KAT

Precision Work on CNC Wire Cut & VMC.
All Type of Dies & Mould & Tools Mfg.
Mfg. CNC Machine Tools Part.

About us

Web : www.chankayaeng.com

KAT Punch are produced in specialized plants where the most modern equipments are used and computer control system performs perfect quality, production and inventory control. this high quality and extensive product lines have earned the trust and admiration of the world.

Another big advantage is that KAT provides prompt and delivery at any time.

In addition to the world's representative screw standards ANSI, DIN, BS, JIS, NHK, can supply special punches in accordance punches, plug gauges, Q-check gauges, etc.

In Order to be competitive, prices of standard punches have been reduced and maintained to the minimum level while prices for spacial punches are quoted as spacial ones.

SCREW SECOND PUNCH

A: **ANSI** American National Standards Institute
JIS Japanese Industrial Standards
DIN Deutshe Industrie-Normen
ISO International Standardination Organization
BS British Standards
GB

B: **(HEAD)** **(BINDING) (BUTTON) (BRAZIER) (FLAT) (OVAL) (PAN) (ROUND) (TRUSS)**

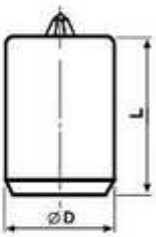
C: **(DRIVER)** **(PHILLIPS)** ⊕ **(POZIDRIV)** ⊛ **(SLOTTED)** ⊖ **(TRIANGLE)** △
(SQUARE) ⊡ **(HEX.)** ◎ **(SOX-LOBE)** ◎ **(TRI-WING)** ⊛

PUNCH SPACIFICATION

J M P ⊕ M30 x ∅12 TIN

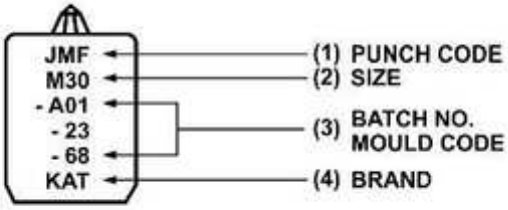
① ② ③ ④ ⑤ ⑥ ⑦

① INTERNATIONAL STANDARD	② SCREW USING	③ HEAD
J : JIS A : ANSI D : DIN I : ISO	M : MACHINE SCREW T : TAPPING SCREW W : WOOD SCREW	F : FLAT P : PAN T : TRUSS B : BINDING V : BRAZIER O : OVAL R : ROUND
④ DRIVER	**⑤ SPACIFICATION**	**⑥ DIA**
⊖ : SLOT ⊕⊖ : COMBINATION ⊛ : POZI T20 : TROX S : S-TYPE H : HAX	JIS : M20 M23 M26..... ANSI : #2 #4 #6 #6..... DIN : M20 M22 M29.....	**∅12、∅14、∅18、∅23、∅30** **⑦ SPACIAL COATING** Tin, TiCN, TiALN, CrN, WC/C, ALCRONA, Tix



a. (∅D) **∅12、∅14、∅18、∅23、∅30mm。**

b. (L) : 25mm。



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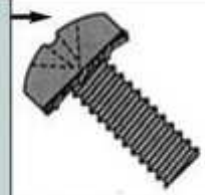
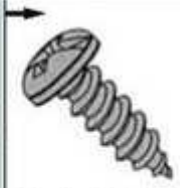
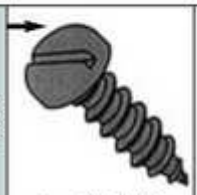
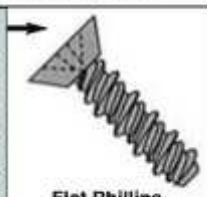
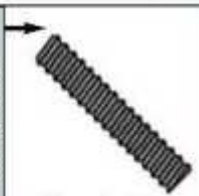
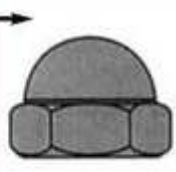
Fastener Selection Guide
Pictorial Table of Fasteners

Machine Screws				
Combination	Flat Phillips	Oval Phillips	Pan Phillips	Round Phillips
Truss Phillips	Flat Phillips Undercut	Flat Slotted	Fillister Slotted	Oval Slotted
Pan Slotted	Round Slotted	Truss Slotted	Flat Slotted Undercut	Indented Hex Slotted
Indented Hex Unslotted	Indented Hex Washer Slotted	Indented Hex Washer Unslotted	Pan Torx	Sems  Pan Phillips External
Pan Slotted External	Pan Phillips Internal	Pan Slotted Internal	Stainless Steel Sems Pan Phillips External	Self Tapping Screws  Pan Combination A
Flat Phillips A	Oval Phillips A	Pan Phillips A	Truss Phillips A	Flat Slotted A

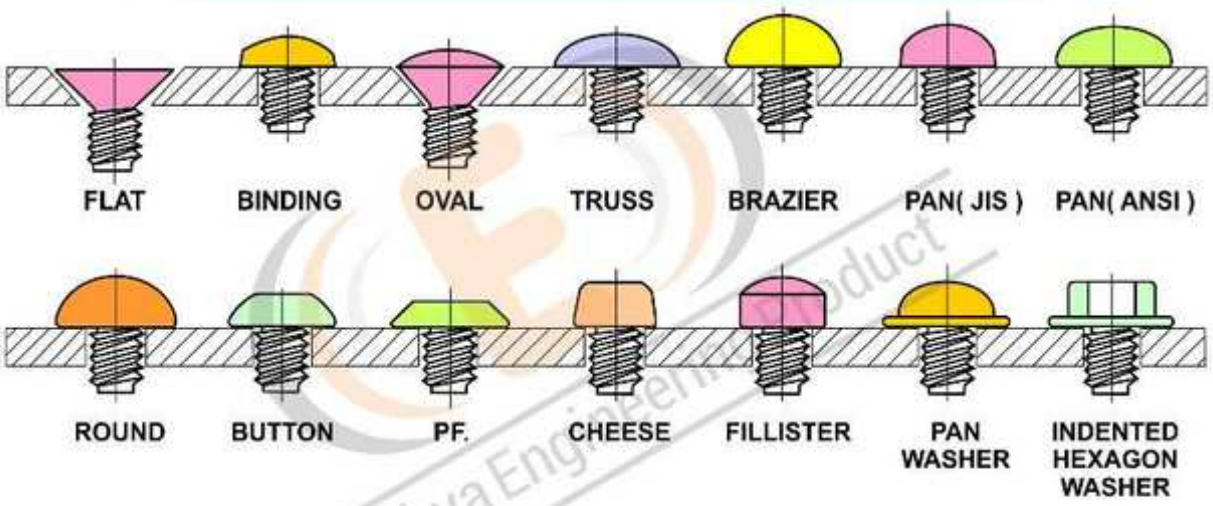
Fastener Selection Guide
Pictorial Table of Fasteners

Self Tapping Screws (cont)	 Pan Slotted A	Indented Hex Unslotted A	Serrated Indented Hex Washer Slotted AB	Indented Hex Washer Slotted A	Indented Hex Washer Unslotted A
Indented Hex Washer Slotted	Flat Square Recess A	Pan Square Recess A	Genuine Torx Pan AB	Flat Phillips B
Pan Phillips B	Truss Phillips B	Pan Slotted B	Indented Hex Washer Slotted B	Indented Hex Washer Unslotted B
High-Low Screws  Flat Phillips High-Low	Pan Phillips High-Low	Indented Hex Washer Unslotted High-Low	Thread Cutting Type F Flat Phillips	Pan Phillips
Pan Slotted	Indented Hex Washer Slotted	Indented Hex Washer Unslotted	Torx Floorboard	Stainless Type F Flat Phillips
Pan Phillips	Flat Phillips	Pan Phillips	Pan Slotted	Indented Hex Washer Slotted

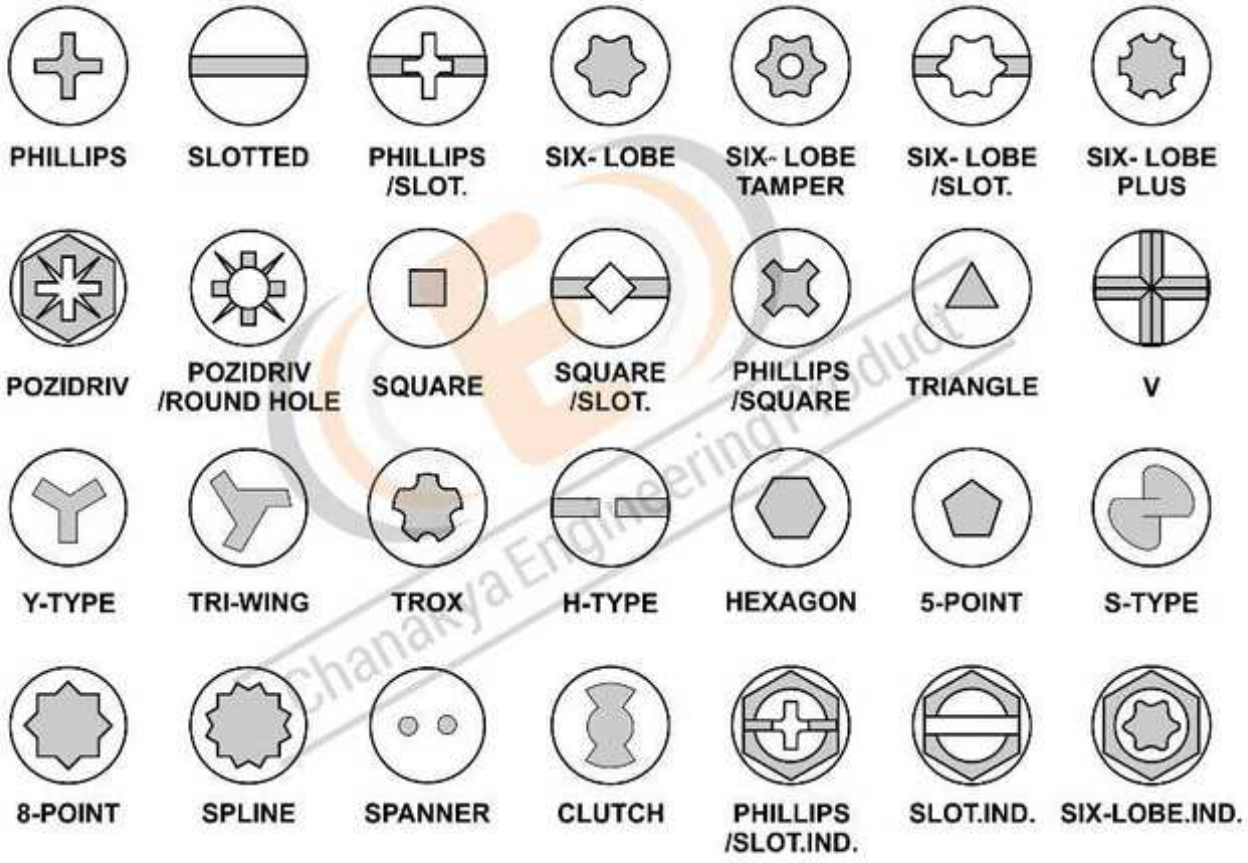
Fastener Selection Guide
Pictorial Table of Fasteners

Stainless Type F (cont)	Thread Cutting Type 23			
Indented Hex Washer Unslotted	Flat Phillips	Pan Phillips	Pan Slotted	Indented Hex Washer Slotted
Indented Hex Washer Unslotted	Flat Phillips	Pan Phillips	Pan Slotted	Indented Hex Washer Slotted
Indented Hex Washer Unslotted	Cap Screws, Bolts Hex Cap Grade 2	Hex Cap Grade 5	Hex Cap Grade 8	Carriage Bolts
Grade 5 Carriage Bolts	Grade 8 Alloy Frame	Flat Head Slotted Cap	Serrated Hex Washer Flange	Elevator Bolts
Hanger Bolts	Dowel Screws	Hex Lag	Grade 2 Hex Tap	Hex Tap Grade 5
Grade 5 Plow #3 Head	Grade 8 Plow #3 Head	Step Bolts	Threaded Rod  Threaded Rod	Nuts  Cap Nut

SCREW HEAD STYLES



SCREW DRIVERS



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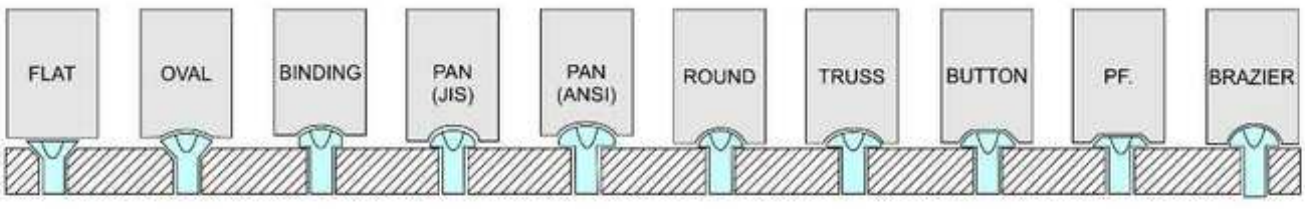
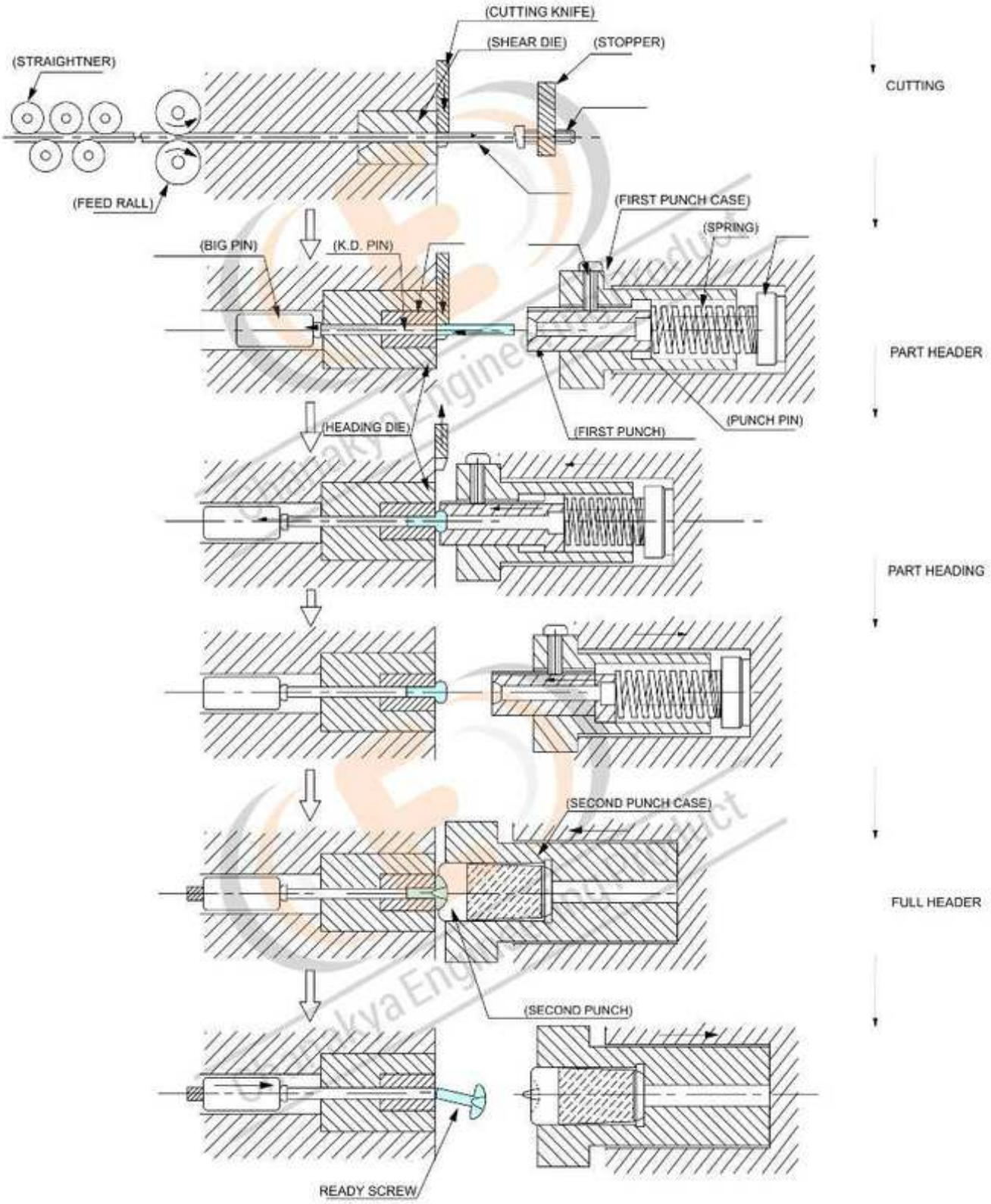
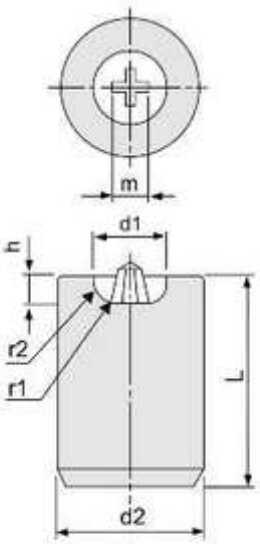
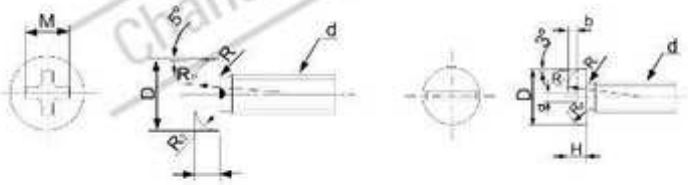



(CUTTING KNIFE)
(SHEAR DIE)
(STOPPER)
(STRAIGHTNER)
(FEED RALL)
(FIRST PUNCH CASE)
(SPRING)
(BIG PIN)
(K.D. PIN)
(HEADING DIE)
(FIRST PUNCH)
(PUNCH PIN)
(SECOND PUNCH CASE)
(SECOND PUNCH)
READY SCREW
CUTTING
PART HEADER
PART HEADING
FULL HEADER

JMP (JIS PAN HEAD MACHINE & TAPPING SCREW)

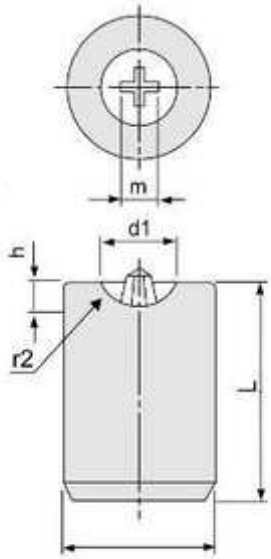
(D)	D Size	D Tol.	H Size	H Tol.	R1	R2	a Size	a Tol.	b Size	b Tol.	R	M	Q Max.	Q Min.	
M1	2	0 -0.3	0.65	±0.1	3	0.3	0.32	+0.1 0	0.3	±0.05	0.1				
M1.2	2.3		0.8		3.5	0.4	0.32		0.4		0.1				
M1.4	2.6	0 -0.4	0.9		3.7	0.5	0.32		0.5	± 0.1	0.1				
M1.6	3		1		4	0.5	0.4	+0.15 0	0.55		0.1				
M1.7	3.2		1.1		4.2	0.6	0.4		0.6		0.1				
M2	3.5		1.3		4.5	0.7	0.6		0.7		0.1	2.2	1.01	0.60	JMP M2.0
M2.2	4		1.5		5	0.8	0.6		0.8		0.1	2.4	1.21	0.80	JMP M2.3
M2.3	4		1.5		5	0.8	0.6		0.8		0.1	2.4	1.21	0.80	JMP M2.3
M2.5	4.5		1.7		6	0.9	0.8		0.9	±0.15	0.1	2.6	1.42	1.00	JMP M2.6
M2.6	4.5		1.7		6	0.9	0.8		0.9		0.1	2.6	1.42	1.00	JMP M2.6
M3	5.5	0 -0.5	2	±0.15	7	1.1	0.8		1.1		0.1	3.5	1.43	0.86	JMP M3.0
M3.5	6		2.3		8	1.3	1		1.25	±0.2	0.1	3.8	1.73	1.15	JMP M3.5
M4	7		2.6		9	1.5	1		1.4		0.2	4.1	2.03	1.45	JMP M4.0
M4.5	8	0 -0.6	2.9		11	1.7	1		1.6	±0.25	0.2	4.5	2.43	1.84	JMP M4.5
M5	9		3.3		12	1.9	1.2		1.8	±0.3	0.2	4.8	2.73	2.14	JMP M5.0
M6	10.5	0 -0.7	3.9	±0.2	14	2.3	1.2	+0.2 0	2.1		0.25	6.2	2.86	2.26	JMP M6.0
M8	14	0 -0.8	5.2		18	3	1.6		2.8	±0.5	0.4	7.7	4.36	3.73	JMP M8.0

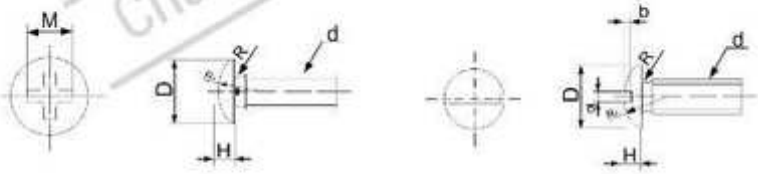




JMT (JIS TRUSS HEAD MACHINE & TAPPING SCREW)

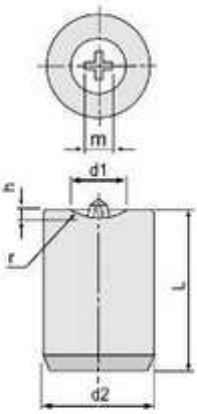
(D)	D Size	D Tol.	H Size	H Tol.	R1	a Size	a Tol.	b Size	b Tol.	R	M	Q		
M2	4.5	0 -0.4	1.2	± 0.1	3	0.6	+ 0.15 0	0.6	± 0.1	0.1	2.2	1.01	0.65	JMT M2.0
M2.2	5		1.3		3.2	0.6		0.65		0.1	2.3	1.11	0.75	JMT M2.2
M2.3	5.2		1.4		3.4	0.6		0.7		0.1	2.4	1.21	0.85	JMT M2.3
M2.5	5.7		1.5		3.7	0.8		0.75		0.1	2.5	1.32	0.95	JMT M2.5
M2.6	5.9		1.6		3.9	0.8		0.8		0.1	2.6	1.42	1.05	JMT M2.6
*M3	6.9	0 -0.5	1.9	± 0.15	4.6	0.8		0.95	± 0.15	0.1	2.9	1.72	1.34	JMT M3.0(PH#1)
M3	6.9		1.9		4.6	0.8		0.95		0.1	3.6	1.55	1.05	JMT M3.0
M3.5	8.1		2.2		5.4	1		1.1		0.1	3.9	1.83	1.30	JMT M3.5
M4	9.4		2.5		6.1	1		1.25	± 0.2	0.2	4.2	2.13	1.60	JMT M4.0
M4.5	10.6	0 -0.6	2.8		6.9	1		1.4		0.2	4.6	2.53	1.99	JMT M4.5
M5	11.8		3.1		7.7	1.2	+ 0.2 0	1.6	+0.25	0.2	4.9	2.83	2.29	JMT M5.0
M6	14	0 -0.7	3.7	± 0.2	9.1	1.2		1.9	+0.3	0.25	6.2	2.86	2.31	JMT M6.0
M8	17.8	0 -0.8	4.8		11.7	1.6		2.4	±0.4	0.4	7.7	4.36	3.78	JMT M8.0

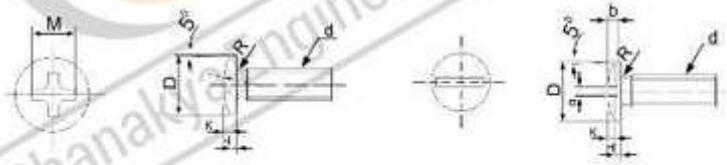




JMB (JIS BINDING HEAD MACHINE & TAPPING SCREW)

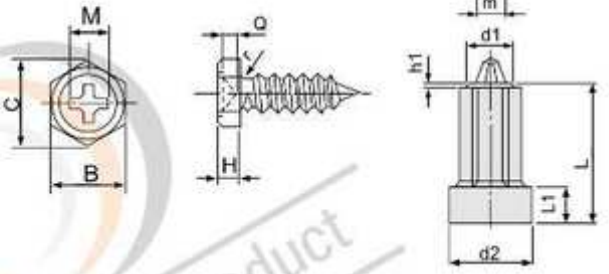
(D)	D Size	D Tol.	H	K Size	K Tol.	H+K Size	H+K Tol.	a Size	a Tol.	b Size	b Tol.	R	M	Q Max.	Q Min.	
M2	4.3		0.85	0.35		1.2		0.6		0.65		0.1	2.2	1.01	0.65	JMB M2.0
M2.2	4.7		0.9	0.4	±0.1	1.3	±0.15	0.6		0.7	±0.1	0.1	2.3	1.11	0.75	JMB M2.2
M2.3	4.9	0 -0.4	1	0.4		1.4		0.6		0.7		0.1	2.4	1.21	0.85	JMB M2.3
M2.5	5.3		1	0.5		1.5		0.8		0.8		0.1	2.5	1.32	0.95	JMB M2.5
M2.6	5.5		1.1	0.5		1.6		0.8	+0.15 0	0.85	±0.15	0.1	2.6	1.42	1.05	JMB M2.6
M3	6.3	0 -0.5	1.3	0.6		1.9		0.8		1		0.1	3.6	1.53	1.01	JMB M3.0
M3.5	7.3		1.5	0.7	±0.15	2.2	±0.2	1		1.15	±0.2	0.1	3.9	1.83	1.30	JMB M3.5
M4	8.3		1.7	0.8		2.5		1		1.3		0.2	4.2	2.13	1.60	JMB M4.0
M4.5	9.3	0 -0.6	1.9	0.9		2.8		1		1.5	±0.25	0.2	4.6	2.53	1.99	JMB M4.5
M5	10.3		2.1	1		3.1		1.2		1.7		0.2	4.9	2.83	2.29	JMB M5.0
M6	12.4	0 -0.7	2.4	1.3		3.7		1.2	+0.2 0	2	±0.3	0.25	6.2	2.86	2.31	JMB M6.0
M8	16.4	0 -0.8	3.1	1.7	±0.2	4.8	±0.3	1.6		2.8	±0.5	0.4	7.7	4.36	3.78	JMB M8.0





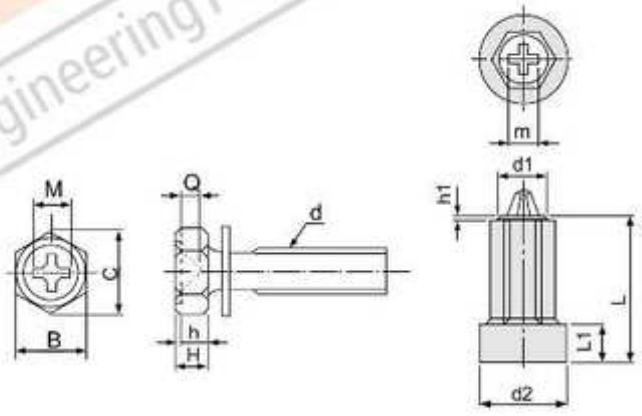
IND (JIS B1123)

		3	3.5	4	4.5	5	6	8
B		5	5.5	7		8	10	12
		0 -0.2						0 -0.25
C		5.5	6.05	7.7		8.7	10.9	13.1
H		1.6	2.3	2.5	2.7	3	3.5	5
		±0.1					±0.15	
r		0.4		0.5		0.6	0.7	0.9
M		2.5	3.5	4	4.2	4.4	6.2	7.2
Q		1.32	1.43	1.93	2.13	2.33	2.86	3.86
		0.95	0.91	1.40	1.59	1.80	2.30	3.20
		1	2				3	
		INDM3	IND M3.5	IND M4	IND M4.5	IND M5	IND M6	IND M8



SP IND (JIS B1187)

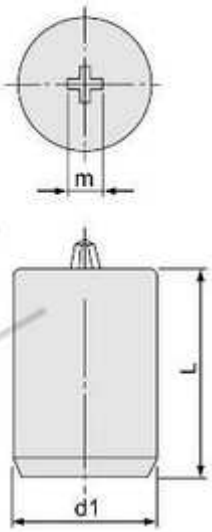
		M 4X0.7 –	M5X0.8 –	M 6 –	M 8 M8X1
H		2.8+0.1	3.5+0.15	4+0.15	5.5+0.15
B		7 0 -0.2	8 0 -0.2	10 0 -0.2	12 0 -0.25
C( )		7.74	8.87	11.05	13.25
h( )		1.9	2.3	2.7	3.7
		2	2	3	3
	M	4.0	4.8	6.2	7.2
	Q	1.93~1.40	2.73~2.19	2.86~2.31	3.86~3.24
		SP IND M4	SP IND M5	SP IND M6	SP IND M8

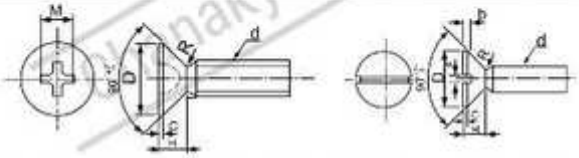


Chanakya Engineering Product

JMF (JIS FLAT HEAD MACHINE & TAPPING SCREW)

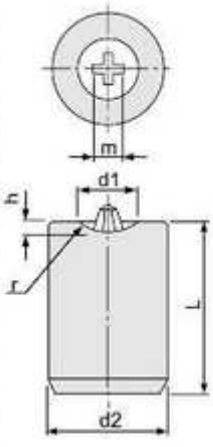
(D)	D Size	D Tol.	H Size	H Tol.	c	a Size	a Tol.	b Size	b Tol.	R	M	Q Size	Q Tol.	
M1	2	0 -0.3	0.6	0 -0.1	0.1	0.32	+0.1 0	0.25	±0.05	0.1				
M1.2	2.4		0.7		0.1	0.32		0.3		0.12				
M1.4	2.8		0.85		0.15	0.32		0.3		0.14				
M1.6	3.2	0 -0.4	0.95	0 -0.2	0.15	0.4	+0.15 0	0.35	±0.1	0.16				
M1.7	3.4		1		0.15	0.4		0.4		0.17				
M2	4		1.2		0.2	0.6		0.5		0.2	2.2	1.01	0.65	JMF M2.0
M2.2	4.4		1.3		0.2	0.6		0.5		0.22	2.4	1.21	0.85	JMF M2.2
M2.3	4.6		1.35		0.2	0.6		0.5		0.23	2.4	1.21	0.85	JMF M2.3
M2.5	5		1.45		0.2	0.8		0.6		0.25	2.6	1.42	1.05	JMF M2.5
M2.6	5.2		1.5		0.2	0.8		0.6		0.26	2.6	1.42	1.05	JMF M2.6
M3	6	0 -0.5	1.75	0 -0.3	0.25	0.8		0.7	±0.15	0.3	3.5	1.43	0.91	JMF M3.0
M3.5	7		2		0.25	1		0.8		0.35	4.0	1.93	1.40	JMF M3.5
M4	8		2.3		0.3	1		0.9		0.4	4.4	2.33	1.79	JMF M4.0
M4.5	9	0 -0.6	2.55		0.3	1		1	±0.2	0.45	4.8	2.73	2.19	JMF M4.5
M5	10		2.8		0.3	1.2	+0.2 0	1.1		0.5	5.0	2.93	2.38	JMF M5.0
M6	12	0 -0.7	3.4	0 -0.4	0.4	1.2		1.4	±0.25	0.6	6.6	3.26	2.70	JMF M6.0
M8	16	0 -0.8	4.4		0.4	1.6		1.8	+0.3	0.8	8.3	4.96	4.36	JMF M8.0

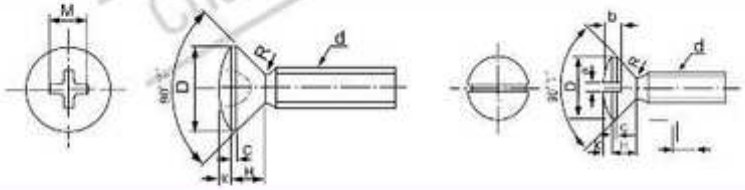




JMO (JIS OVAL HEAD MACHINE & TAPPING SCREW)

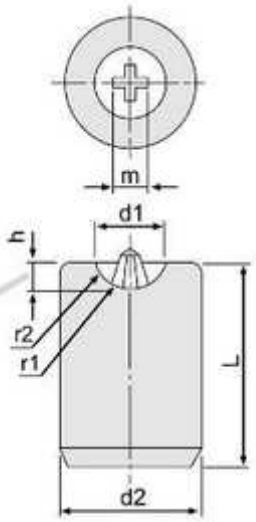
(D)	D Size	D Tol.	H Size	H Tol.	c	k	H+K Size	H+K Tol.	a Size	a Tol.	b Size	b Tol.	R	M	Q Max.	Q Min.	
M1	2	0 -0.3	0.6	0 -0.1	0.1	0.2	0.8	0 -0.2	0.32	+0.1 0	0.35	±0.1	0.1				
M1.2	2.4		0.7		0.1	0.3	1	0 -0.3	0.32		0.45		0.12				
M1.4	2.8		0.85		0.15	0.3	1.15		0.32		0.5		0.14				
M1.6	3.2	0 -0.4	0.95	0 -0.2	0.15	0.35	1.3	0 -0.4	0.4	+0.15 0	0.55	±0.15	0.16				
M1.7	3.4		1		0.15	0.4	1.4		0.4		0.6		0.17				
M2	4		1.2		0.2	0.4	1.6		0.6		0.7		0.2	2.4	1.21	0.85	JMO M2.0
M2.2	4.4		1.3		0.2	0.5	1.8		0.6		0.8		0.22	2.7	1.52	1.14	JMO M2.2
M2.3	4.6		1.35		0.2	0.5	1.85		0.6		0.8		0.23	2.7	1.52	1.14	JMO M2.3
M2.5	5		1.45		0.2	0.55	2		0.8		0.9		0.25	2.9	1.72	1.34	JMO M2.5
M2.6	5.2		1.5		0.2	0.6	2.1		0.8		0.9		0.26	2.9	1.72	1.34	JMO M2.6
M3	6	0 -0.5	1.75	0 -0.3	0.25	0.7	2.45	0 -0.5	0.8		1.1	±0.2	0.3	3.7	1.63	1.11	JMO M3.0
M3.5	7		2		0.25	0.8	2.8		1		1.2		0.35	4.2	2.13	1.60	JMO M3.5
M4	8		2.3		0.3	0.9	3.2		1		1.4	±0.25	0.4	4.6	2.53	1.99	JMO M4.0
M4.5	9	0 -0.6	2.55		0.3	1	3.55		1		1.5	±0.3	0.45	5.0	2.93	2.38	JMO M4.5
M5	10		2.8		0.3	1.2	4		1.2		1.7		0.5	5.2	3.13	2.58	JMO M5.0
M6	12	0 -0.7	3.4	0 -0.4	0.4	1.4	4.8	0 -0.6	1.2	+0.2 0	2.1	±0.4	0.6	6.8	3.46	2.90	JMO M6.0
M8	16	0 -0.8	4.4		0.4	1.8	6.2		1.6		2.7	±0.5	0.8	8.5	5.16	4.56	JMO M8.0

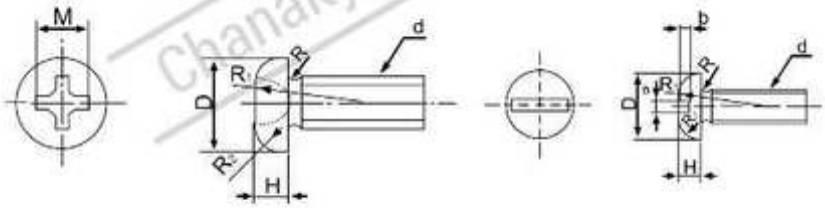




JMR (JIS ROUND HEAD MACHINE & TAPPING SCREW)

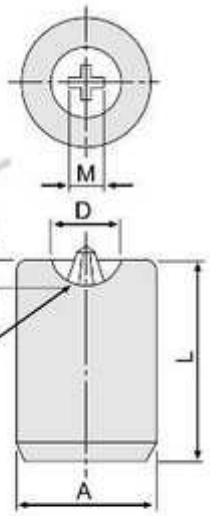
(d)	D Size	D Tol.	H Size	H Tol.	R1	R2	a Size	a Tol.	b Size	b Tol.	R	M	Q Max.	Q Min.	
M1	2	0 -0.3	0.8		1.2	0.7	0.32		0.45		0.1				
M1.2	2.3		0.9		1.4	0.8	0.32	+0.1 0	0.5		0.1				
M1.4	2.6		1		1.6	0.9	0.32		0.6	±0.1	0.1				
M1.6	3		1.1		1.8	1	.04		0.65		0.1				
M1.7	3.2		1.2	+0.1	1.9	1.1	0.4		0.7		0.1				
M2	3.5	0 -0.4	1.3		2.1	1.2	0.6		0.8		0.1	2.1	0.91	0.50	JMR M2.0
M2.2	4		1.5		2.4	1.3	0.6		0.9		0.1	2.3	1.11	0.70	JMR M2.3
M2.3	4		1.5		2.4	1.3	0.6		0.9	±0.15	0.1	2.3	1.11	0.70	JMR M2.3
M2.5	4.5		1.7		2.7	1.5	0.8	+0.15 0	1		0.1	2.5	1.32	0.90	JMR M2.6
M2.6	4.5		1.7		2.7	1.5	0.8		1		0.1	2.5	1.32	0.90	JMR M2.6
M3	5.5		2		3.3	1.8	0.8		1.2		0.1	3.4	1.33	0.76	JMR M3.0
M3.5	6	0 -0.5	2.3		3.6	2	1		1.4	±0.2	0.1	3.7	1.63	1.06	JMR M3.5
M4	7		2.6	±0.15	4.2	2.3	1		1.6	±0.25	0.2	4.0	1.93	1.35	JMR M4.0
M4.5	8	0 -0.6	3		4.8	2.7	1		1.9		0.2	4.4	2.33	1.74	JMR M4.5
M5	9		3.4		5.4	3.	1.2		2.1	±0.3	0.2	4.7	2.63	2.04	JMR M5.0
M6	10.5	0 -0.7	4	±0.2	6.3	3.5	1.2	+0.2 0	2.5	± 0.4	0.25	6.1	2.76	2.16	JMRM6.0
M8	14	0 -0.8	5.4		8.4	4.6	1.6		3.3	+ 0.5	0.4	7.6	4.26	3.63	JMR M8.0

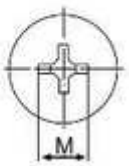


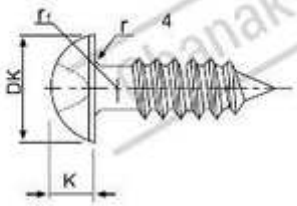


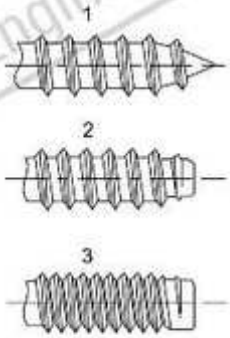
JMV <LCM> (JIS BRAZIER HEAD MACHINE & TAPPING SCREW)

(d)	Dk Size	Dk Tol.	K Size	K Tol.	rf	r Max.	#	M	Q Max.	Q Min.	
M2	4.2	0 -0.4	1.5	±0.1	2.2	0.3	1	2.2	1.01	0.63	JMV M2.0
M2.5	5.5		2.0		2.9			2.6	1.42	1.00	JMV M2.5
M3	6.4		2.45		3.4	0.4		3.8	1.63	1.06	JMV M3.0
M3.5	7.4	0 -0.5	2.6		3.9			3.9	1.73	1.16	JMV M3.5
M4	8.5		2.7	±0.15	4.6	0.5	2	4.1	1.93	1.35	JMV M4.0
M4.5	9.5		3.05		5.1			4.5	2.33	1.74	JMV M4.5
M5	10.6	0 -0.6	3.4		5.7	0.6		4.9	2.73	2.14	JMV M5.0
M6	12.5	0 -0.7	4.1	+0.2	6.7	0.7	3	6.3	2.86	2.26	JMV M6.0





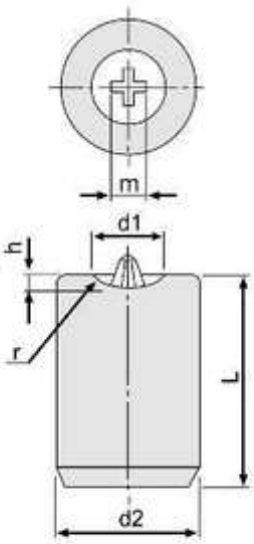




Chanakya Engineering Product

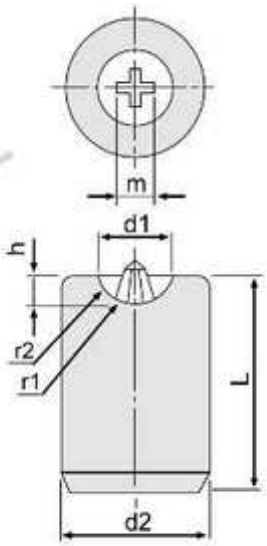
JWO (JIS OVAL HEAD WOOD SCREW)

	d		D		H		C	K	H+K		a		b		M	Q		
	Size	Tol.	Size	Tol.	Size	Tol.			Size	Tol.	Size	Tol.	Size	Tol.		Max.	Min.	
1.6	1.6	±0.05	3.2	0 -0.4	0.95	0 -0.2	0.15	0.4	1.35	0 -0.3	0.4	+0.15 0	0.7	±0.1				
1.8	1.8		3.6		1.05		0.15	0.4	1.45		0.6		0.7					
2.1	2.1	±0.07	4.2		1.25		0.2	0.5	1.75	0 -0.4	0.6		0.9	±0.15	2.7	1.52	1.14	JWO M2.1
2.4	2.4		4.8		1.4		0.2	0.6	2		0.7		1		2.9	1.72	1.34	JWO M2.4
2.7	2.7		5.4		1.55		0.2	0.7	2.25		0.8		1.1		3.1	1.92	1.54	JWO M2.7
3.1	3.1	±0.1	6.2	0 -0.5	1.8	0 -0.3	0.25	0.8	2.6	0 -0.5	0.9	+0.2 0	1.3	±0.2	3.9	1.83	1.30	JWO M3.1
3.5	3.5		7		2		0.25	0.8	2.8		1		1.4		4.3	2.23	1.69	JWO M3.5
3.8	3.8		7.6		2.15		0.25	0.9	3.05		1		1.5	±0.25	4.6	2.53	1.99	JWO M3.8
4.1	4.1		8.2	0 -0.6	2.35		0.3	1	3.35		1.2		1.7		4.9	2.83	2.28	JWO M4.1
4.5	4.5		9		2.55		0.3	1.1	3.65		1.2		1.8		5.3	3.23	2.68	JWO M4.5
4.8	4.8	±0.12	9.6		2.7		0.3	1.1	3.8		1.3		1.9	±0.3	5.5	3.43	2.87	JWO M4.8
5.1	5.1		10.2		2.85		0.3	1.2	4.05		1.4		2		6.5	3.16	2.60	JWO M5.1
5.5	5.5		11		3.05		0.3	1.3	4.35		1.4		2.2		6.8	3.46	2.90	JWO M5.5
5.8	5.8		11.6	0 -0.7	3.2	0 -0.4	0.3	1.4	4.6	0 -0.6	1.6	+0.25 0	2.3	±0.4	7.1	3.76	3.19	JWO M5.8
6.2	6.2		12.4		3.5		0.4	1.4	4.9		1.6		2.5		7.4	4.06	3.48	JWO M6.2
6.8	6.8	±0.15	13.6		3.8		0.4	1.6	5.4		1.6		2.7	±0.5	7.9	4.56	3.97	JWO M6.8
7.5	7.5		15		4.15		0.4	1.8	5.95		1.8		3		9.2	4.85	4.31	JWO M7.5
8	8		16	0 -0.8	4.4		0.4	1.8	6.2		1.8		3.1		9.5	5.15	4.60	JWO M8.0
9.5	9.5		19		5.15		0.4	2.3	7.45		2	+0.3 0	3.7		10.5	6.15	5.58	JWO M9.5



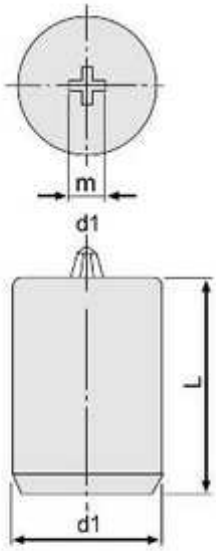
JWR (JIS ROUND HEAD WOOD SCREW)

	d		D		H		R1	R2	a		b		M	Q		
	Size	Tol.	Size	Tol.	Size	Tol.			Size	Tol.	Size	Tol.		Max.	Min.	
1.6	1.6	±0.05	3	±0.2	1.3	±0.1	1.6	1.1	0.4	+0.15 0	0.8	+0.1				
1.8	1.8		3.3		1.4		1.8	1.2	0.6		0.9					
2.1	2.1	±0.07	3.9		1.6		2.3	1.4	0.6		1	±0.15	2.5	1.32	0.90	JWR M2.1
2.4	2.4		4.4		1.8		2.6	1.5	0.7		1.1		2.7	1.52	1.10	JWR M2.4
2.7	2.7		5		2	±0.15	3	1.7	0.8	+0.2 0	1.2	±0.2	2.9	1.72	1.29	JWR M2.7
3.1	3.1		5.7	±0.25	2.3		3.4	1.9	0.9		1.4		3.7	1.63	1.06	JWR M3.1
3.5	3.5	±0.1	6.5		2.5		4	2.1	1		1.6	±0.25	3.9	1.83	1.25	JWR M3.5
3.8	3.8		7		2.7		4.4	2.3	1		1.7		4.1	2.03	1.45	JWR M3.8
4.1	4.1		7.6		2.9		4.8	2.4	1.2		1.8		4.3	2.23	1.64	JWR M4.1
4.5	4.5		8.3	±0.3	3.1		5.2	2.6	1.2		1.9	±0.3	4.5	2.43	1.84	JWR M4.5
4.8	4.8	±0.12	8.9		3.3		5.7	2.8	1.3		2		4.7	2.63	2.04	JWR M4.8
5.1	5.1		9.4		3.5		6	2.9	1.4		2.2		5.9	2.56	1.96	JWR M5.1
5.5	5.5		10.2		3.8		6.5	3.2	1.4		2.4	±0.4	6.1	2.76	2.16	JWR M5.5
5.8	5.8		10.7	±0.35	4	±0.2	6.9	3.3	1.6		2.5		6.3	2.96	2.36	JWR M5.8
6.2	6.2		11.5		4.2		7.4	3.5	1.6		2.6		6.6	3.26	2.65	JWR M6.2
6.8	6.8	±0.15	12.6		4.6		8.2	3.8	1.6	+0.25 0	2.8		6.9	3.56	2.93	JWR M6.8
7.5	7.5		13.9	±0.4	5		9.1	4.2	1.8		3.1	±0.5	8.4	4.05	3.48	JWR M7.5
8	8		14.8		5.3		9.7	4.4	1.8		3.3		8.7	4.35	3.77	JWR M8.0
9.5	9.5		17.6		6.3		11.6	5.2	2	+0.3 0	3.9		9.7	5.35	4.75	JWR M9.5



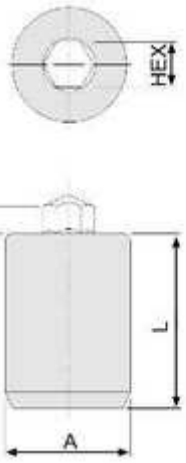
JWF (JIS FLAT HEAD WOOD SCREW)

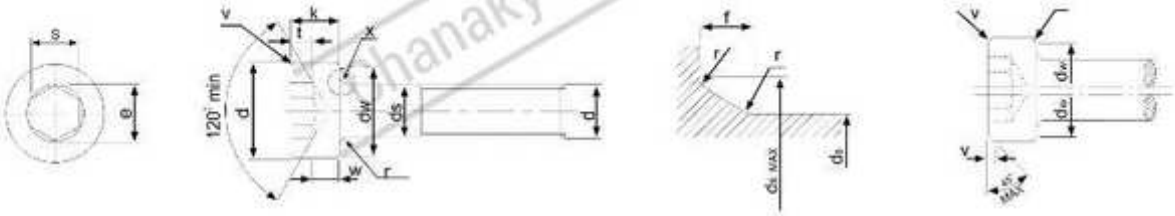
	d		D		H		C	a		b		M	Q		
	Size	Tol.	Size	Tol.	Size	Tol.		Size	Tol.	Size	Tol.		Max.	Min.	
1.6	1.6	±0.05	3.2	0 -0.4	0.95	0 -0.2	0.15	0.4	+0.15 0	0.4	±0.1				
1.8	1.8		3.6		1.05		0.15	0.6		0.5					
2.1	2.1	±0.07	4.2		1.25		0.2	0.6		0.5		2.5	1.32	0.95	JWF M2.1
2.4	2.4		4.8		1.4		0.2	0.7		0.6		2.7	1.52	1.14	JWF M2.4
2.7	2.7		5.4		1.55		0.2	0.8		0.7	±0.15	2.9	1.72	1.34	JWF M2.7
3.1	3.1		6.2	0 -0.5	1.8	0 -0.3	0.25	0.9		0.8		3.8	1.73	1.20	JWF M3.1
3.5	3.5	±0.1	7		2		0.25	1		0.9	±0.2	4.2	2.13	1.60	JWF M3.5
3.8	3.8		7.6		2.15		0.25	1		0.9		4.5	2.43	1.89	JWF M3.8
4.1	4.1		8.2		2.35		0.3	1.2	+0.2 0	1		4.8	2.73	2.19	JWF M4.1
4.5	4.5		9		2.55		0.3	1.2		1.1		5.2	3.13	2.58	JWF M4.5
4.8	4.8	±0.12	9.6	0 -0.6	2.7		0.3	1.3		1.2	±0.25	5.4	3.33	2.77	JWF M4.8
5.1	5.1		10.2		2.85		0.3	1.4		1.2		6.4	3.06	2.50	JWF M5.1
5.5	5.5		11		3.05		0.3	1.4		1.3		6.7	3.36	2.80	JWF M5.5
5.8	5.8		11.6	0 -0.7	3.2	0 -0.4	0.3	1.6	+0.25 0	1.4	±0.3	7.0	3.66	3.09	JWF M5.8
6.2	6.2		12.4		3.5		0.4	1.6		1.5		7.3	3.96	3.39	JWF M6.2
6.8	6.8	±0.15	13.6		3.8		0.4	1.6		1.6		7.8	4.46	3.87	JWF M6.8
7.5	7.5		15		4.15		0.4	1.8		1.8	±0.35	9.0	4.65	4.11	JWF M7.5
8	8		16	0 -0.8	4.4		0.4	1.8		1.9		9.3	4.95	4.41	JWF M8.0
9.5	9.5		19		5.15		0.4	2	+0.3 0	2.2	+0.4	10.3	5.95	5.39	JWF M9.5



JIS (JIS B 1176:2000 HEXAGON SOCKET HEAD CAP SCREW) <eqv:ISO 4762-1997>

(d)	dk			k		da	ds		dw	f	r	v	s				e	t	w
	Max.	Max.	Min.	max.	Min.	Max.	Max.	Min.	Min.	Max.	Min.	Min.		Max	Max	Min	Min	Min	Min
M1.6	3	3.14	2.86	1.6	1.46	2	1.6	1.46	2.72	0.34	0.1	0.16	1.5	1.545	1.56	1.52	1.73	0.7	0.55
M2	3.8	3.98	3.62	2	1.86	2.6	2	1.86	3.48	0.51	0.1	0.2	1.5	1.545	1.56	1.52	1.73	1	0.55
M2.5	4.5	4.68	4.32	2.5	2.36	3.1	2.5	2.36	4.18	0.51	0.1	0.25	2	2.045	2.06	2.02	2.3	1.1	0.85
M3	5.5	5.68	5.32	3	2.86	3.6	3	2.86	5.07	0.51	0.1	0.3	2.5	2.56	2.58	2.52	2.87	1.3	1.15
M4	7	7.22	6.78	4	3.82	4.7	4	3.82	6.53	0.6	0.2	0.4	3	3.071	3.08	3.02	3.44	2	1.4
M5	8.5	8.72	8.28	5	4.82	5.7	5	4.82	8.03	0.6	0.2	0.5	4	4.084	4.095	4.02	4.58	2.5	1.9
M6	10	10.22	9.78	6	5.7	6.8	6	5.82	9.38	0.68	0.25	0.6	5	5.084	5.14	5.02	5.72	3	2.3
M8	13	13.27	12.73	8	7.64	9.2	8	7.78	12.33	1.02	0.4	0.8	6	6.095	6.14	6.02	6.86	4	3.3
M10	16	16.27	15.73	10	9.64	11.2	10	9.78	15.33	1.02	0.4	1.0	8	8.115	8.175	8.025	9.15	5	4
M12	18	18.27	17.73	12	11.57	13.7	12	11.73	17.23	1.45	0.6	1.2	10	10.115	10.175	10.025	11.43	6	4.8





JCIS (PAN HEAD SMALL SCREW)

		D		H		Punch	M		Q		Punch code
		Size	Tol.	Size	Tol.		Max.	Min.	Max.	Min.	
1	M1.4	2.0	+0.05 -0.10	0.5	±0.05	0	1.55	1.45	0.74	0.51	01-14P
	M1.7	2.5		0.5			1.7	1.55	0.89	0.61	01-17P
	M 2.0	3.0	+0.15 -0.20	0.6	±0.08		2.0	1.85	1.21	0.91	01-20P
	M 2.3	3.5		0.7			2.2	2.0	1.41	1.06	01-23P
	M 2.6	4.0		0.8			2.2	2.0	1.41	1.06	01-26P
3	M 1.4	2.5	+0.05 -0.10	0.8	±0.05	0	1.65	1.5	0.84	0.56	03-14P
	M 1.7	3.0		0.9			1.9	1.75	1.10	0.81	03-17P
	M 2.0	3.5	+0.05 -0.20	1.0	±0.08		2.1	1.95	1.31	1.01	03-20P
	M 2.3	4.0		1.1			2.2	2.0	1.41	1.06	03-23P
	M 2.6	4.5		1.2			2.2	2.0	1.41	1.06	03-26P

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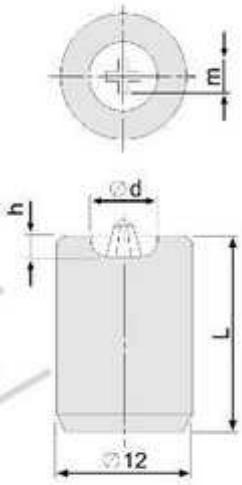
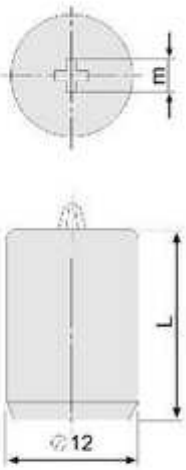


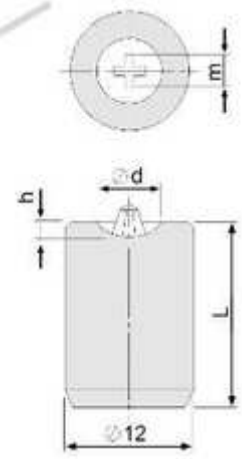
JCIS (FLAT HEAD SMALL SCREW)

		D		Punch	M		Q		Punch code
		Size	Tol.		Max.	Min.	Max	Min	
1	M1.4	2.0	+0.05 -0.10	0	1.55	1.45	0.74	0.51	01-14F
	M1.7	2.5			1.7	1.55	0.89	0.61	01-17F
	M 2.0	3.0	+0.15 -0.20		2.0	1.85	1.21	0.91	01-20F
	M 2.3	3.5			2.2	2.0	1.41	1.06	01-23F
	M 2.6	4.0			2.2	2.0	1.41	1.06	
3	M 1.4	2.5	+0.05 -0.10	0	1.65	1.5	0.84	0.56	03-14F
	M 1.7	3.0			1.9	1.75	1.10	0.81	03-17F
	M 2.0	3.5	+0.05 -0.20		2.1	1.95	1.31	1.01	03-20F
	M 2.3	4.0			2.2	2.0	1.41	1.06	03-23F
	M 2.6	4.5			2.2	2.0	1.41	1.06	

JCIS 10-70



JCIS (OVAL HEAD SMALL SCREW)

		D		H	H+K		Punch	M		Q		Punch code
		Size	Tol.		Size	Tol.		Max	Min.	Max	Min.	
1	M1.4	2.0	+0.05 -0.10	0.2	0.6	±0.05	0	1.55	1.45	0.74	0.51	01-14O
	M1.7	2.5		0.3	0.8			1.7	1.55	0.89	0.61	01-17O
	M 2.0	3.0	+0.05 -0.20	0.3	0.9	±0.1		2.0	1.85	1.21	0.91	01-20O
	M 2.3	3.5		0.4	1.1			2.2	2.0	1.41	1.06	01-23O
	M 2.6	4.0		0.4	1.2			2.2	2.0	1.41	1.06	01-26O
3	M 1.4	2.5	+0.05 -0.10	0.3	1.0	±0.08	0	1.65	1.5	0.84	0.56	03-14O
	M 1.7	3.0		0.3	1.1			1.9	1.75	1.10	0.81	03-17O
	M 2.0	3.5	+0.05 -0.20	0.4	1.3	±0.1		2.1	1.95	1.31	1.01	03-20O
	M 2.3	4.0		0.4	1.4			2.2	2.0	1.41	1.06	03-23O
	M 2.6	4.5		0.5	1.6			2.2	2.0	1.41	1.06	03-26O

JCIS 10-70