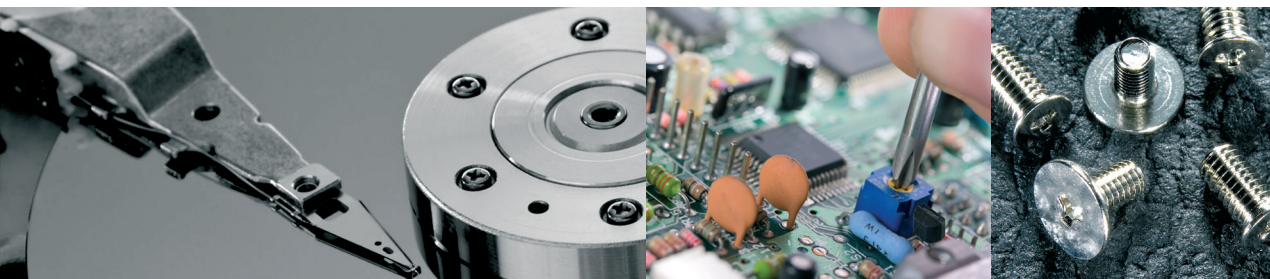


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micro screws

micro screws



Welcome to Japanese screws. We supply a wide range of micro screws and are now firmly established as one of the leading global suppliers of tiny fastenings. If it's a standard or special screw then we can offer the fasteners you need for micro or nano manufacture.



Product Range

Micro screws to JIS standard in a range of Pan and Countersunk head styles.

- 1) **Machine screws** (see pages 4/5)
- 2) **Type P thread forming screws** for plastic applications. These threads cover most application needs with normal cross recess. We do, however, offer **QuaStix** and **MicroStix** recess which offer "no cam out" for the volume user. (see page 6)
- 3) **Type B thread forming screws** for metal & plastic applications (see page 7)
- 4) **Type S thread forming screws** for metal applications (see page 7)
- 5) **Screw and washer assemblies** (SEMS) with plain washers, spring washers or both.

Materials

Steel, Stainless Steel, Titanium, Brass, Aluminium and Gunmetal. We also offer case hardened screws for extra strength.

Plating finishes

Zinc Cr3 in clear, black, red, yellow, green and purple, Black nickel, Bright nickel & Chrome
All our plating finishes are REACH & RoHS compliant
Coloured screws can help stop your assembly staff using the wrong screw size.

Technical support

Design and development back up available with a full engineering test centre in the UK.
Our trained engineers, with many years experience, can help specify the correct screw for your application.



“Our commitment is to supply top quality micro screws in a short lead time at a competitive price throughout the world. Our engineers offer the technical support and design services to specify the correct screw for every application.”

QuaStix and MicroStix are a registered trademark of:

OSG SYSTEM PRODUCTS CO.,LTD.
オーエスジーシステムプロダクツ株式会社

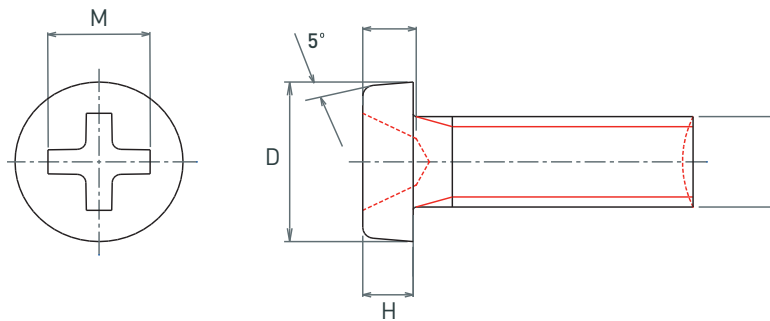




**Cross recess No.0
Pan head machine screws**

A precision machine screw, made in metric diameters, from as small as M0.8 & with thread lengths from 1.4 mm.

Also available in *QuaStix* and *microstix* 'no cam out recess'.



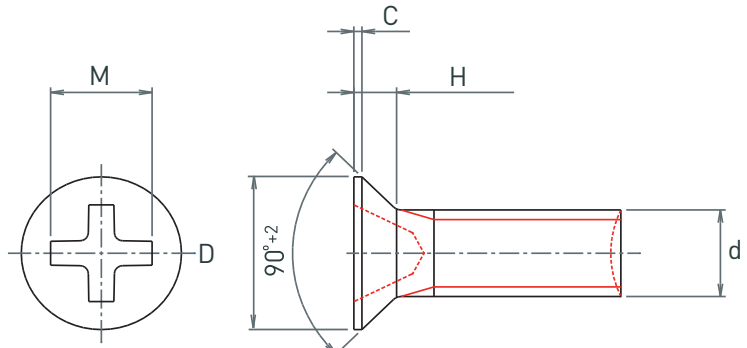
Head type	d	Pitch	D			H		M		Recess Penetration	
			Nom	Max	Min	Nom	Max	Min	Max	Min	Max
Type 1	M1.2	0.25	1.80	1.85	1.70	0.50	0.55	0.45	(1.30)	(1.25)	(0.39)
	M1.4	0.30	2.00	2.05	1.90	0.50	0.55	0.45	1.55	1.45	0.74
	M1.6	0.35	2.40	2.40	2.26	0.55	0.55	0.45	1.65	1.55	0.84
	M1.7	0.35	2.50	2.55	2.40	0.50	0.55	0.45	1.70	1.55	0.89
	M2.0	0.40	3.00	3.05	2.80	0.60	0.68	0.52	2.00	1.85	1.21
	M2.3	0.40	3.50	3.55	3.30	0.70	0.78	0.62	2.20	2.00	1.41
Type 2	M2.6	0.45	4.00	4.05	3.80	0.80	0.88	0.72	2.20	2.00	1.41
	M1.2	0.25	2.30	2.35	2.20	0.50	0.55	0.45	(1.30)	(1.25)	(0.39)
	M1.4	0.30	2.50	2.55	2.40	0.50	0.55	0.45	1.55	1.45	0.74
	M1.6	0.35	2.80	2.80	2.66	0.55	0.55	0.45	1.65	1.55	0.84
	M1.7	0.35	3.00	3.05	2.90	0.50	0.55	0.45	1.70	1.55	0.89
	M2.0	0.40	3.50	3.55	3.30	0.60	0.68	0.52	2.00	1.85	1.21
Type 3	M2.3	0.40	4.00	4.05	3.80	0.70	0.78	0.62	2.20	2.00	1.41
	M2.6	0.45	4.50	4.55	4.30	0.80	0.88	0.72	2.20	2.00	1.41
	M1.2	0.25	2.30	2.35	2.20	0.70	0.75	0.65	(1.50)	(1.45)	(0.58)
	M1.4	0.30	2.50	2.55	2.40	0.80	0.85	0.75	1.65	1.50	0.84
	M1.6	0.35	2.80	2.80	2.66	0.85	0.85	0.75	1.80	1.65	1.00
	M1.7	0.35	3.00	3.05	2.90	0.90	0.95	0.85	1.90	1.75	1.10
	M2.0	0.40	3.50	3.55	3.30	1.00	1.08	0.92	2.10	1.95	1.31
	M2.3	0.40	4.00	4.05	3.80	1.10	1.18	1.02	2.20	2.00	1.41
	M2.6	0.45	4.50	4.55	4.30	1.20	1.28	1.12	2.20	2.00	1.41

Note : Figures in bracket are for reference only.
Unit : mm

**Cross recess No.0
Countersunk head machine screws**

A precision machine screw, made in metric diameters, from as small as M0.8 & with thread lengths from 1.4 mm.

Also available in *QuaStix* 'no cam out recess'.



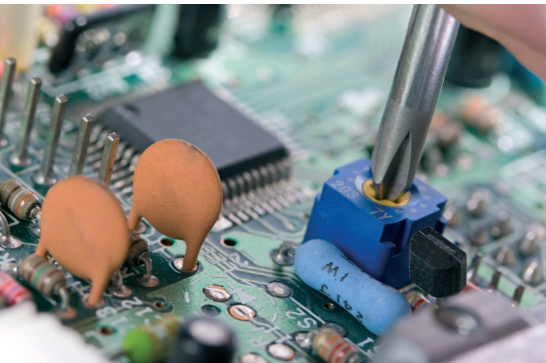
Head type	Dia.	Pitch	D			H		M		Recess Penetration	
			Nom	Max	Min	Nom	Max	Min	Max	Min	Max
Type 1	M1.2	0.25	1.80	1.85	1.70	0.40	0.40	0.35	(1.30)	(1.25)	(0.39)
	M1.4	0.30	2.00	2.05	1.90	0.45	0.45	0.40	1.55	1.45	0.74
	M1.6	0.35	2.40	2.40	2.26	0.50	0.50	0.40	1.65	1.55	0.84
	M1.7	0.35	2.50	2.55	2.40	0.50	0.50	0.45	1.70	1.55	0.89
	M2.0	0.40	3.00	3.05	2.80	0.60	0.60	0.52	2.00	1.85	1.21
	M2.3	0.40	3.50	3.55	3.30	0.70	0.70	0.62	2.20	2.00	1.41
Type 3	M2.6	0.45	4.00	4.05	3.80	0.80	0.80	0.72	2.20	2.00	1.41
	M1.2	0.25	2.30	2.35	2.20	0.65	0.65	0.60	(1.50)	(1.45)	(0.58)
	M1.4	0.30	2.50	2.55	2.40	0.70	0.70	0.65	1.65	1.50	0.84
	M1.6	0.35	2.80	2.80	2.66	0.80	0.80	0.75	1.80	1.65	1.00
	M1.7	0.35	3.00	3.05	2.90	0.80	0.80	0.75	1.90	1.75	1.10
	M2.0	0.40	3.50	3.55	3.30	0.90	0.90	0.82	2.10	1.95	1.31
	M2.3	0.40	4.00	4.05	3.80	1.00	1.00	0.92	2.20	2.00	1.41
	M2.6	0.45	4.50	4.55	4.30	1.10	1.10	1.02	2.20	2.00	1.41

Note : Figures in bracket are for reference only.
Unit : mm

**Production range of thread length
(Ref. for Pan & Countersunk Machine screws)**

Thread type	Thread Dia.	Min. length	Max. length
Metric	M1.4	1.4	10
	M1.7	1.6	12
	M2.0	1.8	14
	M2.6	2	16
	M3.0	2.2	18



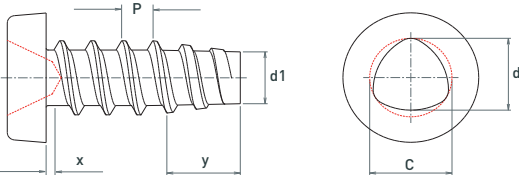


Tapping thread, triangular. Type P

Available in the same head sizes as Pan and Csk. machine screws.

This thread works well into most plastic applications and is case hardened to offer high strength at small diameters.

With JCIS cross recess No.0



Production range of thread length

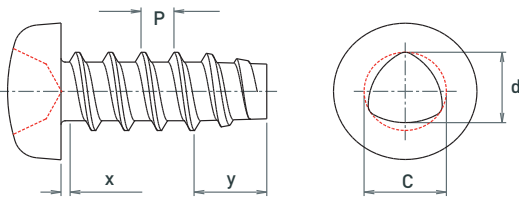
(Ref. for P Type Thread forming screws)

Thread type	Thread Dia.	Min. length	Max. length
Metric	M1.4	3.5	8
	M1.7	4	12
	M2.0	4.5	14
	M2.6	5.5	16
	M3.0	6.5	18

	Nominal	Pitch	C		d		dI
	Dia	(ref)	Max	Min	Max	Min	Max
Standard pitch	1.4	0.50	1.46	1.40	1.40	1.34	0.95
	1.6	0.64	1.66	1.60	1.60	1.54	1.08
	1.7	0.64	1.76	1.70	1.69	1.63	1.18
	2.0	0.79	2.12	2.02	2.04	1.94	1.57
Special wide pitch	1.4	0.61	1.46	1.40	1.40	1.34	0.95
	1.7	0.74	1.76	1.70	1.69	1.63	1.18
	2.0	0.84	2.12	2.02	2.04	1.94	1.57

$x = \max 2 \text{ pitch} \quad / \quad y = \max 2.5 \text{ pitch}$

With JCIS cross recess No.1

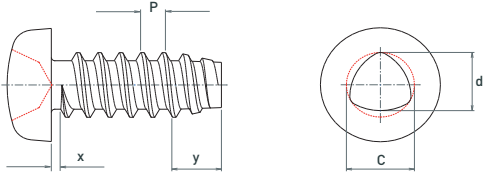
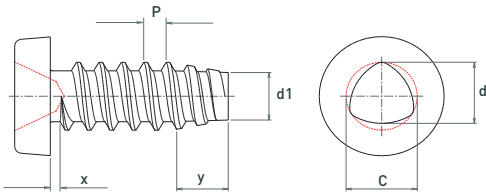


	Nominal	Pitch	Major dia.		Length of guide	
	Dia	(ref)	c	d	y	
Standard pitch	2.0	0.79	2.12	2.02	2.04	1.99
	2.3	0.91	2.43	2.33	2.35	2.27
	2.5	1.06	2.63	2.53	2.54	2.44
	2.6	1.06	2.73	2.63	2.64	2.54
Special wide pitch	3.0	1.27	3.15	3.03	3.05	2.93
	2.0	0.84	2.12	2.02	2.04	1.94
	2.3	0.95	2.43	2.33	2.35	2.25
	2.5	1.12	2.63	2.53	2.54	2.44
	2.6	1.12	2.73	2.63	2.64	2.54
	3.0	1.34	3.15	3.03	3.05	2.93

Tapping thread, triangular. Type B

Available in the same head sizes as Pan and Csk. machine screws.

This thread works well into most metal & plastic applications and is case hardened to offer high strength at small diameters.



Production range of thread length

(Ref. for B Type Thread forming screws)

Thread type	Thread Dia.	Min. length	Max. length
Metric	M1.4	2.6	8
	M1.7	2.8	12
	M2.0	3.4	14
Metric	M2.6	4.5	16
	M3.0	5.2	18

With JCIS cross recess No.0

Nominal dia	Pitch	c		d		dI
		Max	Min	Max	Min	Max
1.4	0.45	1.43	1.37	1.37	1.31	1.06
1.6	0.50	1.63	1.57	1.56	1.50	1.19
1.7	0.50	1.73	1.67	1.66	1.60	1.29
2.0	0.64	2.04	1.96	1.96	1.88	1.54

$x = \max 2 \text{ pitch} \quad / \quad y = \max 2.5 \text{ pitch}$

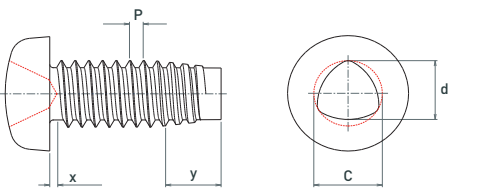
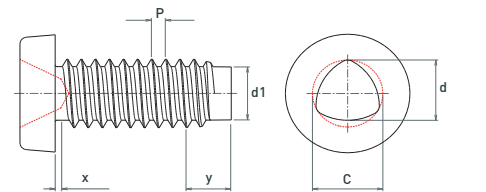
With JCIS cross recess No.1

Nominal	Pitch	Major dia		Length of guide	
Dia	(ref)	c	d	y	
Metric	2.0	2.04	1.96	1.96	1.88
	2.3	2.34	2.26	2.26	2.18
	2.6	2.64	2.56	2.55	2.47
	3.0	3.05	2.95	2.95	2.85

Tapping thread, triangular. Type S

Available in the same head sizes as Pan and Csk. machine screws.

This thread taps a metric thread into a plain hole in metal, saving tapping costs, and is case hardened to offer high strength at small diameters.



Production range of thread length

(Ref. for S Type Thread forming screws)

Thread type	Thread Dia.	Min. length	Max. length
Metric	M1.4	2	8
	M1.7	2.2	12
	M2.0	2.4	14
Metric	M2.6	2.6	16
	M3.0	2.8	18

With JCIS cross recess No.0

Nominal dia	Pitch	c		d		dI
		Max	Min	Max	Min	Max
1.4	0.30	1.43	1.37	1.37	1.31	1.06
1.6	0.35	1.63	1.57	1.56	1.50	1.19
1.7	0.35	1.73	1.67	1.66	1.60	1.29
2.0	0.40	2.04	1.96	1.96	1.88	1.54

$x = \max 2 \text{ pitch} \quad / \quad y = \max 4.5 \text{ pitch}$

With JCIS cross recess No.1

Nominal	Pitch	Major dia		Length of guide	
Dia	(ref)	c	d	y	
Metric	2.0	2.04	1.96	1.96	1.88
	2.3	2.34	2.26	2.26	2.18
	2.5	2.55	2.47	2.46	2.38
	2.6	2.65	2.57	2.56	2.48
3.0	0.50	3.05	2.97	2.95	2.87

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