

# JCY

**Quality**  
you won't find elsewhere  
Tailor-made to your  
**specification**



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**JCY**  
Company Profile  
Masterpiece Hardware  
INDUSTRIAL CO., LTD.



**M**asterpiece Hardware Industrial Co., Ltd. is a manufacturer of screws and bolts with high tolerances. We focus on auto parts and commercial fasteners.

**W**ith in-house centerless grinding, Masterpiece is able to maintain a tolerance of 0.0004" on most unplated products, and 0.0008" on most plated products. Masterpiece's standard and special fasteners are structurally sound, cost-effective, and aesthetically pleasing. Unusual materials construction and standard-product modifications are our specialty.

[www.jcy.com.tw](http://www.jcy.com.tw) | [www.jcyscrews.com](http://www.jcyscrews.com) | [www.jcyhardware.com](http://www.jcyhardware.com)

**W**hen developing custom fasteners for you, we utilize a fundamental knowledge of good joint design, as well as a thorough understanding of the purpose, geometry, components and loads involved with your particle parts.

**W**e use calibration testing machines, thread gauge drilling machines, torque wrenches, salt spray test machines, concentricity gauges and depth gauges to make sure that every item conforms to ANSI, DIN, BS and IFI standards. For information on our extremely competitive prices, contact us today.

**W**hen you source DIY fasteners and hooks from us, you don't just benefit from our 2000-item product range. You profit from our extensive packaging services too. This is because you save time and money by having your preferred products packed in shelf-ready cardboard boxes, polythene bags, skin packaging and blister packaging.

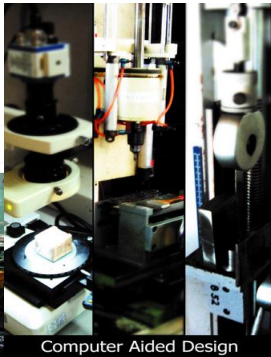
**I**t's no wonder we're a hit with companies who understand that time is money retailers such as Home Depot, Target, ScrewFix Direct and B&Q.



# Masterpiece Capability

## Manufacturing Facility

Masterpiece Hardware's manufacturing operations are centered around a modern 2000 square foot facility located in Chunghua Taiwan. In our facilities, 60 sets of heading and thread rolling machine ensure a monthly capacity of up to 700 metric tons in our facilities, for your volume orders. We combine this mass production with thorough Q.C., providing testing reports upon request. Also samples can be ready within 10 days. Find out why we are the number one source for hardware products from the Asia Pacific Rim.



## Computer Aided Design

Masterpiece hardware typically works from customer-supplied prints. We are also capable of providing complete product design solution utilising the latest state-of-the-art CAD/CAM systems. All engineering technical support services are available through the internet.

## Customer Service

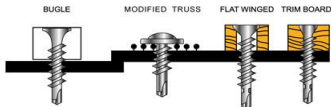
Every Masterpiece Hardware customer is supported by a team of talented hands on professionals, including an account executive, design engineers, manufacturing and quality assurance specialists. This multi-disciplinary team understands and anticipates the inherent complexities of each assignment. Drawing upon extensive experience and know-how, they work directly with customers to determine the most cost effective solution, often making product improvement and saving suggestion.



## 100% Traceability

All products manufactured by Masterpiece Hardware are 100% traceable as a result of the strict batch control systems. All documentation procedures are developed in accordance with customer guidelines. A complete library of product samples and accompanying paperwork is maintained and readily available for customer inspection.

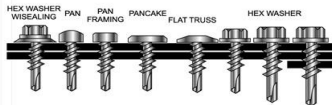




DRYWALL OR WOOD  
TO STEEL

EXPANDED WIRE  
TO STEEL

WOOD TO STEEL



20-14 GAUGE STEEL  
HEAVY STEEL FRAMING

250"-500" STEEL  
HEAVY STEEL FRAMING

## Fixing to Metal

Self-drilling screws have a hardened drill point that will drill and thread in structural steel and mild steel.

### There are two main criteria



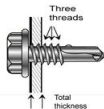
- 1 The point must be in perfect diameter ratio relationship to the thread, so as to not overdrill. This allows the thread to engage in the steel at an acceptable tapping torque. The pullout load is also determined by the ratio of the thread diameter to the hole diameter.
- 2 The point must have a swarf flute longer than the total thickness of the steel being drilled. This prevents problems with fastener installation due to swarf clogging the flute.

It is important that the drill point has completed drilling the total thickness of the steel before the thread engages.

To choose the correct fastener, it is necessary to select one where the length of the drill point is equal to or greater than the total thickness of the material to be drilled including the air-gap. If the drill point is less than the total thickness of the material and the thread engages, then the fastener can break or become impossible to drive.

As a rule the correct length screw should have at least 3 threads protruding behind the metal you are fastening to. The table indicates the metal thickness capacity of each gauge size available. When the gauge size has been determined, the length and head style for the intended application would then need to be determined.

## How to Use



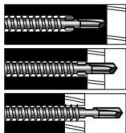
- 1 Measure the total thickness of the materials to be drilled.
- 2 Choose a screw that has a drilling capacity equal to or greater than the total thickness of materials to be drilled.
- 3 Determine the best head style for the intended application.
- 4 Choose a screw long enough to allow at least three threads to protrude beyond the metal being fastened to.

**NOTE** The lengths shown for countersunk, countersunk rib and bugle head screws indicate the distance from the top of the screw head to the screw point. For all other screw types, the length is measured from the underside of the screw head to the screw point.

- 5 Select the correct driver for the screw being used.
- 6 Fit driver to a power screwdriver set to HIGH (approx. 2500rpm).
- 7 Put screw onto driver and place at fastening position.
- 8 Push sharply on screwdriver to create a starting point.
- 9 Squeeze screwdriver trigger and maintain firm end pressure until screw has drilled and fastened.

# Fixing Timber, Fibre Cement and Composite Boards to Metal

Specially designed to enable the fastener to fix timber to metal without the timber rising to the top of the screw while the metal is being drilled. Features a flat head with reaming cutters in the underside to enable the head of the fastener to self-embed for a flush or recessed finish.



## I How the Wing to Work

- The drill point drills the timber, as the wings counter bore the hole larger than the thread diameter. With the hole being larger the thread will not engage into the timber.
- After the Teks?point drills through the metal, the wings break off on contact with the metal.
- The thread cutting feature on the shank cuts a mating thread in the metal and the thread continues to engage. The head then clamps this material firmly together.

## How to Use

- Measure the thickness of materials to be fastened including the air gap:

Wing Teks	Maximum Timber Thickness	Minimum Steel Thickness	Maximum Steel Thickness	Protrusion Measurement
6-20x50mm CSK RIB	37mm	0.8mm	2.3mm	13mm
8-18x35mm SEH	20mm	1.0mm	2.5mm	15mm
8-18x40mm SEH	25mm	1.0mm	2.5mm	15mm
10-24x30mm SEH	10mm	1.2mm	4.5mm	17mm
10-24x40mm SEH	25mm	1.2mm	4.5mm	17mm
10-16x45mm CSK RIB	25mm	1.2mm	3.5mm	17mm
10-16x55mm CSK RIB	35mm	1.2mm	3.5mm	17mm
10-16x75mm CSK RIB	55mm	1.2mm	3.5mm	17mm
14-20x50mm CSK	29mm	2.0mm	6.4mm	21mm
14-20x65mm CSK RIB	43mm	2.0mm	6.4mm	21mm

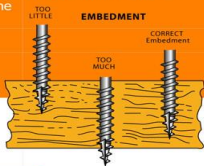
- Select correct size drive bit

6.8&10 gauge	#2 Cross Recess Bit
14 gauge	#3 Cross Recess Bit

- Fit driver to a power screwdriver set to HIGH - approx. 2500 rpm. (Driving too slowly may result in the wings not breaking off. The hole will be too large and the thread won't hold).
- Place Wing on the driver bit, place at fastening position and push sharply to create a starting point.
- Squeeze screwdriver trigger and maintain firm end pressure until the Wing has drilled and fastened.

# Minimum Embedment Into Timber

The minimum amount of embedment that must be screwed into timber is important in order to achieve the required pullout loads from the timber. The pullout load will also vary according to the grade of timber (softwood Vs hardwood).



Gauge	Minimum Embedment	Exceptions
6g	16mm	
8g	18mm	
10g	25mm	10gx25mm=23mm
12g	30mm	12gx25mm=23mm
14g	35mm	14gx25mm=23mm

## How to Use

Head Style	Driving Tool
Countersunk	#2 Phillips bit
Countersunk Rib	#2 Phillips bit
Hexagon 8g	1/4" Hex Socket
Hexagon 10/12g	5/16" Hex Socket
Hexagon 14g	3/8" Hex Socket
Pan	#2 Phillips bit
Ripple Tek's	#2 Phillips bit
Self Embedding	#2 Phillips bit
Wafer	#2 Phillips bit

- 1 Select a screw with the correct head style for the job.
- 2 Choose a screw long enough to provide 30mm embedment into the wood being fastened to.
- 3 Choose the correct driver for the screw being used.
- 4 Fix driver to a power screwdriver set to at least 1500rpm.
- 5 Put screw onto driver and place at fastening position.
- 6 Push sharply on screwdriver to create a starting point.
- 7 Squeeze screwdriver trigger and maintain firm end pressure until screw has drilled and fastened.

ℳ The lengths of for countersunk, countersunk rib and bugle head screws indicate the distance from the top of the screw head to the screw point.  
 — For all other screw types, the length is measured from the underside of the screw head to the screw point.

# Screw Introduce

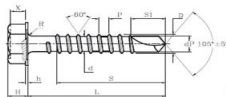


Fastener Values			
Fastener (Dia-Top)	Torque (min.in.lbs.)	Shear (avg.lbs.ult)	Tensile (lbs.min.)
#6-20	25	750	1285
#8-18	42	1000	1545
#10-16	61	1400	1936
#12-14	92	2000	2778
#14-14	150	2600	4060
#6-32			
#8-32			
#10-24	65	1500	2702
#12-24	150	2200	3165
#14-20	168	2700	3860



SCREW SIZE	DRILLING THICKNESS (mm)						DRILL POINT NO.					
	#1	#2	#3	#4	#5	#6	#1	#2	#3	#4	#5	#6
#6	0.45-1.5	0.91-2.1	0.91-2.5									
#7	0.45-1.5	0.91-2.1	0.91-2.5									
#8	0.45-2.1	0.91-2.5	0.91-4.17									
#10	0.45-2.4	0.91-3.3	0.91-4.17									
#12	0.45-2.4	0.91-5.3	0.91-5.3	3.18-6.36	3.18-12.72							
#14	0.45-2.4	0.91-5.3	0.91-5.3	3.18-6.36	3.18-12.72	3.18-15						

Nominal Screw Size	Thread Diameter				
	#6	#7	#8	#9	#10
Decimal Equivalent (inch)	0.14	0.15	0.16	0.18	0.19
Nominal Screw Size	#11	#12	#13	#14	1/4
	Decimal Equivalent	0.2	0.21	0.23	0.24



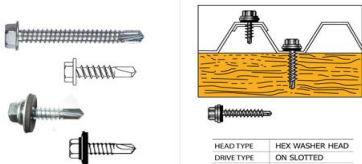
Steel Gauge Chart	Common Sheet Steel Gauge				
	30	28	26	24	22
Decimal EQ(inch)	0.012	0.015	0.018	0.024	0.03
Decimal EQ(mm)	0.3	0.38	0.45	0.61	0.76
Decimal EQ(inch)	0.036	0.048	0.06	0.075	0.105
Decimal EQ(mm)	0.91	1.21	1.52	1.9	2.65
Decimal EQ(inch)	1/8	10	3/16	1/4	1/2
Decimal EQ(mm)	0.125	0.134	0.187	0.25	0.5
Decimal EQ(mm)	3.18	3.42	4.77	6.36	12.72

### H EX WASHER HEAD SELF DRILLING SCREW (ROOFING SCREW)

For quick joining of sheet Steel to sheet Steel without the need for pre-drilling.  
Good for fixing cavity trays, ducting and Steel panels.  
Can also be used for temporary fixing.

#### PHOTOGRAPH

Example



HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
HW06000	6# -20X3/8"-6#-20X3"	3.5-20X9.5-3.5-20X7.5	2#
HW07000	7# -20X3/8"-7#-20X3"	3.9-19X9.5-3.9-19X7.5	2#
HW08000	8# -18X3/8"-8#-18X3"	4.2-18X9.5-4.2-18X7.5	2#,3#
HW10000	10# -16X1/2"-10#-16X4"	4.8-16X13-4.8-16X100	2#,3#
HW12000	12# -14X1/2"-12#-14X5"	5.5-14X13-5.5-14X125	2#,3#,4#,5#
HW14000	14# -14X1/2"-14#-14X5"	6.3-14X13-6.3-14X200	2#,3#,4#,5#

#### Applications

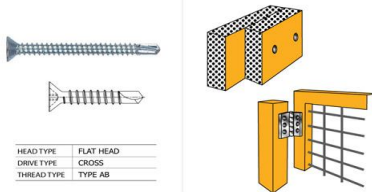
1. Roof deck to steel framing.
2. Wall panel to girt.
3. Duct work to steel framing.
4. Accessories to steel framing.
5. Clip to steel framing.
6. Retrofit framing.
7. Commercial overhead steel doors, hinges & latches.

### F LAT HEAD SELF DRILLING SCREW

Self-drilling Chipboard screws have a coarse thread and fine shank to provide maximum grip and minimum stripout into chipboard, MDF board and soft timbers. The head has ribs moulded around the countersunk head which help remove the chipboard particles when countersinking.

#### PHOTOGRAPH

Example



HEAD TYPE	FLAT HEAD
DRIVE TYPE	CROSS
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
CK06000	6# -20X3/8"-6#-20X3"	3.5-20X9.5-3.5-20X7.5	2#
CK07000	7# -20X3/8"-7#-20X3"	3.9-19X9.5-3.9-19X7.5	2#
CK08000	8# -18X3/8"-8#-18X3"	4.2-18X9.5-4.2-18X7.5	2#,3#
CK10000	10# -16X1/2"-10#-16X4"	4.8-16X13-4.8-16*100	2#,3#
CK12000	12# -14X1/2"-12#-14X5"	5.5-14X13-5.5-14X125	2#,3#,4#,5#
CK14000	14# -14X1/2"-14#-14X5"	6.3-14X13-6.3-14X200	2#,3#,4#,5#

#### Applications

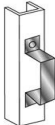
1. Fencing
2. Gates
3. Hinges

### PAN HEAD SELF DRILLING SCREW

For quick joining of sheet Steel to sheet Steel without the need for pre-drilling.  
Good for fixing cavity trays, ducting and Steel panels.  
Can also be used for temporary fixing.

PHOTOGRAPH

Example



HEAD TYPE	PAN HEAD
DRIVE TYPE	CROSS
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
PN06000	6# -20X3/8"-6# -20X3"	3.5-20X9.5-3.5-20X75	2#
PN07000	7# -19X3/8"-7#-19X3"	3.9-19X9.5-3.9-19*75	2#
PN08000	8# -18X3/8"-8#-18X3"	4.2-18X9.5-4.2-18*75	2#,3#
PN10000	10# -16X1/2"-10#-16X4"	4.8-16X13-4.8-16X100	2#,3#
PN12000	12# -14X1/2"-12#-14X5"	5.5-14X13-5.5-14X125	2#,3#,4#
PN14000	14# -14X1/2"-14#-14X8"	6.3-14X13-6.3-14X200	2#,3#,4#

#### Applications

- 1.Brackets
- 2.Fixings
- 3.HVAC,electrical trim accessories to steel framing
- 4.Residential steel frame construction.

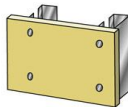
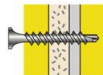
- 5.Hat channel to stud.
- 6.Stud splicing.
- 7.Track to stud.

### BUGLE HEAD SELF DRILLING SCREW

For fixing of plasterboard to metal  
For fixing plasterboard to steel from 0.8mm to 2.5mm thickness.  
Drill point provides easier cutting and faster penetration.  
Available in Black Phosphate or Zinc plated.

PHOTOGRAPH

Example



HEAD TYPE	BUGLE HEAD
DRIVE TYPE	CROSS
THREAD TYPE	TYPE AB

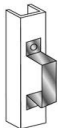
PART NO.	SIZE IFI	SIZE DIN	POINT NO.
BU06000	6# -20X1"-6#-20X2"	3.5-20X25-3.5-20X50	2#
BU07000	7# -19X1"-7#-19X2-1/2"	3.9-19X25-3.9-20X63	2#
BU08000	8# -18X2"-8#-18X3"	4.2-18X50-4.2-18X75	2#,3#
BU10000	10# -16X2"-10#-16X4"	4.8-16X50-4.8-16X100	3#

#### Applications

- 1.Brackets
- 2.Fixings
- 3.Fencing
- 4.Used for fastening drywall to 14-20 gauge metal studs.

**WAFER HEAD SELF DRILLING SCREW** For jobs needing a low profile head

PHOTOGRAPH | Example



**Applications**

1. metal deck clips
2. electrical fittings
3. signs
4. sheet metal

HEAD TYPE	WAFER HEAD
DRIVE TYPE	CROSS
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
WA10000BK	10# -16X5/8"-10#-16X2"		2#,3#
WA10000CK	10# -24X5/8"-10#-24X2"		2#,3#

**HEX WASHER FLANGE HEAD SELF DRILLING SCREW**(ROOFING SCREW)

PHOTOGRAPH | Example



**Applications**

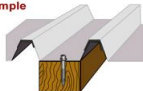
Fixing roofing profiles to steel purlins

HEAD TYPE	HEX WASHER FLANGE HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE B

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
HF12000	12# -24X3/4"-12#-24X5"	5.5-24X19-5.5-24X125	3#

**HEX WASHER FLANGE TYPE 17 WOOD SCREWS**(ROOFING SCREW)

PHOTOGRAPH | Example



**Applications**

Crest fixing roofing profiles to timber battens

HEAD TYPE	HEX WASHER FLANGE HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE A & TYPE 17

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
HF12000AC	12# -11X5/8"-12#-11X4"	5.5-11X16-5.5-11X100	type 17
HF14000AC	14# -10X5/8"-14#-10X4"	6.3-10X16-6.3-10X100	

**ROUND WASHER HEAD SELF DRILLING SCREW**(MODI-TRUSS HEAD)

Wafer head metal to metal fixing for the construction of metal stud partitioning and suspension systems to 0.84mm thick.

PHOTOGRAPH | Example



**Applications**

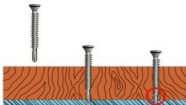
- Jobs needing a broad flat head
- foil sarking and insulation panels
  - fascia bracket clips to rafters
  - conduit clips to steel
- For attaching metal lath to heavy gauge ( 14-20 ) metal studs.

HEAD TYPE	ROUND WASHER HEAD
DRIVE TYPE	CROSS
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
TR08000	8# -16X1/2"-8#-18X2"	4.2-16X13-4.2-16X50	2#,3#
TR10000	10# -16X3/4"-10#-16X2"	4.8-16X19-4.8-16X50	2#,3#

**W** ASHER FLAT HEAD WITH WING & SHANK SLOT SELF DRILLING SCREW

PHOTOGRAPH | Example



HEAD TYPE	WASHER FLAT HEAD
DRIVE TYPE	CROSS
THREAD TYPE	TYPE AB

**Applications**

For attaching plywood to metal. \* Wings prevent plywood from climbing up threads.

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
FHW1000	10#X3/4"~10#X3"	4.8X19~4.8X75	3#
FHW1200	12#X3/4"~12#X4"	5.5X19~5.5X100	3#, 4#, 5#

**F** LAT HEAD WITH WING & SHANK SLOT SELF DRILLING SCREW

PHOTOGRAPH



HEAD TYPE	FLAT HEAD
DRIVE TYPE	CROSS
THREAD TYPE	TYPE AB

**Applications**

For attaching wood to heavy GAUGE metal.

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
FHWS1000	10#X3/4"~10#X3"	4.8X19~4.8X75	3#
FHWS1200	12#X3/4"~12#X4"	5.5X19~4.8X100	3#, 4#, 5#
FHWS1400	14#X3/4"~14#X4"	6.3X19~6.3X100	3#, 4#, 5#

**P** AN FRAMING HEAD SELF DRILLING SCREW

Available in Black Phosphate or Zinc yellow plated. Phil. drive.

PHOTOGRAPH | Example



HEAD TYPE	PAN FRAMING HEAD
DRIVE TYPE	CROSS
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
PPF0600	6# -20X3/8"~6#-20X1/2"	3.5-20X9.5~3.5-20X13	2#
PPF0700	7# -19X3/8"~7#-19X1/2"	3.9-19X9.5~3.9-19X13	2#
PPF0813	8# -18X1/2"~8#-18X3/4"	4.2-18X13~4.2-18X19	2#, 3#
PPF1000	10# -16X1/2"~10#-16X2"	4.8-16X13~4.8-16X50	2#, 3#

**Applications**

- security fixings
- security grilles
- signs
- cladding

- For attaching steel track to 14-20 gauge metal studs.
- Security Fixings
- security grilles
- signs

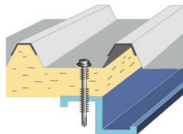
**DOUBLE THREAD HEX WASHER HEAD SELF DRILLING SCREWS**

FOR FIXING ROOFING TO STEEL PURLINS.

PHOTOGRAPH



PART NO.	SIZE IFI	SIZE DIN	POINT NO.
DTHW1400	14# -14/12#-24X50	6.3-14/5.5-24X50	
DTHW1460	14# -14/12#-24X60	6.3-14/5.5-24X60	
DTHW1470	14# -14/12#-24X70	6.3-14/5.5-24X70	
DTHW1475	14# -14/12#-24X75	6.3-14/5.5-24X75	
DTHW1480	14# -14/12#-24X80	6.3-14/5.5-24X80	3#
DTHW1490	14# -14/12#-24X90	6.3-14/5.5-24X90	
DTHW14100	14# -14/12#-24X100	6.3-14/5.5-24X100	
DTHW14105	14# -14/12#-24X105	6.3-14/5.5-24X105	
DTHW14110	14# -14/12#-24X110	6.3-14/5.5-24X110	
DTHW14115	14# -14/12#-24X115	6.3-14/5.5-24X115	
DTHW14120	14# -14/12#-24X120	6.3-14/5.5-24X120	5#
DTHW14125	14# -14/12#-24X125	6.3-14/5.5-24X125	
DTHW14130	14# -14/12#-24X130	6.3-14/5.5-24X130	
DTHW14140	14# -14/12#-24X140	6.3-14/5.5-24X140	
DTHW14150	14# -14/12#-24X150	6.3-14/5.5-24X150	

**Example**

HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE AB

**Applications**

THIS SCREW USED TO FIX METAL ROOFING TO STEEL PURLINS, WITH A THICKNESS OF 1.6 TO 3.2mm.

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
DTHW1450A	14# -10/12#-24X50	6.3-10/5.5-24X50	
DTHW1460A	14# -10/12#-24X60	6.3-10/5.5-24X60	
DTHW1470A	14# -10/12#-24X70	6.3-10/5.5-24X70	
DTHW1475A	14# -10/12#-24X75	6.3-10/5.5-24X75	3#
DTHW1480A	14# -10/12#-24X80	6.3-10/5.5-24X80	
DTHW1490A	14# -10/12#-24X90	6.3-10/5.5-24X90	
DTHW14100A	14# -10/12#-24X100	6.3-10/5.5-24X100	
DTHW14105A	14# -10/12#-24X105	6.3-10/5.5-24X105	4#
DTHW14110A	14# -10/12#-24X110	6.3-10/5.5-24X110	
DTHW14115A	14# -10/12#-24X115	6.3-10/5.5-24X115	
DTHW14120A	14# -10/12#-24X120	6.3-10/5.5-24X120	
DTHW14125A	14# -10/12#-24X125	6.3-10/5.5-24X125	5#
DTHW14130A	14# -10/12#-24X130	6.3-10/5.5-24X130	
DTHW14140A	14# -10/12#-24X140	6.3-10/5.5-24X140	
DTHW14150A	14# -10/12#-24X150	6.3-10/5.5-24X150	

## CONCRETE SCREWS HI-LO THREAD

SPECIALLY HARDENED HI-LO THREAD FORM FOR A WIDE RANGE OF MASONRY MATERIALS.

PHOTOGRAPH

Example



HEAD TYPE	FLAT HEAD
DRIVE TYPE	CROSS
THREAD TYPE	HI-LO Thread

### Applications

FOR FIXING INTO MASONRY MATERIALS

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
MSN3114	3/16X1-1/4	MSN4112	1/4X1-1/2
MSN3112	3/16X1-1/2	MSN4134	1/4X1-3/4
MSN3134	3/16X1-3/4	MSN4200	1/4X2
MSN3200	3/16X2	MSN4214	1/4X2-1/4
MSN3214	3/16X2-1/4	MSN4212	1/4X2-1/2
MSN3212	3/16X2-1/2	MSN4234	1/4X2-3/4
MSN3234	3/16X2-3/4	MSN4300	1/4X3
MSN3300	3/16X3	MSN4314	1/4X3-1/4
MSN3314	3/16X3-1/4	MSN4312	1/4X3-1/2
MSN3312	3/16X3-1/2	MSN4334	1/4X3-3/4
MSN3334	3/16X3-3/4	MSN4400	1/4X4
MSN3400	3/16X4	MSN4500	1/4X5
MSN4114	1/4X1-1/4	MSN4600	1/4X6

## MASONRY SCREWS HI-LO THREAD

SPECIALLY HARDENED HI-LO THREAD FORM FOR A WIDE RANGE OF MASONRY MATERIALS.

PHOTOGRAPH

Example



HEAD TYPE	SLOT HEX WASHER HEAD
DRIVE TYPE	CROSS & SLOT
THREAD TYPE	HI-LO Thread

### Applications

FOR FIXING INTO MASONRY MATERIALS

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
HMSN3114	3/16X1-1/4	HMSN4112	1/4X1-1/2
HMSN3112	3/16X1-1/2	HMSN4134	1/4X1-3/4
HMSN3134	3/16X1-3/4	HMSN4200	1/4X2
HMSN3200	3/16X2	HMSN4214	1/4X2-1/4
HMSN3214	3/16X2-1/4	HMSN4212	1/4X2-1/2
HMSN3212	3/16X2-1/2	HMSN4234	1/4X2-3/4
HMSN3234	3/16X2-3/4	HMSN4300	1/4X3
HMSN3300	3/16X3	HMSN4314	1/4X3-1/4
HMSN3314	3/16X3-1/4	HMSN4312	1/4X3-1/2
HMSN3312	3/16X3-1/2	HMSN4334	1/4X3-3/4
HMSN3334	3/16X3-3/4	HMSN4400	1/4X4
HMSN3400	3/16X4	HMSN4500	1/4X5
HMSN4114	1/4X1-1/4	HMSN4600	1/4X6

### HEX FLANGE HEAD MASONRY SCREWS HI-LO THREAD SCREW

#### PHOTOGRAPH | Example



HEAD TYPE	HEX FLANGE HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE AB

#### Applications

FOR FIXING INTO MASONRY MATERIALS

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
HFGN1332	13#X32	1/4X1-1/4	
HFGN1340	13#X40	1/4X1-5/8	
HFGN1355	13#X55	1/4X1-1/4	

### STITCHING SELF DRILLING SCREW

#### PHOTOGRAPH



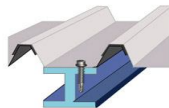
HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
STI1219	12# -14X3/4	5.5-14X19	1#
STI1222	12# -14X7/8	5.5-14X22	1#
STI1225	12# -14X1	5.5-14X25	1#
STI1419	14# -14X3/4	6.3-14X19	1#
STI1422	14# -14X7/8	6.3-14X22	1#
STI1425	14# -14X1	6.3-14X25	1#

### HEX WASHER HEAD / POINT 4# & 5# SELF DRILLING SCREW

Use a #4 point for metal to steel applications up to 3/8" thick.  
#5 point for metal to steel up to 1/2" thick.

#### PHOTOGRAPH | Example



HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
HWSP1222	12# -24X7/8	5.5-24X22	4#
HWSP1232	12# -24X1-1/4	5.5-24X32	
HWSP1238	12# -24X1-1/2	5.5-24X38	
HWSP1250	12# -24X2	5.5-24X50	5#

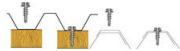
#### Applications

Use a #4 point for metal to steel applications up to 3/8" thick. #5 point for metal to steel up to 1/2" thick.

**H**EX WASHER HEAD WITH REDUCED DRILLING POINT  
(PAINTED HEAD ROOFING SCREW)

PHOTOGRAPH

Example



HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
HWRC1020		4.8-16X20	1#
HWRC1025		4.8-16X25	1#
HWRC1028		4.8-16X28	1#
HWRC1035		4.8-16X35	1#
HWRC1040		4.8-16X40	1#
HWRC1045		4.8-16X45	1#
HWRC1050		4.8-16X50	1#
HWRC1055		4.8-16X55	1#
HWRC1060		4.8-16X60	1#

**Applications**

For attaching light gauge metal, metal siding, flashing, etc. to steel structure. Neoprene bonded sealing washer keeps out MOISTURE and prevents bleeding.

**H**EX WAHSER HEAD WING UP WITH WASHER 3# POINT  
ROOFING SCREW

PHOTOGRAPH

Example



HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
HWWU14105		6.3-14X105	3#
HWWU14115		6.3-14X115	3#
HWWU14125		6.3-14X125	3#
HWWU14145		6.3-14X145	3#
HWWU14155		6.3-14X155	3#
HWWU14175		6.3-14X175	3#

**Applications**

For fastening polycarbonate and fibreglass sheeting to steel purlins.

**T**YPE-17 / HEX WASHER HEAD WING UP WITH WSAHER ROOFING SCREW

PHOTOGRAPH

Example



HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
HWWUS105		6.5-10X105	
HWWUS115		6.5-10X115	
HWWUS125		6.5-10X125	
HWWUS145		6.5-10X145	
HWWUS155		6.5-10X155	

**Applications**

For fastening polycarbonate and fibreglass sheeting to timber battens.

**H**EX WASHER HEAD WING UP WITH WASHER 5# POINT ROOFING SCREW

PHOTOGRAPH

Example



HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
HWWUS110		6.3-14X110	#5
HWWUS120		6.3-14X120	#5
HWWUS130		6.3-14X130	#5
HWWUS150		6.3-14X150	#5
HWWUS160		6.3-14X160	#5
HWWUS180		6.3-14X180	#5

**Applications**

For fastening polycarbonate and fibreglass sheeting to steel purlins.

**N**YLON HEAD SELF DRILLING SCREW

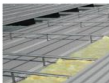
PHOTOGRAPH

Example



HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
NH1219	12-11X3/4	5.5-11X19	3#
NH1225	12-24X1	5.5-24X25	3#
NH1250	12-24X2	5.5-24X50	3#
NH1263	12-24X2-1/2	5.5-24X63	3#
NH1275	12-24X3	5.5-24X75	3#



**P**owerline Self Drilling Collated Drywall Screws

Collated drywall screws with self-drilling point for fixing plasterboard to heavy gauge metal studing partitions up to 2.84mm thick. Cosmetic bright zinc plating. Phillips #2 driver bit supplied.

PHOTOGRAPH

Example



HEAD TYPE	BUGLE HEAD
DRIVE TYPE	CROSS
THREAD TYPE	TYPE AB

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
CDS3525	6#x1"	3.5x25	2#
CDS3532	6#x1-1/4"	3.5x32	2#
CDS3542	6#x1-5/8"	3.5x42	2#

**Applications**

Universal belt system compatible with most fed guns.

### HEX WASHER FLANGE HEAD DOUBLE THREAD W/SHANK-GUARD SELF DRILLING SCREW

## PHOTOGRAPH



PART NO.	SIZE IFI
HFG1245	14# -14/12#-24 X45
HFG1255	14# -14/12#-24 X55
HFG1265	14# -14/12#-24 X65
HFG1275	14# -14/12#-24 X75

HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	DOUBLE THREAD W/SHANK-GUARD

**Applications** for fixing roofing to steel purline

### HEX WASHER FLANGE HEAD DOUBLE THREAD SELF DRILLING SCREW

## PHOTOGRAPH



PART NO.	SIZE IFI
HFH1245	14# -14/12#-24X45
HFH1255	14# -14/12#-24X55
HFH1265	14# -14/12#-24X65
HFH1275	14# -14/12#-24X75

HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	ON SLOTTED
THREAD TYPE	DOUBLE THREAD

**Applications** for fixing roofing to steel purline

### Cement Backer Board Screw

These screws are made for installing cement backer board. They have a special corrosion-resistant coating. Notice the ridges under the screw head? They dig a hole in the cement board for the screw head, so the head does not stick up.

## PHOTOGRAPH | Example



HEAD TYPE	WAFER HEAD WITH NIBS
DRIVE TYPE	CROSS
THREAD TYPE	HI-LO THREAD

**Applications** These screws are made for installing cement backer board.

PART NO.	SIZE IFI	SIZE DIN	POINT NO.
CDS3525	8#X1-1/4"	4 2X32	SPOON POINT
CDS3532	8#X1-5/8"	4 2X42	SPOON POINT

### Proper Usage of EPDM Washer

By using the adjustable fixed distance drilling machine, distance of the fixed position can be obtain. It ensures sealing at all point of contact between screw and metal sheet as well as water-resistance.



1. Too Tight  
Cause metal to turn up

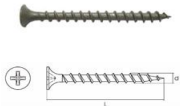
2. Too loose  
Unable to form seal due to sealant is not compressed

3. Correct Position  
Sealant is slight extrudes to the outer edge

### A Deck Screw (Bugle head coarse thread Dry Wall screw)

Hardened Countersunk Screws. Tri-Lock thread form for tight grip and easy driving. Corrosion resistant for outdoors applications.

PHOTOGRAPH



HEAD TYPE	Bugle head
DRIVE TYPE	CROSS
THREAD TYPE	Coarse thread

PART NO.	SIZE IFI
DCS06100B	6x1"(3.5x25)
DCS06114B	6x1-1/4"(3.5x32)
DCS06138B	6x1-3/8"(3.5x35)
DCS06112B	6x1-1/2"(3.5x38)
DCS06158B	6x1-5/8"(3.5x42)
DCS06200B	6x2"(3.5x50)
DCS08258B	8x2-5/8"(4.2x65)
DCS08300B	8x3"(4.2x75)

#### Example



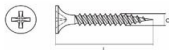
#### Applications

One of the finest quality fasteners for attaching drywall to 25 GA metal studs, and attaching drywall to wood studs.

### B Bugle head Twin thread Dry wall screw

Twin thread with phosphate finish. Piercing point for fast fixing of plasterboard. Piercing point fixes plasterboard to light Steel or wood studs without pre-drilling. Bugle head sets them to right depth without tearing paper.

PHOTOGRAPH



HEAD TYPE	Bugle Head
DRIVE TYPE	CROSS
THREAD TYPE	Twinfast FINE THREAD

PART NO.	SIZE IFI
DWS06100	6x1"(3.5x25)
DWS06114	6x1-1/4"(3.5x32)
DWS06138	6x1-3/8"(3.5x35)
DWS06112	6x1-1/2"(3.5x38)
DWS06158	6x1-5/8"(3.5x42)
DWS06200	6x2"(3.5x50)
DWS07034	7#*3/4"(3.9x19)
DWS07100	7#*1"(3.9x25)
DWS07114	7#*1 1/4"(3.9x32)

#### Example



#### Applications

Hardened, Phillips head screw, Twinthread for double quick driving. Use on plasterboard.

## Chipboard Screw(single thread woodscrew)

A Top quality single thread , versatile wood screw .Popular with carpenters,Chipboard screw are precisely engineered to power drive and hold fast in hard and softwood ,MDF and chipboard.

PHOTOGRAPH



### Example



HEAD TYPE	COUNTERSUNK (SINGLE HEAD AND DOUBLE HEAD)
DRIVE TYPE	pozid
THREAD TYPE	coarse thread

PART NO.	SIZE IFI
MPS3012	3x12
MPS3016	3x16
MPS3020	3x20
MPS3025	3x25
MPS3030	3x30
MPS3040	3x40
MPS3512	3.5x12
MPS3516	3.5x16
MPS3520	3.5x20
MPS3525	3.5x25
MPS3530	3.5x30
MPS3535	3.5x35
MPS3540	3.5x40
MPS3545	3.5x45
MPS3550	3.5x50
MPS4016	4x16
MPS4020	4x20
MPS4025	4x25
MPS4030	4x30
MPS4035	4x35
MPS4040	4x40

### Applications

1. Excellent for Softwood & Chipboard
2. Deep, Sharp, Single Thread for Cutting Cleanly through Wood
3. Superior Quality & Heat-Treated for Resistance to Snapping
4. Angled Point Usually Needs No Pilot Hole
5. Zinc & Yellow Passivated for Double Corrosion Resistance

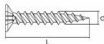
PART NO.	SIZE IFI
MPS4045	4x45
MPS4050	4x50
MPS4055	4x55
MPS4060	4x60
MPS4070	4x70
MPS4516	4.5x16
MPS4520	4.5x20
MPS4525	4.5x25
MPS4530	4.5x30
MPS4535	4.5x35
MPS4540	4.5x40
MPS4545	4.5x45
MPS4550	4.5x50
MPS4555	4.5x55
MPS4560	4.5x60
MPS4570	4.5x70
MPS4580	4.5x80
MPS5020	5x20
MPS5025	5x25
MPS5030	5x30
MPS5035	5x35

PART NO.	SIZE IFI
MPS5040	5x40
MPS5045	5x45
MPS5050	5x50
MPS5055	5x55
MPS5060	5x60
MPS5070	5x70
MPS5080	5x80
MPS5090	5x90
MPS50100	5x100
MPS6035	6x35
MPS6040	6x40
MPS6045	6x45
MPS6050	6x50
MPS6055	6x55
MPS6060	6x60
MPS6070	6x70
MPS6080	6x80
MPS6090	6x90
MPS60100	6x100
MPS60120	6x120
MPS60130	6x130

## Twin Thread Wood Screw

Twinthread for double quick driving. Countersunk. Prodrive? head recess gives extra grip. Use on man-made boards, hard and softwood.

### PHOTOGRAPH



HEAD TYPE	countersunk
DRIVE TYPE	pozid
THREAD TYPE	twin thread

PART NO.	SIZE IFI
TTW04012	4X1/2"
TTW04058	4X5/8"
TTW04034	4X3/4"
TTW04100	4X1"
TTW06012	6X1/2"
TTW06058	6X5/8"
TTW06034	6X3/4"
TTW06100	6X1"
TTW06114	6X1-1/4"
TTW06112	6X1-1/2"
TTW06200	6X2"
TTW07034	7X3/4"
TTW07100	7X1"
TTW07114	7X1-1/4"
TTW08012	8X1/2"
TTW08058	8X5/8"
TTW08034	8X3/4"
TTW08100	8X1"
TTW08114	8X1-1/4"
TTW08112	8X1-1/2"
TTW08134	8X1-3/4"

## Applications

1. Excellent for Softwood & Chipboard
2. Double Helix, Angled Thread Drives Accurately into Wood in Half the Time of Standard Screws
3. Shank Under Head Grips Wood & Reduces Splitting
4. Pilot Hole Not Normally Required
5. Zinc-Plated for Corrosion Resistance
6. Threaded to the Tip

PART NO.	SIZE IFI
TTW08200	8X2"
TTW08214	8X2-1/4"
TTW08212	8X2-1/2"
TTW08300	8X3"
TTW10100	10X1"
TTW10114	10X1-1/4"
TTW10112	10X1-1/2"
TTW10134	10X1-3/4"
TTW10200	10X2"
TTW10212	10X2-1/2"
TTW10300	10X3"
TTW10312	10X3-1/2"
TTW10400	10X4"
TTW12114	12X1-1/4"
TTW12112	12X1-1/2"
TTW12200	12X2"
TTW12212	12X2-1/2"
TTW12300	12X3"
TTW12312	12X3-1/2"
TTW12400	12X4"
TTW12412	12X4-1/2"

PART NO.	SIZE IFI
TTW12434	12X4-3/4"
TTW12518	12X5-1/8"
TTW12512	12X5-1/2"
TTW12600	12X6"

## Example



### Stainless Steel Decking Screws

Single thread, TriLock, corrosion-resistant Stainless Steel deck, outdoor and marine screw for all pressure-treated timber and hardwoods.

PHOTOGRAPH

HEAD TYPE	bugle head
DRIVE TYPE	SQUARE RECESS
THREAD TYPE	coarse thread



PART NO.	SIZE IFI
DCS08200SS	8X2"
DCS08214SS	8X2-1/4"
DCS08212SS	8X2-1/2"
DCS08300SS	8X3"

### Stainless Steel Decking Screws

#305 stainless steel decks with highly durable poxy based finish  
Stainless steel deck screw are available in both flat head and trim head styles in a variety of the commonly used deck screw sizes.

PHOTOGRAPH

HEAD TYPE	PANITED bugle head
DRIVE TYPE	SQUARE RECESS
THREAD TYPE	coarse thread & TYPE 17



PART NO.	SIZE IFI
PDCS07158	7X1-5/8"
PDCS07214	7X2-1/4"
PDCS08212	8X2-1/2"
PDCS08300	8X3"



IPE  
WITH HEADCOTE /  
BROWN



CEDAR  
WITH HEADCOTE /  
TAN



MACHOGANY  
WITH HEADCOTE /  
WHITE



REDWOOD  
WITH HEADCOTE /  
TAN



ACQ TREATED  
WITH HEADCOTE /  
TAN



PVC TRIMBOARD  
WITH HEADCOTE /  
WHITE



GRAY COMPOSITE  
WITH HEADCOTE /  
GRAY



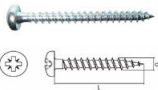
BROWN COMPOSITE  
WITH HEADCOTE /  
BROWN



TAN COMPOSITE  
WITH HEADCOTE /  
TAN

**PAN HEAD CHIPBOARD SCREW**

PHOTOGRAPH

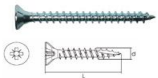


HEAD TYPE	PAN HEAD
DRIVE TYPE	POZI RECESS
THREAD TYPE	CHIPBOARD THREAD

PART NO.	SIZE IFI
PCS06058	6X5/8"
PCS06100	6X1"
PCS08012	8X1/2"
PCS08058	8X5/8"
PCS08034	8X3/4"
PCS08100	8X1"
PCS08114	8X1-1/4"
PCS08112	8X1-1/2"
PCS08200	8X2"
PCS10100	10X1"
PCS10112	10X1-1/2"
PCS10200	10X2"

**DOUBLE FLAT HEAD W/4NIBS TYPE 17 CHIPBOARD SCREW**

PHOTOGRAPH



**Example**



HEAD TYPE	DOUBLE FLAT HEAD
DRIVE TYPE	POZI
THREAD TYPE	CHIPBOARD THREAD & TYPE 17

PART NO.	SIZE IFI
MPT30025	3.0x25
MPT35020	3.5x20
MPT35030	3.5x30
MPT40030	4x30
MPT40040	4x40
MPT45050	4.5x50
MPT50040	5x40
MPT50050	5x50
MPT50060	5x60
MPT50070	5x70/45
MPT50090	5x90/60
MPT60080	6x80/50
MPT60100	6x100/70

**SNAP - OFF SCREW**

Zinc and Yellow-passivated. Unique design makes it suitable for fixing door furniture. Simply snap the screw along its machine thread to suit the length required.

PHOTOGRAPH



HEAD TYPE	ROUND WASHER HEAD
DRIVE TYPE	CROSS
THREAD TYPE	TYPE B

PART NO.	SIZE IFI
SOS04	M4

**Applications**

MIN-LENGTH 20mm  
MAX-LENGTH 45mm

**Powerline Frame Screws**

T30. Fast, versatile masonry screw for fixing window and door frames into most substrates. T30 drive. Zinc and Yellow-passivated. Requires 6mm pilot hole.

PHOTOGRAPH



HEAD TYPE	FLAT HEAD
DRIVE TYPE	STAR DRIVE
THREAD TYPE	TYPEAB W/FLUTES

PART NO.	SIZE IFI
PFS75042	7.5X42
PFS75062	7.5X62
PFS75082	7.5X82
PFS75102	7.5X102
PFS75122	7.5X122
PFS75152	7.5X152
PFS75182	7.5X182

## FURNITURE SCREW

Fast, deep-cut thread screws hold tight even in end grain chipboard! Also use in natural timbers where the sharp point, deep cut and sharp threads drive in easily and minimise splitting. Black Oxide finish gives hi-tech look if left exposed.

PHOTOGRAPH



HEAD TYPE	COUNTERSUNK
DRIVE TYPE	POZI
THREAD TYPE	coarse thread

PART NO.	SIZE IFI
FNS08114	8X1-1/4"
FNS08134	8X1-3/4"

## EXTERIOR TIMBER SCREW

Hex drive for accurate driving and no cam-out. Natural coloured exterior coating blends in with most wood surfaces.

For joists, landscaping and fencing. Can replace coach screws and bolts. 1000 hour salt spray. Pre-drilling usually not required, use high torque low revs.

PHOTOGRAPH



HEAD TYPE	HEX WASHER HEAD
DRIVE TYPE	HEX DRIVE
THREAD TYPE	TYPE A

PART NO.	SIZE IFI
ETS63065	6.3X65
ETS63100	6.3X100
ETS63150	6.3X150
ETS63200	6.3X200
ETS63250	6.3X250

### Applications

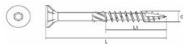
- Requires no pre-drilling.
- Gimlet point & anti-friction coating offers significantly reduced installation torque.
- Oversized washer for controlling position of fastener.
- Oversized washer for controlling position of fastener.
- Higher lateral load capacity than nails or screw of similar diameter.
- Made of heat-treated steel for dramatically increased strength & drivability.

## Heco Topix Csk Woodscrews

Professional countersunk screw for use in wood construction. Ideal for joists and rafters. Zinc and Yellow plating.

High Pitch Thread for Faster Driving  
Shank Ribs for Low Torque Driving  
"Ribs under Head for Clean Countersinking, T-40 Drive Reduces Cam-Out."

PHOTOGRAPH



HEAD TYPE	COUNTERSUNK W/NIBS
DRIVE TYPE	STAR DRIVE
THREAD TYPE	TYPE A & TYPE 17 W / SHANK RIBS

PART NO.	SIZE IFI
HTS08120	8X120
HTS08140	8X140
HTS08160	8X160
HTS08180	8X180
HTS08200	8X200

PART NO.	SIZE IFI
HTS08220	8X220
HTS08240	8X240
HTS08260	8X260
HTS08280	8X280
HTS08300	8X300

**M**asonry Screws

Dual single, hi-lo diamond thread form with corrosion resistant, blue ruspert finish.

PHOTOGRAPH



HEAD TYPE	COUNTERSUNK
DRIVE TYPE	POZI
THREAD TYPE	HI-LO THREAD W/FLUTES

PART NO.	SIZE IFI
MCS10114	3/16"x1-1/4"
MCS10134	3/16"x1-3/4"
MCS10214	3/16"x2-1/4"
MCS10234	3/16"x2-3/4"
MCS14114	1/4"x1-1/4"
MCS14134	1/4"x1-3/4"
MCS14234	1/4"x2-3/4"

**M**asonry Hex / Slotted Head Screws

Dual single, hi-lo diamond thread form with corrosion resistant, blue ruspert finish. Hex head with slot for socket or screwdriver application.

PHOTOGRAPH



HEAD TYPE	HEX HASHER HEAD
DRIVE TYPE	CROSS & SLOT
THREAD TYPE	HI-LO THREAD W/FLUTES

PART NO.	SIZE IFI
MHS10114	3/16"x1-1/4"
MHS10134	3/16"x1-3/4"
MHS14134	1/4"x1-3/4"

**C**ollated Drywall Black Fine Thread Screws

Non-jamming, collated drywall screws with piercing point. Hardened with bugle head and black phosphate coating, Phillips. Fine thread. Suitable for fixing to steel and wood.

PHOTOGRAPH



HEAD TYPE	Bugle Head
DRIVE TYPE	CROSS
THREAD TYPE	Twinfast FINE THREAD

PART NO.	SIZE IFI
CDWS3525	3.5x25
CDWS3532	3.5x32
CDWS3535	3.5x35
CDWS3538	3.5x38

**Example**

### Clutch Head Security Screw

Beat the thieves! Clutch head or 'one way' design lets you put these screws in with an ordinary slotted screwdriver, but removing them is virtually impossible. Hardened and zinc-plated. Twin thread. Internal use only.

PHOTOGRAPH



PART NO.	SIZE IFI
CHSS10114	10X1-1/4"
CHSS10112	10X1-1/2"

### Star Drive Security Screws

For tamper-resistant fixings. A2 Stainless Steel. Internal and external applications. Self-tapping. Use in sheet metal or wood.

PHOTOGRAPH



PART NO.	SIZE IFI
SDSS08034	8X3/4"
SDSS08100	8X1"
SDSS08114	8X1-1/4"
SDSS08112	8X1-1/2"
SDSS08200	8X2"

### Star Pin Button Self-Tap Security Screws

A2 Stainless Steel. AB thread. Use in wood or stainless steel.

PHOTOGRAPH



PART NO.	SIZE IFI
SPSS08034	8X3/4"
SPSS08100	8X1"
SPSS08112	8X1-1/2"
SPSS10112	10X1-1/2"

### PIN HEX BUTTON MACHINE

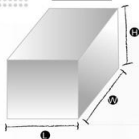
A2 STAINLESS STEEL . METRIC, MACHINE SCREW THREAD.  
USE WHERE ACCESS CONTROL OR SAFETY PROTECTION IS REQUIRED.

PHOTOGRAPH



PART NO.	SIZE IFI
PHSS0412	4X12
PHSS0516	5x16
PHSS0612	6x12
PHSS0616	6x16
PHSS0620	6x20
PHSS0625	6x25
PHSS0840	8x40

L x W x H



## Various type of packing container



PART NO. JCY-43  
SIZE (cm) 95X126X43



PART NO. JCY-E174  
SIZE (cm) 56X56X83



PART NO. JCY-80  
SIZE (cm) 155X125X80

PART NO. JCY-125  
SIZE (cm) 155X125X125



PART NO. JCY-P3  
SIZE (cm) 125X95X205



PART NO. JCY-P2  
SIZE (cm) 125X95X148



PART NO. JCY-P02  
SIZE (cm) 125X95X37



PART NO. JCY-D804  
SIZE (cm) 90X90X145



PART NO. JCY-318  
SIZE (cm) 68X68X95



PART NO. JCY-40  
SIZE (cm) 80X122X40



PART NO. JCY-18  
SIZE (cm) 50X100X18

PART NO. JCY-163  
SIZE (cm) 145X150X163



PART NO. JCY-B508  
SIZE (cm) 68X68X138



PART NO. JCY-MTC3827  
SIZE (cm) 380\*270\*66



PART NO. JCY-MTC3322  
SIZE (cm) 330\*220\*66



PART NO. JCY-MTC4433  
SIZE (cm) 440\*330\*66

PART NO. JCY-38  
SIZE (cm) 240X193X38

PART NO. JCY-72  
SIZE (cm) 263X220X72



PART NO. JCY-P1  
SIZE (cm) 130X95X10.5



PART NO. JCY-6G  
SIZE (cm) 220X180X170



PART NO. JCY-P0  
SIZE (cm) 130X95X82



PART NO. JCY-5dD  
SIZE (cm) 287X287X193



PART NO. JCY-4L  
SIZE (cm) 265X250X115



PART NO. JCY-78  
SIZE (cm) 260X252X206



# DACROMET

DACROMET is the leading inorganic coating specified by automotive companies worldwide and is a proven coating system in many industries.

A **water-based, VOC compliant** coating, DACROMET is comprised mainly of overlapping zinc and aluminum flake in an inorganic binder.

**Barrier Protection** : Overlapping zinc and aluminum flakes provides an excellent barrier between the steel substrate and the corrosive media.

**Galvanic Action** : Zinc corrodes to protect steel

**Passivation** : Metal oxides slow down the corrosion reaction of zinc and steel to provide 3 times greater corrosion protection than pure zinc.

**Self-Repairing** : Zinc oxides and carbonates migrate to the damaged area of the coating to actively repair the coating and restore barrier protection.



## Environmental Benefits Comply with the following regulation

- Environmental Protection Agency (EPA)
  - Occupational Safety & Health Administration (OSHA)
  - DaimlerChrysler CS-9003
  - General Motors GMW 3059
  - Ford WSS-M99P9999-A1
  - EU Directive on End of Life Vehicles
  - EU Directive on Electrical Equipment (RoHS)
- NO TOXIC METALS** | free of nickel, cadmium, lead, barium & mercury
- WATER BASED** | free from dangerous solvents
- VOC COMPLIANT** | under EPA RACT requirements

## Corrosion Resistance

**Salt Spray**-The **DACROMET** coating systems provide Salt Spray protection (per ASTM B-117/ISO 9227) in excess of 500 hours on threaded fasteners. With the addition of the PLUS sealers, protection exceeds 1000 hours.

The following pictures show a comparison of standard Zinc Plating and DACROMET

### DACROMET 320 L



1000 Hours Salt Spray

### Zinc Plating



## Functional Benefits

**Hydrogen Embrittlement Free Process** | coating application process does not require acid pickling or involve electroplating.

**Bimetallic Corrosion Resistant** | Aluminum flake eliminates the typical bimetallic cell of most zinc coating when mated with aluminum or steel.

**Solvent Resistant** | Inorganic nature caused it to be resistant to organic solvents.

**Heat resistant** | Maintains corrosion resistance even following a heat shock of 3 hrs @ 550 F(288C)

**Conductive** | Concentration of metallic flake allows an electrical current to be passed to the substrate.

# RUSPERT

**RUSPERT** metal finish is the metal surface processing technology of high grade anti-corrosion consisting of 1st layer; metallic zinc layer, 2nd layer, high grade anti-corrosion chemical conversion film, and 3rd layer, baked ceramic surface coating.

## Performance

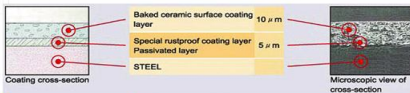
Test item	Test result	Test method
Hardness of paint film	Over 4H	Pencil hardness(peeling test)
Adhesion	Nothing abnormal	Peeling test by adhesive tape on cross scribed test piece in 1mm width
Acid resistance	Nothing abnormal	Immersion in 5% sulfuric acid solution for 24h
Alkali resistance	Nothing abnormal	Immersion in 5% sodium hydroxide solution for 72h
Heat resistance	Nothing abnormal	Exposure to 250 $\pm$ 1 heat for 1h
Accelerated weathering	Free from red rust	In sunshine weather-0-meter for 1000h
Contact corrosion to other metals	Obviously superior to galvanization ( colored chromating ) and hot dip galvanizing.	Corrosive investigation after Salt Mist Spray Test (JIS Z 2371) done comparatively on surface-treated steel bolts/nuts tightened on the stainless steel plate.

Type	Performance Color	Selection
RUSPERT type I	S.S.T. 500h DIN 50018(0.2L)15cycles	Silver . Grey . Black . Other colors
RUSPERT type II	S.S.T. 1000h DIN 50018(0.2L)15cycles	Silver . Grey . Black . Other colors
RUSPERT type III	S.S.T. 1000h DIN 50018(2.0L)15cycles	Grey . Black
RUSPERT on hot dip galvanizing	S.S.T. 1000h DIN 50018(0.2L)15cycles	Silver . Grey . Black . Other colors

The feature of RUSPERT is to join baked ceramic surface coating and chemical conversion film tightly together owing to bridging effect.

Furthermore, these layers are tightly joined together by means of chemical reactions, and such unique layer-combination brings stiff and fine combined coating films. RUSPERT treatment is not anti-corrosion by a single material, but by synergism of three layers, with which super rustproof quality is endowed.

## Coating and Rustproof Structure



Coating layer	Rustproof structure
Baked ceramic surface coating layer	Intrusion of corrosive factors is intercepted by the strong paint film made of ceramic materials.
Special rustproof coating layer	Intrusion of corrosive factors is intercepted by pliability of RUSPERT organic paint that follows the expansion/contraction of substrate materials and also by its strong adhesion to the zinc plated surface.
Passivated layer	Rustproof pigment contained in the RUSPERT paint produces an inactive film over the galvanized surface by chemical reaction. Thus, the galvanized surface is sufficiently passivated.

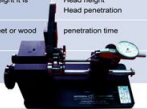


# Feature & Application



## QC EQUIPMENT

EQUIPMENT	FUNCTION	INSPECTION ITEMS
OPTICAL PROJECTOR	To inspect the dimensions for those are unable to measure by caliper	Thread angle Radius Thread point angle Countersunk angle
MIRCO-VICKERS HARDNESS FACILITY	Hardness test with microcamera	HV Hardness
ROCKWELL HARDNESS FACILITY	Hardness with ball/diamond loading	HRC/HRB Hardness
SALT SPRAY TEST MEASURER	Corrosive test by salt spray according to ASTM-B117	SALT SPRAY TEST HOURS
TORQUE WRENCH	To measure torque strength	Torsional strength
HEAD HEIGHT MEASURER	Easy way to measure head height it is hard to measure by caliper	Head height Head penetration
DRILLING PENETRATIVE MEASURER	The time to penetrate into sheet or wood	penetration time
UNIVERSAL TESTING MACHINE	PULL OUT TEST	



QC EQUIPMENT  
 OPTICAL PROJECTOR  
 TORQUE WRENCH  
 HEAD HEIGHT MEASURER  
 DRILLING PENETRATIVE MEASURER  
 UNIVERSAL TESTING MACHINE  
 SALT SPRAY TEST MEASURER  
 ROCKWELL HARDNESS FACILITY  
 MIRCO-VICKERS HARDNESS FACILITY

- 1 Torque Strength
- 2 Hardness Test (surface hardness, core hardness)
- 3 Product Quality Inspection Record
- 4 Drill-Drive Test
- 5 Material Test Certificate
- 6 Salt Spray Test



## Test Reporting

MASTERPIECE HARDWARE INDUSTRIAL CO., LTD.  
 No. 902, Jialian Rd., Hemei Town, Changshu County  
 Suzhou, P.R.C.  
 TEL: 86-4-7519835, 7519836 FAX: 86-4-7519887  
 DIMENSION CHECK REPORT (成品檢驗記錄表)

JCY

WORKING FILE NO. DCR070224

Order number 訂單號碼	Drawn 由誰	REV. NUMBER SELF DRILLING SCREW 自鑽螺絲	Rev. 版本
QUANTITY 數量	DATE 日期	Issue Date 出單日期	

DRAW: (圖符)



Inspect Item 項目	Standard 檢驗標準	Result after inspection 檢驗結果							
HEAD DIAMETER 頭部直徑	10.9-11.3	11.02	10.97	11.11	10.99	11.06	10.97	11.12	
HEAD HEIGHT 頭部高度	4.65	4.74	4.74	4.68	4.74	4.72	4.68	4.67	
MAJOR DIAMETER 螺紋直徑	7.6-8.0	7.77	7.77	7.77	7.76	7.78	7.80	7.76	
MINOR DIAMETER 螺紋底徑	>1.0	1.04	1.02	1.03	1.00	1.00	1.02	1.05	
THREAD DIAMETER 螺紋直徑	4.55-4.95	4.74	4.72	4.74	4.73	4.76	4.61	4.76	
SCREW LENGTH 螺絲長度	16-17	16.16	16.40	16.21	16.37	16.43	16.19	16.24	
DRILLING WIDTH 鑽孔直徑	3.7-4.10	3.87	3.89	3.87	3.85	3.87	3.87	3.85	
DRILLING LENGTH 鑽孔長度	6.0-7.4	6.66	6.65	6.78	7.06	6.77	6.87	6.95	
THREAD PITCH 螺紋螺距	1.58-1.6	V	V	V	V	V	V	V	
Strength 強度		V	V	V	V	V	V	V	
Surface 表面		V	V	V	V	V	V	V	
Color 顏色		V	V	V	V	V	V	V	
That pass on site 現場合格		V	V	V	V	V	V	V	
That pass in lab 實驗室合格		V	V	V	V	V	V	V	
Inspection 檢驗		V	Approval 合格	pass 合格	V	Non-approval 不合格	N		

Factory Director: [Signature] QC Number: 2518

2518 2008



# WARRANTY

## PRODUCT WARRANTY

**When** choosing Masterpiece Hardware Industrial Co., you can assured of a complete package of products and services dedicated to putting our customer first.

**All** product guarantee contained to this document are fully backed by independent test reports prepared by the Masterpiece Hardware Quality Assurance Department.

## SERVICE LEVEL COMMITMENT

**This** statement has been formulated to demonstrate the Masterpiece Hardware service Level Commitment to our customers. Our aim is to provide a comprehensive range of product guarantees supported by our unique Continuity of Supply guarantee.

## 20 YEAR CORROSION WARRANTY : SCREW IN DACROMAT FINISH



**The** protective coating of the standard screw in DACROMAT finish is covered by a conditional 20 year corrosion warranty from the date of purchase from Masterpiece Hardware Industrial Co.,

**In** the event of coating failure of the product within 20 year warranty period. Masterpiece Hardware will provide a free replacement

**The** warranty does not confer any rights other than those expressly set out above and does not cover any claims for any other direct or consequential loss or damage, however caused.

## CONDITIONS APPLYING TO MASTERPIECE HARDWARE GUARANTEES

- 1) The customer must supply proof of the date of purchase of the products concerned.
- 2) The guarantee shall not apply to any product which has been incorrectly fitted.
- 3) The guarantee shall not apply to products which has been misused, abused or subject to forces and stresses which are beyond those which are usual for the normal operation of the product.
- 4) Masterpiece Hardware is responsible for the replacement defective products only. Claim for any other or consequential loss or damage will not be acceptd, however caused.
- 5) Masterpiece Hardware reserves the right to refund the original price of the product or provide a free replacement product.

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you won't find elsewhere  
Tailor-made to your  
specification

Masterpiece Hardware  
Industrial Co., Ltd.

JCY



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