FASTENERS
SELECTION GUIDE

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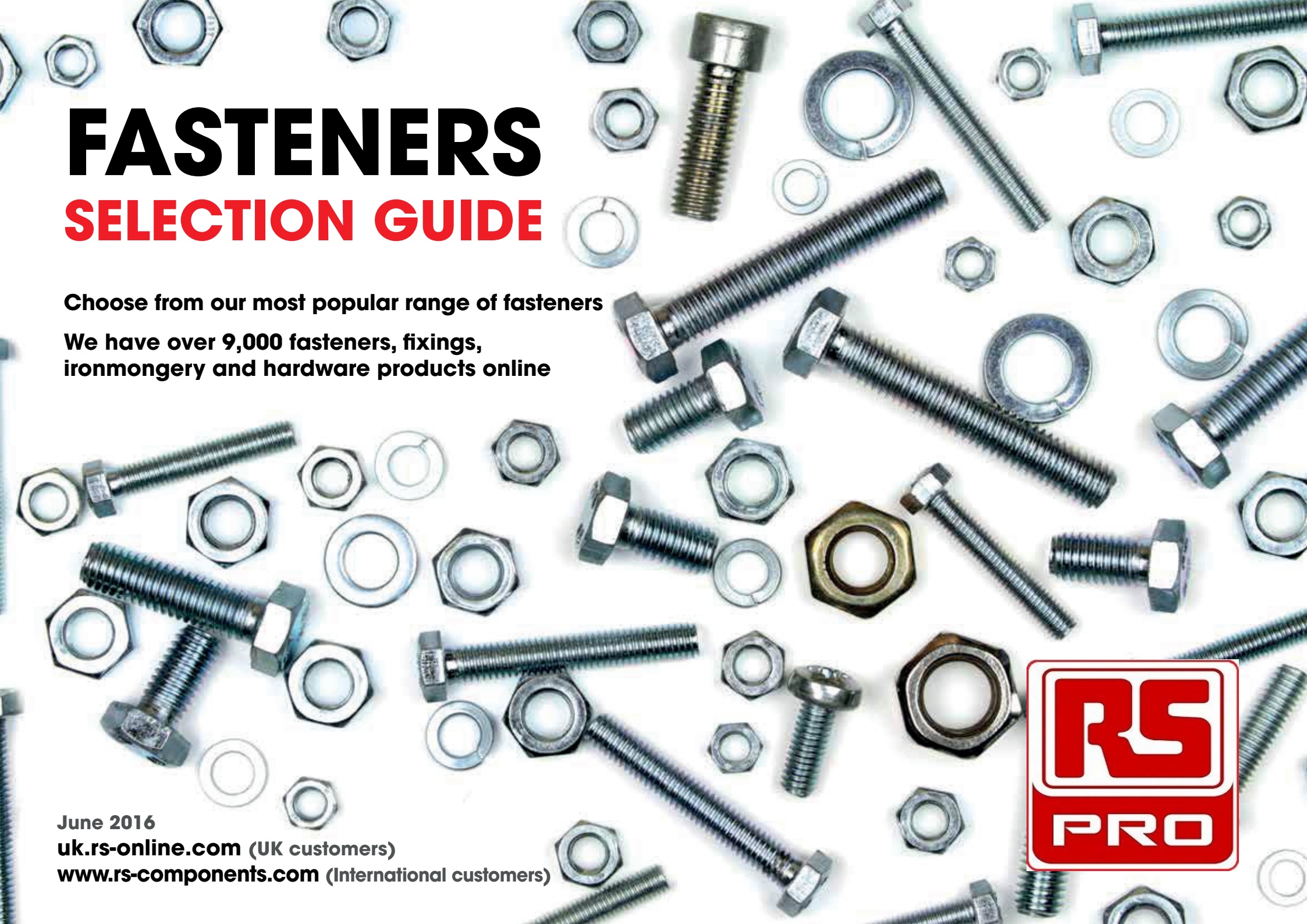

RS PRO

June 2016

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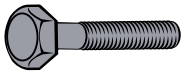
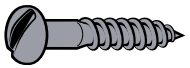
COMMON FASTENER TYPES

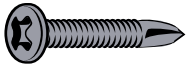


Hex bolts
Hex bolts are partially threaded and are used in machinery and construction applications. Can be used with a nut or in a tapped hole and are tightened with a wrench.

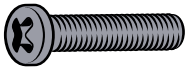
Hex set screws
Hex set screws are similar to the Hex bolt but are fully threaded instead of partially threaded. They are also used in machinery and construction applications and can be used with a nut or in a tapped hole.



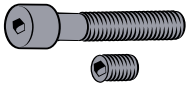
Wood screws
Wood screws are primarily used in carpentry applications. They provide a strong clamping force which strengthens the joint between two materials. Wood screws are suitable for fixing hinges, bolts, locks and other door hardware.



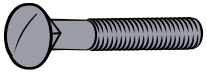
Self-drilling, Self-tapping and Thread-forming screws
These are screws which form a thread as they are inserted. The choice of screw used will depend upon the material, its thickness and the application. A pilot hole may be required.



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. 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

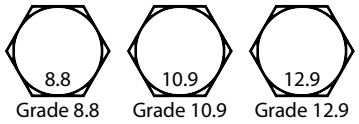
Titanium fasteners are non-toxic and offer lightness and very high corrosion resistance that makes them ideal for where these attributes are vital. Comparatively more expensive than other types.

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.

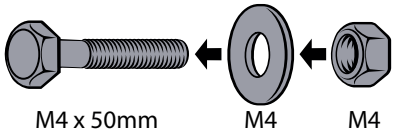
A manufacturer's stamp may also be marked.



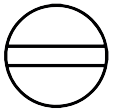
NUT AND WASHER SIZES

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.

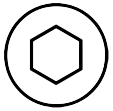


DRIVE TYPES



Slotted
Highly versatile, most commonly used in woodworking applications.

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

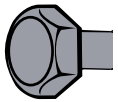


Hex socket
Used with a Hex key in applications where there is limited space.

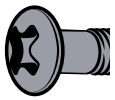
Torx
Very common in automotive applications and highly resistant to slippage or cam-out.

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

HEAD TYPES



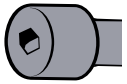
Hex
Used for larger bolts and set screws. Fastened with a spanner or socket.



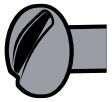
Pan
Consists of a raised, domed head which sits above the material surface.

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.

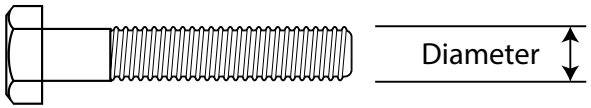
THREAD PITCH

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.

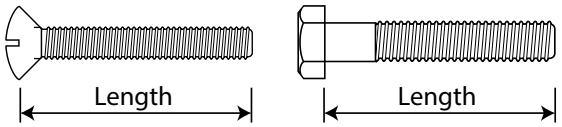
MEASURING DIAMETER

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

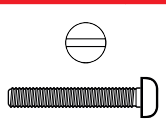
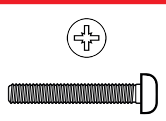
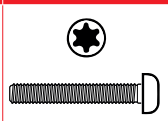
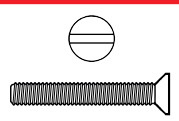
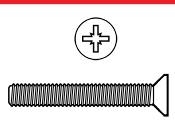
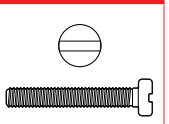


MEASURING LENGTH

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 POZI / SLOTTED / TORX

	Pan Head Slotted Din 85					Pan Head Pozi Din 7985					Pan Head Torx Din 7985T		Csk Head Slotted Din 963				Csk Head Pozi Din 965			Csk Raised Head Slotted Din 964	Csk Head Torx Din 965T	Cheese Head Slotted Din 84	
																							
	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
M2 x 3mm				914-1560																			
M2 x 4mm									914-1462						914-1624			914-1759					
M2 x 5mm				914-1563					914-1466						914-1633								
M2 x 6mm	560-704	482-7679	483-1325	526-906		560-530	482-7714		528-693					482-7685	914-1636			914-1753				908-7747	
M2 x 8mm						908-7637			914-1475									914-1762					
M2 x 10mm						908-7646			914-1478														
M2 x 12mm	560-710	482-8458	483-1331	526-912		560-546	483-0035		528-700					482-9114								908-7740	
M2 x 16mm														482-9120									
M2.5 x 5mm						908-7649			914-1472						914-1630								
M2.5 x 6mm	560-726	482-8464		526-928		560-552	483-0041		528-716		482-7455		448-7940	482-9142	914-1649		908-7463					546-6102	482-9726
M2.5 x 8mm				914-1567		908-7643			914-1481								908-7472						
M2.5 x 10mm	908-7582			914-1576		908-7652			797-6190				908-7356				908-7475					546-6118	482-9732
M2.5 x 12mm	560-732	482-8470		526-934		560-568	483-0057		528-722		482-7887		448-7956	482-9158			908-7479					546-6124	482-7708
M2.5 x 16mm		482-8486		130-606		908-7655	483-0063		914-1484					482-9164									
M2.5 x 20mm	560-748	482-8492		914-1579		560-574	483-0079		914-1488				908-7365	482-9170								546-6146	482-9748
M2.5 x 25mm		482-8509					483-0085																
M3 x 4mm						908-7659																	
M3 x 5mm				914-1573		908-7668			914-1497						914-1642			914-1765					
M3 x 6mm	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
M3 x 8mm	908-7586			914-1582	189-305	908-7661			797-6193	190-434			908-7368		914-1646	914-1863	908-7481	914-1769	914-1942			908-7744	
M3 x 10mm	560-760			526-956	189-311	560-596		483-0940	528-744	190-440			908-7362			914-1866	908-7485	914-1778	914-1945			546-6168	482-9760
M3 x 12mm	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	
M3 x 16mm	560-782	482-8537		526-978	189-333	560-619	483-0114		528-766	190-462			908-7371	482-9209		158-3354	908-7494	914-1771	158-3584	482-9524		546-6180	482-9782
M3 x 20mm	560-798	482-8543	483-1410	526-984		560-625	483-0120		528-772	190-478	482-7916		553-863	482-9215	914-1655	158-3360	553-419	528-968	158-3590			546-6196	
M3 x 25mm	560-805	482-8559		130-612		560-631	483-0136		914-1490				908-7374					914-1775				546-6203	482-9811
M3 x 30mm		482-8571	483-1432	130-628		560-647	483-0142		914-1494					482-9221	914-1658								

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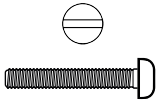
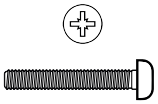
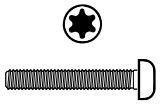
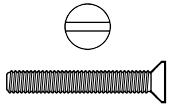
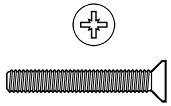
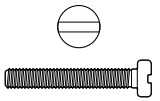
Screw Extractor Sets

M3.5 - M4 POZI / SLOTTED / TORX

	Pan Head Slotted Din 85					Pan Head Pozi Din 7985					Pan Head Torx Din 7985T		Csk Head Slotted Din 963				Csk Head Pozi Din 965			Csk Raised Head Slotted Din 964	Csk Head Torx Din 965T	Cheese Head Slotted Din 84	
																							
	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
M3.5 x 6mm		482-8587							914-1504				908-7378	482-9237									
M3.5 x 8mm						908-7665			914-1507														
M3.5 x 10mm						908-7674							908-7387									908-7753	
M3.5 x 12mm	560-827	482-8593				560-653			528-788				908-7387	482-9243			908-7491			482-9530		908-7756	
M3.5 x 16mm	908-7595	482-8600				908-7677							908-7380	482-9259						482-9546			
M3.5 x 20mm		482-8616				560-669			528-794				908-7384				908-7501			482-9552			
M3.5 x 25mm						908-7671							908-7393							482-9568			
M3.5 x 30mm		482-8638				908-7680							908-7396	482-9265						482-9580			
M3.5 x 35mm																				482-9596			
M3.5 x 40mm																				482-9603			
M3.5 x 50mm																				482-9619			
M3.5 x 60mm																				482-9625			
M3.5 x 70mm																				482-9647			
M4 x 5mm						908-7683												914-1784					
M4 x 6mm	560-849	482-8644	483-1505	527-016	189-355	560-675	483-0158	483-0978	528-801	914-1848		262-5910	908-7390	482-9271		158-3376			158-3607		262-5718	546-6219	482-9827
M4 x 8mm	908-7598			914-1585	189-361	908-7687			797-6197	190-484			908-7400		914-1661		908-7508	914-1787		482-9653		908-7750	
M4 x 10mm	560-855			527-022	189-377	560-681		483-0984	528-817	190-490			908-7403		914-1664	914-1860	908-7517		914-1949			546-6225	482-9833
M4 x 12mm	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	
M4 x 16mm	560-007	482-8666	483-1533	527-044	189-399	553-554	483-0186		528-839	190-513			553-885	482-9300	527-195	158-3405	553-431	528-980	158-3629	482-9675	262-5746	546-6247	482-9861
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M4 x 25mm	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	914-1781	158-3641			546-6269	
M4 x 30mm	560-035	482-8694	483-1561	130-634	189-428	553-582	483-0215		797-6207				908-7407	482-9322		914-1879	908-7510	914-1790		482-9704		546-6275	482-9899
M4 x 35mm						908-7696			914-1501													908-7769	
M4 x 40mm	560-041	482-8701		130-640		553-598	483-0221		797-6200				908-7416	482-9338	914-1668		908-7514	914-1793		482-9710		908-7762	
M4 x 50mm	290-073	482-8717	483-1577	130-656		908-7699							908-7419				908-7523					908-7766	

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	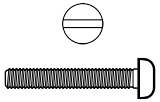					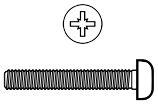					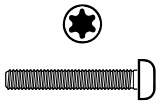		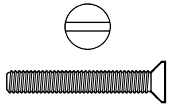				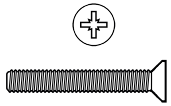					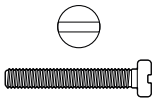	
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M5 x 6mm	908-7592	482-8723		914-1589		908-7693	483-0243		914-1510					482-9344			908-7526					908-7775	
M5 x 8mm	908-7602				189-434	908-7703			797-6204	914-1857					914-1677		908-7520	914-1797				908-7778	
M5 x 10mm	560-057			914-1598	189-440	553-605		483-1000	797-6213	190-541			908-7413		914-1670	914-1872	908-7539	914-1807	914-1958			546-6304	482-9928
M5 x 12mm	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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M5 x 20mm	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
M5 x 25mm	560-091	482-8767	483-1628	527-101	189-484	553-649	483-0287		528-895	914-1850			553-942	482-9394	527-303	914-1876	553-497	529-028	914-1951		262-5796	546-6348	482-9962
M5 x 30mm	908-7605	482-8773	483-1634	130-662	189-490	908-7706	483-0293		797-6216				908-7422	482-9401	914-1683	158-3483	908-7532		158-3708			908-7772	
M5 x 35mm	908-7609			914-1591		908-7700			797-6210				908-7425		914-1686	914-1885	908-7536	914-1800				908-7781	
M5 x 40mm	560-108	482-8795		130-678		553-655	483-0300		914-1513				908-7429	482-9423		914-1888	908-7545	914-1804				908-7784	
M5 x 45mm				914-1595																			
M5 x 50mm	290-089	482-8802	483-1640	130-684		908-7719			914-1526				908-7438	482-9439	914-1680	914-1882	908-7548	914-1813				908-7788	
M5 x 60mm				914-1605											914-1699	914-1891							
M5 x 75mm				914-1608																			
M6 x 8mm									914-1529														
M6 x 10mm	560-114			914-1602	189-507	553-661			914-1523	190-585			908-7431		914-1692	914-1894	908-7542	914-1816	914-1955			908-7797	
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M6 x 75mm															914-1728	914-1914							
M6 x 80mm																914-1917							
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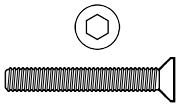
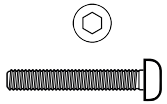
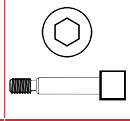
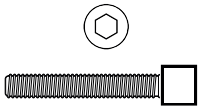
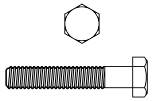
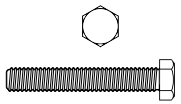
	Hex Socket Csk Screw Din 7991				Hex Socket Button Screw ISO 7380				Hex Socket Shoulder Screw ISO 7379	Hex Socket Cap Screw Din 912					Grub Screw / Socket Set Screw Din 916			Hex Head Bolt Din 931		Hex Head Set Screw Din 933			
																							
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M2 x 3mm															431-965								
M2 x 4mm											293-274												
M2 x 6mm											293-280				432-637								
M2 x 12mm											293-296												
M2.5 x 3mm															431-993								
M2.5 x 4mm											293-303												
M2.5 x 6mm										483-8124	281-647				432-637								
M2.5 x 12mm										483-8130	281-653												
M3 x 3mm															529-905	137-714	187-0670						
M3 x 5mm						822-9094																	
M3 x 6mm		281-372		304-4788	822-9155	822-9098				483-8146	467-9773	280-981	187-1207		529-911	137-720	187-0686						
M3 x 8mm	483-9751	281-388		304-4918	483-9543	281-186	183-8597	232-8142		483-8168	467-9789	280-997	187-1213										
M3 x 10mm	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						
M3 x 12mm	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							
M3 x 15mm											822-9063												
M3 x 16mm		292-423								483-8180	467-9818	281-013	187-1235										
M3 x 20mm		292-439								483-8196	467-9824	293-319	304-4429										
M3 x 25mm											467-9830	293-325	304-4435										
M3 x 30mm											467-9846	293-331	304-4615										
M3 x 40mm											822-9060												
M4 x 4mm															529-933	137-742	187-0709						
M4 x 6mm					822-9164	822-9307				822-9322	822-9079				529-949	137-758	187-0715			525-773			
M4 x 8mm	483-9789	281-417		304-4902	483-9571	281-215	183-8626	232-8170		491-5215	467-9852	281-029	187-1241										263-2104
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M4 x 30mm	491-5108									483-8247	467-9931	290-118	187-1308	227-8249						917-2804			
M4 x 35mm											822-9072									917-2808			
M4 x 40mm										483-8253	467-9947	293-347	304-4609							917-2817			
M4 x 50mm											822-9076		304-4592							917-2810			

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	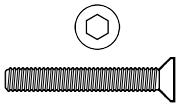				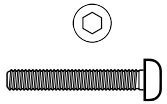				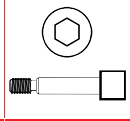	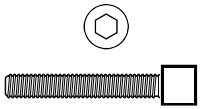								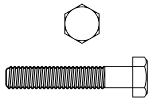		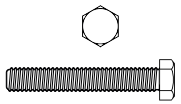			
	BZP	Black Oxide	A2	A4	BZP	Black Oxide	A2	A4	Black Oxide	BZP	Black Oxide	A2	A4	Titanium	Black Oxide	A2	A4	BZP	A2	BZP	Brass	A2	A4
M5 x 5mm															529-961	137-770	187-0737						
M5 x 6mm					822-9170	822-9105									822-9338								
M5 x 8mm					822-9173	822-9114					822-9085		660-4633		529-977	137-786	187-0743			525-818			
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M5 x 30mm	491-5120	292-473		304-4873				304-4659	399-177	483-9997	468-0004	290-130	187-1364	227-6883				917-3087		527-448		520-100	263-2249
M5 x 35mm					822-9186					822-9325	468-0010							917-3081		917-2823			
M5 x 40mm								304-4766		483-8281	468-0032	293-353	187-1370					917-3090		917-2826		289-001	263-2255
M5 x 45mm										822-9329								917-3093					
M5 x 50mm								304-4744		483-8297	468-0048	293-369	304-4570					917-3097		917-2820			
M5 x 60mm													304-4564							917-2839			
M6 x 6mm															530-006	137-815	187-0771						
M6 x 8mm					822-9189	822-9117									530-012	137-821	187-0793						
M6 x 10mm	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
M6 x 12mm	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			917-2832		797-6305	190-153
M6 x 14mm											822-9313												
M6 x 15mm						822-9120					822-9088												
M6 x 16mm	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	
M6 x 20mm	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
M6 x 25mm	483-9903	281-524	171-916	232-8495	483-9694	281-322	183-8755	232-8300		483-8332	468-0082	281-136	187-1421					917-3107		525-880	483-2384	520-144	190-181
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M6 x 35mm	491-5164	292-495			491-5316					491-5265	468-0111	293-375	187-1443					279-543		917-2836		797-6314	190-204
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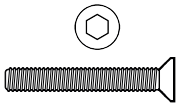
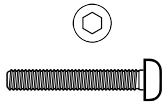
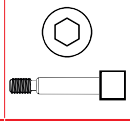
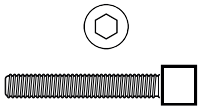
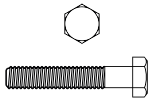
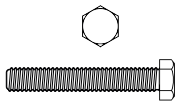
M6 x 45mm											468-0133	293-397	660-4645					917-3100		917-2845			190-226
M6 x 50mm	822-9252	822-9145			822-9192	822-9136		304-4716		483-8354	468-0149	293-404	187-1465					279-565		527-476		520-172	190-232
M6 x 60mm	822-9256							304-4700		483-8360	468-0155	293-410	304-4558					279-571		917-2848		289-017	
M6 x 65mm																		917-3113		917-2842			
M6 x 70mm											275-018							917-3116		917-2851		289-023	
M6 x 75mm																		917-3110		917-2854			
M6 x 80mm																		917-3129		917-2858			
M6 x 90mm																		917-3122		917-2867			
M6 x 100mm																		917-3126		917-2860			

	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
M8 x 8mm															530-040	137-859	187-0822						
M8 x 10mm					822-9195	822-9139									281-675					917-2864		797-6317	
M8 x 12mm	483-9919				483-9701	281-338	183-8761	232-8322			529-696				530-056	137-865	187-0838			527-482		520-188	190-248
M8 x 16mm	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
M8 x 20mm	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
M8 x 25mm	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
M8 x 30mm	483-9969	292-502		304-4823	822-9199		797-6103	304-4687	292-344	483-8405	468-0161	281-170	187-1500					917-3138	797-6288	527-527	483-2435	520-223	190-282
M8 x 35mm	491-5186	292-518			822-9209	822-9133				491-5287	468-0177	293-426	187-1516					279-587	508-0900	917-2873		797-6311	190-298
M8 x 40mm	491-5192	822-9149	917-6232	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
M8 x 45mm					822-9206						468-0206	797-6272	660-4649					279-600				797-6320	190-311
M8 x 50mm	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
M8 x 55mm											468-0228							917-3132		917-2870		797-6323	
M8 x 60mm	822-9268							304-4772	292-366	483-9515	468-0234	293-448	187-1544					279-622	508-0944	917-2889		289-039	190-333
M8 x 65mm											822-9091							917-3141	508-0950	917-2882		797-6327	
M8 x 70mm										483-9521	275-052		660-4658					279-638	508-0966	917-2886		289-045	
M8 x 75mm		822-9151																279-644		917-2895			
M8 x 80mm										483-9537	468-0256		660-4651					279-650		917-2898			
M8 x 90mm																		279-666	508-0972	917-2892			
M8 x 100mm											468-0284							279-672	508-0988	917-2902			
M8 x 120mm																		917-3148					
M8 x 130mm																		917-3157					
M8 x 140mm																		917-3150					
M8 x 150mm																		917-3154		917-2905			

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	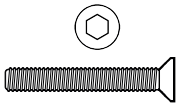				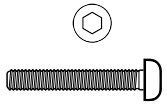				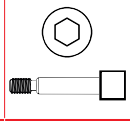	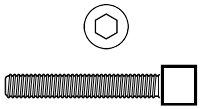								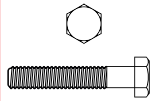		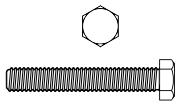			
	BZP	Black Oxide	A2	A4	BZP	Black Oxide	A2	A4	Black Oxide	BZP	Black Oxide	A2	A4	Titanium	Black Oxide	A2	A4	BZP	A2	BZP	Brass	A2	A4
M10 x 10mm															281-681								
M10 x 12mm															281-697					917-2909			
M10 x 16mm					822-9218				292-372		468-0262	293-454			281-704					527-555		520-251	
M10 x 20mm	822-9262				822-9212				822-9316	484-0026	468-0278	293-460	304-4542							527-561		520-267	190-349
M10 x 25mm	822-9271				822-9221				292-388	484-0032	468-0290	797-6276	660-4655							527-577		520-273	190-355
M10 x 30mm	822-9274				822-9224				292-394	484-0054	468-0313	293-476	304-4520							527-583		520-289	190-361
M10 x 35mm	822-9278				822-9228						468-0329	797-6285						917-3163	797-6282	917-2918		797-6336	190-377
M10 x 40mm	822-9287				822-9237				292-401	484-0060	529-810	293-482	304-4514					279-688	508-0994	527-599		520-295	190-383
M10 x 45mm											275-096							279-694		917-2911		797-6339	190-399
M10 x 50mm	822-9280		917-6241		822-9230				822-9319	484-0076	529-826	293-498	304-4508					279-701	508-1010	527-606		520-302	190-406
M10 x 55mm											275-103							917-3166	797-6291	917-2915			
M10 x 60mm			917-6244						292-417		529-832	293-505						279-717	508-1026	276-207		276-588	190-412
M10 x 65mm											468-0335							917-3160	797-6294	917-2924			
M10 x 70mm											468-0341	288-935	304-4485					279-723	508-1048	276-213		276-594	
M10 x 75mm																		917-3179	797-6298	917-2927			
M10 x 80mm											468-0357							279-739	508-1054	917-2921			
M10 x 90mm											275-147							279-745	508-1060	917-2930			
M10 x 100mm											275-153							279-751	508-1076	917-2933			
M10 x 120mm											468-0363							917-3176		917-2937			
M10 x 130mm																		917-3185		917-2946			
M10 x 140mm																		917-3188					
M10 x 150mm																		917-3182		917-2949			
M10 x 160mm																		917-3191					
M10 x 180mm																		917-3194					
M10 x 200mm																		917-3198					

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	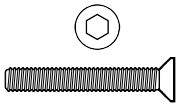				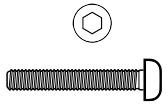				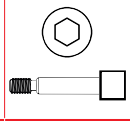	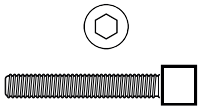								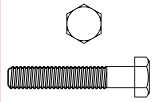		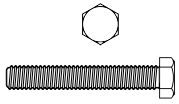			
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M12 x 16mm																				917-2943			
M12 x 20mm					822-9234						288-941									530-157		520-318	
M12 x 25mm	822-9284				822-9243					468-0385										530-163		520-324	
M12 x 30mm	822-9293				822-9246					468-0391	288-957	304-4463								530-179		520-330	183-9124
M12 x 35mm	822-9296				822-9240															917-2952		797-6333	
M12 x 40mm	822-9290				822-9259					468-0408	288-963	304-4457						279-767	508-1082	530-185		520-346	183-9130
M12 x 45mm	822-9300									468-0414								279-773	797-6308	917-2955		797-6342	
M12 x 50mm	822-9303									468-0420	288-979	304-4441						279-789	508-1098	530-191		520-352	183-9146
M12 x 55mm										275-181								917-3208		917-2959		797-6345	
M12 x 60mm										529-898	288-985							279-795	508-1105	530-208		520-368	183-9152
M12 x 65mm										275-197								279-802	508-1111	917-2968			
M12 x 70mm										275-204								279-818	508-1127	276-229		276-601	183-9168
M12 x 75mm																		279-824		917-2961			
M12 x 80mm										275-226								279-830	508-1133	276-235		276-617	183-9174
M12 x 90mm										468-0436	917-6248							279-846	508-1149	917-2965			
M12 x 100mm										468-0442								279-852	508-1155	917-2974			
M12 x 110mm																		917-3201					
M12 x 120mm										468-0458								917-3205		917-2977			
M12 x 130mm																		917-3214		917-2971			
M12 x 140mm																		917-3217					
M12 x 150mm																		917-3211		917-2980			
M12 x 160mm																		917-3220		917-2983			
M12 x 170mm																		917-3223					
M12 x 180mm																		917-3227					
M12 x 200mm																		917-3236		917-2987			
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M12 x 250mm																		917-3245					
M14 x 30mm																				917-2996			
M14 x 35mm																				917-2999			
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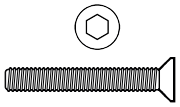
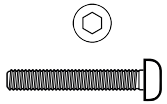
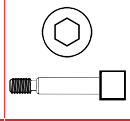
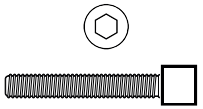
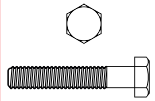
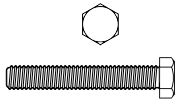
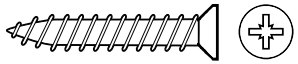
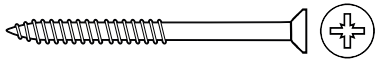
M14 x 100mm																		917-3270		917-3019			
M14 x 110mm																		917-3273					
M14 x 120mm																		917-3277					
M14 x 130mm																		917-3286					

	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
M16 x 25mm																				917-3028			
M16 x 30mm																							
M16 x 35mm																							
M16 x 40mm										468-0492													263-2277
M16 x 45mm																		917-3289				276-651	
M16 x 50mm										468-0515								279-868	508-1177			276-667	263-2283
M16 x 55mm																		279-874		917-3021			
M16 x 60mm										275-327								279-880	508-1183			276-673	263-2299
M16 x 65mm																		279-896	797-6301	917-3025			
M16 x 70mm										275-349								279-903	508-1206			276-689	263-2306
M16 x 75mm																		279-919	508-1212	917-3034			
M16 x 80mm										275-361								279-925	508-1234			276-695	263-2312
M16 x 90mm																		279-931	508-1240	917-3037			
M16 x 100mm										275-383	917-6257							279-947	508-1256	917-3031			
M16 x 110mm																		917-3283					
M16 x 120mm										468-0543								279-953		917-3040			
M16 x 130mm																		917-3292		917-3043			
M16 x 140mm																		917-3295		917-3047			
M16 x 150mm																		917-3299		917-3056			
M16 x 160mm																		917-3309					
M16 x 170mm																		917-3302					
M16 x 180mm																		917-3306		917-3059			
M16 x 190mm																		917-3315					
M16 x 200mm																				917-3053			
M20 x 30mm																				917-3062			
M20 x 40mm																						276-702	
M20 x 50mm																						276-718	
M20 x 55mm																		917-3318					
M20 x 60mm																		279-969					
M20 x 65mm																		279-975		917-3065			
M20 x 70mm																		279-981	508-1262			276-730	
M20 x 75mm																		917-3312					
M20 x 80mm																		279-997	508-1284			276-746	
M20 x 90mm																		277-553		917-3069			
M20 x 100mm																		277-569	508-1307			276-752	
M20 x 110mm																		917-3321					
M20 x 120mm																		277-575		917-3078			
M20 x 130mm																		277-581		917-3071			
M20 x 150mm																		277-597		917-3075			

METRIC & IMPERIAL **WOODSCREWS**

	Pozi CSK Woodscrews (Imperial)
	
	BZP
No. 6 x 3/4in	529-062
No. 6 x 1in	529-078
No. 6 x 1.1/4in	529-084
No. 6 x 1.1/2in	529-090
No. 8 x 1/2in	521-169
No. 8 x 3/4in	521-181
No. 8 x 1in	529-107
No. 8 x 1.1/4in	529-113
No. 8 x 1.1/2in	529-129
No. 8 x 1.3/4in	521-197
No. 8 x 2in	529-135
No. 8 x 2.1/2in	521-204
No. 10 x 1in	529-141
No. 10 x 1.1/4in	521-226
No. 10 x 1.1/2in	529-157
No. 10 x 1.3/4in	521-232
No. 10 x 2in	529-163
No. 10 x 2.1/2in	529-179
No. 10 x 3in	521-248
No. 12 x 2in	521-254
No. 12 x 3in	521-260
No. 12 x 4in	521-282

	Pozi CSK Woodscrews (Metric)	
		
	Yellow Passivated, Zinc Plated	A2
4 x 25mm	493-4553	797-6229
4 x 30mm	493-4569	797-6222
4 x 40mm	493-4575	797-6226
4 x 50mm	493-4581	797-6235
4 x 70mm	493-4597	
5 x 40mm		797-6238
5 x 50mm	493-4604	797-6232
5 x 60mm		797-6241
5 x 70mm	493-4610	797-6244
5 x 80mm	493-4626	
6 x 50mm	493-4648	
6 x 70mm	493-4654	797-6248
6 x 100mm	493-4660	

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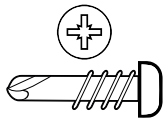
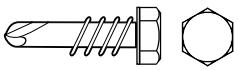
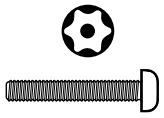
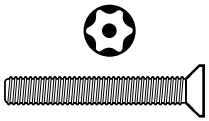
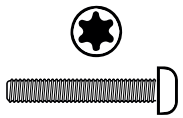
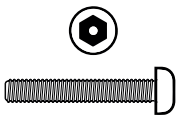
	Pozi Pan Self-Tapper Din 7981C			Pozi Pan Self-Driller Din 7504-N	Pozi CSK Self-Tapper Din 7982C		
							
	BZP	A2	A4	BZP	BZP	A2	A4
No. 4 x 1/4in	546-5604	521-535					
No. 4 x 3/8in	546-5610	521-541	522-1325				
No. 4 x 1/2in	546-5632	521-557	522-1410				
No. 6 x 1/4in	546-5648	521-563					
No. 6 x 3/8in	546-5654	521-579	522-1426	546-5929			
No. 6 x 1/2in	546-5660	521-585	522-1432	546-5935	546-5480	180-639	522-1319
No. 6 x 5/8in		797-6119				797-6153	
No. 6 x 3/4in	546-5676	521-591	522-1448	546-5941	546-5496	180-645	522-1331
No. 6 x 1in	546-5682	797-6128				180-651	
No. 6 x 1.1/4in		797-6121				180-667	
No. 6 x 1.1/2in		797-6125					
No. 8 x 3/8in	546-5698	521-608	522-1454				
No. 8 x 1/2in	546-5705	521-614	522-1460	546-5957	546-5519	180-673	522-1353
No. 8 x 5/8in		797-6134		546-5963			
No. 8 x 3/4in	546-5711	521-620	522-1476	546-5979	546-5525	180-689	522-1369
No. 8 x 1 in	546-5727	521-636	522-1482	546-5985	546-5531	180-695	522-1375
No. 8 x 1.1/4in		797-6137			546-5547	180-702	
No. 8 x 1.1/2in		797-6131				797-6162	
No. 8 x 1.3/4in						797-6165	
No. 8 x 2in		797-6140				797-6169	
No. 10 x 3/8in		521-642					
No. 10 x 1/2in	546-5749	521-658	522-1498	546-5991	546-5553	180-718	
No. 10 x 5/8in		797-6143					
No. 10 x 3/4in	546-5761	521-664	522-1505	546-6001	546-5575	180-724	522-1381
No. 10 x 1 in	546-5777	521-670	522-1511	546-6017	546-5581	180-730	522-1397
No. 10 x 1.1/4in	546-5799	797-6147			546-5597	180-746	
No. 10 x 1.1/2in		797-6156				797-6178	
No. 10 x 2in		797-6159				797-6171	
No. 10 x 2.1/2in						797-6175	
No. 12 x 100in						797-6184	
No. 12 x 1.1/4in						797-6187	
No. 12 x 1.1/2in						797-6181	

	Hex Self Driller with washer Din 7504K
	
	BZP
4.2 x 13mm	546-5806
4.2 x 19mm	546-5812
4.2 x 25mm	546-5828
4.8 x 16mm	546-5834
4.8 x 19mm	546-5856
4.8 x 25mm	546-5862
5.5 x 19mm	546-5878
5.5 x 25mm	546-5884
5.5 x 32mm	546-5890
5.5 x 38mm	546-5913

	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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M3 - M20 **THREADED RODS**

	Threaded Rods Din 976				
	Nylon	Brass	A2	A4	BZP
M3x1m		468-7077	280-363	200-9942	530-292
M4x1m	280-436	468-7083	280-379	200-9958	530-309
M5x1m	280-442	468-7106	280-385	200-9964	530-315
M6x1m	280-458	468-7112	280-391	200-9970	530-321
M8x1m	280-464	468-7128	280-408	200-9986	530-337
M10x1m	280-470	468-7134	280-414	200-9992	530-343
M12x1m	280-486		280-420	201-0071	530-359
M16x1m		289-089	289-089	201-0201	276-500
M20x1m			289-095	201-0223	276-516

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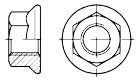
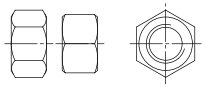
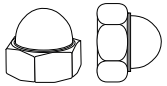
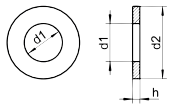
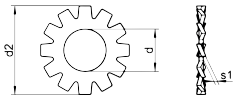
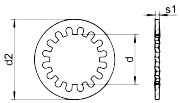
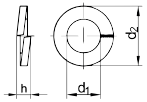
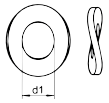
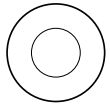
M2 - M20 **NUTS**

	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

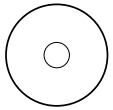
	Nylon Insert Locking Nut Din 982 (BZP) Din 985 (A2 & A4 + M2 & M4 BZP)			Aerotight® Locking Nut			Dome Nut Din 1587			Wing Nut UNI 5448		
												
	BZP	A2	A4	BZP	A1	A4	BZP	A2	A4	BZP	A2	A4
M2												
M2.5												
M3	524-281	521-917	767-804	530-652	260-5815	665-5606	293-050	248-4387	248-4450	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				

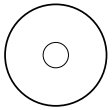
M2 - M20 WASHERS

	Plain Washer Din 125A (except Form B: BS4320)								External Shakeproof Washer Din 6797A	Internal Shakeproof Washer Din 6797J		
												
	BZP	NP Brass	Brass	Copper	A2 (Form A)	A2 (Form B)	A4 (Form A)	A4 (Form B)	BZP	BZP	A2	A4
M2	560-316	483-0619			527-347		248-4595				187-0535	
M2.5	560-322				527-353		248-7106		276-831		187-0541	
M3	560-338	483-0631	483-2592	293-167	527-369		189-620		276-847	526-574	187-0557	665-7299
M3.5	560-344	483-0647			527-375							
M4	525-925	483-0653	483-2609	293-173	527-381		189-636		276-869	526-596	187-0585	665-7309
M5	525-931	482-7720	483-2615	293-189	527-397		189-642		276-875	526-603	187-0591	665-7302
M6	525-947	483-0669	483-2621	293-195	527-404	797-6086	189-658	797-6373	276-881	526-619	187-0608	665-7306
M8	527-634		483-2637	293-202	797-6068	530-797	797-6389	189-664	276-897	530-129	187-0614	665-7315
M10	527-640		483-2643	293-218	7976077	530-804	797-6364	189-670	276-904	530-135	187-0636	665-7318
M12	530-084		483-2659	293-224	7976070	530-810	797-6367	183-9051	276-910	530-141	187-0642	665-7312
M16	276-926				7976074	275-715	797-6361	248-4618			187-0658	
M20	276-932				7976083	275-721	797-6370	248-4624			187-0664	

	Square-Section Spring Washer Din 7980			Crinkle Washer BS 4463		Sealing Washers Din 7603 (Copper), Din 125A (Red Vulcanised Fibre)		
								
	BZP	A2	A4	Copper	A2	Copper	Red Vulcanised Fibre	Nylon
M2	526-782	825-219		289-635	428-616			528-154
M2.5	526-798	825-225		289-641	428-622		289-073	528-160
M3	526-805	825-231	189-686	289-657	428-638	293-167	526-350	525-739
M3.5		825-247						
M4	526-827	530-826	189-692	289-679	428-650	293-173	526-366	525-745
M5	526-833	530-832	189-709	289-685	428-666	293-189	526-372	525-751
M6	526-849	530-848	189-715	289-691	428-672	293-195	526-388	528-176
M8	530-090	530-854	189-721	289-708	428-688	293-202	530-258	280-521
M10	530-107	530-860	189-737			293-218	530-264	280-537
M12	530-113	530-876	183-9067			293-224	530-270	280-543
M16	276-803	275-737						
M20	276-819	275-743						

METRIC & IMPERIAL **MUDGUARD WASHERS**

	Mudguard Washers (Imperial)
	
	BZP
1in OD x 3/16in ID	275-844
1in OD x 1/4in ID	275-850
1in OD x 5/16in ID	275-888
1 1/4in OD x 3/8in ID	275-917
1 1/4in OD x 1/4in ID	275-866
1 1/4in OD x 5/16in ID	275-894
1 1/2in OD x 3/8in ID	275-923
1 1/2in Odx x 1/4in ID	275-872
1 1/2in OD x 5/16in ID	275-901
2in OD x 3/8in ID	275-939

	Mudguard Washers (Metric)		
			
	BZP	A2	A4
M5 x 20mm	666-7753		
M5 x 25mm	666-7757	507-2678	660-4765
M6 x 25mm	666-7766	507-2684	660-4768
M6 x 30mm	666-7769	507-2690	660-4762
M6 x 40mm	666-7763		
M8 x 25mm	666-7772	507-2713	660-4771
M8 x 30mm	666-7775	507-2729	660-4774
M8 x 40mm	666-7779		
M10 x 30mm	666-7788	507-2735	660-4778
M10 x 35mm		660-4623	660-4787
M10 x 40mm	666-7781		
M10 x 50mm	666-7785		
M12 x 35mm		660-4627	660-4780

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