x0.7	6.78~7.00	2.90~3.20	7.66
M5x0.8	7.78~8.00	3.70~4.00	8.79



Hex Polyamide Nuts

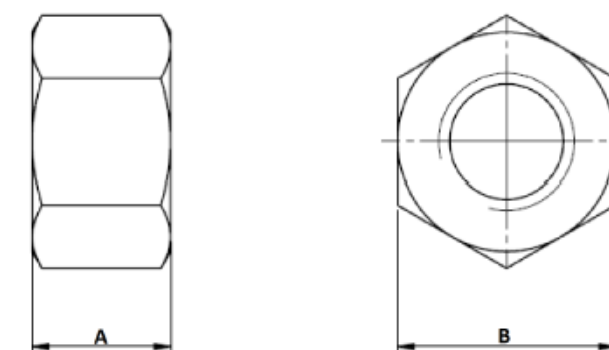
Features

- Ability to self-extinguish
- Can withstand oils, greases and solvents
- Lightweight
- Wear resistant
- Non-magnetic
- Meets DIN 555 standard



PRODUCT RANGE:

Art. Nr.	Thread	A	B
RND 610-00069	M3	2.4 mm	5.5 mm
RND 610-00070	M4	3.2 mm	7.0 mm
RND 610-00071	M5	4.2 mm	8.0 mm
RND 610-00072	M6	5.0 mm	10.0 mm



Washers

Washers are placed through the end of threaded fasteners such as screws and bolts, but is not driven into the surface. An important component, the lifespan of products can be dramatically reduced if washers are not used. They are ideal for:

- Load distribution- washers evenly distribute the load of the threaded fastener. This is important as threaded fasteners often stress the material into which they are being driven. By using a washer the risk of damage is reduced as the fastener's load is evenly distributed across the surface of the material. Washers are not always required but are ideal when used with soft materials such as wood
- Spacing- if the screw/bolt is longer than the depth of the object that it is being driven in to, then once fully inserted, the threaded fastener will protrude beyond the other side of the object. To avoid this from happening, a washer can be placed on the threaded fastener before it is driven in to the object
- Absorbing vibration- some washers are designed to absorb vibrations. These are typically made from rubber or plastic rather than metal. This type of washer is ideal where two objects are being connected and one of them produces vibrations as such a washer can ensure that the other object being connected is not damaged
- Liquid protection- ideal for use in water pipes or environments where a waterproof seal is required, liquid-sealing washers can be secured tightly against an object to prevent the ingress of water and liquids

It is therefore essential to choose the right washer for your application to ensure optimum use and to maintain the longevity of the products used

1. Flat washers

- Applications: general manufacturing, maintenance and repair
- Uses: ideal for distributing the fastener's load while reducing heat and friction during the tightening process. Flat washers can also be used to provide electrical insulation and as spacers in some domestic and industrial applications

2. Lock washers

- Applications: automotive, aerospace and domestic appliances
- Uses: work well with fasteners that tend to rotate or lose friction due to vibration or torque. Lock washers hold the nut and bolt securely in place and so are ideal for transportation industries

3. Tab washers

- Applications: aerospace and medical applications
- Uses: designed to use flat, lock washers feature single or multiple tabs that are formed to shape around bolts and nuts. Perfect for harsh environments, these washers can endure extreme heat conditions and heavy vibrations

4. Shoulder washers

- Applications: electronics
- Uses: often used in electronics, shoulder washers are used as a bushing to insulate fasteners and shafts within electronic equipment. Made from non-conductive materials such as nylon, these washers should not be used in humid environments

5. Countersunk washers

- Applications: furniture, freshwater marine applications
- Uses: enable flat/oval head countersunk screws to be installed flush with the part surface. In addition to functionality, countersunk washers are aesthetically pleasing and so are often used on cabinetry and furniture

6. Spring washers

- Applications: furniture, freshwater marine applications
- Uses: enable flat/oval head countersunk screws to be installed flush with the part surface. In addition to functionality, countersunk washers are aesthetically pleasing and so are often used on cabinetry and furniture

Fasteners and washers are simple yet crucial components that every maintenance professional uses on a daily basis. The RND range is ideal with a broad range of fasteners and washers to enhance your applications. These quality components are safety compliant, durable and reliable whilst offering competitive pricing and cost savings compared to other brands.

Flat Washers

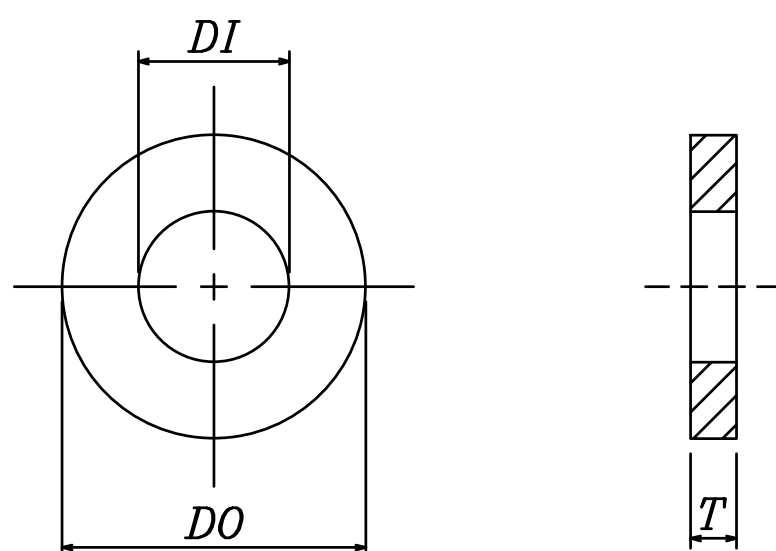
Features

- No burrs and sharp edges
- Material: SPCC carbon steel, 140 HV
- Finish: Trivalent blue zinc / 3.8 μm min.
- Material and finish comply with 211/65/EU (RoHS)
- Meets DIN 125A standard



M	PART NO.
M2	RND 610-00615
M2.5	RND 610-00633
M3	RND 610-00634
M4	RND 610-00635
M5	RND 610-00636
M6	RND 610-00637

M	DI	DO	T
M1.6	1.70~1.84	3.70~4.00	0.25~0.35
M2	2.20~2.34	4.70~5.00	0.25~0.35
M2.3	2.50~2.64	5.70~6.00	0.45~0.55
M2.5	2.70~2.84	5.70~6.00	0.45~0.55
M2.6	2.80~2.94	6.64~7.00	0.45~0.55
M3	3.20~3.38	6.64~7.00	0.45~0.55
M3.5	3.70~3.88	7.64~8.00	0.45~0.55
M4	4.30~4.48	8.64~9.00	0.70~0.90
M5	5.30~5.48	9.64~10.00	0.90~1.10
M6	6.40~6.62	11.57~12.00	1.40~1.80
M8	8.40~8.62	15.57~16.00	1.40~1.80



Flat Washers

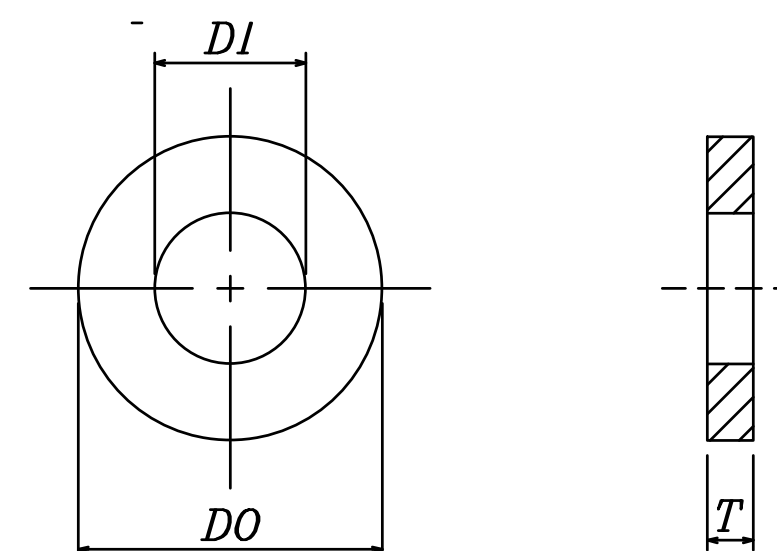
Features

- No burrs and sharp edges
- Material: A2 stainless steel, 140 HV
- Passivated finish
- Material and finish comply with 211/65/EU (RoHS)
- Meets DIN 125A standard



M	PART NO.
M2.5	RND 610-00638
M3	RND 610-00639
M4	RND 610-00640
M5	RND 610-00632

M	DI	DO	T
M1.6	1.70~1.84	3.70~4.00	0.25~0.35
M2	2.20~2.34	4.70~5.00	0.25~0.35
M2.3	2.50~2.64	5.70~6.00	0.45~0.55
M2.5	2.70~2.84	5.70~6.00	0.45~0.55
M2.6	2.80~2.94	6.64~7.00	0.45~0.55
M3	3.20~3.38	6.64~7.00	0.45~0.55
M3.5	3.70~3.88	7.64~8.00	0.45~0.55
M4	4.30~4.48	8.64~9.00	0.70~0.90
M5	5.30~5.48	9.64~10.00	0.90~1.10
M6	6.40~6.62	11.57~12.00	1.40~1.80
M8	8.40~8.62	15.57~16.00	1.40~1.80



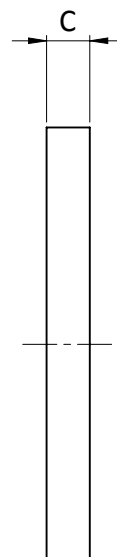
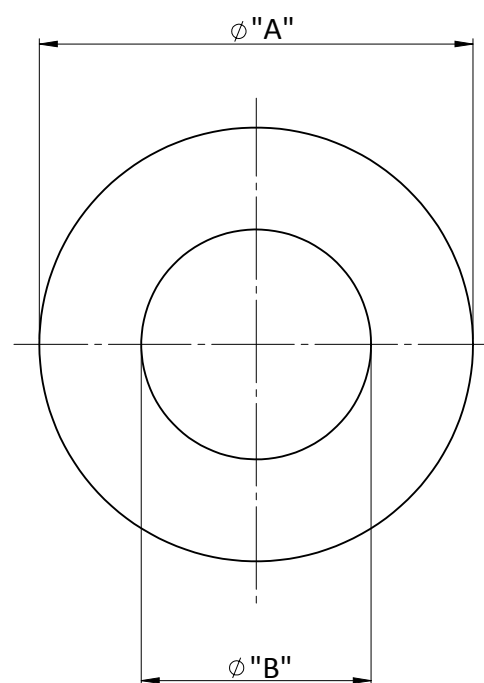
Flat Washers

Features

- Used with a threaded fastener such as a screw or bolt
- Distributing the load of a threaded fastener for example, screw or nut
- Preventing damage to the surface it is being fixed to during tightening
- Provides a smooth surface for the nut or bolt to bear on to
- Meets DIN 125A ~ISO 7089 ~BS 4320A standards



Art. Nr.	Thread	A	B	C
RND 610-00134	M3	7.0 mm	3.2 mm	0.5 mm
RND 610-00135	M4	9.0 mm	4.3 mm	0.8 mm
RND 610-00136	M5	10 mm	5.3 mm	1.0 mm
RND 610-00137	M6	12 mm	6.4 mm	1.6 mm





www.rnd-electronics.com