

FASTENERS

SELECTION GUIDE

Choose from our most popular range of fasteners

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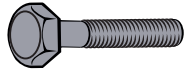
November 2015

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COMMON FASTENER TYPES



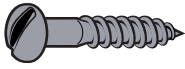
Hex bolts

Hex bolts are partially threaded and are used in machinery and construction applications. Can be used with a nut or in a tapped hole and are tightened with a wrench.



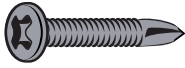
Hex set screws

Hex set screws are similar to the Hex bolt but are fully threaded instead of partially threaded. They are also used in machinery and construction applications and can be used with a nut or in a tapped hole.



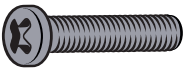
Wood screws

Wood screws are primarily used in carpentry applications. They provide a strong clamping force which strengthens the joint between two materials. Wood screws are suitable for fixing hinges, bolts, locks and other door hardware.



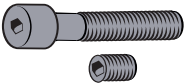
Self-drilling, Self-tapping and Thread-forming screws

These are screws which form a thread as they are inserted. The choice of screw used will depend upon the material, its thickness and the application. A pilot hole may be required.



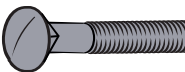
Machine screws

Machine screws are fully threaded and are used with a nut or in a tapped hole. They can be used in many applications where a high strength fastener is not required. The drive type dictates the appropriate screwdriver required.



Socket screws

Socket screws have an internal hex drive and are tightened using a hex key. Often they are used in applications where there is limited clearance. A headless version is available and is known as a socket set screw or grub screw.



Carriage bolts

Carriage bolts, also known as coach bolts, have a domed head with a square section underneath that pulls into the material or a square hole to prevent spinning during installation.



Nuts

Nuts are used with machine threaded fasteners in through-hole applications. Hex nuts are the most common type and are for general-purpose fastening applications. Other types are chosen depending on the application required. These include locking nuts, which are used when a greater resistance to vibrations and torque is required.



Washers

Washers are generally used with a machine threaded fastener and nut to spread the load over a greater surface area when tightening a bolt, screw or nut.

FASTENER MATERIALS

Zinc plated steel

Zinc plating provides moderate corrosion resistance suitable for indoor use in a dry environment.



Hot dipped galvanised steel

Hot dipped galvanised steel has a thicker zinc coating for better corrosion resistance, making it suitable for outdoor use. The finish is typically dull and rough. Only galvanised nuts and washers will fit galvanised fasteners.



Stainless steel

Stainless steel offers good corrosion resistance, making it suitable for outdoor applications but is more expensive than zinc plated or galvanised steel.



The two most common grades of stainless steel are A2 (304) and A4 (316). Both grades will offer a good form of corrosion resistance and both are able to handle low (cryogenic) and high temperatures. A4 grade has a higher corrosion resistance than A2 grade and should be chosen in higher corrosive and chemical environments, including contact with dilute sulphuric acid and acetic acid. However A4 should be chosen for marine conditions.

Brass

Brass is a copper alloy which is more expensive than steel but provides a better level of corrosion resistance. It is used when a decorative finish is required and also in marine applications.



Chrome and nickel plated steel

Chrome and nickel plated steel have a smooth, polished appearance and are used where a decorative finish is desired. The nickel plating gives moderate corrosion resistance.



Alloy steel

Alloy steel is used when a high strength fastener is required. Usually produced with a black oxide finish which offers little corrosion resistance and so is not recommended for outdoor use.



Nylon

Nylon fasteners offer good value and are ideal where a corrosion-free, lightweight solution is required. They offer good insulation resistance and can be used in high voltage assemblies.



Titanium

Titanium fasteners are non-toxic and offer lightness and very high corrosion resistance that makes them ideal for where these attributes are vital. Comparatively more expensive than other types.





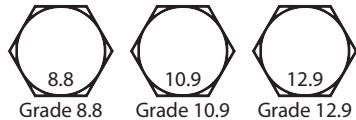
FASTENERS SELECTION GUIDE

GRADES AND STRENGTHS

The fastener grade indicates the mechanical properties of the material and is stamped onto the head of a bolt or screw.

A higher number indicates a stronger, more hardened material. So grade 12.9 will be stronger than 10.9.

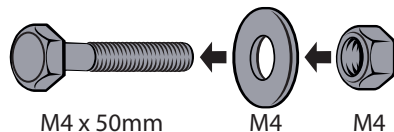
A manufacturer's stamp may also be marked.



NUT AND WASHER SIZES

Nut and washer sizes indicate the size of screw or bolt they fit.

In the case of metric machine threaded fasteners, the thread size will denote the size of screw or bolt required.

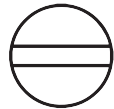


THREAD PITCH

Metric fasteners have a specific thread pitch depending on the size and thread type of the fastener.

Generally the thread pitch is the distance between threads expressed in millimetres (measured along the length of the fastener). For example a thread pitch of 1.5 means that the distance between one thread and the next is 1.5mm.

DRIVE TYPES



Slotted

Highly versatile, most commonly used in woodworking applications.



Pozidriv

An improved version of the traditional Phillips drive. Pozidrivs are less likely to cam out and allow for greater torque pressure.



Hex socket

Used with a Hex key in applications where there is limited space.



Torx

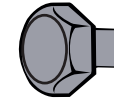
Very common in automotive applications and highly resistant to slippage or cam-out.



Security

A range of tamperproof types with a spigoted recess, virtually eliminating unauthorised removal.

HEAD TYPES



Hex

Used for larger bolts and set screws. Fastened with a spanner or socket.



Pan

Consists of a raised, domed head which sits above the material surface.



Countersunk (flat)

Fastened into a countersunk hole with head sitting flush with the material surface.



Countersunk (raised)

Fastened into a countersunk hole and with an oval, raised head for decorative purposes.



Socket

Narrow head with a hex socket drive.



Button

Consists of a low profile, rounded, dome-shaped head, typically with a slotted or hex socket drive.

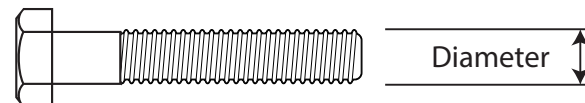


Cheese

A cylindrical shaped head with straight sides that sits above the material surface.

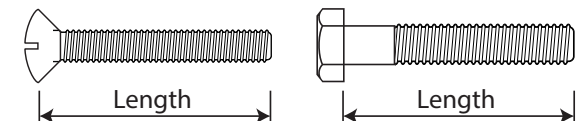
MEASURING DIAMETER

The diameter is measured **across** the threaded portion on the **outside of the thread**.



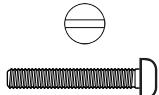
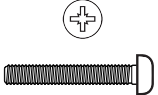
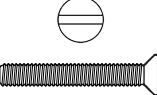
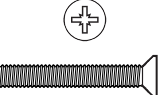
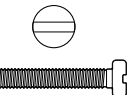
MEASURING LENGTH

Countersunk fasteners are measured over the **whole** length. All other types are measured from **under** the head. Fastener length is measured from where the material surface is assumed to be, to the end of the fastener.

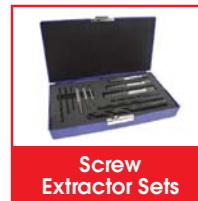
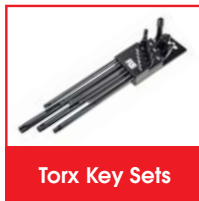




M2 - M3.5 POZI / SLOTTED / TORX

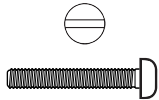
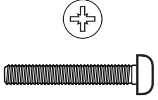
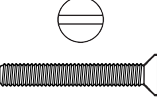
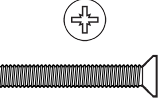
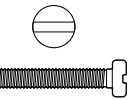
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	BZP	NP Brass	Brass	A2	A4	BZP	NP Brass	Black ZP	A2	A4	BZP	A2	BZP	NP Brass	A2	A4	BZP	A2	A4	NP Brass	A2	BZP	NP Brass
M2x6mm	560-704	482-7679	483-1325	526-906		560-530	482-7714		528-693					482-7685									
M2x12mm	560-710	482-8458	483-1331	526-912		560-546	483-0035		528-700					482-9114									
M2x16mm														482-9120									
M2.5x6mm	560-726	482-8464		526-928		560-552	483-0041		528-716		482-7455		448-7940	482-9142								546-6102	482-9726
M2.5x10mm									797-6190													546-6118	482-9732
M2.5x12mm	560-732	482-8470		526-934		560-568	483-0057		528-722		482-7887		448-7956	482-9158								546-6124	482-7708
M2.5x16mm		482-8486		130-606			483-0063							482-9164									
M2.5x20mm	560-748	482-8492				560-574	483-0079							482-9170								546-6146	482-9748
M2.5x25mm		482-8509					483-0085																
M3x6mm	560-754	482-8515	483-1381	526-940	189-298	560-580	483-0091	483-0934	528-738	190-428	482-7893	262-5847	553-841	482-9186	527-151	158-3332	553-396	528-946	158-3562	482-7691		546-6152	482-9754
M3x8mm					189-305				797-6193	190-434													
M3x10mm	560-760			526-956	189-311	560-596		483-0940	528-744	190-440												546-6168	482-9760
M3x12mm	560-776	482-8521	483-1397	526-962	189-327	560-603	483-0108	483-0962	528-750	190-456	482-7900	262-5853	553-857	482-9192	527-167	158-3348	553-403	528-952	158-3578	482-9518	262-5651	546-6174	
M3x16mm	560-782	482-8537		526-978	189-333	560-619	483-0114		528-766	190-462				482-9209		158-3354			158-3584	482-9524		546-6180	482-9782
M3x20mm	560-798	482-8543	483-1410	526-984		560-625	483-0120		528-772	190-478	482-7916		553-863	482-9215		158-3360	553-419	528-968	158-3590			546-6196	
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M3x30mm		482-8571	483-1432	130-628		560-647	483-0142							482-9221									
M3.5x6mm		482-8587												482-9237									
M3.5x12mm	560-827	482-8593				560-653			528-788					482-9243						482-9530			
M3.5x16mm		482-8600												482-9259						482-9546			
M3.5x20mm		482-8616				560-669			528-794											482-9552			
M3.5x25mm																				482-9568			
M3.5x30mm		482-8638												482-9265						482-9580			
M3.5x35mm																				482-9596			
M3.5x40mm																				482-9603			
M3.5x50mm																				482-9619			
M3.5x60mm																				482-9625			
M3.5x70mm																				482-9647			

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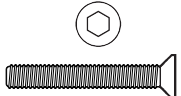
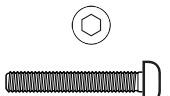
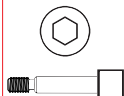
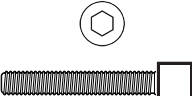
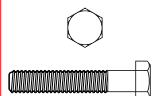
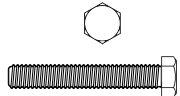


M4 - M8 POZI / SLOTTED / TORX

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	BZP	NP Brass	Brass	A2	A4	BZP	NP Brass	Black ZP	A2	A4	BZP	A2	BZP	NP Brass	A2	A4	BZP	A2	A4	NP Brass	A2	BZP	NP Brass
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M4x8mm					189-361				797-6197	190-484										482-9653			
M4x10mm	560-855			527-022	189-377	560-681		483-0984	528-817	190-490												546-6225	482-9833
M4x12mm	560-861	482-8650	483-1511	527-038	189-383	560-697	483-0164	483-0990	528-823	190-507	482-7950	262-5926	553-879	482-9287	527-189	158-3382	553-425	528-974	158-3613			546-6231	
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M4x20mm	560-013	482-8672	483-1549	527-050	189-406	553-560	483-0192		528-845	190-529	482-7966		553-891		527-202	158-3411	553-447	528-996	158-3635	482-9681		546-6253	482-9877
M4x25mm	560-029	482-8688	483-1555	527-066	189-412	553-576	483-0209		528-851	190-535			553-908	482-9316		158-3427	553-453		158-3641			546-6269	
M4x30mm	560-035	482-8694	483-1561	130-634	189-428	553-582	483-0215		797-6207					482-9322						482-9704		546-6275	482-9899
M4x40mm	560-041	482-8701		130-640		553-598	483-0221		797-6200					482-9338						482-9710			
M4x50mm	290-073	482-8717	483-1577	130-656																			
M5x6mm		482-8723					483-0243							482-9344									
M5x8mm					189-434				797-6204														
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M5x12mm	560-063	482-8739	483-1599	527-072	189-456	553-611	483-0259	483-1016	528-867	190-557	482-7972	262-5960	553-914	482-9366	527-280	158-3433	553-469	529-006	158-3657		262-5768	546-6310	
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M5x20mm	560-085	482-8751	483-1612	527-094	189-478	553-633	483-0271		528-889	190-579	482-7988		553-936	482-9388	527-296	158-3461	553-481	529-012	158-3685			546-6332	482-9956
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M5x35mm									797-6210														
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M6x10mm	560-114				189-507	553-661				190-585													
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M6x16mm	560-136	482-8824	483-1662	527-123	189-529	553-683		483-1050	528-918	190-608			546-1589			158-3506	553-510		158-3720		262-5819	546-6376	
M6x20mm	560-142	482-8830	483-1678	527-139	189-535	553-699		483-1066	528-924	190-614	482-8026	262-6036	553-970	482-9467	527-325	158-3528	553-526	529-040	158-3742			546-6382	482-9990
M6x25mm	560-158	482-8852	483-1690	527-145	189-541	553-706			528-930	190-620	482-8032	262-6042	546-1595	482-9473	527-331	158-3534	553-532	529-056	158-3758		262-5831	546-6398	483-0007
M6x30mm		482-8868	483-1707	130-690	189-557					190-636						158-3540			158-3764			546-6405	
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M6x50mm	290-095	482-8880	483-1713	130-713										482-9502									
M6x60mm				130-729																			
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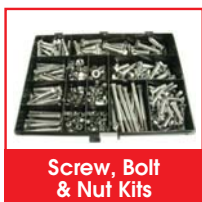
M2 - M4 HEX

	Hex Socket Csk Screw Din 7991				Hex Socket Button Screw ISO 7380				Hex Socket Shoulder Screw ISO 7379	Hex Socket Cap Screw Din 912					Grub Screw / Socket Set Screw Din 916			Hex Head Bolt Din 931		Hex Head Set Screw Din 933			
																							
	BZP	Black Oxide	A2	A4	BZP	Black Oxide	A2	A4	Black Oxide	BZP	Black Oxide	A2	A4	Titanium	Black Oxide	A2	A4	BZP	A2	BZP	Brass	A2	A4
M2x3mm															431-965								
M2x4mm											293-274												
M2x6mm											293-280				432-637								
M2x12mm											293-296												
M2.5x3mm															431-993								
M2.5x4mm											293-303												
M2.5x6mm										483-8124	281-647				432-637								
M2.5x12mm										483-8130	281-653												
M3x3mm															529-905	137-714	187-0670						
M3x5mm						822-9094																	
M3x6mm		281-372		304-4788	822-9155	822-9098				483-8146	467-9773	280-981	187-1207		529-911	137-720	187-0686						
M3x8mm	483-9751	281-388		304-4918	483-9543	281-186	183-8597	232-8142		483-8168	467-9789	280-997	187-1213										
M3x10mm	483-9773	281-394	171-792	232-8366	483-9559	281-192	183-8604	232-8158		483-8174	467-9795	797-6266	660-4636				187-0692						
M3x12mm	483-9767	281-401	171-809	232-8372	483-9565	281-209	183-8610	232-8164		491-5209	467-9802	281-007	187-1229		529-927	137-736							
M3x16mm		292-423								483-8180	467-9818	281-013	187-1235										
M3x20mm		292-439								483-8196	467-9824	293-319	304-4429										
M3x25mm											467-9830	293-325	304-4435										
M3x30mm											467-9846	293-331	304-4615										
M4x4mm															529-933	137-742	187-0709						
M4x6mm					822-9164	822-9307					822-9079				529-949	137-758	187-0715				525-773		
M4x8mm	483-9789	281-417		304-4902	483-9571	281-215	183-8626	232-8170		491-5215	467-9852	281-029	187-1241										263-2104
M4x10mm	483-9795	281-423	171-815	232-8388	483-9587	281-221	183-8632	232-8186		483-8203	467-9874	797-6260	660-4639	227-8227						525-789		520-009	263-2110
M4x12mm	483-9802	281-439	171-821	232-8394	483-9593	281-237	183-8648	232-8209		491-5221	467-9880	281-035	187-1257		529-955	137-764	187-0721			525-795		520-015	263-2126
M4x16mm	483-9818	281-445	171-837	232-8401	483-9600	281-243	183-8654	232-8215		483-8225	467-9896	281-041	187-1263							525-802		520-021	263-2132
M4x20mm	491-5085	292-445		304-4895	822-9167	822-9108				483-8231	467-9903	290-102	187-1279	227-6849						527-410		520-037	263-2148
M4x25mm	491-5091	292-451			822-9161	822-9101				491-5237	467-9919	281-057	187-1285							527-426		520-043	263-2154
M4x30mm	491-5108									483-8247	467-9931	290-118	187-1308	227-8249									
M4x35mm											822-9072												
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M4x50mm											822-9076		304-4592										

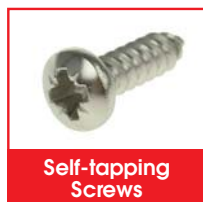
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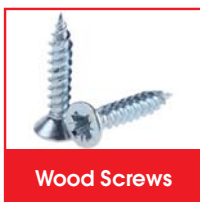
Coach Bolts



Screw, Bolt
& Nut Kits



Self-tapping
Screws



Wood Screws



Threaded Rods



Rivets



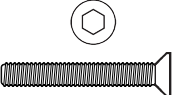
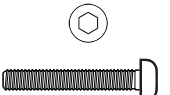
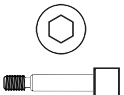
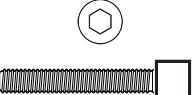
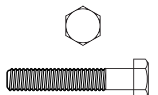
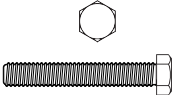
Wall Plugs



Masonry Anchors



M5 - M6 HEX

	Hex Socket Csk Screw Din 7991				Hex Socket Button Screw ISO 7380				Hex Socket Shoulder Screw ISO 7379	Hex Socket Cap Screw Din 912					Grub Screw / Socket Set Screw Din 916			Hex Head Bolt Din 931		Hex Head Set Screw Din 933			
																							
	BZP	Black Oxide	A2	A4	BZP	Black Oxide	A2	A4	Black Oxide	BZP	Black Oxide	A2	A4	Titanium	Black Oxide	A2	A4	BZP	A2	BZP	Brass	A2	A4
M5x5mm															529-961	137-770	187-0737						
M5x6mm					822-9170	822-9105									822-9338								
M5x8mm					822-9173	822-9114					822-9085		660-4633		529-977	137-786	187-0743			525-818			
M5x10mm	483-9824	281-451		304-4889	483-9616	281-259	183-8660	232-8221	292-271	483-8269	467-9953	281-063	304-4586	227-6855	529-983	137-792	187-0759			482-7786			263-2198
M5x12mm	483-9830	281-467	171-843	232-8417	483-9622	281-265	183-8676	232-8237	399-161	491-5243	467-9969	281-079	187-1314		529-999	137-809	187-0765			525-824		520-065	
M5x16mm	483-9846	281-473	171-859	232-8423	483-9638	281-271	183-8698	232-8243	399-167	483-9981	467-9975	281-085	187-1320							525-830		520-071	263-2205
M5x20mm	483-9852	281-489	171-865	232-8439	483-9644	281-287	183-8705	232-8265	292-287	483-8275	467-9981	281-091	187-1336	227-6861						525-846	483-2356	520-087	263-2211
M5x25mm	491-5114	292-467	171-871	232-8445	822-9177		797-6092	304-4643		491-5259	467-9997	290-124	187-1342							527-432		520-093	263-2227
M5x30mm	491-5120	292-473		304-4873				304-4659	399-177	483-9997	468-0004	290-130	187-1364	227-6883						527-448		520-100	263-2249
M5x35mm					822-9186					822-9325	468-0010												
M5x40mm								304-4766		483-8281	468-0032	293-353	187-1370									289-001	263-2255
M5x50mm								304-4744		483-8297	468-0048	293-369	304-4570										
M5x60mm													304-4564										
M6x6mm															530-006	137-815	187-0771						
M6x8mm					822-9189	822-9117									530-012	137-821	187-0793						
M6x10mm	491-5142	281-495		304-4867	822-9183	822-9111	797-6096			483-8304	468-0054	797-6279	660-4642	227-6906	281-669					525-852		520-116	190-147
M6x12mm	483-9868		171-887	232-8451	483-9650	281-293	183-8711	232-8271	399-173	483-8310	468-0060	281-108	187-1386		530-028	137-837	187-0800					797-6305	190-153
M6x14mm											822-9313												
M6x15mm						822-9120					822-9088												
M6x16mm	483-9874	281-502	171-893	232-8467	483-9672	281-300	183-8727	232-8287	292-293	483-8326	468-0076	281-114	187-1392		530-034	137-843	187-0816			525-868	483-2362	520-122	
M6x20mm	483-9896	281-518	171-900	232-8489	483-9688	281-316	183-8733	232-8293	292-300	484-0004	468-0105	281-120	187-1409	227-6912						525-874	483-2378	520-138	190-175
M6x25mm	483-9903	281-524	171-916	232-8495	483-9694	281-322	183-8755	232-8300		483-8332	468-0082	281-136	187-1421							525-880	483-2384	520-144	190-181
M6x30mm	491-5158	292-489	171-922	232-8502	491-5300	822-9123	797-6106	304-4738		483-8348	468-0098	290-146	187-1437					279-537		527-454	483-2390	520-150	190-197
M6x35mm	491-5164	292-495			491-5316					491-5265	468-0111	293-375	187-1443					279-543				797-6314	190-204
M6x40mm	491-5170	822-9142			491-5322	822-9127	797-6109	304-4722		484-0010	468-0127	293-381	187-1459	227-6940				279-559		527-460		520-166	190-210
M6x45mm											468-0133	293-397	660-4645										190-226
M6x50mm	822-9252	822-9145			822-9192	822-9136		304-4716		483-8354	468-0149	293-404	187-1465					279-565		527-476		520-172	190-232
M6x60mm	822-9256							304-4700		483-8360	468-0155	293-410	304-4558					279-571				289-017	
M6x65mm																							
M6x70mm											275-018												289-023

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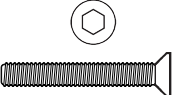
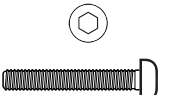
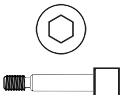
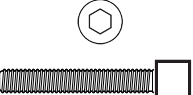
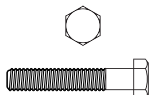
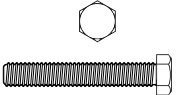
Thread Sealants



Screw
Extractor Sets

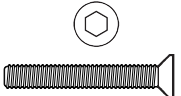
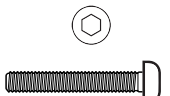
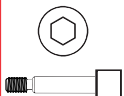
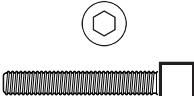
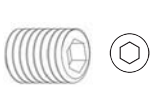
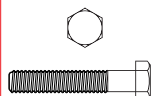
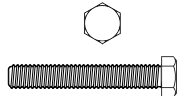


M8 - M10 HEX

	Hex Socket Csk Screw Din 7991				Hex Socket Button Screw ISO 7380				Hex Socket Shoulder Screw ISO 7379	Hex Socket Cap Screw Din 912					Grub Screw / Socket Set Screw Din 916			Hex Head Bolt Din 931		Hex Head Set Screw Din 933			
																							
	BZP	Black Oxide	A2	A4	BZP	Black Oxide	A2	A4	Black Oxide	BZP	Black Oxide	A2	A4	Titanium	Black Oxide	A2	A4	BZP	A2	BZP	Brass	A2	A4
M8x8mm															530-040	137-859	187-0822						
M8x10mm					822-9195	822-9139									281-675							797-6317	
M8x12mm	483-9919				483-9701	281-338	183-8761	232-8322			529-696				530-056	137-865	187-0838			527-482		520-188	190-248
M8x16mm	483-9925	281-546		304-4851	483-9717	281-344	185-5794	232-8338	292-316	483-8382	529-703	281-142	187-1471		530-062	137-871	187-0850			527-498	483-2407	520-194	190-254
M8x20mm	483-9931	281-552		304-4845	483-9739	281-350	183-8777	232-8344	292-322	483-8398	529-719	281-158	187-1487							527-505	483-2413	520-201	190-260
M8x25mm	483-9953	281-568		304-4839	483-9745	281-366	183-8783	232-8350	292-338	491-5271	529-725	281-164	187-1493							527-511	483-2429	520-217	190-276
M8x30mm	483-9969	292-502		304-4823	822-9199		797-6103	304-4687	292-344	483-8405	468-0161	281-170	187-1500						797-6288	527-527	483-2435	520-223	190-282
M8x35mm	491-5186	292-518			822-9209	822-9133				491-5287	468-0177	293-426	187-1516					279-587	508-0900			797-6311	190-298
M8x40mm	491-5192	822-9149		304-4801	822-9202		797-6112	304-4671	292-350	483-8411	468-0199	290-152	187-1522					279-593	508-0916	527-533	483-2441	520-239	190-305
M8x45mm					822-9206						468-0206	797-6272	660-4649					279-600				797-6320	190-311
M8x50mm	822-9265	822-9158		304-4794	822-9215		797-6115	304-4665		483-8427	468-0212	293-432	187-1538					279-616	508-0922	527-549		520-245	190-327
M8x55mm											468-0228											797-6323	
M8x60mm	822-9268							304-4772	292-366	483-9515	468-0234	293-448	187-1544					279-622	508-0944			289-039	190-333
M8x65mm											822-9091								508-0950			797-6327	
M8x70mm										483-9521	275-052		660-4658					279-638	508-0966			289-045	
M8x75mm		822-9151																279-644					
M8x80mm										483-9537	468-0256		660-4651					279-650					
M8x90mm																		279-666	508-0972				
M8x100mm											468-0284							279-672	508-0988				
M10x10mm															281-681								
M10x12mm															281-697								
M10x16mm					822-9218				292-372		468-0262	293-454			281-704						527-555		520-251
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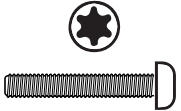
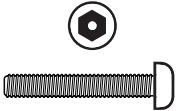


M12 - M20 HEX

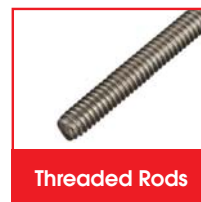
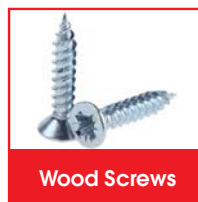
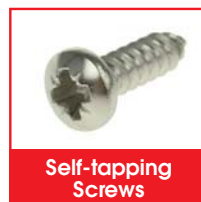
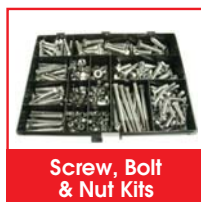
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	BZP	Black Oxide	A2	A4	BZP	Black Oxide	A2	A4	Black Oxide	BZP	Black Oxide	A2	A4	Titanium	Black Oxide	A2	A4	BZP	A2	BZP	Brass	A2	A4
M12x20mm					822-9234						288-941									530-157		520-318	
M12x25mm	822-9284				822-9243						468-0385									530-163		520-324	
M12x30mm	822-9293				822-9246						468-0391	288-957	304-4463							530-179		520-330	183-9124
M12x35mm	822-9296				822-9240																	797-6333	
M12x40mm	822-9290				822-9259						468-0408	288-963	304-4457					279-767	508-1082	530-185		520-346	183-9130
M12x45mm	822-9300										468-0414							279-773	797-6308			797-6342	
M12x50mm	822-9303										468-0420	288-979	304-4441					279-789	508-1098	530-191		520-352	183-9146
M12x55mm											275-181											797-6345	
M12x60mm											529-898	288-985						279-795	508-1105	530-208		520-368	183-9152
M12x65mm											275-197							279-802	508-1111				
M12x70mm											275-204							279-818	508-1127	276-229		276-601	183-9168
M12x75mm																		279-824					
M12x80mm											275-226							279-830	508-1133	276-235		276-617	183-9174
M12x90mm											468-0436							279-846	508-1149				
M12x100mm											468-0442							279-852	508-1155				
M12x120mm											468-0458												
M16x30mm																				276-241			
M16x35mm																				276-257			
M16x40mm											468-0492									276-263			263-2277
M16x45mm																				276-279		276-651	
M16x50mm											468-0515							279-868	508-1177	276-285		276-667	263-2283
M16x55mm																		279-874					
M16x60mm											275-327							279-880	508-1183	276-291		276-673	263-2299
M16x65mm																		279-896	797-6301				
M16x70mm											275-349							279-903	508-1206	276-308		276-689	263-2306
M16x75mm																		279-919	508-1212				
M16x80mm											275-361							279-925	508-1234	276-314		276-695	263-2312
M16x90mm																		279-931	508-1240				
M16x100mm											275-383							279-947	508-1256				
M16x120mm											468-0543							279-953					
M20x40mm																				276-320		276-702	
M20x50mm																				276-336		276-718	
M20x60mm																		279-969		276-342			
M20x65mm																		279-975					
M20x70mm																		279-981	508-1262	276-358		276-730	
M20x80mm																		279-997	508-1284	276-364		276-746	
M20x90mm																		277-553					
M20x100mm																		277-569	508-1307	276-370		276-752	
M20x120mm																		277-575					
M20x130mm																		277-581					
M20x150mm																		277-597					

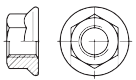
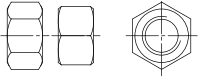


M3 - M6 SECURITY

	Pan Head Security	Csk Head Security		Button Head 6 Lobe Security	Button Head Hex Security	System Zero Tamper Proof Head Security Screw	
							
	BZP	Black Oxide	A2	A4	BZP	Black Oxide	A2
M3x6mm	482-8256	482-8111	621-2495	621-2631	621-2754	524-534	300-7672
M3x12mm	482-8262	482-8133	621-2502	621-2625	621-2748	524-540	
M3x20mm		482-8149	621-2518	621-2653	621-2760		
M3.5x12mm		482-8161				524-562	
M4x6mm	482-8313	482-8177	621-2530	621-2675	621-2782	524-578	300-7701
M4x12mm	482-8329	482-8183	621-2546	621-2647	621-2805	524-584	300-7717
M4x19mm						526-760	300-7723
M4x20mm	482-8335	482-8199	621-2552	621-2669	621-2798		
M5x6mm						483-953	
M5x12mm	482-8357	482-8206	621-2568	621-2681	621-2811	483-957	483-975
M5x19mm						483-947	483-979
M5x20mm	482-8363	482-8212	621-2580	621-2704	621-2827		
M5x25mm	482-8379	482-8228	621-2574	621-2726	621-2833	483-969	300-7789
M5x30mm						483-963	
M6x10mm						524-613	300-7802
M6x12mm	482-8385		621-2596	621-2697	621-2849		
M6x16mm						524-629	300-7818
M6x19mm						526-726	
M6x20mm	482-8391		621-2603	621-2710	621-2855		
M6x25mm	482-8414	482-8240	621-2619	621-2732	621-2861	526-732	300-7830
M6x30mm						526-748	
M6x40mm						526-754	300-7852

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	Unserrated Flange Nut Din 6923		Serrated Flange Nut Din 6923		Nylon Insert Flange Locking Nut Din 6926	Square Nut Din 562	Half Nut Din 439	Full Nut Din 934				
												
	BZP	A2	BZP	A2	BZP	BZP	NP Brass	BZP	NP Brass	Brass	A2	A4
M2							483-0316	560-271		483-2457	527-218	248-4551
M2.5							483-0322	560-287			527-224	248-4567
M3						837-262	483-0338	560-293	483-0502	483-2485	527-230	189-563
M3.5								560-300	483-0524		527-246	
M4						837-284	483-0350	525-896	483-0530	483-2508	527-252	189-579
M5	275-462	725-9647	275-535	725-9650	275-608	837-290	483-0423	525-903	483-0546	483-2514	527-268	189-585
M6	275-478	725-9640	275-541	725-9669	275-614	837-307	483-0439	525-919	483-0552	483-2520	527-274	189-591
M8	275-484	725-9644	275-557	725-9662	275-620	837-313		527-612		483-2542	530-769	189-608
M10	275-490	725-9653	275-563	725-9666	275-636			527-628		483-2558	530-775	189-614
M12	275-507	725-9656	275-579	725-9675	275-642			530-078		483-2564	530-781	183-9045
M16								276-768			275-670	248-4573
M20								276-774			275-686	248-4589

	Nylon Insert Locking Nut Din 982 (BZP) Din 985 (A2 & A4 + M2 & M4 BZP)			Aerotight® Locking Nut			Dome Nut Din 1587			Wing Nut UNI 5448		
												
	BZP	A2	A4	BZP	A1	A4	BZP	A2	A4	BZP	A2	A4
M2												
M2.5												
M3	524-281	521-917	767-804	530-652	260-5815	665-5606	293-050	248-4387	248-4450	521-844	293-101	248-4309
M3.5												
M4	524-304	521-923	767-810	530-668	260-5821	665-5609	293-066	248-4393	248-4466	521-850	293-117	248-4315
M5	524-310	521-939	767-826	530-674	260-5843	665-5603	293-072	248-4400	248-4472	521-866	293-123	248-4337
M6	524-326	521-945	767-832	530-680	260-5859	665-5612	293-088	248-4416	248-4494	521-872	293-139	248-4343
M8	530-393	521-951	767-848	530-696	260-6414	665-5615	293-094	248-4422	248-4501	521-888	293-145	248-4359
M10	530-400	521-967	767-854	530-703	260-6420	665-5619		248-4438	248-4517	521-894	293-151	248-4365
M12	530-416	521-973	248-4539	530-719	260-6436	665-5628		248-4444	248-4523	521-901		248-4371
M16	276-780	275-692	797-6377					797-6080				
M20	276-796	275-709	797-6386					797-6099				

	Plain Washer Din 125A						External Shakeproof Washer Din 6797A	Internal Shakeproof Washer Din 6797J			Square-Section Spring Washer Din 7980			Crinkle Washer BS 4463	
	BZP	NP Brass	Brass	Copper	A2	A4	BZP	BZP	A2	A4	BZP	A2	A4	Copper	A2
M2	560-316	483-0619			527-347	248-4595			187-0535		526-782	825-219		289-635	428-616
M2.5	560-322				527-353	248-7106	276-831		187-0541		526-798	825-225		289-641	428-622
M3	560-338	483-0631	483-2592	293-167	527-369	189-620	276-847	526-574	187-0557	665-7299	526-805	825-231	189-686	289-657	428-638
M3.5	560-344	483-0647			527-375							825-247			
M4	525-925	483-0653	483-2609	293-173	527-381	189-636	276-869	526-596	187-0585	665-7309	526-827	530-826	189-692	289-679	428-650
M5	525-931	482-7720	483-2615	293-189	527-397	189-642	276-875	526-603	187-0591	665-7302	526-833	530-832	189-709	289-685	428-666
M6	525-947	483-0669	483-2621	293-195	527-404	189-658	276-881	526-619	187-0608	665-7306	526-849	530-848	189-715	289-691	428-672
M8	527-634		483-2637	293-202	530-797	189-664	276-897	530-129	187-0614	665-7315	530-090	530-854	189-721	289-708	428-688
M10	527-640		483-2643	293-218	530-804	189-670	276-904	530-135	187-0636	665-7318	530-107	530-860	189-737		
M12	530-084		483-2659	293-224	530-810	183-9051	276-910	530-141	187-0642	665-7312	530-113	530-876	183-9067		
M16	276-926				275-715	248-4618			187-0658		276-803	275-737			
M20	276-932				275-721	248-4624			187-0664		276-819	275-743			

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