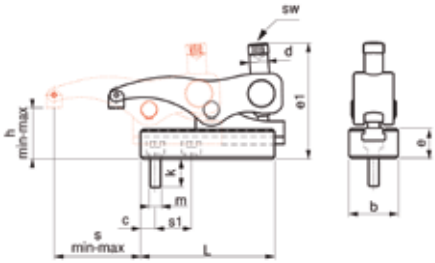
10.
MOULD CLAMPING

221 10.1 POWER CLAMPS

222 10.2 STANDARD CLAMPS

POWER SLIDING CLAMP



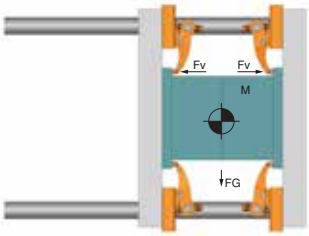
Part No.	Thread Size	h-Min	h-Max	s	e1	d	sw	L	e	b	c	K	Clamping force Kgf	Screw fastening torque (Nm)	
SC-10-10	M10	0	50	12-66	100	M14	8	104	35,5	38	13	20	1600	55	1
SC-10-12	M12	0	50	12-66	100	M14	8	104	35,5	38	13	20	1600	55	1
SC-20-12	M12	0	60	15-83	113	M18	10	128	38	48	16	22	2000	100	1
SC-20-16	M16	0	60	15-83	113	M18	10	128	38	48	16	26	2000	100	1
SC-25-16	M16	0	62	18-96	125	M20	12	140	42	55	18	26	2500	150	1
SC-25-18	M18	0	62	18-96	125	M20	12	140	42	55	18	30	2500	150	1
SC-25-20	M20	0	62	18-96	125	M20	12	140	42	55	18	30	2500	150	1
SC-30-20	M20	20	80	22-95	175	M24	12	178	55	74	24	34	5500	200	1
SC-30-22	M22	20	80	22-95	175	M24	12	178	55	74	24	38	5500	200	1
SC-30-24	M24	20	80	22-95	175	M24	12	178	55	74	24	44	5500	200	1
SC-30-30	M30	20	80	22-95	175	M24	12	178	55	74	24	55	5500	200	1

Description

- Perfect for Injection Mould Clamping
- For use with threaded or T-Slot Platens
- Ability to be fixed in various positions by sliding
- Suitable for different clamping heights using the adjustable bolt
- It provides rapid and easy connection due to it's practical structure

CLAMP CALCULATION GUIDE

Power Clamp For Injection Moulding



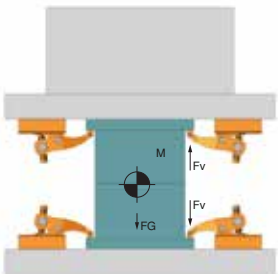
Formula Calculator

$$\frac{M \times FG}{1000} = kN \qquad \frac{2500 \times 9.81}{1000} = 24.52 \text{ kN}$$

$$\frac{kN}{\mu} = \text{Result} \qquad \frac{24.52}{0.14} = 175.14 \text{ kN}$$

$$\frac{\text{Result}}{Fv} = \text{Number of Clamp} \qquad \frac{175.14 \text{ kN}}{25 \text{ kN}} = 7 \text{ Clamp (use 8 pcs)}$$

Power Clamp For Press Moulding



Formula Calculator

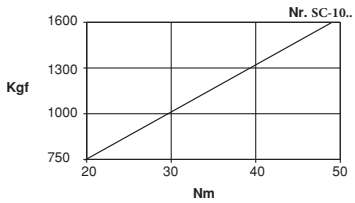
$$\frac{M \times FG}{1000} = kN \qquad \frac{5000 \times 9.81}{1000} = 49.050 \text{ kN}$$

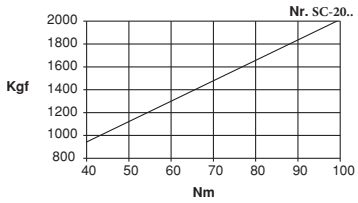
$$\frac{kN}{\mu} = \text{Result} \quad \text{(upper \%60) (lower \% 40)} \qquad \frac{49.05}{0.14} = 350.35 \text{ kN} \quad \text{(\% 60 upper = 210.21) (\% 40 lower = 140.14)}$$

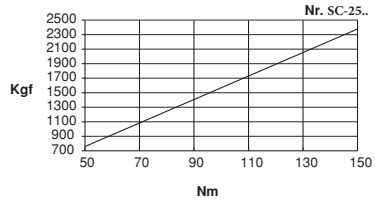
$$\frac{\text{Result}}{Fv} = \text{Number of Clamp} \qquad \frac{210.21 \text{ kN (upper)}}{25 \text{ kN}} = 8 \text{ Number of Clamp}$$

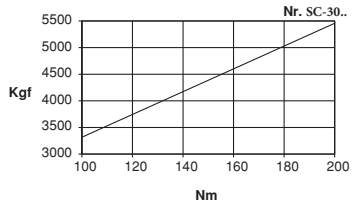
$$\frac{\text{Result}}{Fv} = \text{Number of Clamp} \qquad \frac{140.14 \text{ kN (lower)}}{25 \text{ kN}} = 5.6 \text{ Clamp (use 6 pcs)}$$

Force Diagram



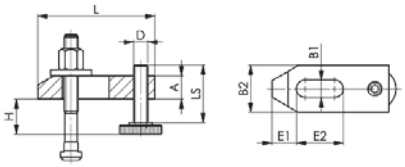






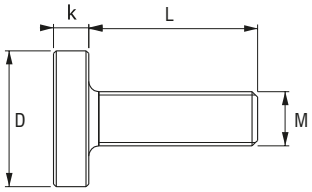
STANDARD CLAMPS

STRAIGHT CLAMP WITH SUPPORT HOLE - SUPPLIED WITHOUT ADJUSTING SCREW



Part No.	Nut	DIN6314 B1xL	D	A	B2	E1	E2	
1330-11x80	10	11x80	M10	15	30	15	30	1
1330-14x100	12+14	14x100	M12	20	40	21	40	1
1330-14x125	12+14	14x125	M12	20	40	21	50	1
1330-18x125	16+18	18x125	M16	25	50	26	45	1
1330-18x160	16+18	18x160	M16	25	50	26	65	1
1330-22x160	20+22	22x160	M20	30	60	30	60	1
1330-22x200	20+22	22x200	M20	30	60	30	80	1
1330-26x160	24+26	26x160	M24	30	70	35	60	1
1330-26x200	24+26	26x200	M24	35	70	35	80	1
1330-26x250	24+26	26x250	M24	35	70	35	100	1
1330-26x315	24+26	26x315	M24	40	70	35	130	1
1330-33x315	30+33	33x315	M24	50	80	45	130	1
1330-43x400	36+43	43x400	M30	60	100	100	150	1

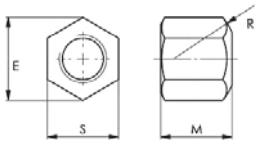
ADJUSTING SCREW



Part No.	M	L	D	K	
1490-10x42	M10	42	30	8	1
1490-12x50	M12	50	36	10	1
1490-12x95	M12	95	36	10	1
1490-16x62	M16	62	45	13	1
1490-16x97	M16	97	45	13	1
1490-16x117	M16	117	45	13	1
1490-20x62	M20	62	50	13	1
1490-20x97	M20	97	50	13	1
1490-20x117	M20	117	50	13	1
1490-24x81	M24	81	50	14	1
1490-24x116	M24	116	50	14	1
1490-30x180	M30	18	70	24	1

Description
Material: Ck45 DIN
Black Coating

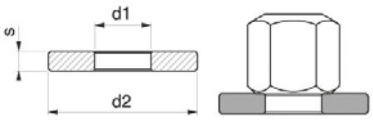
HEXAGON NUT



Part No.	Size	E	M	R	S	
6330B-6	M6	11,5	9	9	10	1
6330B-8	M8	15	12	12	13	1
6330B-10	M10	19,6	15	15	17	1
6330B-12	M12	21,9	18	17	19	1
6330B-14	M14	25,4	21	20	22	1
6330B-16	M16	27,7	24	22	24	1
6330B-18	M18	31,2	27	24	27	1
6330B-20	M20	34,6	30	27	30	1
6330B-22	M22	36,9	33	30	32	1
6330B-24	M24	41,5	36	32	36	1
6330B-30	M30	53,1	45	41	46	1
6330B-36	M36	63,5	54	50	55	1

Description
Hexagon Nut DIN 6330B
Material: Ck45 DIN
Hardness: 30-32 HRC
Black Coating

THICK WASHER

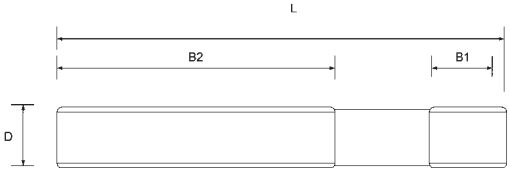


Part No.	d1	Thread to fit	d2	s	
KP-M6	6,4	M6	17	3	1
KP-M8	8,4	M8	23	4	1
KP-M10	10,5	M10	28	4	1
KP-M12	13	M12	35	5	1
KP-M14	15	M14	40	5	1
KP-M16	17	M16	45	6	1
KP-M18	19	M18	45	6	1
KP-M20	21	M20	50	6	1
KP-M22	23	M22	50	8	1
KP-M24	25	M24	60	8	1
KP-M30	31	M30	68	10	1

Description
Ideal for Mould Clamping

STANDARD CLAMPS

STRAIGHT STUD

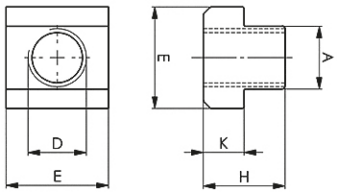


Part No.	D x L	B1	B2	
6379-8x40	M 8x 40	11	20	1
6379-8x63	M 8x 63	11	40	1
6379-8x80	M 8x 80	11	50	1
6379-8x100	M 8x100	11	63	1
6379-8x125	M 8x125	11	75	1
6379-8x160	M 8x160	11	100	1
6379-10x50	M10x 50	13	25	1
6379-10x80	M10x 80	13	50	1
6379-10x100	M10x100	13	75	1
6379-10x125	M10x125	13	75	1
6379-10x160	M10x160	13	100	1
6379-10x200	M10x200	13	125	1
6379-12x50	M12x 50	15	25	1
6379-12x63	M12x 63	15	32	1
6379-12x80	M12x 80	15	50	1
6379-12x100	M12x100	15	63	1
6379-12x125	M12x125	15	75	1
6379-12x160	M12x160	15	100	1
6379-12x200	M12x200	15	125	1
6379-14x63	M14x 63	17	32	1
6379-14x80	M14x80	17	50	1
6379-14x100	M14x100	17	63	1
6379-14x125	M14x125	17	75	1
6379-14x160	M14x160	17	100	1
6379-14x200	M14x200	17	125	1
6379-14x250	M14x250	17	160	1
6379-16x63	M16x 63	19	32	1
6379-16x80	M16x 80	19	50	1
6379-16x100	M16x100	19	63	1
6379-16x125	M16x125	19	75	1
6379-16x160	M16x160	19	100	1
6379-16x200	M16x200	19	125	1
6379-16x250	M16x250	19	160	1
6379-16x315	M16x315	19	180	1
6379-16x500	M16x500	19	315	1
6379-18x80	M18x 80	23	50	1
6379-18x125	M18x125	23	75	1
6379-18x160	M18x160	23	100	1
6379-18x200	M18x200	23	125	1
6379-18x250	M18x250	23	150	1

Part No.	D x L	B1	B2	
6379-18x315	M18x315	23	180	1
6379-20x80	M20x 80	27	32	1
6379-20x125	M20x125	27	70	1
6379-20x160	M20x160	27	100	1
6379-20x200	M20x200	27	125	1
6379-20x250	M20x250	27	160	1
6379-20x315	M20x315	27	200	1
6379-20x400	M20x400	27	250	1
6379-20x500	M20x500	27	315	1
6379-22x100	M22x100	31	45	1
6379-22x160	M22x160	31	100	1
6379-22x200	M22x200	31	125	1
6379-22x250	M22x250	31	160	1
6379-22x315	M22x315	31	180	1
6379-22x400	M22x400	31	250	1
6379-24x100	M24x100	35	45	1
6379-24x125	M24x125	35	70	1
6379-24x160	M24x160	35	100	1
6379-24x200	M24x200	35	125	1
6379-24x250	M24x250	35	160	1
6379-24x315	M24x315	35	200	1
6379-24x400	M24x400	35	250	1
6379-24x500	M24x500	35	315	1
6379-24x630	M24x630	35	315	1
6379-30x125	M30x125	43	56	1
6379-30x200	M30x200	43	125	1
6379-30x315	M30x315	43	200	1
6379-30x500	M30x500	43	315	1
6379-30x700	M30x700	43	400	1
6379-30x1000	M30x1000	43	400	1
6379-36x160	M36x160	51	80	1
6379-36x200	M36x200	51	125	1
6379-36x250	M36x250	51	160	1
6379-36x315	M36x315	51	200	1
6379-36x400	M36x400	51	250	1
6379-36x500	M36x500	51	315	1
6379-36x700	M36x700	51	400	1
6379-42x315	M42x315	59	200	1
6379-42x400	M42x400	59	250	1
6379-42x500	M42x500	59	315	1

Description
Material: 41 Cr 4 DIN
Quality 10.9
Black Coating

T-NUT



Part No.	D x Nut	A	E	H	K	
508-6x8	M 6x 8	7,7	13	10	6	1
508-8x10	M 8x10	9,7	15	12	6	1
508-8x12	M 8x12	11,7	18	14	7	1
508-10x12	M10x12	11,7	18	14	7	1
508-8x14	M 8x14	13,7	22	16	8	1
508-10x14	M10x14	13,7	22	16	8	1
508-12x14	M12x14	13,7	22	16	8	1
508-8x16	M 8x16	15,7	25	18	9	1
508-10x16	M10x16	15,7	25	18	9	1
508-12x16	M12x16	15,7	25	18	9	1
508-14x16	M14x16	15,7	25	18	9	1
508-8x18	M 8x18	17,7	28	20	10	1
508-10x18	M10x18	17,7	28	20	10	1
508-12x18	M12x18	17,7	28	20	10	1
508-14x18	M14x18	17,7	28	20	10	1
508-16x18	M16x18	17,7	28	20	10	1
508-16x20	M16x20	19,7	32	24	12	1
508-18x20	M18x20	19,7	32	24	12	1
508-16x22	M16x22	21,7	35	28	14	1
508-18x22	M18x22	21,7	35	28	14	1
508-20x22	M20x22	21,7	35	28	14	1
508-16x24	M16x24	23,7	40	32	16	1
508-20x24	M20x24	23,7	40	32	16	1
508-22x24	M22x24	23,7	40	32	16	1
508-16x28	M16x28	27,7	44	36	18	1
508-20x28	M20x28	27,7	44	36	18	1
508-22x28	M22x28	27,7	44	36	18	1
508-24x28	M24x28	27,7	44	36	18	1
508-24x36	M24x36	35,6	54	44	22	1
508-30x36	M30x36	35,6	54	44	22	1

Description
T-Clamp DIN 508
Material: Ck45 DIN
Hardness: 30-32 HRC
Black Coating