

# LIFTING EYE BOLTS / LIFTING T-SHAPED BOLTS

# LIFTING BARS FOR MOLD

ⓘ Non JIS material definition is listed on P.1351 - 1352

**Lifting Eye Bolts—For vertical lifting—** **RoHS** **CHI**

A Type Vertical lifting  
B Type 45° lifting

SS400 Bolt precision JIS1168

M×P (Coarse thread)	a	b	C	D	H	l	e	g	R	da	Maximum allowance load N {kgf}		Part Number	U/Price	Side Unit Price
											A: Vertical 1 Pc.	B: 45° 2 Pcs.			
M 6×1.0	24.9	14.5	5.2	12.8	28.45	15	3	4.7	1.0	7.9	392 {40}	392 {40}	6	1~19	
M 8×1.25	32.6	20	6.3	16	33.3	15	3	6	1.0	9.2	785 {80}	785 {80}	8	20~49	
M10×1.5	41	25	8	20	41.5	18	4	7.7	1.2	11.2	1471 {150}	1471 {150}	10	50~99	
M12×1.75	50	30	10	25	51	22	5	9.4	1.4	14.2	2157 {220}	2157 {220}	12	100~200	
M16×2.0	60	35	12.5	30	60	27	5	13	1.6	18.2	4413 {450}	4413 {450}	16		Quotation
M20×2.5	72	40	16	35	71	30	6	16.4	2	22.4	6178 {630}	6178 {630}	20		
M24×3.0	90	50	20	45	90	38	8	19.6	2.5	26.4	9316 {950}	9316 {950}	24		
M30×3.5	110	60	25	60	110	45	8	25	3	33.4	14710 {1500}	14710 {1500}	30		
M36×4.0	133	70	31.5	70	131.5	55	10	30.3	3	39.4	22555 {2300}	22555 {2300}	36		
M42×4.5	151	80	35.5	80	150.5	65	12	35.6	3.5	45.6	33342 {3400}	33342 {3400}	42		
M48×5.0	170	90	40	90	170	70	12	41	4	52.6	44130 {4500}	44130 {4500}	48		

**How to Mount**  
Fasten the eye bolt lightly by hand until its seat firmly sits on the plate.

ⓘ When using two-bolts of the eye bolts, set them in the same direction.

**Caution**  
**Bad example** These applications shown below should never be practiced.

Side lifting  
Vertical lifting using a single rope for two eye bolts.

Part Number	d <sub>1</sub>	ℓ <sub>1</sub>
6	9	17
8	11	17
10	13	20
12	16	24
16	20	30
20	24	34
24	28	42
30	36	50
36	42	60
42	48	70
48	56	76

**Lifting T-shaped Bolts** **RoHS** **TB**

Hexagon nut

SS400 Bolt precision JIS1168  
Hexagon nut

M×P (Coarse thread)	H	R <sub>1</sub>	R <sub>2</sub>	T	R	N/1P {kgf/1P}	Part Number		U/Price 1~19
							Type	M	
M 8×1.25	8	2	3	80	22	686 {70}	Quotation	8	100
M10×1.5	8	3	5	80	28	981 {100}		10	110
M12×1.75	8	3	5	90	34	1471 {150}		12	125
M16×2.0	10	5	6	100	45	2942 {300}		16	135
M20×2.5	10	5	8	120	50	3923 {400}		20	160

**How to Mount**  
(Lifting T-shaped Bolts)  
Fasten the T-shaped bolt lightly by hand, and tighten the nut until it firmly sits on the plate.  
※ Tightening the nut this way allows you to freely adjust the T-bar orientation.

**Caution**  
**Bad example** These applications shown below should never be practiced.

Side lifting  
Two-bolts lifting

Order **Part Number** — L — **CHI10** — 125 **Days to Ship** **Quotation**

Price **Quotation**

**RoHS** **KTA** (For two-plate mold)

**KTB** (For three-plate mold)

SS50C

Max. load N {kgf}	A	T	d <sub>1</sub>	B	d <sub>2</sub>	ℓ <sub>1</sub>	1mm increments						
							Type	M	L	E	C	H	S
2058 {210}	30	36	13	13	16	25	KTA	12	100~350	$C+S+40 \leq E \leq \frac{L}{2}$	9~20	$9 \leq L-C-H \leq 20$	$0 < S \leq 15$
4312 {440}	40	52	18	18	20	30	(For two-plate mold) KTB	16	124~460	$C+S+50 \leq E \leq \frac{L}{2}$	12~25	$12 \leq L-C-H \leq 25$	(Required for KTB only)
5978 {610}	45	60	22	22	24	35	(For three-plate mold)	20	150~470	$C+S+60 \leq E \leq \frac{L}{2}$	15~25	$15 \leq L-C-H \leq 25$	

ⓘ The maximum load values are based on maximum L size with a safety factor of 10. Do not overload.  
ⓘ Calculate KTA's E size with S=0.  
• Applicable bolts: JIS B 1176 or JIS B 1180 of strength rank 12.9 or 10.9.

Order **Part Number** — L — E — C — H — S(KTB)  
KTA12 — 196 — E95 — C10 — H176  
KTB16 — 438 — E215 — C15 — H408 — S10 **Days to Ship** **Quotation**

Price **Quotation**

Example