



Hafren
security fasteners

Edition 11
In-Stock Product Guide



Day. Night. Protected.

Contents

	Welcome to Hafren		2
	Team Orange Service		3
	Security Fastener Ratings Explained		4
	Specifying & Ordering Hafren Security Fasteners		5
	Public Sector Applications		6
	Public Transport Applications		8
	Automotive Applications		10
	2-Hole Screws	 	12
	Pin Hex Screws	 	16
	6-Lobe Pin Screws	 	20
	6-Lobe Pin Self Drilling Screws	 	24
	6-Lobe Pin Barrel Nuts	 	26
	5-Lobe Pin Screws	 	28
	Clutch Head Screws	 	32
	Sentinel® Screws	 	36
	Power6™	 	38
	Tri-Head Screws	 	40
	Solok™ Screws	 	42
	Nogo™ Enclosures	 	46
	Kinmar® Permanent	 	48
	Kinmar® Removable	 	52
	Armour Ring™	 	56
	Shear Nuts & Saddle Bolts	 	58
	Shear Bolts	 	62
	Scroll™ Nut System	 	64
	Sleeve Anchors		66
 	Bespoke Specials		70
	Application Advice		74
	Distributor Support		75

Welcome to Hafren

Specialists in security and tamper-resistant screws, nuts and bolts.

As a leading global supplier of security fasteners and fixings, Hafren Fasteners are committed to servicing the requirements of the tamper-resistant fastener market. This represents customers who rightly expect the very best in terms of quality, design, technology, service and individuality.

Founded in 1995
with one mission which
still remains today...



*stamping out
the impact of
theft globally*

Why security fasteners?

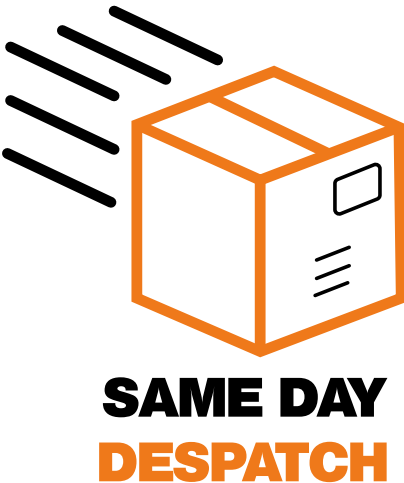
Security - The need to safeguard against theft and vandalism is increasingly an essential part of many design specifications.

Safety - Deal with stringent Health & Safety laws, keep the public and workplaces safe.

Aesthetics - Security fasteners are not only secure and vandal-resistant, but aesthetically pleasing to the eye complementing their surrounding environment.

Team Orange Service

Whatever you need to know about security fasteners, there's nobody better to turn to than Hafren. Unrivalled **experience** built up over many years has given us the **knowledge, understanding** and **expertise** to help. Quality **patented** products with technical sales and marketing back-up are high on our list of priorities. Our extensive stock holding and competitive pricing combine to give you outstanding customer service.



Security Ratings Explained

All Hafren security fasteners are rated on the security fastener rating system. From 1 to 5, where 1 offers the lowest level of protection and security and 5 gives the maximum protection available.

- SECURITY +

1

ENTRY LEVEL SECURITY

Fasteners offer protection from vandalism and opportunistic crime. Drivers tools can be purchased by the general public.

2

ENHANCED SECURITY

Fasteners are less common and less recognisable. Driver tooling is non-standard and harder for the general public to buy, enhancing the security of the assembly.

3

MEDIUM SECURITY

Rarer (less well-known) products. Supply of driver tooling is controlled, less readily available to buy, enhancing the security of the assembly.

4

HIGH SECURITY

Either 1-way permanent fixings, or rare Hafren patented high security products requiring specialist tooling to remove (only available from Hafren approved distributors).

5

MAXIMUM SECURITY

Highest security available. Products are either 1-way permanent fixings, or require bespoke exclusive, custom made driver tools to remove.



Specifying & ordering

Here is some useful information to assist you in specifying and ordering the correct 'Hafren' security fasteners.

Does it need to be removable?

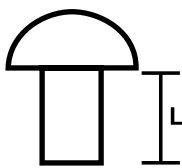
(With a special matching removal tool)

If yes, look for the **(2) WAY** logo

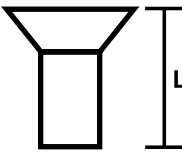
If no, look for the **(1) WAY** logo

What length?

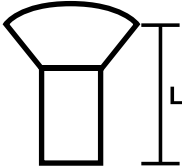
Depending on the head shape of a screw, the length measurement is taken from a different point.



Button/Pan
(From underside of the head)



Countersunk
(From top of the head)



Raised Countersunk
(From top of Countersunk part)

Metric & Imperial

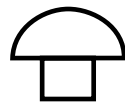
Self Tapping Screws, Woodscrews and Self Drilling Screws are stocked as Imperial sizes but are often referred to in metric equivalents.

Length		
Imperial	Metric	HAFREN code
3/8"	9.5mm	C
1/2"	13mm	D
5/8"	16mm	E
3/4"	19mm	F
1"	25mm	G
1 1/4"	32mm	H
1 1/2"	38mm	I
1 3/4"	44mm	IA
2"	50mm	J
2 1/2"	63mm	K
3"	75mm	L
4"	100mm	N
4 1/2"	113mm	ND

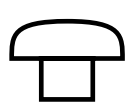
Gauge	
Imperial	Metric
4	2.9
6	3.5
8	4.2
10	4.8
12	5.5
14	6.3

Head style?

It is important to know the head style you need as well as the security drive.



Button



Pan



Countersunk



Raised Countersunk

Thread type?

Thread type will be guided by your application.



Self Tapping Screw



Self Drilling Screw



Machine Screw



Barrel Nut

Material / Finish

Hafren offer a range of materials and finishes which each offer their own benefits (corrosion resistance, hardness, aesthetics, thread lubrication, thread locking etc...)



Terms & Conditions

All sizes shown are regularly stocked items. Box quantities are subject to change without notice.

Every effort has been made to ensure the accuracy of information provided in this catalogue. Hafren Fasteners cannot warrant the information however, expressly or implied, and any liability arising from it is expressly excluded. Customers must satisfy themselves as to the suitability of products and the technical information relating to them, and it is recommended that you conduct your own tests to establish suitability. This does not affect your statutory rights.

All transactions are subject to Hafren Fasteners Terms & Conditions of Sale which are available on request.

E. & O. E.
© 2022, Hafren Fasteners

Scan these QR codes to watch the installation videos





REFUSE BINS



PARK BENCHES



BIKE SHARE / HIRE SCHEMES



CCTV



PERIMETER SECURITY



PARKING METERS

Can you afford not to?

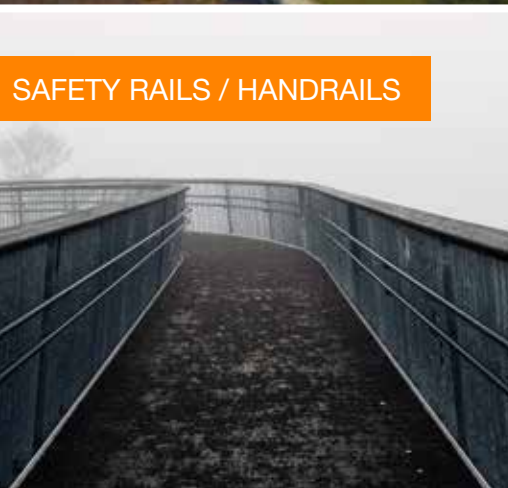


Public Sector

All around us in the public sector are easy targets for terrorism, vandalism, petty theft or maybe just health and safety requirements.

1. Refuse Bins
2. Park Benches
3. Speed Cameras
4. Prisons
5. Flag Poles
6. Bike Share Schemes
7. Sculptures / Monuments
8. Fencing / Barriers
9. Cycle Storage
10. Handrails
11. Traffic Lights
12. Street Lights
13. Museums
14. Rail Stations
15. Roof Lights
16. CCTV
17. EV Charging Points
18. Parking Meters
19. Signs
20. Bus Stops
21. Car Parks
22. Shopping Centres
23. Football Stadia
24. Hotels
25. Window Locks

REMEMBER: Don't take the risk - secure it - "it's a small price to pay".



SAFETY RAILS / HANDRAILS



STREET LIGHTING



FLAG POLES



SHELTERS



SOLAR PANELS



EV CHARGING



BENCHES



VENDING MACHINES



TRAFFIC LIGHTS



SIGNAGE



LIGHTING



TRAIN INTERIORS

Protecting people, protecting property



Public Transport

Hafren have worked closely with the public transport sector in the design and supply of security fasteners and fixings for various applications. Some of them are listed below, others are too sensitive to mention here.

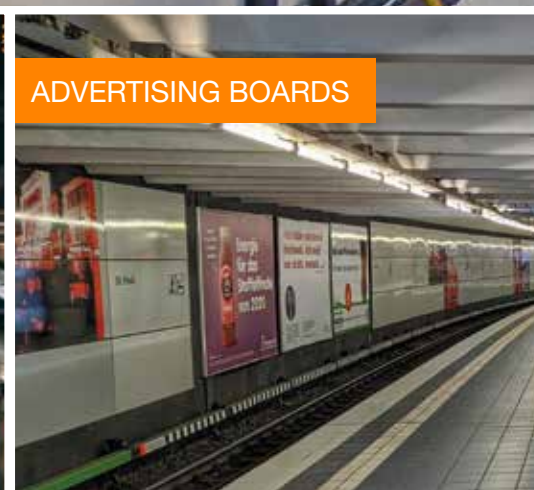
1. Control Panels
2. Benches
3. Vending Machines
4. Lighting
5. Mobility Equipment
6. CCTV
7. Cladding
8. Signs
9. Train Handrails
10. Advertising Hoardings

REMEMBER: Don't take the risk - secure it - "it's a small price to pay".

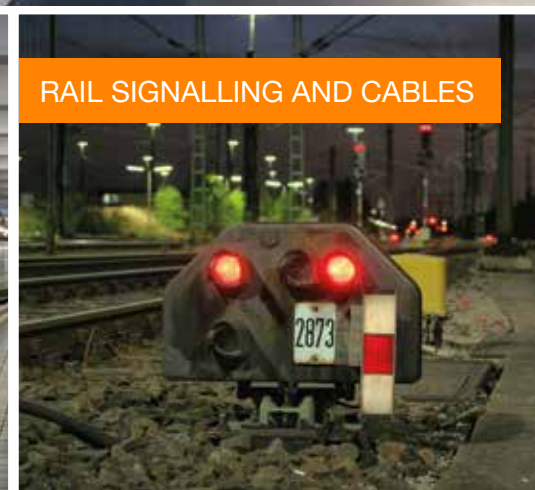
Did you know: the London Underground has a staggering 272 stations, that is around 200 less than the New York City Subway.



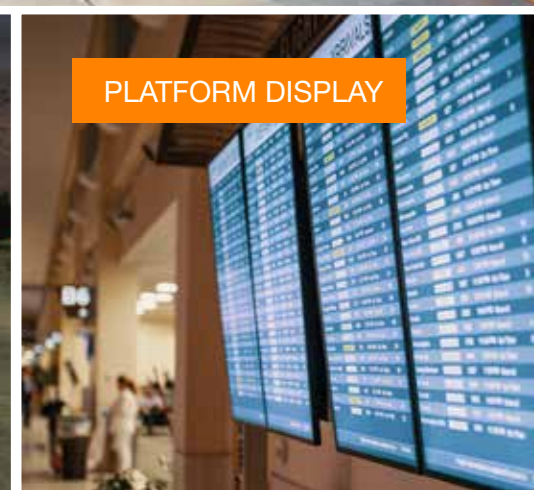
CCTV



ADVERTISING BOARDS



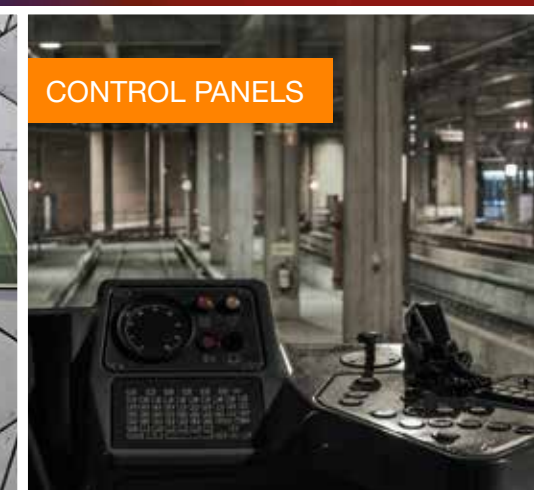
RAIL SIGNALLING AND CABLES



PLATFORM DISPLAY



CLADDING / FACADES



CONTROL PANELS



AERODYNAMICS



ELECTRONIC UNITS (ECU's)



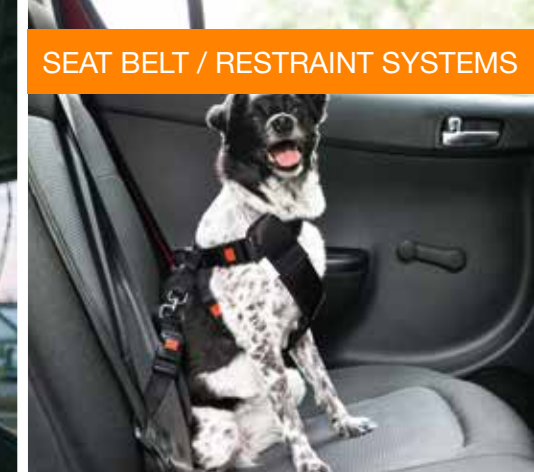
EV CHARGING STATIONS



NUMBER PLATES



LEISURE ACCESSORIES



SEAT BELT / RESTRAINT SYSTEMS

Helping to stamp out Automotive theft



Automotive

With increasing security requirements and stringent Health & Safety laws, permanent and removable security fasteners are becoming a necessity in many automotive specifications. From structural fixings to decorative 'limited edition' plaques, Hafren can offer you the correct security fasteners to meet regulations.

1. Spare Wheel Carriers
2. Fuel Pumps
3. Aftermarket Accessories
4. Roof Racks
5. Wheel Nuts
6. Seat Belt Fixings
7. EV Batteries
8. Airbags
9. Steering Systems
10. Immobilisers
11. Design Protection
12. ECU Units
13. Alarm Systems
14. Badges / Plaques
15. Number Plate Fixings

REMEMBER: Don't take the risk - secure it - "it's a small price to pay".

Did you know: 1 vehicle is stolen every 6 mins in the UK, compared to 100 in China!



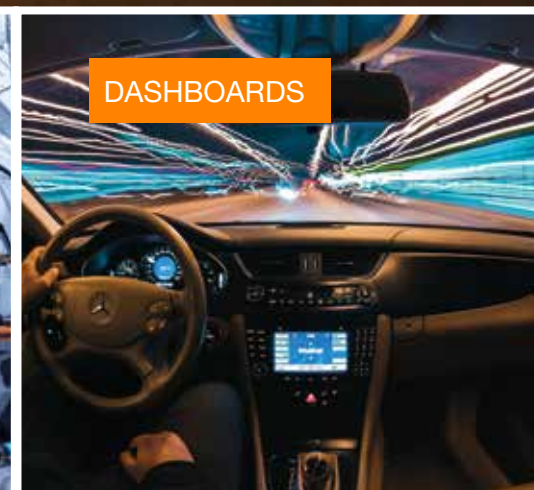
AIRBAGS AND SAFETY SYSTEMS



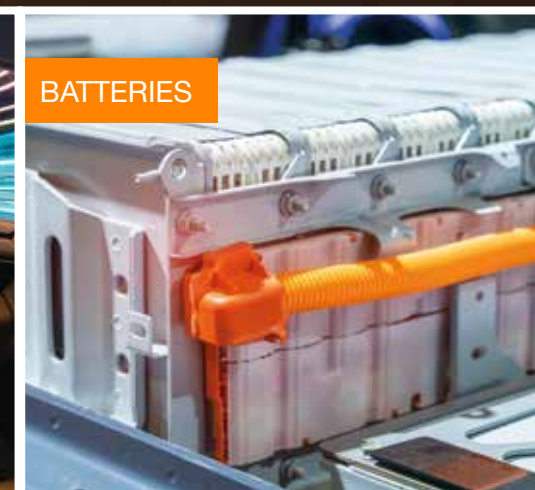
AFTERMARKET ACCESSORIES



ELECTRIC DRIVETRAINS



DASHBOARDS



BATTERIES



ALARM / IMMOBILISER SYSTEMS

2-Hole

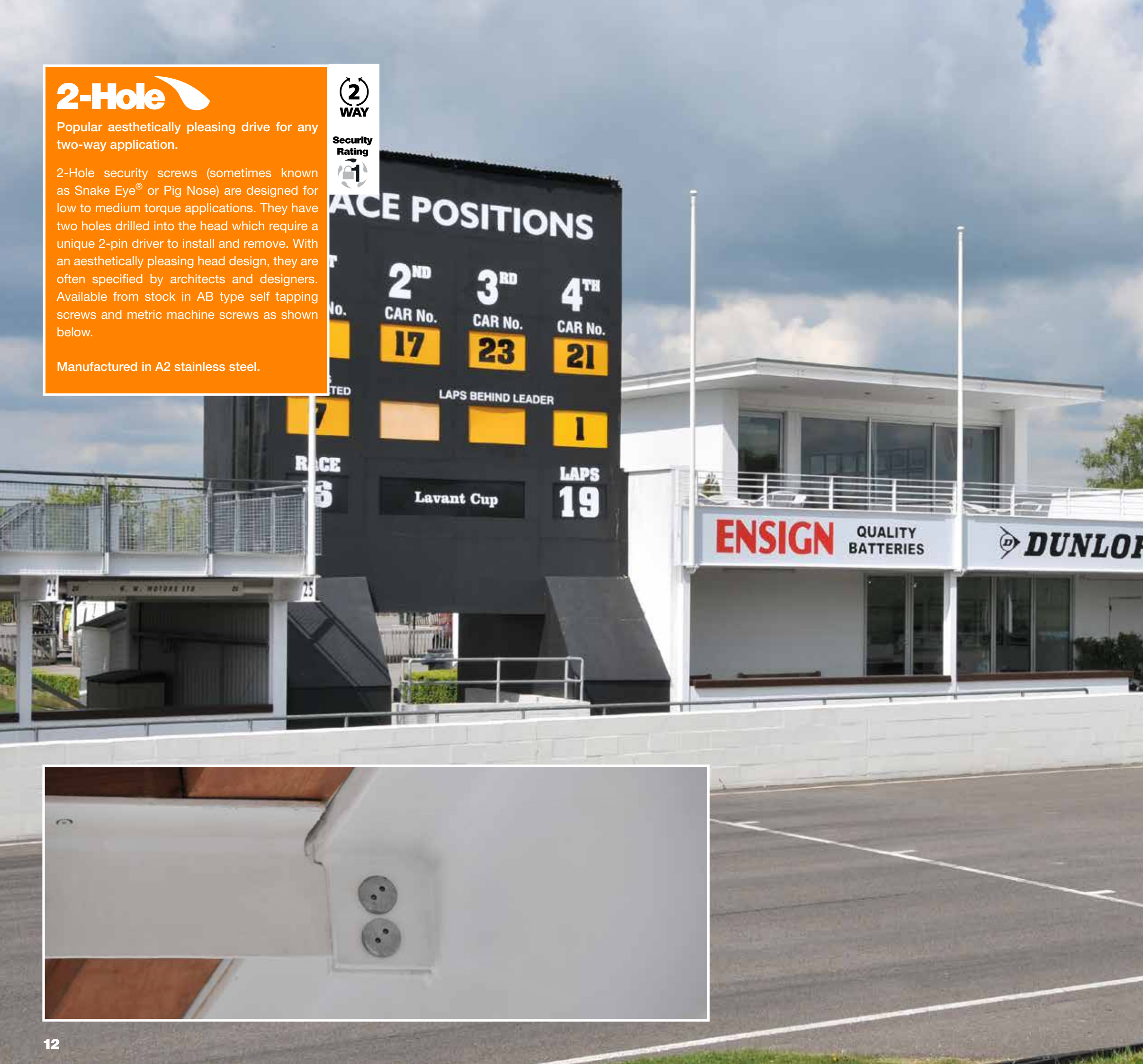
Popular aesthetically pleasing drive for any two-way application.

2-Hole security screws (sometimes known as Snake Eye® or Pig Nose) are designed for low to medium torque applications. They have two holes drilled into the head which require a unique 2-pin driver to install and remove. With an aesthetically pleasing head design, they are often specified by architects and designers. Available from stock in AB type self tapping screws and metric machine screws as shown below.

Manufactured in A2 stainless steel.



Security Rating



RACE POSITIONS

2ND

CAR No.

17

3RD

CAR No.

23

4TH

CAR No.

21

LAPS BEHIND LEADER

RACE 16

Lavant Cup

LAPS 19

ENSIGN

QUALITY BATTERIES



DUNLOP



2-Hole



Countersunk Self Tapper



Countersunk Machine Screw



Pan Head Self Tapper



Pan Head Machine Screw



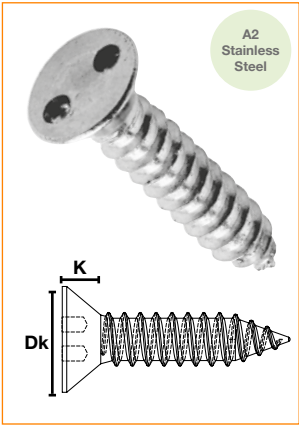
Raised Countersunk Machine Screw

stocked sizes & technical data

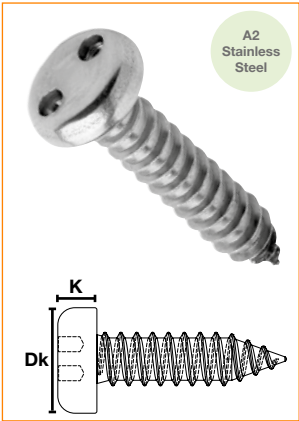




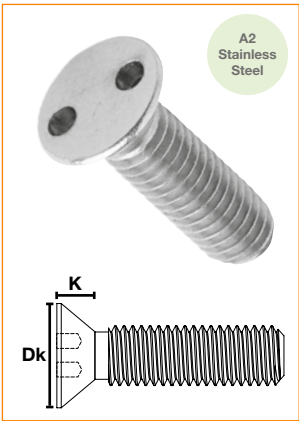
2-HOLE SCREWS



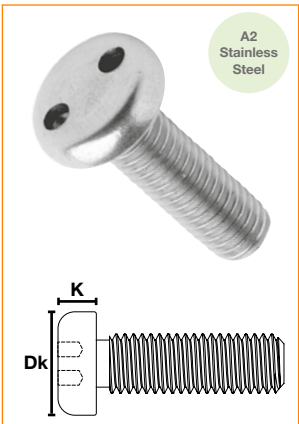
COUNTERSUNK ■ A2 STAINLESS STEEL ■ AB TYPE SELF TAPPING SCREWS													BOX QTY 100	
LENGTH DIAMETER	Dk	K	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	DRIVER SIZE	
			9.5mm	13mm	16mm	19mm	25mm	32mm	38mm	50mm	63mm	75mm		
No. 4	2.9mm	5.5	1.7	THCS04C	THCS04D		THCS04F	THCS04G	THCS04H	THCS04I			TH3	
No. 6	3.5mm	6.6	2.1	THCS06C	THCS06D	THCS06E	THCS06F	THCS06G	THCS06H	THCS06I	THCS06J		TH4	
No. 8	4.2mm	7.8	2.5	THCS08C	THCS08D	THCS08E	THCS08F	THCS08G	THCS08H	THCS08I	THCS08J		TH5	
No. 10	4.8mm	8.9	3.0		THCS10D	THCS10E	THCS10F	THCS10G	THCS10H	THCS10I	THCS10J	THCS10K	TH6	
No. 12	5.5mm	10.1	3.4					THCS12G	THCS12H	THCS12I	THCS12J		TH7	
No. 14	6.3mm	12.3	3.9			THCS14E	THCS14F	THCS14G	THCS14H	THCS14I	THCS14J		TH8	



PAN HEAD ■ A2 STAINLESS STEEL ■ AB TYPE SELF TAPPING SCREWS													BOX QTY 100	
LENGTH DIAMETER		Dk	K	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	DRIVER SIZE
				9.5mm	13mm	16mm	19mm	25mm	32mm	38mm	50mm	63mm	75mm	
No. 4	2.9mm	5.4	1.6	THPS04C	THPS04D	THPS04E	THPS04F	THPS04G		THPS04I				TH3
No. 6	3.5mm	6.7	2.0	THPS06C	THPS06D	THPS06E	THPS06F	THPS06G	THPS06H	THPS06I	THPS06J			TH4
No. 8	4.2mm	8.0	2.3	THPS08C	THPS08D	THPS08E	THPS08F	THPS08G	THPS08H	THPS08I	THPS08J			TH5
No. 10	4.8mm	9.2	2.7	THPS10C	THPS10D	THPS10E	THPS10F	THPS10G	THPS10H	THPS10I	THPS10J	THPS10K		TH6
No. 12	5.5mm	10.5	3.1		THPS12D			THPS12G	THPS12H	THPS12I	THPS12J			TH7
No. 14	6.3mm	12.2	3.5			THPS14E	THPS14F	THPS14G	THPS14H	THPS14I	THPS14J			TH8



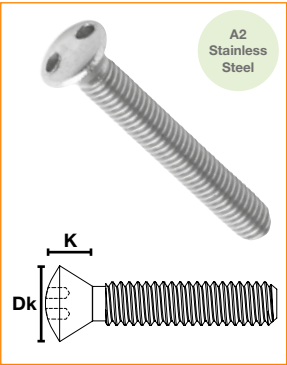
COUNTERSUNK ■ A2 STAINLESS STEEL ■ METRIC MACHINE SCREWS														BOX QTY 100		
LENGTH	Dk	K	6mm	8mm	10mm	12mm	16mm	20mm	25mm	30mm	35mm	40mm	45mm	50mm	60mm	DRIVER SIZE
DIAMETER Thread Pitch																
M3 x 0.5	5.5	1.7	THCM 0306	THCM 0308	THCM 0310	THCM 0312	THCM 0316	THCM 0320	THCM 0325	THCM 0330	THCM 0335					TH3
M4 x 0.7	7.3	2.2			THCM 0410	THCM 0412	THCM 0416	THCM 0420	THCM 0425	THCM 0430	THCM 0435	THCM 0440				TH5
M5 x 0.8	9.0	2.5				THCM 0512	THCM 0516	THCM 0520	THCM 0525	THCM 0530	THCM 0535	THCM 0540				TH6
M6 x 1.0	10.7	3.0				THCM 0612	THCM 0616	THCM 0620	THCM 0625	THCM 0630		THCM 0640				TH8



PAN HEAD ■ A2 STAINLESS STEEL ■ METRIC MACHINE SCREWS														BOX QTY 100		
LENGTH DIAMETER Thread Pitch	Dk	K	6mm	8mm	10mm	12mm	16mm	20mm	25mm	30mm	35mm	40mm	45mm	50mm	60mm	DRIVER SIZE
M3 x 0.5	5.5	1.7	THPM 0306	THPM 0308	THPM 0310	THPM 0312	THPM 0316	THPM 0320								TH3
M4 x 0.7	7.3	2.2	THPM 0406	THPM 0408	THPM 0410	THPM 0412	THPM 0416	THPM 0420	THPM 0425	THPM 0430		THPM 0440		THPM 0450		TH5
M5 x 0.8	9.0	2.5		THPM 0508	THPM 0510	THPM 0512	THPM 0516	THPM 0520	THPM 0525	THPM 0530		THPM 0540		THPM 0550	THPM 0560	TH6
M6 x 1.0	10.7	3.0				THPM 0612	THPM 0616	THPM 0620	THPM 0625	THPM 0630	THPM 0635	THPM 0640	THPM 0645	THPM 0650	THPM 0660	TH8



2-HOLE SCREWS



RAISED COUNTERSUNK ■ A2 STAINLESS STEEL ■ METRIC MACHINE SCREWS								BOX QTY 100
LENGTH	Dk	K	12mm	25mm	30mm	40mm	50mm	DRIVER SIZE
DIAMETER Thread Pitch								
M3.5 x 0.6	5.5	1.7	THRM3512	THRM3525	THRM3530	THRM3540	THRM3550	TH4

2-HOLE TOOLING

SOLD INDIVIDUALLY

- Sold Individually or in bulk packs
- Use in low-medium torque applications
- Not recommended for use with battery/pneumatic applicators

SIZE	1/4" Hex Insert Bit (25mm)	One-Piece Screwdriver
TH3	TH3-B	
TH4	TH4-B	TH4-OPS
TH5	TH5-B	TH5-OPS
TH6	TH6-B	TH6-OPS
TH7	TH7-B	TH7-OPS
TH8	TH8-B	TH8-OPS
THN08		THN08
THN14		THN14

Insert Bit Material Specification	
Raw Material	Hardened
Steel S2	60 ±2 HRC

MAGNETIC SCREWDRIVER

- Sold Individually
- Magnetic 1/4" Hex Drive to fit all standard Insert Bits
- Storage space in handle
- Ergonomic Design



Part Code: **SMH**



Installation video

Hexagon socket screws manufactured with an internal pin.

This drive prevents removal with standard hexagon tools. Suitable for medium torque applications and is one of the most difficult to remove without the matching driver.

Manufactured in A2 stainless steel.

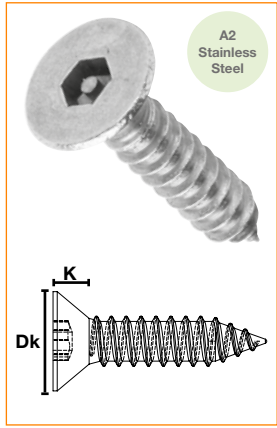
**(2)
WAY**

**Security
Rating**

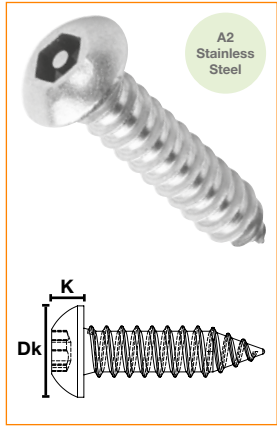


stocked sizes & technical data





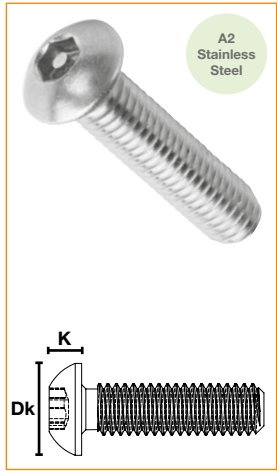
COUNTERSUNK ■ A2 STAINLESS STEEL ■ AB TYPE SELF TAPPING SCREWS													BOX QTY 100	
LENGTH DIAMETER		Dk	K	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	DRIVER SIZE
				9.5mm	13mm	16mm	19mm	25mm	32mm	38mm	50mm	63mm	75mm	
No. 6	3.5mm	6.6	2.1	PHCS 06C-M	PHCS 06D-M	PHCS 06E-M	PHCS 06F-M	PHCS 06G-M		PHCS 06I-M				HM2
No. 8	4.2mm	7.9	2.5		PHC S08D-M	PHCS 08E-M	PHCS 08F-M	PHCS 08G-M	PHCS 08H-M	PHCS 08I-M	PHCS 08J-M			HM2.5
No. 10	4.8mm	9.3	3.0		PHCS 10D-M	PHCS 10E-M	PHCS 10F-M	PHCS 10G-M	PHCS 10H-M	PHCS 10I-M	PHCS 10J-M	PHCS 10K-M		HM3
No. 12	5.5mm	10.4	3.4				PHCS 12F-M	PHCS 12G-M	PHCS 12H-M	PHCS 12I-M	PHCS 12J-M			HM4
No. 14	6.3mm	12.4	3.8				PHCS 14F-M	PHCS 14G-M	PHCS 14H-M	PHCS 14I-M	PHCS 14J-M			HM4



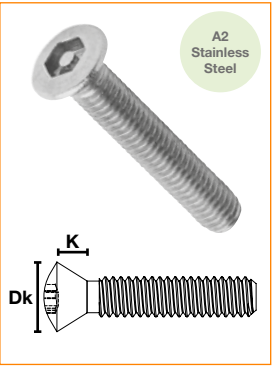
BUTTON HEAD ■ A2 STAINLESS STEEL ■ AB TYPE SELF TAPPING SCREWS													BOX QTY 100	
LENGTH DIAMETER		Dk	K	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	DRIVER SIZE
				9.5mm	13mm	16mm	19mm	25mm	32mm	38mm	50mm	63mm	75mm	
No. 6	3.5mm	6.7	2.5	PHBS 06C-M	PHBS 06D-M	PHBS 06E-M	PHBS 06F-M	PHBS 06G-M		PHBS 06I-M				HM2
No. 8	4.2mm	7.4	2.1	PHBS 08C-M	PHBS 08D-M	PHBS 08E-M	PHBS 08F-M	PHBS 08G-M	PHBS 08H-M	PHBS 08I-M	PHBS 08J-M			HM2.5
No. 10	4.8mm	9.3	2.6		PHBS 10D-M	PHBS 10E-M	PHBS 10F-M	PHBS 10G-M	PHBS 10H-M	PHBS 10I-M	PHBS 10J-M	PHBS 10K-M		HM3
No. 12	5.5mm	10.3	3.2				PHBS 12F-M	PHBS 12G-M	PHBS 12H-M	PHBS 12I-M	PHBS 12J-M			HM4
No. 14	6.3mm	11.0	3.4				PHBS 14F-M	PHBS 14G-M	PHBS 14H-M	PHBS 14I-M	PHBS 14J-M			HM4



COUNTERSUNK ■ A2 STAINLESS STEEL ■ METRIC MACHINE SCREWS															BOX QTY 100		
LENGTH	Dk	K	6 mm	8 mm	10 mm	12 mm	16 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	50 mm	60 mm	DRIVER SIZE	
DIAMETER Thread Pitch																	
M3 x 0.5	5.7	1.7	PHCM 0306-M		PHCM 0310-M	PHCM 0312-M	PHCM 0316-M	PHCM 0320-M								HM2	
M4 x 0.7	7.7	2.3		PHCM 0408-M	PHCM 0410-M	PHCM 0412-M	PHCM 0416-M	PHCM 0420-M	PHCM 0425-M	PHCM 0430-M		PHCM 0440-M				HM2.5	
M5 x 0.8	9.8	2.8		PHCM 0508-M	PHCM 0510-M	PHCM 0512-M	PHCM 0516-M	PHCM 0520-M	PHCM 0525-M	PHCM 0530-M		PHCM 0540-M		PHCM 0550-M	PHCM 0560-M	HM3	
M6 x 1.0	11.8	3.3		PHCM 0608-M	PHCM 0610-M	PHCM 0612-M	PHCM 0616-M	PHCM 0620-M	PHCM 0625-M	PHCM 0630-M		PHCM 0640-M		PHCM 0650-M	PHCM 0660-M	HM4	
M8 x 1.25	15.8	5.0				PHCM 0812-M	PHCM 0816-M	PHCM 0820-M	PHCM 0825-M	PHCM 0830-M	PHCM 0835-M	PHCM 0840-M	PHCM 0845-M	PHCM 0850-M	PHCM 0860-M	HM5	
M10 x 1.5	19.7	6.7						PHCM 1020-M	PHCM 1025-M	PHCM 1030-M		PHCM 1040-M		PHCM 1050-M	PHCM 1060-M	HM6	
M12 x 1.75	23.2	7.4						PHCM 1220-M	PHCM 1225-M	PHCM 1230-M		PHCM 1240-M		PHCM 1250-M	PHCM 1260-M	HM8	



BUTTON HEAD ■ A2 STAINLESS STEEL ■ METRIC MACHINE SCREWS																	BOX QTY 100		
LENGTH	Dk	K	6 mm	8 mm	10 mm	12 mm	16 mm	20 mm	25 mm	30 mm	35 mm	40 mm	50 mm	60 mm	80 mm	100 mm	120 mm	DRIVER SIZE	
DIAMETER Thread Pitch																			
M3 x 0.5	5.5	1.5	PHBM 0306-M	PHBM 0308-M	PHBM 0310-M	PHBM 0312-M	PHBM 0316-M	PHBM 0320-M										HM2	
M4 x 0.7	7.4	2.2	PHBM 0406-M	PHBM 0408-M	PHBM 0410-M	PHBM 0412-M	PHBM 0416-M	PHBM 0420-M	PHBM 0425-M	PHBM 0430-M		PHBM 0440-M						HM2.5	
M5 x 0.8	9.3	2.7		PHBM 0508-M	PHBM 0510-M	PHBM 0512-M	PHBM 0516-M	PHBM 0520-M	PHBM 0525-M	PHBM 0530-M		PHBM 0540-M	PHBM 0550-M	PHBM 0560-M				HM3	
M6 x 1.0	10.3	3.2			PHBM 0610-M	PHBM 0612-M	PHBM 0616-M	PHBM 0620-M	PHBM 0625-M	PHBM 0630-M		PHBM 0640-M	PHBM 0650-M	PHBM 0660-M				HM4	
M8 x 1.25	13.7	4.4				PHBM 0812-M	PHBM 0816-M	PHBM 0820-M	PHBM 0825-M	PHBM 0830-M	PHBM 0835-M	PHBM 0840-M	PHBM 0850-M	PHBM 0860-M				HM5	
M10 x 1.5	17.1	5.6					PHBM 1016-M	PHBM 1020-M	PHBM 1025-M	PHBM 1030-M		PHBM 1040-M	PHBM 1050-M	PHBM 1060-M		PHBM 10100-M		HM6	
M12 x 1.75	20.4	6.5						PHBM 1220-M	PHBM 1225-M	PHBM 1230-M	PHBM 1235-M	PHBM 1240-M	PHBM 1250-M	PHBM 1260-M	PHBM 1280-M	PHBM 12100-M	PHBM 12120-M	HM8	



RAISED COUNTERSUNK ■ A2 STAINLESS STEEL ■ METRIC MACHINE SCREWS										BOX QTY 100
LENGTH DIAMETER Thread Pitch	Dk	K	12mm	20mm	25mm	30mm	40mm	50mm	60mm	DRIVER SIZE
M3.5 x 0.6	5.5	1.7	PHRM3512	PHRM3520	PHRM3525	PHRM3530	PHRM3540	PHRM3550	PHRM3560	H30

PIN HEX TOOLING

SOLD INDIVIDUALLY

- Sold Individually or in bulk packs

SIZE	1/4" Hex Insert Bit (25mm)	1/4" Hex Insert Bit (50mm)	'L' Key Wrench	One-Piece Screwdriver
2mm	HM2-B	HM2-B50	HM2-K	HM2-OPS
2.5mm	HM2.5-B	HM2.5-B50	HM2.5-K	HM2.5-OPS
3mm	HM3-B	HM3-B50	HM3-K	HM3-OPS
4mm	HM4-B	HM4-B50	HM4-K	HM4-OPS
5mm	HM5-B	HM5-B50	HM5-K	HM5-OPS
6mm	HM6-B	HM6-B50	HM6-K	HM6-OPS
8mm	HM8-B		HM8-K	HM8-OPS
3/32"	H020-B	H020-B50	H020-K	
1/8"	H030-B	H030-B50	H030-K	H030-OPS
5/32"	H040-B	H040-B50	H040-K	H040-OPS
7/32"	HI732-B		HI732-K	

Insert Bit Material Specification	
Raw Material	Hardened
Steel S2	60 ±2 HRC

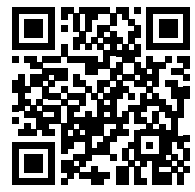
Key Wrench Material Specification	
Raw Material	Hardened
CR-V 6150	50-55 HRC

MAGNETIC SCREWDRIVER

- Sold Individually
- Magnetic 1/4" Hex Drive to fit all standard Insert Bits
- Storage space in handle
- Ergonomic Design



Part Code: SMH



Installation video

6-Lobe Pin

6-Lobe recess manufactured with an internal pin.

6-Lobe Pin security screws are sometimes known as Resistorx, Pin Torx or Stardrive Pin. Popular security drive for high torque applications. Quickly and easily installed and removed using matching tooling.

Manufactured in A2 stainless steel.

2

WAY

Security Rating

1

6-Lobe Pin



Countersunk Self Tapper

Countersunk Machine Screw



Button Head Self Tapper

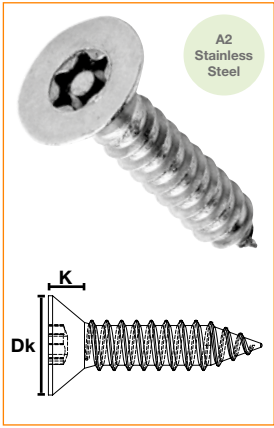
Button Head Machine Screw



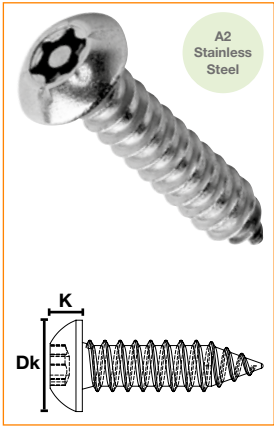
Raised Countersunk Machine Screw

stocked sizes & technical data

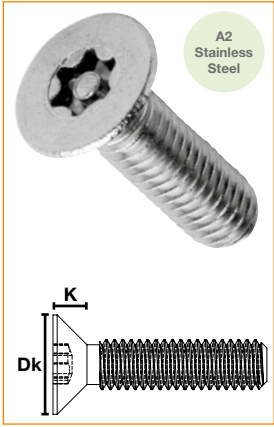




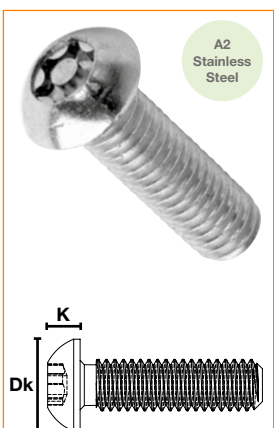
COUNTERSUNK ■ A2 STAINLESS STEEL ■ AB TYPE SELF TAPPING SCREWS																	BOX QTY 100
LENGTH		Dk	K	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"	4"	4 1/2"	DRIVER SIZE
				9.5 mm	13 mm	16 mm	19 mm	25 mm	32 mm	38 mm	44 mm	50 mm	63 mm	75 mm	100 mm	113 mm	
No. 4	2.9mm	4.9	1.5		RTCS 04D	RTCS 04E	RTCS 04F	RTCS 04G									T10
No. 6	3.5mm	6.6	2.1		RTCS 06D	RTCS 06E	RTCS 06F	RTCS 06G	RTCS 06H	RTCS 06I		RTCS 06J					T15
No. 8	4.2mm	7.9	2.5	RTCS 08C	RTCS 08D	RTCS 08E	RTCS 08F	RTCS 08G	RTCS 08H	RTCS 08I	RTCS 08IA	RTCS 08J	RTCS 08K				T20
No. 10	4.8mm	9.3	3.0		RTCS 10D	RTCS 10E	RTCS 10F	RTCS 10G	RTCS 10H	RTCS 10I		RTCS 10J	RTCS 10K	RTCS 10L	RTCS 10N		T25
No. 12	5.5mm	10.6	3.4				RTCS 12F	RTCS 12G	RTCS 12H	RTCS 12I		RTCS 12J	RTCS 12K	RTCS 12L	RTCS 12N	RTCS 12ND	T27
No. 14	6.3mm	12.4	3.8				RTCS 14F	RTCS 14G	RTCS 14H	RTCS 14I		RTCS 14J					T30



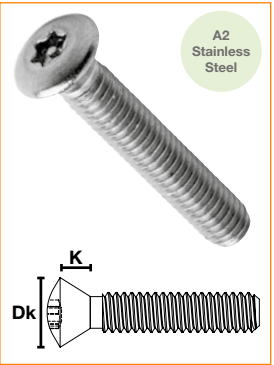
BUTTON HEAD ■ A2 STAINLESS STEEL ■ AB TYPE SELF TAPPING SCREWS													BOX QTY 100		
LENGTH DIAMETER		Dk	K	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	DRIVER SIZE	
				9.5mm	13mm	16mm	19mm	25mm	32mm	38mm	50mm	63mm	75mm		
No. 4	2.9mm	5.5	1.5		RTBS04D		RTBS04F							T10	
No. 6	3.5mm	6.7	2.6	RTBS06C	RTBS06D	RTBS06E	RTBS06F	RTBS06G		RTBS06I	RTBS06J			T10	
No. 8	4.2mm	7.4	2.2	RTBS08C	RTBS08D	RTBS08E	RTBS08F	RTBS08G	RTBS08H	RTBS08I	RTBS08J			T15	
No. 10	4.8mm	9.3	2.6	RTBS10C	RTBS10D	RTBS10E	RTBS10F	RTBS10G	RTBS10H	RTBS10I	RTBS10J			T25	
No. 12	5.5mm	10.2	3.1				RTBS12F	RTBS12G	RTBS12H	RTBS12I	RTBS12J	RTBS12K	RTBS12L	T27	
No. 14	6.3mm	11.0	3.4				RTBS14F	RTBS14G	RTBS14H	RTBS14I	RTBS14J			T30	



COUNTERSUNK ■ A2 STAINLESS STEEL ■ METRIC MACHINE SCREWS																	BOX QTY 100			
LENGTH	Dk	K	6 mm	8 mm	10 mm	12 mm	16 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	50 mm	55 mm	60 mm	70 mm	80 mm	DRIVER SIZE	
																				Diameter
M3 x 0.5	5.6	1.7	RTCM 0306	RTCM 0308	RTCM 0310	RTCM 0312	RTCM 0316	RTCM 0320	RTCM 0325										T10	
M4 x 0.7	7.8	2.3	RTCM 0406	RTCM 0408	RTCM 0410	RTCM 0412	RTCM 0416	RTCM 0420	RTCM 0425	RTCM 0430		RTCM 0440	RTCM 0445	RTCM 0450			RTCM 0470		T20	
M5 x 0.8	9.8	2.9		RTCM 0508	RTCM 0510	RTCM 0512	RTCM 0516	RTCM 0520	RTCM 0525	RTCM 0530		RTCM 0540	RTCM 0545	RTCM 0550		RTCM 0560		RTCM 0580	T25	
M6 x 1.0	11.6	3.4		RTCM 0608	RTCM 0610	RTCM 0612	RTCM 0616	RTCM 0620	RTCM 0625	RTCM 0630	RTCM 0635	RTCM 0640		RTCM 0650		RTCM 0660		RTCM 0680	T30	
M8 x 1.25	15.8	4.5					RTCM 0816	RTCM 0820	RTCM 0825	RTCM 0830		RTCM 0840		RTCM 0850	RTCM 0855	RTCM 0860		RTCM 0880	T40	
M10 x 1.5	17.4	5.6							RTCM 1025		RTCM 1035	RTCM 1040		RTCM 1050		RTCM 1060		RTCM 1080	T45	



BUTTON HEAD ■ A2 STAINLESS STEEL ■ METRIC MACHINE SCREWS																						BOX QTY 100		
DIAMETER Thread Pitch	LENGTH	Dk	K	6 mm	8 mm	10 mm	12 mm	16 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	50 mm	55 mm	60 mm	65 mm	70 mm	75 mm	80 mm	100 mm	DRIVER SIZE	
M3 x 0.5	5.5	2.0		RTBM 0306	RTBM 0308	RTBM 0310	RTBM 0312	RTBM 0316	RTBM 0320	RTBM 0325	RTBM 0330												T10	
M4 x 0.7	7.4	2.3		RTBM 0406	RTBM 0408	RTBM 0410	RTBM 0412	RTBM 0416	RTBM 0420	RTBM 0425	RTBM 0430	RTBM 0435	RTBM 0440	RTBM 0445	RTBM 0450		RTBM 0460							T20
M5 x 0.8	9.3	2.8			RTBM 0508	RTBM 0510	RTBM 0512	RTBM 0516	RTBM 0520	RTBM 0525	RTBM 0530	RTBM 0535	RTBM 0540	RTBM 0545	RTBM 0550		RTBM 0560							T25
M6 x 1.0	10.4	3.3			RTBM 0608	RTBM 0610	RTBM 0612	RTBM 0616	RTBM 0620	RTBM 0625	RTBM 0630	RTBM 0635	RTBM 0640	RTBM 0645	RTBM 0650		RTBM 0660					RTBM 0680		T30
M8 x 1.25	13.7	5.0				RTBM 0810	RTBM 0812	RTBM 0816	RTBM 0820	RTBM 0825	RTBM 0830	RTBM 0835	RTBM 0840		RTBM 0850	RTBM 0855	RTBM 0860				RTBM 0875	RTBM 0880	RTBM 08100	T40
M10 x 1.5	17.0	5.1						RTBM 1016	RTBM 1020	RTBM 1025	RTBM 1030	RTBM 1035	RTBM 1040		RTBM 1050		RTBM 1060	RTBM 1065	RTBM 1070		RTBM 1080	RTBM 10100		T45



RAISED COUNTERSUNK ■ A2 STAINLESS STEEL ■ METRIC MACHINE SCREWS											BOX QTY 100		
DIAMETER Thread Pitch	LENGTH		Dk	K	12mm	20mm	25mm	30mm	35mm	40mm	50mm	75mm	DRIVER SIZE
	M3.5 x 0.6	6.4	1.8	RTRM 3512	RTRM 3520	RTRM 3525	RTRM 3530	RTRM 3535	RTRM 3540	RTRM 3550	RTRM 3575	T10	

6-LOBE PIN TOOLING

SOLD INDIVIDUALLY

- Sold Individually or in bulk packs

SIZE	1/4" Hex Insert Bit (25mm)	1/4" Hex Insert Bit (50mm)	'L' Key Wrench	One-Piece Screwdriver
T8	T08-B		T08-K	
T10	T10-B	T10-B50	T10-K	T10-OPS
T15	T15-B	T15-B50	T15-K	T15-OPS
T20	T20-B	T20-B50	T20-K	T20-OPS
T25	T25-B	T25-B50	T25-K	T25-OPS
T27	T27-B	T27-B50	T27-K	
T30	T30-B	T30-B50	T30-K	T30-OPS
T40	T40-B	T40-B50	T40-K	T40-OPS
T45	T45-B		T45-K	T45-OPS
T50	T50-B		T50-K	T50-OPS
T55	T55-B		T55-K	

Insert Bit Material Specification	
Raw Material	Hardened
Steel S2	60 ±2 HRC

Key Wrench Material Specification	
Raw Material	Hardened
CR-V 6150	50-55 HRC

MAGNETIC SCREWDRIVER

- Sold Individually
- Magnetic 1/4" Hex Drive to fit all standard Insert Bits
- Storage space in handle
- Ergonomic Design



Part Code: SMH



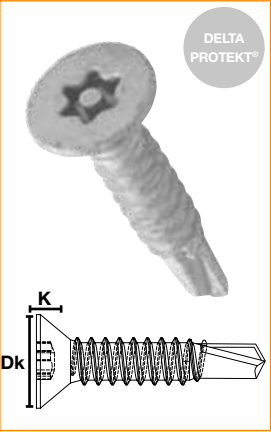
Self Drilling Screws manufactured with a 6-Lobe Pin drive.

Drilling tips provide fast and easy application eliminating the need to pre-drill. Installed and removed using 6-Lobe Pin tooling.

Manufactured in case hardened Delta Protekt® plated steel.

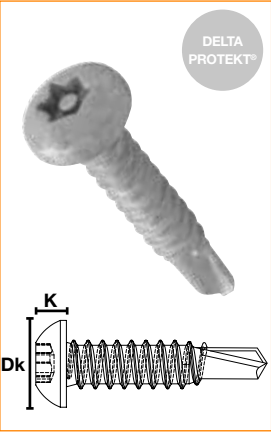
(2) WAY

Security Rating



COUNTERSUNK ■ CASE HARDENED CARBON STEEL									BOX QTY 100
LENGTH DIAMETER		Dk	K	1/2"	3/4"	1"	1 1/2"	2"	DRIVER SIZE
				13mm	19mm	25mm	38mm	50mm	
No. 8	4.2mm	7.9	3.0	RTCD08D-DP	RTCD08F-DP	RTCD08G-DP	RTCD08I-DP		T20
No. 10	4.8mm	9.3	3.2		RTCD10F-DP	RTCD10G-DP	RTCD10I-DP	RTCD10J-DP	T25
No. 12	5.5mm	10.6	3.7			RTCD12G-DP	RTCD12I-DP	RTCD12J-DP	T27

6-Lobe Pin tooling, see page 23



PAN HEAD ■ CASE HARDENED CARBON STEEL									BOX QTY 100
LENGTH DIAMETER		Dk	K	1/2"	3/4"	1"	1½"	2"	DRIVER SIZE
				13mm	19mm	25mm	38mm	50mm	
No. 8	4.2mm	7.9	2.9	RTPD08D-DP	RTPD08F-DP	RTPD08G-DP	RTPD08I-DP		T20
No. 10	4.8mm	9.3	3.4		RTPD10F-DP	RTPD10G-DP	RTPD10I-DP	RTPD10J-DP	T25
No. 12	5.5mm	10.6	3.9			RTPD12G-DP	RTPD12I-DP	RTPD12J-DP	T27

6-Lobe Pin tooling, see page 23

SELF DRILLING SCREWS TECHNICAL INFO (mm)

DIAMETER		No. 8	No. 10	No. 12
HEAD STYLE		4.2mm	4.8mm	5.5mm
POINT SIZE	Diameter	3.4	3.9	4.6
	Length	5.0	6.8	8.5
MATERIAL THICKNESS		1 + 2	2 + 2	2 + 3
		Mild Steel up to (mm)		

All sizes shown are without min and max tolerances and are guide sizes.

MATERIAL AND COATING SPECIFICATION

Material Specification		
Raw Material	Core Hardness	Case Hardness
Steel C1022	320-420 HV	560-670 HV

Our Delta Protekt® coating consists of base layers of Delta Protekt® KL100 with a top coat of Delta Protekt® VH302.

KL100 is an inorganic microlayer using zinc and aluminium flakes as well as special organic compounds providing a metallicly bright silver coating with a high corrosion protection.

The VH302 topcoat is a water based seal of inorganic, silicate and titanium. It provides a barrier protection against chemicals like acids, cleaners, petrol etc and delays the onset of rust. It also includes an integral lubricant to help with reducing application friction when installing.

Neither layers contain heavy metals such as cadmium, chromium or lead etc. and complies with the requirements of the ELV and RoHS directives.

Salt Spray (hrs)		
Composition	White Rust	Red Rust
KL100 8-12µ / VH302 1-3µ	240	840



Barrel Nut

Ensures maximum security when clamping two materials together.

These Barrel Nuts (also known as Interscrews) are internally threaded parts that are ideal for clamping two pieces of material together when used with machine screws. Ideal for: playground equipment, ironmongery and signage to name but a few.

Manufactured in A2 stainless steel.

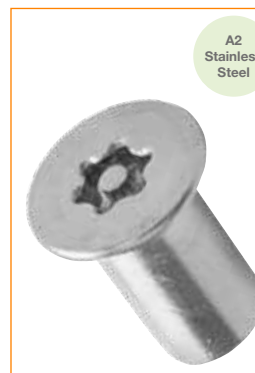
**(2)
WAY**

**Security
Rating**

1



Installation video



A2
Stainless
Steel

COUNTERSUNK HEAD ■ A2 STAINLESS STEEL

BOX QTY 100

LENGTH DIAMETER Thread Pitch	12mm	16mm	20mm	25mm	DRIVER SIZE
M4 x 0.7	RTCBN0412				T20
M5 x 0.8		RTCBN0516			T25
M6 x 1.0		RTCBN0616	RTCBN0620		T30
M8 x 1.25			RTCBN0820		T40
M10 x 1.5				RTCBN1025	T45

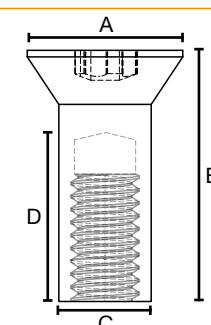


A2
Stainless
Steel

BUTTON HEAD ■ A2 STAINLESS STEEL

BOX QTY 100

LENGTH DIAMETER Thread Pitch	10mm	12mm	16mm	20mm	25mm	30mm	DRIVER SIZE
M4 x 0.7	RTBBN0410						T20
M5 x 0.8	RTBBN0510						T25
M6 x 1.0		RTBBN0612			RTBBN0625		T30
M8 x 1.25			RTBBN0816			RTBBN0830	T40
M10 x 1.5				RTBBN1020			T45
M12 x 1.75					RTBBN1225		T55



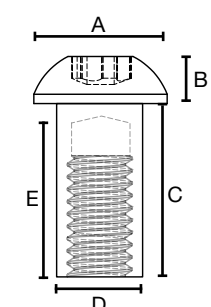
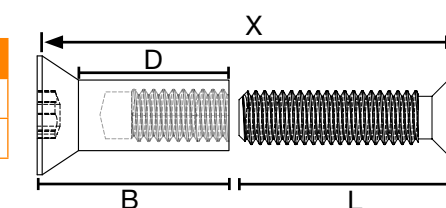
COUNTERSUNK NUTS TECHNICAL INFO (mm)

SIZE	M4	M5	M6	M6	M8	M10
DIMENSION	12mm	16mm	16mm	20mm	20mm	25mm
A	7.8	9.8	11.8	11.8	15.8	19.7
B	12	16	16	20	20	25
C	5.25	6.27	7.9	7.9	9.9	12.45
D	6	6	7	10	10	14

FORMULA FOR CLAMPING DISTANCES

Minimum Clamping Distance = X $B - D + L = X$

Maximum Screw Length = L $X - (B - D - 1) = L$



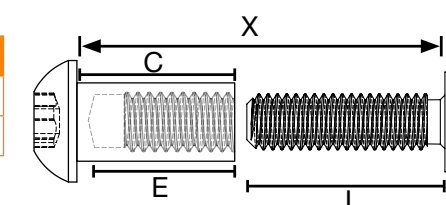
BUTTON HEAD NUTS TECHNICAL INFO (mm)

SIZE	M4	M5	M6	M6	M8	M8	M10	M12
DIMENSION	10mm	10mm	12mm	25mm	16mm	30mm	20mm	25mm
A	9.2	10.2	11.8	11.8	14.6	14.6	18.5	21
B	2.7	3.3	4.4	4.4	5	5	5.8	6.6
C	10	10	12	25	16	30	20	25
D	5.2	6.2	7.9	7.9	9.9	9.9	12.5	16
E	6	6	9	20	12	25	14	20

FORMULA FOR CLAMPING DISTANCES

Minimum Clamping Distance $C - E + L = X$

Maximum Screw Length $X - (C - E) - 1 = L$



IDEAL FOR . . .

- Playground Equipment
- Ironmongery
- Door & Furniture Fixings
- Cabinet Makers
- Signage
- Glass Fixings
- Street Furniture

6-Lobe Pin tooling,
see page 23



5-Lobe Pin

The first complete range of security fasteners available from stock in A4-70 stainless steel. Successor to the Resistox, the 5-Lobe Pin has 5 lobes instead of 6, providing a higher level of security.

Manufactured in A4-70 Stainless Steel

2
WAY

Security Rating
2

5-Lobe Pin



Countersunk Self Tapper



Countersunk Machine Screw



Button Head Self Tapper



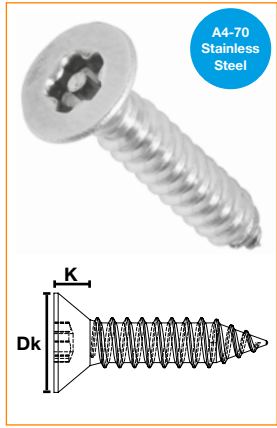
Button Head Machine Screw

stocked sizes & technical data

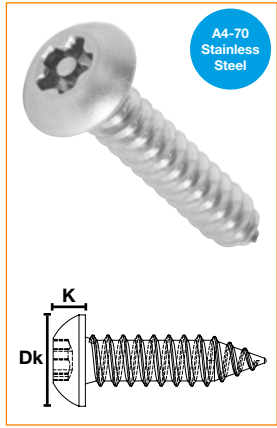




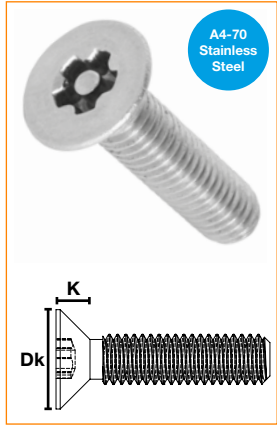
A4-70 Stainless Steel



COUNTERSUNK ■ A4 - 70 STAINLESS STEEL ■ AB TYPE SELF TAPPING SCREWS												BOX QTY 100
LENGTH DIAMETER		Dk	K	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	DRIVER SIZE
				13mm	19mm	25mm	32mm	38mm	50mm	63mm	75mm	
No. 6	3.5mm	6.6	2.1	FLPCS 06D-A4	FLPCS 06F-A4	FLPCS 06G-A4						F15-B
No. 8	4.2mm	7.9	2.5		FLPCS 08F-A4	FLPCS 08G-A4	FLPCS 08H-A4	FLPCS 08I-A4	FLPCS 08J-A4			F20-B
No. 10	4.8mm	9.3	3.0		FLPCS 10F-A4	FLPCS 10G-A4	FLPCS 10H-A4	FLPCS 10I-A4	FLPCS 10J-A4			F25-B
No. 12	5.5mm	10.6	3.4			FLPCS 12G-A4		FLPCS 12I-A4	FLPCS 12J-A4	FLPCS 12K-A4	FLPCS 12L-A4	F27-B



BUTTON HEAD ■ A4 - 70 STAINLESS STEEL ■ AB TYPE SELF TAPPING SCREWS												BOX QTY 100
LENGTH DIAMETER		Dk	K	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	DRIVER SIZE
				13mm	19mm	25mm	32mm	38mm	50mm	63mm	75mm	
No. 6	3.5mm	5.7	2.5	FLPBS 06D-A4	FLPBS 06F-A4	FLPBS 06G-A4						F10-B
No. 8	4.2mm	7.4	2.1		FLPBS 08F-A4	FLPBS 08G-A4	FLPBS 08H-A4	FLPBS 08I-A4	FLPBS 08J-A4			F15-B
No. 10	4.8mm	9.3	2.6		FLPBS 10F-A4	FLPBS 10G-A4	FLPBS 10H-A4	FLPBS 10I-A4	FLPBS 10J-A4			F25-B
No. 12	5.5mm	10.5	3.3			FLPBS 12G-A4		FLPBS 12I-A4	FLPBS 12J-A4	FLPBS 12K-A4	FLPBS 12L-A4	F27-B



COUNTERSUNK ■ A4 - 70 STAINLESS STEEL ■ METRIC MACHINE SCREWS												BOX QTY 100		
DIAMETER Thread Pitch	LENGTH		Dk	K	6mm	8mm	10mm	12mm	16mm	20mm	25mm	30mm	40mm	DRIVER SIZE
M3 x 0.5	5.7	1.7			FLPCM 0306-A4		FLPCM 0310-A4							F10-B
M4 x 0.7	7.8	2.3				FLPCM 0408-A4	FLPCM 0410-A4	FLPCM 0412-A4	FLPCM 0416-A4	FLPCM 0420-A4	FLPCM 0425-A4			F20-B
M5 x 0.8	9.8	2.8				FLPCM 0508-A4	FLPCM 0510-A4	FLPCM 0512-A4	FLPCM 0516-A4	FLPCM 0520-A4	FLPCM 0525-A4	FLPCM 0530-A4	FLPCM 0540-A4	F25-B
M6 x 1.0	11.8	3.3						FLPCM 0612-A4	FLPCM 0616-A4	FLPCM 0620-A4	FLPCM 0625-A4	FLPCM 0630-A4	FLPCM 0640-A4	F30-B
M8 x 1.25	15.8	4.4								FLPCM 0820-A4	FLPCM 0825-A4	FLPCM 0830-A4	FLPCM 0840-A4	F40-B



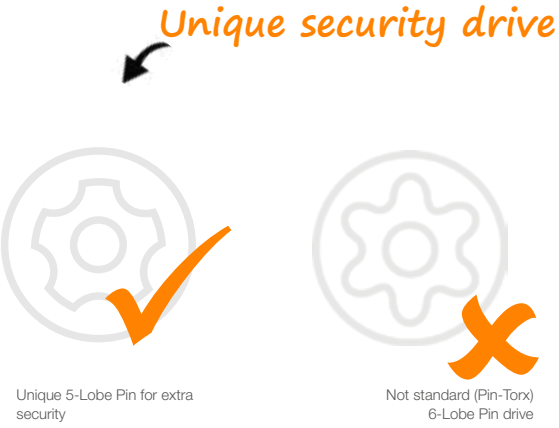
BUTTON HEAD ■ A4 - 70 STAINLESS STEEL ■ METRIC MACHINE SCREWS															BOX QTY 100				
LENGTH	Dk	K	6 mm	8 mm	10 mm	12 mm	16 mm	20 mm	25 mm	30 mm	35 mm	40 mm	50 mm	55 mm	80 mm	100 mm	DRIVER SIZE		
DIAMETER Thread Pitch																			
M3 x 0.5	5.6	1.5	FLPBM 0306-A4			FLPBM 0310-A4											F10-B		
M4 x 0.7	7.4	2.8		FLPBM 0408-A4	FLPBM 0410-A4	FLPBM 0412-A4	FLPBM 0416-A4	FLPBM 0420-A4	FLPBM 0425-A4								F20-B		
M5 x 0.8	9.3	2.6			FLPBM 0510-A4	FLPBM 0512-A4	FLPBM 0516-A4	FLPBM 0520-A4	FLPBM 0525-A4	FLPBM 0530-A4		FLPBM 0540-A4	FLPBM 0550-A4				F25-B		
M6 x 1.0	10.3	3.2			FLPBM 0610-A4	FLPBM 0612-A4	FLPBM 0616-A4	FLPBM 0620-A4	FLPBM 0625-A4	FLPBM 0630-A4		FLPBM 0640-A4	FLPBM 0650-A4				F30-B		
M8 x 1.25	13.8	4.3						FLPBM 0820-A4	FLPBM 0825-A4	FLPBM 0830-A4	FLPBM 0835-A4	FLPBM 0840-A4	FLPBM 0850-A4	FLPBM 0855-A4	FLPBM 0880-A4	FLPBM 08100-A4	F40-B		

5-LOBE PIN TOOLING

- Sold Individually or in bulk packs

SIZE	1/4" Hex Insert Bit (25mm)
F10	F10-B
F15	F15-B
F20	F20-B
F25	F25-B
F27	F27-B
F30	F30-B
F40	F40-B
F45	F45-B

Insert Bit Material Specification	
Raw Material	Hardened
Steel S2	60 ±2 HRC



MAGNETIC SCREWDRIVER

- Sold Individually
- Magnetic 1/4" Hex Drive to fit all standard Insert Bits
- Storage space in handle
- Ergonomic Design



A4 - 70 STAINLESS STEEL OVERVIEW

The designation A4-70 derives from “A” meaning the material is a cold worked austenitic stainless, The “70” denotes the minimum tensile strength to be met by the finished part.

Therefore, A4-70 is an austenitic, acid proof stainless grade (usually 316 material – 316 or 316L) which has been cold worked to provide a minimum tensile strength of 700N/mm² (MPa).

Grade 316 is the standard molybdenum-bearing grade. The molybdenum gives 316 better overall corrosion resistant properties and has resistance to pitting and crevice corrosion in a range of atmospheric environments and chloride and other corrosive media.

With it's excellent corrosion resistance, A4 Stainless is perfect for both internal and external applications, especially marine environments, the food industry and medical/health equipment.



Clutch Head

The original one-way security drive.

The special ridged design of this drive means that it can only operate in a clockwise motion. Installed using standard slotted screwdriver - no specialist tools required.

Manufactured in Steel Zinc & A2 Stainless Steel

1

WAY

Security Rating

4



Clutch Head



Countersunk Self Tapper



Round Head Self Tapper



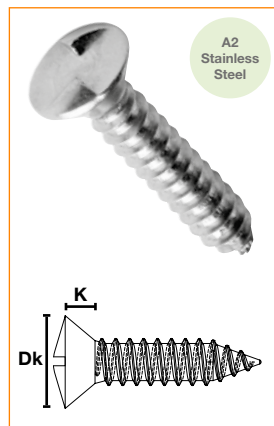
Round Head Machine Screw



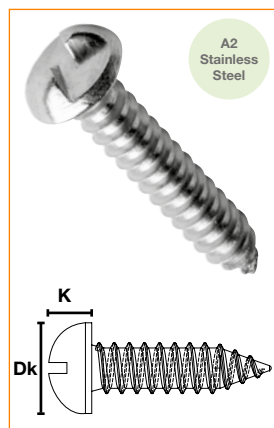
Countersunk Woodscrew

stocked sizes & technical data

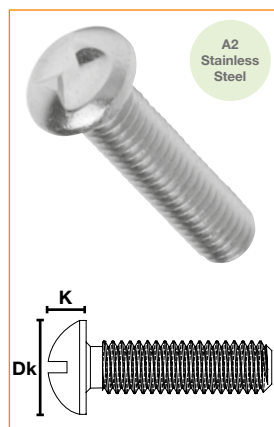




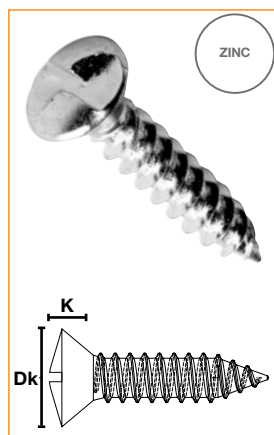
COUNTERSUNK ■ A2 STAINLESS STEEL ■ AB TYPE SELF TAPPING SCREWS											BOX QTY 100
DIAMETER	LENGTH	Dk	K	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	REMOVAL TOOL	
				13mm	19mm	25mm	32mm	38mm	50mm		
No. 6	3.5mm	6.8	3.2		CHCS06F	CHCS06G				RT41	
No. 8	4.2mm	8.1	3.8	CHCS08D	CHCS08F	CHCS08G	CHCS08H	CHCS08I	CHCS08J	RT51	
No. 10	4.8mm	9.4	4.4			CHCS10G	CHCS10H	CHCS10I	CHCS10J	RT51	



ROUND HEAD ■ A2 STAINLESS STEEL ■ AB TYPE SELF TAPPING SCREWS											BOX QTY 100
DIAMETER	LENGTH	Dk	K	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	REMOVAL TOOL	
				13mm	19mm	25mm	32mm	38mm	50mm		
No. 6	3.5mm	6.3	2.6	CHRS06D	CHRS06F	CHRS06G				RT41	
No. 8	4.2mm	7.6	3.1	CHRS08D	CHRS08F	CHRS08G	CHRS08H	CHRS08I	CHRS08J	RT51	
No. 10	4.8mm	8.8	3.5	CHRS10D	CHRS10F	CHRS10G	CHRS10H	CHRS10I	CHRS10J	RT51	
No. 14	6.3mm	11.7	4.5	CHRS14D	CHRS14F	CHRS14G		CHRS14I	CHRS14J	RT61	



ROUND HEAD ■ A2 STAINLESS STEEL ■ METRIC MACHINE SCREWS																BOX QTY 100
DIAMETER	LENGTH	Dk	K	8 mm	10 mm	12 mm	16 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	50 mm	60 mm	
				Thread Pitch												
M3 x 0.5		6.0	2.4											CHRM 0350		
M4 x 0.7		7.4	2.8		CHRM 0408	CHRM 0410	CHRM 0412	CHRM 0416	CHRM 0420	CHRM 0425	CHRM 0430	CHRM 0435	CHRM 0440	CHRM 0445		
M5 x 0.8		9.3	3.2			CHRM 0510	CHRM 0512	CHRM 0516	CHRM 0520	CHRM 0525	CHRM 0530	CHRM 0535	CHRM 0540	CHRM 0545	CHRM 0550	
M6 x 1.0		10.2	3.5				CHRM 0612		CHRM 0620	CHRM 0625	CHRM 0630		CHRM 0640		CHRM 0650	
M8 x 1.25		13.0	4.8				CHRM 0812		CHRM 0820		CHRM 0830		CHRM 0840		CHRM 0850	CHRM 0860



COUNTERSUNK ■ BRIGHT ZINC PLATED ■ TWINTHREAD WOODSCREWS										BOX QTY 200
DIAMETER	LENGTH	Dk	K	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
				19mm	25mm	32mm	38mm	50mm	63mm	75mm
No. 6		7.0	3.5	CHCW06F	CHCW06G					
No. 8		8.3	4.6	CHCW08F	CHCW08G	CHCW08H	CHCW08I	CHCW08J		
No. 10		9.3	5.0		CHCW10G	CHCW10H	CHCW10I	CHCW10J		
No. 12		11.0	5.4				CHCW12I	CHCW12J	CHCW12K	CHCW12L

MATERIAL AND COATING SPECIFICATION

Material Specification		
Raw Material	Core Hardness	Case Hardness
Steel C1018	300-400 HV	600 HV min

Zinc is an electrodeposited lightweight plating that gives a sacrificial protection to underlying substrates (carbon steel). This method lays a thin layer of zinc over the surface meaning the zinc plating would corrode in preference to the substrate and therefore protecting the covered steel product.

Salt Spray (hrs)		
Thickness and Passivation	White Rust	Red Rust
3µ CR3+	24	72

DID YOU KNOW . . .

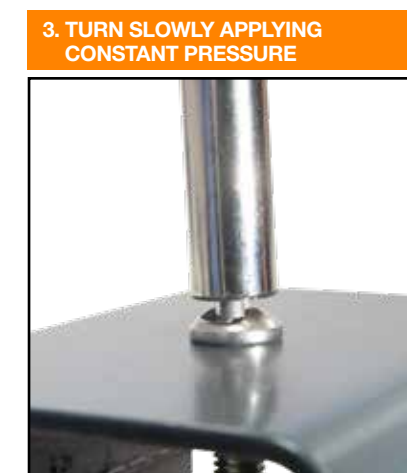
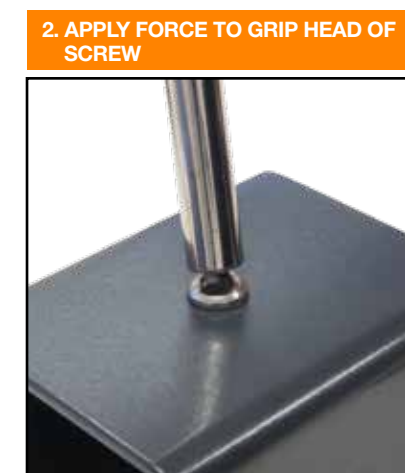
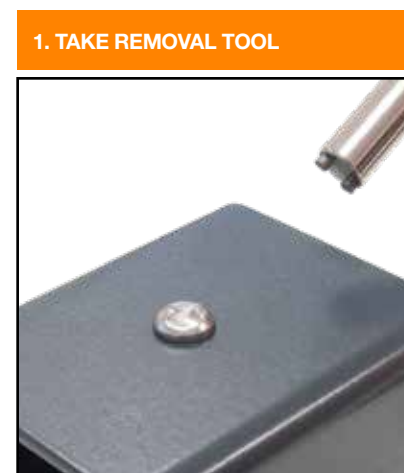
- Clutch Head drive system was probably the world's first security fastener
- Clutch Heads are often used by the police for securing vehicle registration plates



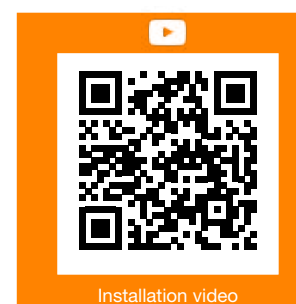
CLUTCH HEAD REMOVABLE TOOL* SOLD INDIVIDUALLY

SIZE DRIVER SIZE	No. 6	No. 8	No. 10	No. 14	M3	M4	M5	M6	M8
	RT41				RT41				
RT51		RT51	RT51			RT51	RT51		
RT61				RT61				RT61	RT61

* Intended for use on Stainless Steel screws only and is not 100% guaranteed to remove



Installed using standard slotted drivers and bits



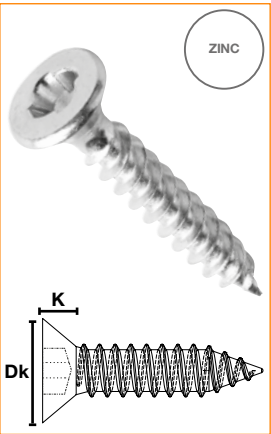
Installation video



Unique one-way pozidrive security system.
This drive system only operates in a clock-wise motion leaving a permanent finish. Ideal for easy and fast application using standard pozi screwdrivers.

Manufactured in Case Hardened Steel Zinc
DESIGN RIGHTS APPLY





COUNTERSUNK ■ BRIGHT ZINC PLATED ■ TWINTHREAD WOODSCREWS											BOX QTY 200
LENGTH DIAMETER		Dk	K	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	DRIVER SIZE
				19mm	25mm	32mm	38mm	50mm	63mm	75mm	
No. 6	3.5mm	6.8	2.5	STCW06F	STCW06G						PZ2
No. 8	4.2mm	8.4	2.8	STCW08F	STCW08G	STCW08H	STCW08I	STCW08J			PZ2
No. 10	4.8mm	9.8	3.5		STCW10G	STCW10H	STCW10I	STCW10J	STCW10K		PZ2
No. 12	5.5mm	11.7	4.2				STCW12I	STCW12J	STCW12K	STCW12L	PZ3

MATERIAL AND COATING SPECIFICATION

Material Specification		
Raw Material	Core Hardness	Case Hardness
Steel C1018	300-400 HV	600 HV min

Zinc is an electrodeposited lightweight plating that gives a sacrificial protection to underlying substrates (carbon steel).
This method lays a thin layer of zinc over the surface meaning the zinc plating would corrode in preference to the substrate protecting the covered steel product.

Salt Spray (hrs)		
Thickness and Passivation	White Rust	Red Rust
3µ CR3+	24	72

DID YOU KNOW . . .

- This pozidrive system is easier and more effective to use than the slotted Clutch Head drive system
- Mr B of Liverpool secured his second thatched roof bird box to his tree using Sentinel® Woodscrews as he had his first one stolen



Installed using
standard pozi
drivers and bits



Installation video



Thread forming screws manufactured with a 'unique' 6-Lobe Pin drive. Thread forming screws are sometimes known as 'Self threading'. They feature a tri-lobular threaded body that has a triangular cross-section rather than a circular one. The tri-lobular thread eliminates the need for nuts and pre-tapped holes, reducing labour costs and installation time.

Manufactured in case hardened Geomet® 500B coated steel.

Very popular in the fencing industry.



Security Rating






























































































































































































































































































































































Tri-Head

Widely used vandal deterrent fixing.

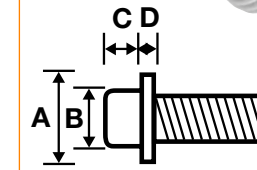
This quick and easy to install security fastener is a favourite for applications in recess or channel due to its tall head design.

Manufactured in A2 stainless steel.

Commonly used in street lighting.



Security
Rating



TRI-HEAD SCREWS

TRI-HEAD ■ A2 STAINLESS STEEL ■ METRIC MACHINE SCREWS

BOX QTY 100

LENGTH	20mm	30mm	40mm	50mm	DRIVER SIZE
DIAMETER Thread Pitch					
M8 x 1.25	TRIM0820	TRIM0830	TRIM0840	TRIM0850	TRI-8

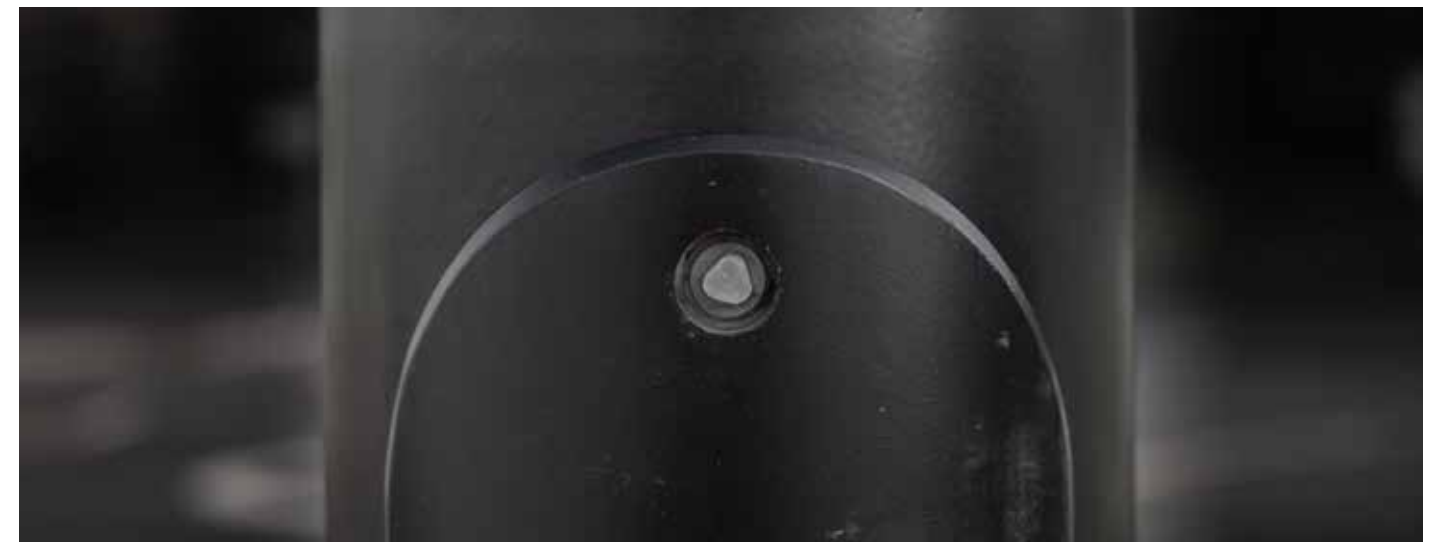
TRI-HEAD DIMENSIONS (mm)

A	B	C	D
13.7	8.5	6.5	1.5

TRI-HEAD KEY WRENCH

SOLD INDIVIDUALLY

TO SUIT	M8 Tri-Head Bolts
DRIVER SIZE	
TRI-8	TRI-8K



commonly used in
channel and recessed
applications



Installation video

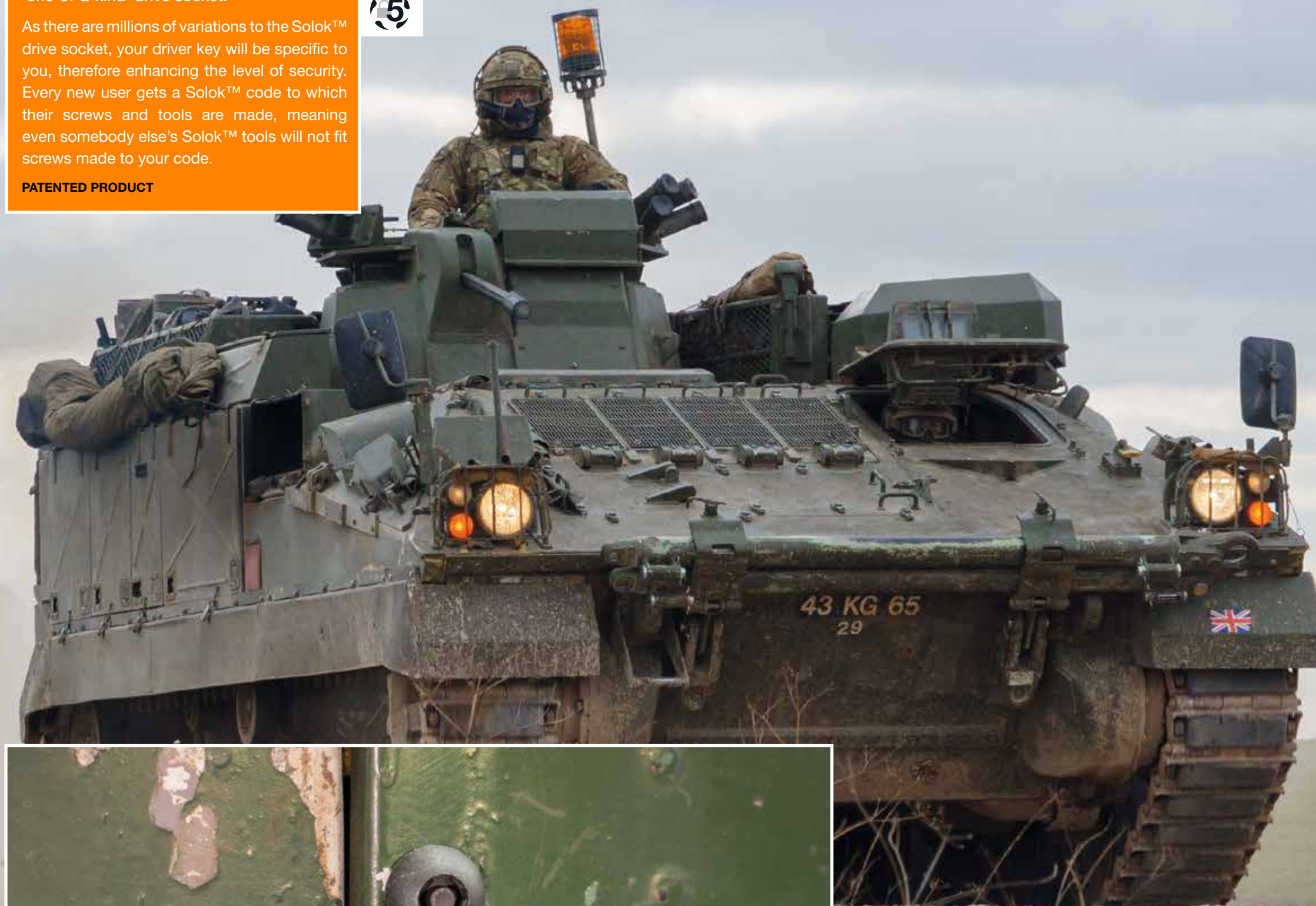




This security drive ensures that each and every customer has their own unique 'one-of-a-kind' drive socket.

As there are millions of variations to the Solok™ drive socket, your driver key will be specific to you, therefore enhancing the level of security. Every new user gets a Solok™ code to which their screws and tools are made, meaning even somebody else's Solok™ tools will not fit screws made to your code.

PATENTED PRODUCT



Countersunk
Self Tapper



Countersunk
Machine Screw



Button Head
Self Tapper



Button Head
Machine Screw

bespoke, unique, made to order





SOLOK™ EXCLUSIVE ONE-OF-A-KIND SECURITY DRIVE



Solok™ security screws are manufactured to order with a unique exclusive drive specifically for you and your client. Level 5 security, Solok™ is designed to give 'maximum security'.

Unique like a fingerprint, there are over a billion possible Solok™ drive configurations. Solok™ fasteners cannot be removed without a perfectly engineered-to-match security driver tool.

You or your client own the exclusive key code, meaning nobody else can have access to your design giving you total control.

MINIMUM ORDER QTY



FROM
2,500 PCS*

LEAD TIMES



6-8 WEEKS**

MAXIMUM SECURITY



LEVEL 5



SOLOK™ Exclusive design fasteners



Unique drive
recess to you or
your client...

HEAD STYLES

Button



Countersunk



Pan



Cap



Raised Countersunk



THREAD STYLES

Machine
Screw



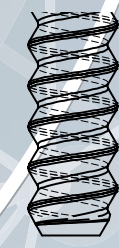
Self Tapping
Screw



Self Drilling
Screw



Concrete
Screw



Grub
Screw



IDEAL FOR . . .

High security areas such as:

- Works of Art
- Sculptures
- Prison Security
- ATM/Cash Machines
- Patent Protection
- MoD (Ministry of Defence)
- IT Equipment
- Communications Infrastructure



Installation video

* MOQ varies by screw diameter. Maximum MOQ = 2,500pcs

** Subject to availability of material, tooling etc.



The Nogo™ is a 2-part enclosure offering the highest security for any nut or bolt. This patented product doesn't require any specialist tools; you simply hammer the cap into the base making access to the enclosed nut or bolt near impossible.

Manufactured in Case Hardened Steel Zinc
PATENTED PRODUCT



Installation video

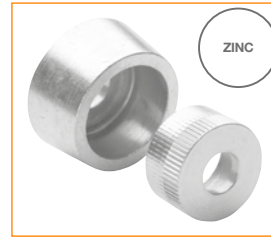


TYPE 1 ■ ZINC PLATED

SOLD INDIVIDUALLY - INC. CAP AND BASE

SIZE	M6	M8	M10	M12
STOCK	NG06T1	NG08T1	NG10T1	NG12T1

TYPE 1: For bolts and screws

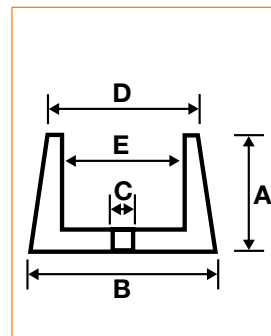


TYPE 2 ■ ZINC PLATED

SOLD INDIVIDUALLY - INC. CAP AND BASE

SIZE	M6	M8	M10	M12
STOCK	NG06T2	NG08T2	NG10T2	NG12T2

TYPE 2: For nuts and protruding studs



NOGO™ TECHNICAL INFO

SIZE	MEASUREMENTS (mm)				
	A	B	C	D	E
M6	13.0	22.0	6.4	20.0	15.0
M8	14.0	28.4	8.4	26.0	20.0
M10	18.0	31.8	10.4	30.0	25.3
M12	20.0	35.8	12.4	32.0	26.5

IDEAL FOR ...

High security areas such as:

- Window Grilles and Shutters
- Gates and Barriers
- Parking Meters
- Facades
- Heavy Duty Applications

INSTALLATION GUIDE



TYPE 1 - FIX BOLT/SCREW THROUGH BASE



TYPE 1 - HAMMER HOME CAP FOR THE MOST SECURE FASTENING



TYPE 2 - FIX STUD THROUGH CUP AND FASTEN NUT



TYPE 2 - HAMMER HOME CAP FOR THE MOST SECURE FASTENING

MATERIAL AND COATING SPECIFICATION

Material Specification	
Raw Material	Case Hardness
Steel EN1A L	700-800 HV

Zinc is an electrodeposited lightweight plating that gives a sacrificial protection to underlying substrates (carbon steel).

This method lays a thin layer of zinc over the surface meaning the zinc plating would corrode in preference to the substrate and therefore protecting the covered steel product.

Salt Spray (hrs)		
Thickness and Passivation	White Rust	Red Rust
5µ Trivalent Clear	6	24



The only security fastener to win
Sold Secure Silver Award



Kinmar® Permanent

The ultimate high security patented one-way security nut.

This patented permanent nut requires a matching driver socket for installation giving you guaranteed torque levels and can be re-torqued if required. Not governed by a shear point and leaving no unplated surfaces, it leaves a clean smart finish.

Manufactured in a range of Stainless Steel and coated / hardened steels.

PATENTED PRODUCT

**1
WAY**

**Security
Rating**

5

Kinmar® Permanent



Case Hardened Steel
Zinc Plated
Kinmar® Permanent Nut



A2 Stainless Steel
Kinmar® Permanent Nut



Case Hardened Steel
Geomet® 500B
Kinmar® Permanent Nut



Case Hardened Steel
Geomet® 500B
Kinmar® Permanent Bolt



Case Hardened Steel
Zinc Plated
Kinmar® Permanent Bolt

stocked sizes & technical data →



*Great alternative
to the Shear Nut*





A2 STAINLESS STEEL ■ KINMAR® PERMANENT NUT						BOX QTY 100
SIZE	M5	M6	M8	M10	M12	
MATERIAL						
A2 STAINLESS	KMPN05-S	KMPN06-S	KMPN08-S	KMPN10-S	KMPN12-S	
DRIVER SIZE	KM06P	KM06P	KM08P	KM10P	KM12P	



CASE HARDENED STEEL ■ BRIGHT ZINC PLATED ■ KINMAR® PERMANENT NUT						BOX QTY 100
SIZE	M5	M6	M8	M10	M12	
MATERIAL						
STEEL ZINC	KMPN05-Z	KMPN06-Z	KMPN08-Z	KMPN10-Z	KMPN12-Z	
DRIVER SIZE	KM06P	KM06P	KM08P	KM10P	KM12P	

Zinc is an electrodeposited lightweight plating that gives a sacrificial protection to underlying substrates (carbon steel). This method lays a thin layer of zinc over the surface meaning the zinc plating would corrode in preference to the substrate and therefore protecting the covered steel product.

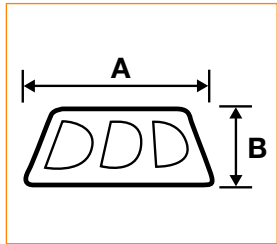
Salt Spray (hrs)		
Thickness and Passivation	White Rust	Red Rust
8µ Trivalent Clear	6	48



CASE HARDENED STEEL ■ GEOMET® 500B COATED ■ KINMAR® PERMANENT NUT				BOX QTY 100
SIZE	M8	M10	M12	
MATERIAL				
STEEL GEOMET®	KMPN08-GEO	KMPN10-GEO	KMPN12-GEO	
DRIVER SIZE	KM08P	KM10P	KM12P	

Geomet® 500 is formulated with an aqueous base and is composed of Zinc and Aluminium flakes in an inorganic binder. It is chromium free. It gives protection to metallic surfaces with: barrier protection, galvanic action and passivation. Geomet® 500 was developed specifically with integral lubricant for coating fasteners, to assist in giving consistent tightening performance.

Salt Spray (hrs)	
White Rust	Red Rust
240	1000



KINMAR® PERMANENT DIMENSIONS (mm)						
SIZE	M5	M6	M8	M10	M12	
DIMENSIONS						
A	12.1	12.1	16.1	20.1	24.2	
B	5.6	5.6	7.3	9.2	10.6	



Installation video



CASE HARDENED STEEL ■ BRIGHT ZINC PLATED ■ KINMAR® PERMANENT BOLT				BOX QTY 100
LENGTH	25mm	40mm	DRIVER SIZE	
DIAMETER Thread Pitch				
M8 x 1.25	KMPM0825-Z	KMPM0840-Z	KM08P	

Zinc is an electrodeposited lightweight plating that gives a sacrificial protection to underlying substrates (carbon steel). This method lays a thin layer of zinc over the surface meaning the zinc plating would corrode in preference to the substrate and therefore protecting the covered steel product.

Salt Spray (hrs)		
Thickness and Passivation	White Rust	Red Rust
8µ Trivalent Clear	6	48



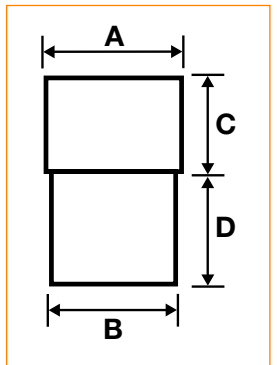
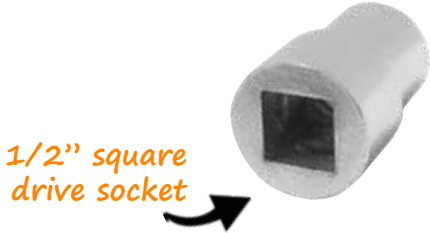
CASE HARDENED STEEL ■ GEOMET® 500B COATED ■ KINMAR® PERMANENT BOLT				BOX QTY 100
LENGTH	25mm	40mm	DRIVER SIZE	
DIAMETER Thread Pitch				
M8 x 1.25	KMPM0825-GEO	KMPM0840-GEO	KM08P	

Geomet® 500 is formulated with an aqueous base and is composed of Zinc and Aluminium flakes in an inorganic binder. It is chromium free. It gives protection to metallic surfaces with: barrier protection, galvanic action and passivation. Geomet® 500 was developed specifically with integral lubricant for coating fasteners, to assist in giving consistent tightening performance.

Salt Spray (hrs)	
White Rust	Red Rust
240	1000



KINMAR® DRIVER SOCKET						SOLD INDIVIDUALLY
TO SUIT	M5	M6	M8	M10	M12	
DRIVER SIZE						
KM06P	KM06P	KM06P				
KM08P			KM08P			
KM10P				KM10P		
KM12P					KM12P	



KINMAR® DRIVER SOCKET DIMENSIONS (mm)				
DIMENSIONS	A	B	C	D
DRIVER SIZE				
KM06P	25.1	15.8	19.9	16.0
KM08P	25.1	20.1	16.1	19.9
KM10P	30.0	26.2	17.2	24.8
KM12P	30.0	30.0	42.0 Combined	

DID YOU KNOW . . .

- The Kinmar® Permanent Nut is one of the most versatile one-way security nuts on the market
- The Kinmar® Permanent Nut is a superior product to the Shear Nut
- The Kinmar® driver sockets are robust heavy duty tools ensuring consistent results

Kinmar® Removable

Unique Hafren segment shaped nut. The ultimate two-way patented security nut – extra resilient to attack.

This patented removable nut requires a matching driver socket for installation and removal. This cost effective nut has a smooth aesthetically pleasing design which makes it an extremely versatile nut.

Manufactured in a range of Stainless Steel and coated / hardened steels.

PATENTED PRODUCT

(2)
WAY

Security
Rating

4

Kinmar® Removable



Case Hardened Steel
Zinc Plated
Kinmar® Removable Nut



A2 Stainless Steel
Kinmar® Removable Nut



Case Hardened Steel
Geomet® 500B
Kinmar® Removable Nut



Case Hardened Steel
Geomet® 500B
Kinmar® Removable Bolt



Case Hardened Steel
Zinc Plated
Kinmar® Removable Bolt

stocked sizes & technical data →



53





A2 STAINLESS STEEL ■ KINMAR® REMOVABLE NUT						BOX QTY 100
SIZE	M5	M6	M8	M10	M12	
MATERIAL						
A2 STAINLESS	KMRN05-S	KMRN06-S	KMRN08-S	KMRN10-S	KMRN12-S	
DRIVER SIZE	KM06R	KM06R	KM08R	KM10R	KM12R	



CASE HARDENED STEEL ■ BRIGHT ZINC PLATED ■ KINMAR® REMOVABLE NUT						BOX QTY 100
SIZE	M5	M6	M8	M10	M12	
MATERIAL						
BZP STEEL	KMRN05-Z	KMRN06-Z	KMRN08-Z	KMRN10-Z	KMRN12-Z	
DRIVER SIZE	KM06R	KM06R	KM08R	KM10R	KM12R	

Zinc is an electrodeposited lightweight plating that gives a sacrificial protection to underlying substrates (carbon steel).
This method lays a thin layer of zinc over the surface meaning the zinc plating would corrode in preference to the substrate and therefore protecting the covered steel product.

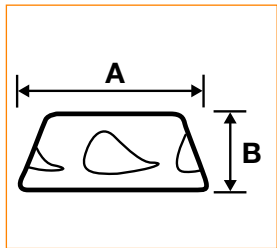
Salt Spray (hrs)		
Thickness and Passivation	White Rust	Red Rust
8µ Trivalent Clear	6	48



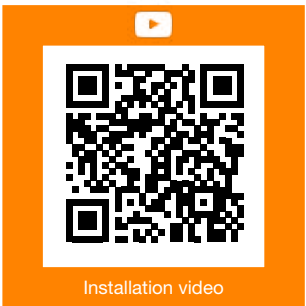
CASE HARDENED STEEL ■ GEOMET® 500B COATED ■ KINMAR® REMOVABLE NUT					BOX QTY 100
SIZE	M6	M8	M10	M12	
MATERIAL					
GEOMET®	KMRN06-GEO	KMRN08-GEO	KMRN10-GEO	KMRN12-GEO	
DRIVER SIZE	KM06R	KM08R	KM10R	KM12R	

Geomet® 500 is formulated with an aqueous base and is composed of Zinc and Aluminium flakes in an inorganic binder. It is chromium free.
It gives protection to metallic surfaces with: barrier protection, galvanic action and passivation. Geomet® 500 was developed specifically with integral lubricant for coating fasteners, to assist in giving consistent tightening performance.

Salt Spray (hrs)	
White Rust	Red Rust
240	1000



KINMAR® REMOVABLE DIMENSIONS (mm)					
SIZE	M5	M6	M8	M10	M12
DIMENSIONS					
A	12.1	12.1	16.1	20.1	24.2
B	5.8	5.8	7.3	9.2	10.6



Installation video



CASE HARDENED STEEL ■ BRIGHT ZINC PLATED ■ KINMAR® REMOVABLE BOLT				BOX QTY 100
LENGTH	25mm	40mm	DRIVER SIZE	
DIAMETER Thread Pitch				
M8 x 1.25	KMRM0825-Z	KMRM0840-Z	KM08R	

Zinc is an electrodeposited lightweight plating that gives a sacrificial protection to underlying substrates (carbon steel).
This method lays a thin layer of zinc over the surface meaning the zinc plating would corrode in preference to the substrate and therefore protecting the covered steel product.

Salt Spray (hrs)		
Thickness and Passivation	White Rust	Red Rust
8µ Trivalent Clear	6	48



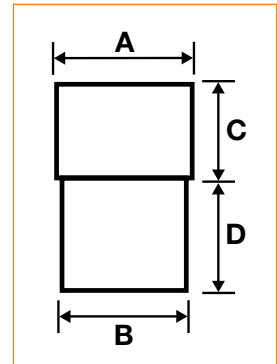
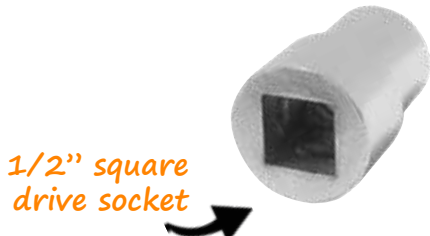
CASE HARDENED STEEL ■ GEOMET® 500B COATED ■ KINMAR® REMOVABLE BOLT				BOX QTY 100
LENGTH	25mm	40mm	DRIVER SIZE	
DIAMETER Thread Pitch				
M8 x 1.25	KMRM0825-GEO	KMRM0840-GEO	KM08R	

Geomet® 500 is formulated with an aqueous base and is composed of Zinc and Aluminium flakes in an inorganic binder. It is chromium free.
It gives protection to metallic surfaces with: barrier protection, galvanic action and passivation. Geomet® 500 was developed specifically with integral lubricant for coating fasteners, to assist in giving consistent tightening performance.

Salt Spray (hrs)	
White Rust	Red Rust
240	1000



KINMAR® DRIVER SOCKET						SOLD INDIVIDUALLY
TO SUIT	M5	M6	M8	M10	M12	
DRIVER SIZE						
KM06R	KM06R	KM06R				
KM08R			KM08R			
KM10R				KM10R		
KM12R					KM12R	



KINMAR® DRIVER SOCKET DIMENSIONS (mm)				
DIMENSIONS	A	B	C	D
DRIVER SIZE				
KM06R	25.1	15.8	19.9	16.0
KM08R	25.1	20.1	16.1	19.9
KM10R	30.0	26.2	17.2	24.8
KM12R	30.0	30.0	42.0 Combined	

DID YOU KNOW ...

■ The Hafren logo is derived from the unique shaped segments of the Kinmar® Removable Nut



Armour Ring™

A simple conical collar which renders a standard hexagon nut or bolt tamper resistant.

The Armour Ring™ can be applied to any British or DIN standard hexagon nuts or bolts using a standard hammer or Armour Ring™ installation tool. It leaves a smooth clean finish which is often favoured by Health & Safety executives and isn't governed by a torque level like some one-way fasteners.

Manufactured in stainless steel and hardended steel zinc

PATENTED PRODUCT

1
WAY

Security
Rating
4



BRIGHT ZINC PLATED ■ ARMOUR RING™

BOX QTY 100

SIZE	M6	M8	M10	M12	M16
STOCK	AR06-Z	AR08-Z	AR10-Z	AR12-Z	AR16-Z

Zinc is an electrodeposited lightweight plating that gives a sacrificial protection to underlying substrates (carbon steel).

This method lays a thin layer of zinc over the surface meaning the zinc plating would corrode in preference to the substrate and therefore protecting the covered steel product.

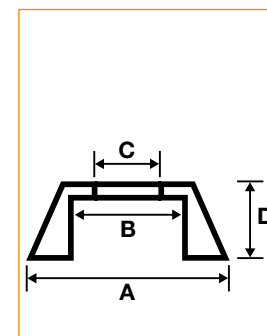
Salt Spray (hrs)		
Thickness and Passivation	White Rust	Red Rust
10µ Trivalent Clear	6	48



STAINLESS STEEL ■ ARMOUR RING™

BOX QTY 100

SIZE	M6	M8	M10	M12	M16	M20
STOCK	AR06-S	AR08-S	AR10-S	AR12-S	AR16-S	AR20-S



ARMOUR RING™ DIMENSIONS (mm)

SIZE	M6	M8	M10	M12	M16	M20
DIMENSIONS						
A	15.8	20.0	26.6	33.0	41.2	51.0
B	10.9	14.2	18.6	20.8	26.7	33.5
C	7.2	10.5	12.0	13.5	17.3	20.0
D	6.8	7.7	9.8	12.3	16.0	19.0

DID YOU KNOW . . .

- Armour Ring™ is the most cost effective way of securing an existing fastener
- Armour Ring™ is specified by Health and Safety Executives because it leaves a smooth finish and covers any sharp edges on a bolt head
- Has been Home Office approved

INSTALLATION GUIDE

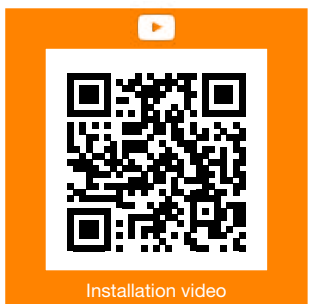
1. Place Armour Ring™ over existing hexagon nut/bolt

2. Hammer down to secure.

3. Tamper resistant with no sharp edges



perfect for securing existing applications (no need to remove and replace fasteners)



Installation video



The Shear System is a high security permanent fastener.

The Shear Nut has a hexagon part which shears off at a predetermined torque. Installed using standard hex socket or spanner. Once installed, the Shear Nut leaves a tamper resistant cone.

Manufactured in a range of stainless steels and galvanised / zinc coated steels.



Security Rating





Shear Nuts



A2 Stainless Steel



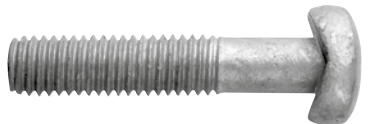
A4 Stainless Steel



Hot Dipped Galvanised



Bright Zinc Plated



Galvanised Saddle Bolt

stocked sizes & technical data





A2 STAINLESS STEEL									BOX QTY 100
SIZE		M4	M5	M6	M8	M10	M12	M16	M20
STOCK		SHN04-S	SHN05-S	SHN06-S	SHN08-S	SHN10-S	SHN12-S	SHN16-S	SHN20-S
SHEAR TORQUE	lb/ft	3.6-6.6	5-8.8	5-10	10-15	23-28	38-44	54-60	72-82
	nm	5-9	7-12	7-14	14-28	40-56	55-70	74-90	100-136



A4 STAINLESS STEEL						BOX QTY 100
SIZE		M6	M8	M10	M12	M16
STOCK		SHN06-A4	SHN08-A4	SHN10-A4	SHN12-A4	SHN16-A4
SHEAR TORQUE	lb/ft	5-10	10-15	23-28	38-44	54-60
	nm	7-14	14-28	40-56	55-70	74-90



BRIGHT ZINC PLATED								BOX QTY 100
SIZE		M6	M8	M10	M12	M16	M20	M24
STOCK		SHN06-Z	SHN08-Z	SHN10-Z	SHN12-Z	SHN16-Z	SHN20-Z	SHN24-Z
SHEAR TORQUE	lb/ft	5-9	10-15	23-28	38-44	54-60	72-82	265-310
	nm	7-14	14-28	34-48	45-62	74-90	100-140	360-420

Zinc is an electrodeposited lightweight plating that gives a sacrificial protection to underlying substrates (carbon steel). This method lays a thin layer of zinc over the surface meaning the zinc plating would corrode in preference to the substrate and therefore protecting the covered steel product.

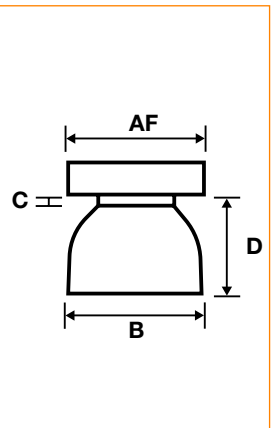
Salt Spray (hrs)		
Thickness and Passivation	White Rust	Red Rust
5µ Trivalent Clear	6	48



GALVANISED MILD STEEL							BOX QTY 100
SIZE		M8	M10	M12	M16	M20	M24
STOCK		SHN08-G	SHN10-G	SHN12-G	SHN16-G	SHN20-G	SHN24-G
SHEAR TORQUE	lb/ft	10-15	23-28	38-44	54-60	72-82	265-310
	nm	14-28	34-48	45-62	80-95	100-140	360-420

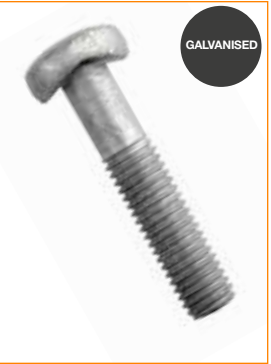
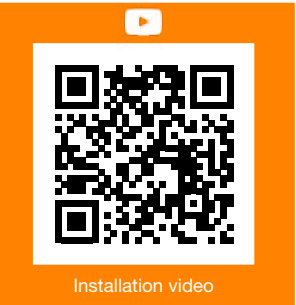
Hot dip galvanizing is the process of coating iron or steel with a layer of zinc by immersing the metal in a bath of molten zinc. During the process, a metallurgically bonded coating is formed which protects the steel from harsh environments, whether they be external or internal.

Specification	
Thickness	Outdoor Protection
70 - 215µ	25-75 years is approx. variation depends on environment



SHEAR NUT DIMENSIONS (mm)												
FINISH	BRIGHT ZINC PLATED				A2/A4 STAINLESS STEEL				GALVANISED			
DIMENSIONS	AF	B	C	D	AF	B	C	D	AF	B	C	D
M4	N/A	N/A	N/A	N/A	7.0	7.0	N/A	6.0	N/A	N/A	N/A	N/A
M5	N/A	N/A	N/A	N/A	10.0	10.0	N/A	6.0	N/A	N/A	N/A	N/A
M6	14.0	13.9	0.5	7.2	10.0	10.0	N/A	6.0	N/A	N/A	N/A	N/A
M8	16.0	15.8	0.5	7.6	13.0	13.0	N/A	7.0	17.0	16.8	N/A	7.2
M10	19.0	18.9	1.0	8.8	17.0	17.0	N/A	9.0	19.0	18.9	N/A	9.2
M12	22.0	21.9	1.0	9.9	19.0	19.0	N/A	10.0	22.0	21.9	N/A	9.2
M16	24.0	23.8	1.5	11.5	24.0	24.0	N/A	14.0	24.0	23.8	N/A	11.5
M20	32.0	31.8	2.8	19.0	30.0	30.0	N/A	18.0	32.0	31.8	2.9	18.8
M24	36.0	35.5	3.5	24.0	N/A	N/A	N/A	N/A	36.0	35.8	3.3	24.0

* PLEASE NOTE: If dimensions are critical to your application please ring to check current stock as they can vary between batches



GALVANISED SADDLE BOLTS		BOX QTY 100
LENGTH	40mm	▪ Suitable for most types of palisade fencing. ▪ Commonly used with galvanised shear nuts (left) or Geomet® Kinmar® Permanent Nuts (see page 50).
DIAMETER Thread Pitch		
M8 x 1.25	SB0840-G	

for galvanised specs see shear nut page 60



Shear Bolts

The Shear System is a high security permanent fastener.

The Shear Bolt has a hexagon part which shears off at a predetermined torque. Installed using standard hex socket or spanner. Once installed, the Shear Bolt leaves a plain tamper resistant button head.

Manufactured in A2 Stainless Steel



BUTTON HEAD ■ A2 STAINLESS STEEL												BOX QTY 50	
LENGTH	A/F	Dk	K	16mm	20mm	25mm	30mm	40mm	50mm	60mm	80mm	SHEAR TORQUE	
DIAMETER Thread Pitch												lb/ft	nm
M6 x 1.0	10mm	9.5	3.5	SBBH 0616-S		SBBH 0625-S		SBBH 0640-S	SBBH 0650-S			5-9	7-14
M8 x 1.25	14mm	13.5	4.5	SBBH 0816-S	SBBH 0820-S	SBBH 0825-S	SBBH 0830-S	SBBH 0840-S		SBBH 0860-S	SBBH 0880-S	10-15	14-20
M10 x 1.5	17mm	16.5	5.5			SBBH 1025-S			SBBH 1050-S			23-28	31-38
M12 x 1.75	19mm	18.5	6.5			SBBH 1225-S				SBBH 1260-S		38-44	52-60

DID YOU KNOW . . .

“A leading supermarket chain was having problems with skateboarders stealing the shopping trolley wheel bearings. Being top quality bearings that fit most skateboard wheels these proved rather popular with the youths in town. 4 Shear Bolts later - no further thefts.”



1. Insert Shear Bolt into application



2. Tighten using standard socket or spanner



3. Hex part shears off at set torque level to leave a smooth permanent finish



Installation video



High security removable nut with a unique 'Scroll' drive.

The rounded design of this nut gives reduced sharp angles to provide grip for normal hand tools. It can only be installed and removed using the matching Scroll™ driver socket. Patented Scroll™ design is interesting and pleasing to the eye.

Manufactured in 303 Stainless Steel

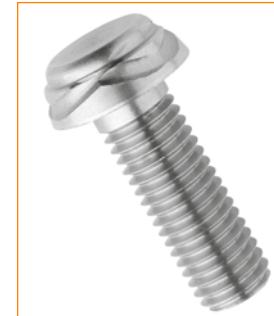
PATENTED PRODUCT



303 S31 STAINLESS STEEL

BOX QTY 50

SIZE	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24	M30
CODE	SCN03	SCN04	SCN05	SCN06	SCN08	SCN10	SCN12	SCN16	SCN20	SCN24	SCN30
DRIVER SIZE	SC034	SC034	SC05	SC06	SC08	SC10	SC12	SC16	SC20	SC24	SC30
DIMENSION A	3.2	3.2	4.2	5.5	6.4	7.2	8.7	11.0	12.8	14.2	19.0
DIMENSION B	7.9	7.9	9.5	12.7	15.7	19.0	22.2	28.5	34.9	38.0	44.0



SCROLL™ BOLTS - AVAILABLE TO ORDER ONLY

- Scroll™ Bolts manufactured to order.
- Scroll™ Bolt heads have the same dimensions as the Scroll™ Nuts.
- Please contact us with the quantity, size and material you require.

DID YOU KNOW . . .

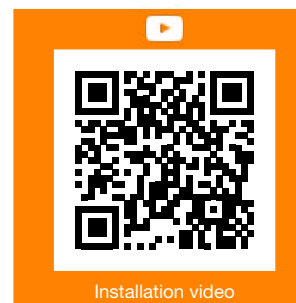
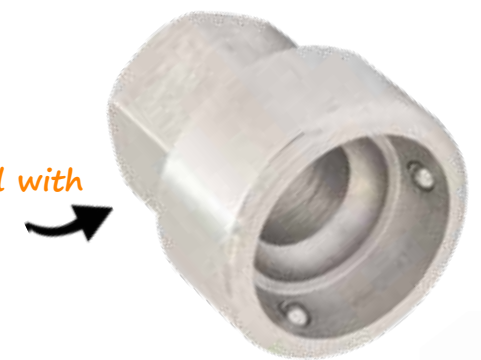
- The Scroll™ range has the smallest security nut available on the market at M3
- It also has the largest stocked size at a massive M30



SCROLL™ DRIVER TOOL

- Scroll™ Driver tools are suitable for low to medium torque applications.
- If driver tool dimensions are important to your application please ring and check current stock as they vary between batches.

driver tool can be used with socket or spanner



Installation video



Anchors

Expanding fixings giving fast and easy application for heavy duty security.

Security Anchors save time and money when fixing applications that require a firm hold. They are suitable for fixing to a wide range of base materials such as: brick, concrete, stone and masonry. Available in both permanent and removable options... for a hold that stays.

Manufactured in A2 stainless steel and zinc coated steel.

Anchors



Countersunk
A2 6-Lobe Pin
Sleeve Anchor



Button Head
A2 6-Lobe Pin
Sleeve Anchor



Kinmar® Removable
Steel Zinc Plated
Sleeve Anchor



Kinmar® Permanent
Steel Zinc Plated
Sleeve Anchor

stocked sizes & technical data





BRIGHT ZINC PLATED ■ KINMAR® PERMANENT								
BOX QTY 50								
TECHNICAL SIZE	PART CODE	DRILL HOLE DIAMETER (mm)	MAXIMUM FIXTURE THICKNESS (mm)	MINIMUM HOLE DEPTH* (mm)	RECOMMENDED TIGHTENING TORQUE (nm)	SAFE STATIC LOADS FOR 5.8 THREADED STUD (kn)		DRIVER SIZE
						TENSION	SHEAR	
M6 x 45mm	KMPSA0645	8	6	37	7	1.1	2.0	KM06P
M8 x 50mm	KMPSA0850	10	6	45	15	1.9	6.5	KM08P
M8 x 60mm	KMPSA0860	10	16	45	15	1.9	6.5	KM08P
M8 x 70mm	KMPSA0870	10	25	45	15	1.9	6.5	KM08P
M8 x 90mm	KMPSA0890	10	45	45	15	1.9	6.5	KM08P
M10 x 60mm	KMPSA1060	12	8	52	31	3.0	8.5	KM10P
M10 x 70mm	KMPSA1070	12	18	52	31	3.0	8.5	KM10P
M10 x 80mm	KMPSA1080	12	25	52	31	3.0	8.5	KM10P
M10 x 95mm	KMPSA1095	12	45	52	31	3.0	8.5	KM10P

* Minimum hole depth is for maximum fixture thickness. For thinner fixtures increase the hole depth accordingly.



BRIGHT ZINC PLATED ■ KINMAR® REMOVABLE								
BOX QTY 50								
TECHNICAL SIZE	PART CODE	DRILL HOLE DIAMETER (mm)	MAXIMUM FIXTURE THICKNESS (mm)	MINIMUM HOLE DEPTH* (mm)	RECOMMENDED TIGHTENING TORQUE (nm)	SAFE STATIC LOADS FOR 5.8 THREADED STUD (kn)		DRIVER SIZE
						TENSION	SHEAR	
M6 x 45mm	KMRSA0645	8	6	37	7	1.1	2.0	KM06R
M8 x 50mm	KMRSA0850	10	6	45	15	1.9	6.5	KM08R
M8 x 60mm	KMRSA0860	10	16	45	15	1.9	6.5	KM08R
M8 x 70mm	KMRSA0870	10	25	45	15	1.9	6.5	KM08R
M8 x 90mm	KMRSA0890	10	45	45	15	1.9	6.5	KM08R
M10 x 60mm	KMRSA1060	12	8	52	31	3.0	8.5	KM10R
M10 x 70mm	KMRSA1070	12	18	52	31	3.0	8.5	KM10R
M10 x 80mm	KMRSA1080	12	25	52	31	3.0	8.5	KM10R
M10 x 95mm	KMRSA1095	12	45	52	31	3.0	8.5	KM10R

* Minimum hole depth is for maximum fixture thickness. For thinner fixtures increase the hole depth accordingly.



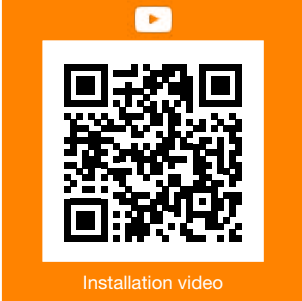
COUNTERSUNK ■ A2 STAINLESS STEEL ■ 6-LOBE PIN								
BOX QTY 50								
TECHNICAL SIZE	PART CODE	DRILL HOLE DIAMETER (mm)	MAXIMUM FIXTURE THICKNESS (mm)	MINIMUM HOLE DEPTH* (mm)	RECOMMENDED TIGHTENING TORQUE (nm)	SAFE STATIC LOADS (kn)		DRIVER SIZE
						TENSION	SHEAR	
M6 x 50mm	RTCSA0650	8	10	37	7	1.2	2.3	T30
M8 x 55mm	RTCSA0855	10	10	45	15	2.2	7.5	T40
M8 x 80mm	RTCSA0880	10	25	45	15	2.2	7.5	T40
M10 x 60mm	RTCSA1060	12	10	52	31	3.5	9.6	T45
M10 x 80mm	RTCSA1080	12	25	52	31	3.5	9.6	T45

* Minimum hole depth is for maximum fixture thickness. For thinner fixtures increase the hole depth accordingly.



BUTTON HEAD ■ A2 STAINLESS STEEL ■ 6-LOBE PIN								
BOX QTY 50								
TECHNICAL SIZE	PART CODE	DRILL HOLE DIAMETER (mm)	MAXIMUM FIXTURE THICKNESS (mm)	MINIMUM HOLE DEPTH* (mm)	RECOMMENDED TIGHTENING TORQUE (nm)	SAFE STATIC LOADS (kn)		DRIVER SIZE
						TENSION	SHEAR	
M6 x 45mm	RTBSA0645	8	10	37	7	1.2	2.3	T30
M8 x 55mm	RTBSA0855	10	10	45	15	2.2	7.5	T40
M8 x 75mm	RTBSA0875	10	25	45	15	2.2	7.5	T40
M10 x 65mm	RTBSA1065	12	10	52	31	3.5	9.6	T45
M10 x 80mm	RTBSA1080	12	25	52	31	3.5	9.6	T45

* Minimum hole depth is for maximum fixture thickness. For thinner fixtures increase the hole depth accordingly.



HOW TO INSTALL SLEEVE ANCHORS (BOTH TYPES)

A. Pre-drill base material

B. Take fixture and place over hole

C. Position fixture, tighten bolt into shield

D. Secure removable fixing

Tighten the Anchor to expand the sleeve within the hole, locking the anchor into the base material of concrete, brick, or block materials.



IDEAL FOR . . .

Saving valuable time and money when fixing to concrete, brickwork and masonry such as:

- Smoking Shelters
- Bike Racks
- Signage
- Street Furniture
- Barrier System

Bespoke Specials

We are able to offer a bespoke made to measure range of security fasteners. With all types of specials, minimum order quantities and varying lead times apply depending on your size and material requirements. We have listed some available thread types, materials and finishes, but you may be looking for something totally different and unique. If so, send us your drawings and samples and we'll get you a quote.

Bespoke Specials

Whether you want an additional process to existing stock items or fasteners to your drawing... we've got the solution for you.

1. Common Thread Types

- Self Tapping Screws
 - AB Type, B Type etc...
- Machine Screws
 - Metric, Imperial, British Standard etc...
- Woodscrews
 - Twinthread, Hi-Lo Thread etc...
- Self Drilling Screws
- Thread Forming Screws
 - Tri-lobular, Plastic Forming etc...
- Concrete Screws
- Dog-Point Screws
- Grub/Socket Screws

2. Common Materials

- A2/A4 Stainless Steels
- Carbon Steel
- Aluminium
- Brass
- Titanium

3. Common Platings/Coatings/Finishes

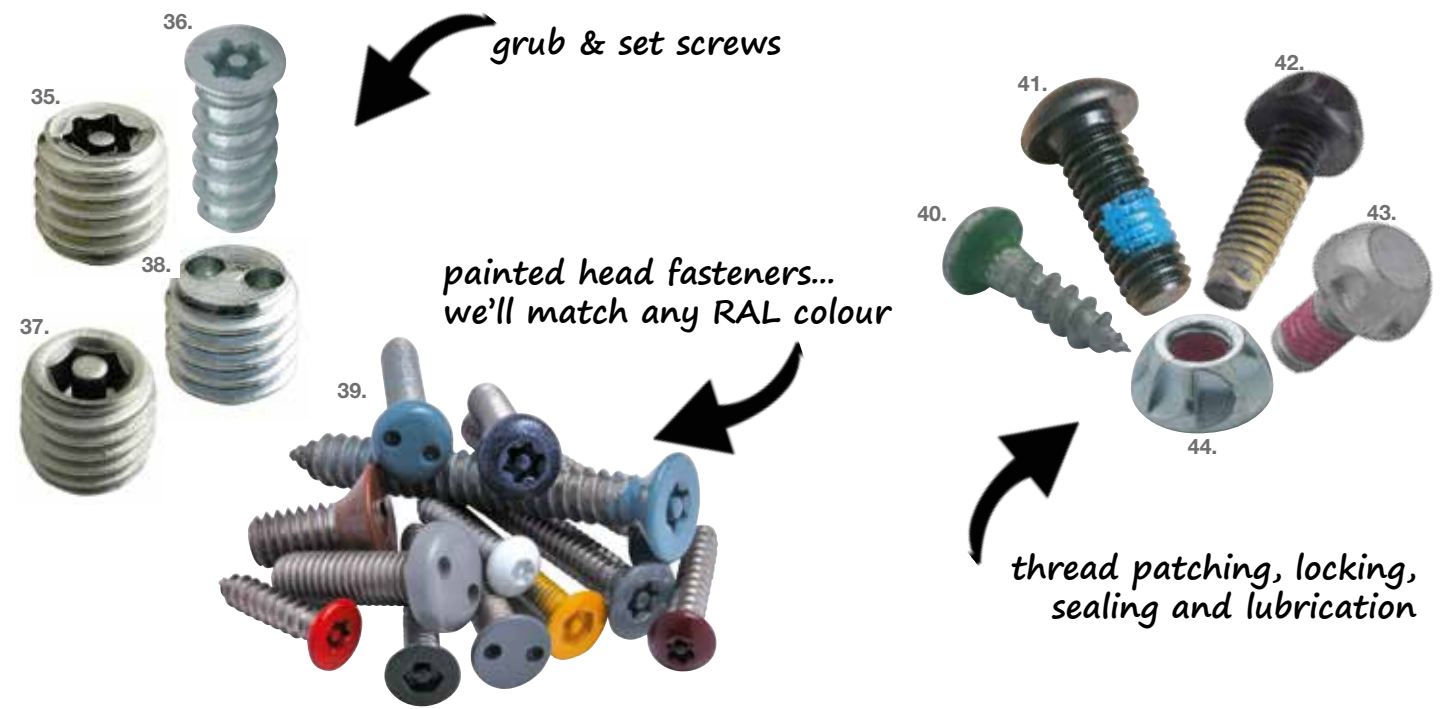
- Polished / Brushed etc...
- Chrome / Copper / Brass / Nickel etc...
- Geomet® / Delta Protekt® etc...
- Painted Heads (we'll match any RAL code)
- Thread Patching / Thread Locking
 - Nylon, micro-encapsulation etc...
- Thread Lubrication

4. You Design it... we make it

Send Team Orange your specifications and drawings.

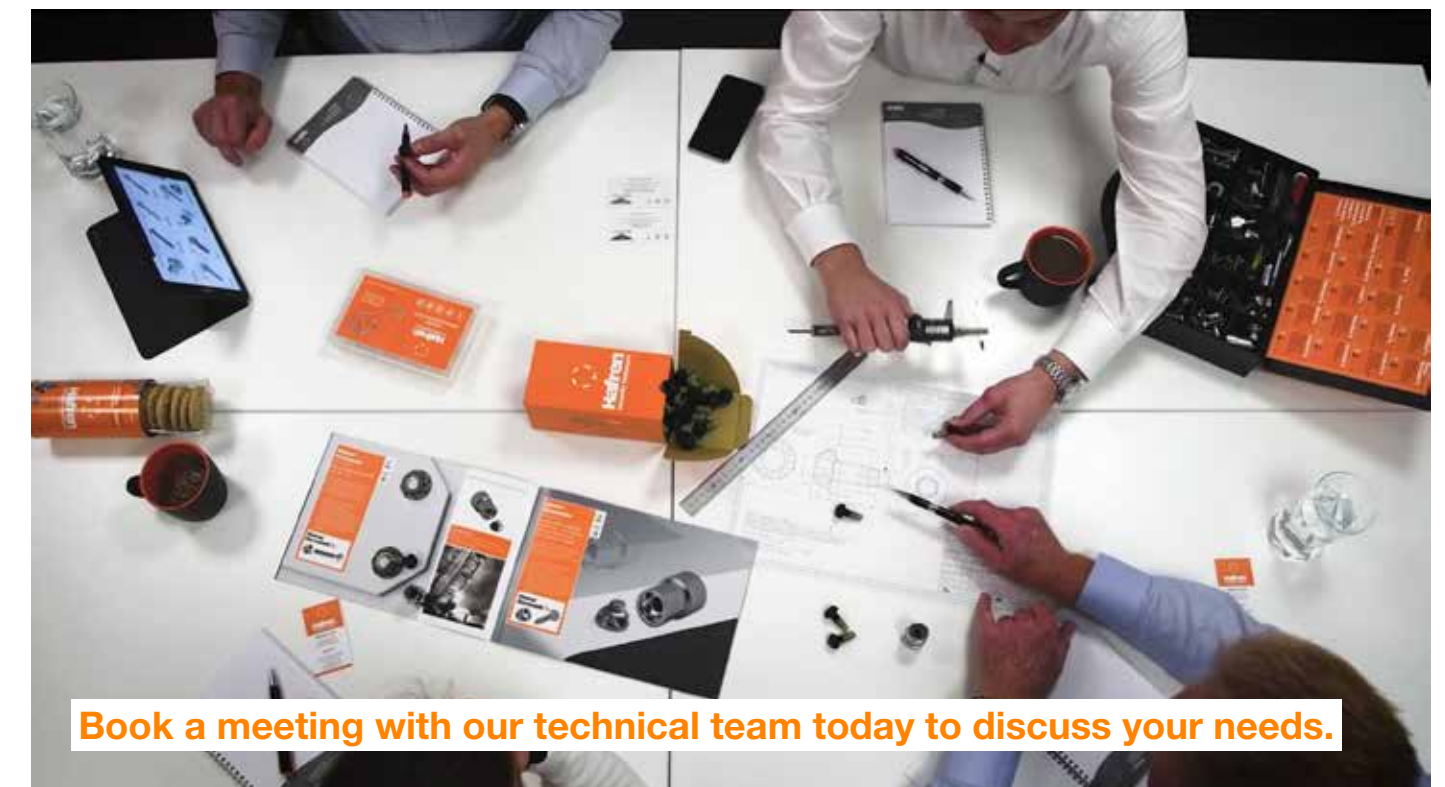
Lead times / Minimum order quantities will vary

*get inspired by previous bespoke
Hafren made products*



FOR A QUOTATION, PLEASE CONTACT US WITH ANSWERS TO THE BELOW...

HOW MANY	WHAT SIZE	WHAT MATERIAL	WHEN
			
<i>How many do you require?</i> The minimum order quantity will vary depending on... • Size • Material • Drive • Finishing	You specify the product size and dimensions that you require for your application.	You specify the material, coating, finishing that the product requires for your application. Consider the environment and other external factors.	<i>How soon do you require the parts?</i> Lead times vary between different bespoke products from days to months.



DRILLING GUIDE FOR AB SELF TAPPING SCREWS (mm)

SCREW GAUGE	MATERIAL THICKNESS										
	.45	.7	.9	1.2	1.6	2.0	2.6	3.2	4.7	6.3	10.0
4	2.00		2.30		2.40	2.60					
6	2.30		2.80		2.90	3.10	3.20				
8		2.90	3.10	3.20	3.40		3.70	3.80			
10		3.40		3.60	3.80		4.10	4.30	4.50		
12		4.10		4.30	4.50		4.80	4.90	5.10		
14				4.80	5.20	5.40		5.70	5.90	6.00	6.00



CONSIDER THE FOLLOWING POINTS WHEN SPECIFYING AND USING SECURITY FASTENERS



■ Placing fasteners in tight corners makes access for impulse tampering more difficult.

■ Mixing of driver types makes it harder for intrusion



■ Placing fasteners in a recess further increases the level of security.



CAN'T FIND THE SIZE OF SECURITY FASTENERS YOU NEED?

1. Use a length of studding with security nuts. (As shown with Kinmar® Removable Nuts)



2. Use a standard Hex head fastener with (a) Armour Ring™ or (b) Nogo™



Grow your sales by implementing the Hafren sales & marketing programme...

DIGITAL RESOURCES



Hafren Fasteners Website
hafrenfasteners.com

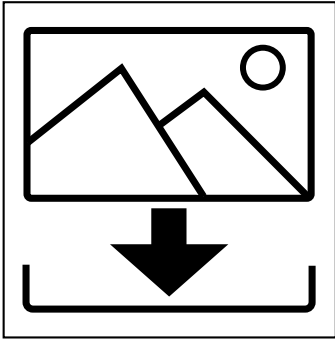


Image Download Pack



Hafren YouTube Channel



Hafren Newsletter

POS (POINT OF SALE) SUPPORT



Trade Counter Mats



Posters



Door Stickers



Security Fastener Handbook



Hafren Orange Demonstration Kit™

SALES SUPPORT



Sales Training



Face to Face / Online Meetings

Outstanding Customer Support...

Remember we offer support with;

- ✓ Joint visits
- ✓ Samples
- ✓ Technical Support
- ✓ Same-day Despatch
- ✓ Advice & Design
- ✓ Promotional Display Material

Don't lose it . . .



... Secure it.



Global Head Office

Hafren Fasteners

23 Mochdre Industrial Park
Newtown
SY16 4LE
United Kingdom

T: +44 (0)1686 621 300

E: info@hafrenfasteners.com
W: hafrenfasteners.com

European Hub

Hafren Fasteners GmbH

Albert-Einstein-Str. 7c
40764 - Langenfeld
(Rheinland)
Germany

T: +44 (0)1686 621 300

E: export@hafrenfasteners.com
W: hafrenfasteners.de