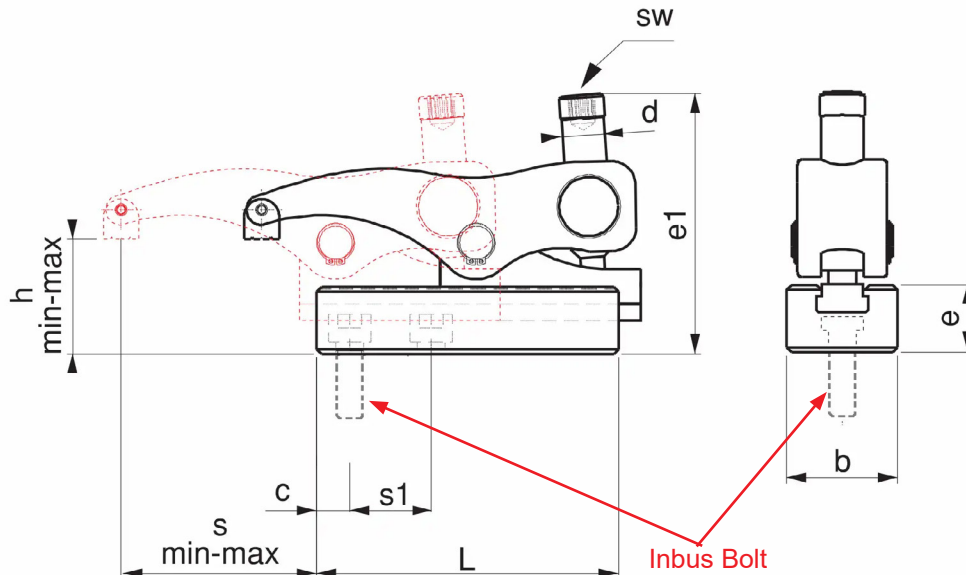
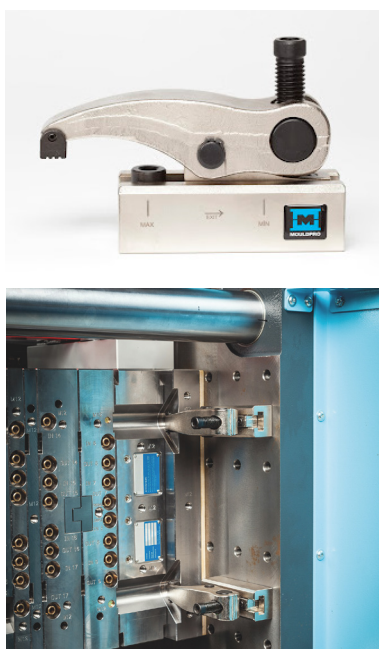


Power Sliding Mold Clamp

Facilitate Quicker
Mold Changes

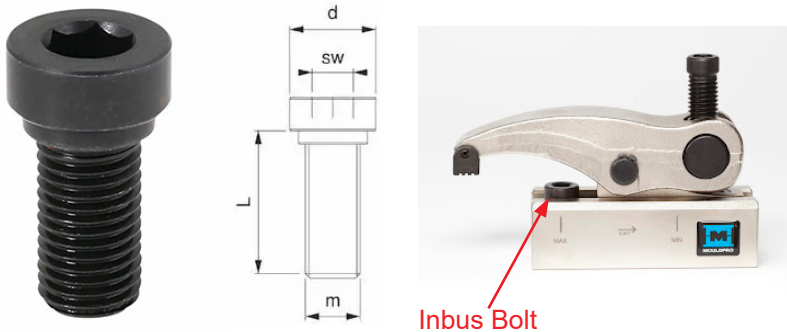
Features

- Can accommodate a range of different backplate sizes and thicknesses
- Perfect for clamping of injection molds
- For use with threaded or T-slot platens
- Clamp slides by virtue of integral T-slot
- Height blocks available upon request
- **INBUS BOLT REQUIRED FOR USE**



Item#	e1 (mm)	h Min/Max (mm)	s Min/Max (mm)	Inbus Bolt tem#	Inbus Bolt Size	Clamping Force (kg)	Weight (lbs)
SC-100	100	0-50	12-66	1120-3/8 or 1120-1/2	Clamp up to 1/2"	1600	4
SC-200	113	0-60	15-83	1130-1/2 or 1130-5/8	Clamp up to 5/8"	2000	7
SC-250	125	0-65	18-96	1150-5/8 or 1150-3/4	Clamp up to 3/4"	2500	10
SC-300	175	20-80	22-95	1160-1 or 1160-1/4	Clamp up to 1-1/4"	5500	20

Inbus Bolt for Power Sliding Mold Clamp



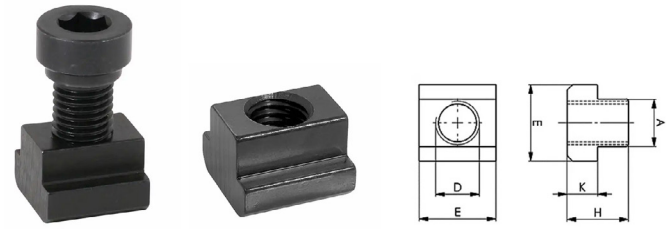
Item#	Size	Clamp Reference	m	L	d	SW
1120-1/2	1/2"	SC-100	M10	29	16.5	8
1120-3/8	3/8"	SC-100	M12	29	16.5	8
1130-1/2	1/2"	SC-200	M12	30	20.5	10
1130-5/8	5/8"	SC-200	M16	34	20.5	10
1150-3/4	3/4"	SC-250	M16	34	24.5	12
1150-5/8	5/8"	SC-250	M18	38	24.5	12
1160-1	1"	SC-300	M20	45	34	12
1160-1-1/4	1-1/4"	SC-300	M24	45	34	12

Material: 41 Cr 4 DIN

Quality: 10.9

Surface: Black Coating

T-Nut for Inbus Bolt for Power Sliding Mold Clamp



Item#	D x Nut	A	E	H	K
508-10X12	M10 x 12	11.7	18	14	7
508-12X14	M12 x 14	13.7	22	16	8
508-12X16	M12 x 16	15.7	25	18	9
508-12X18	M12 x 18	17.7	28	20	10
508-16X20	M16 x 20	19.7	32	24	12
508-16X22	M16 x 22	21.7	35	28	14
508-16X24	M16 x 24	23.7	40	32	16
508-16X28	M16 x 28	27.7	44	36	18
508-20X22	M20 x 22	21.7	35	28	14
508-20X24	M20 x 24	23.7	40	32	16
508-24X28	M24 x 28	27.7	44	36	18
508-24X36	M24 x 36	35.6	54	44	22

Material: Ck45 DIN

Hardness: 30-32 HRC

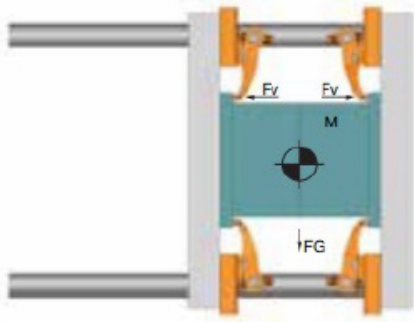
Surface: Black Coating

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Clamp Calculation Guide

Power Clamp for Injection Molding



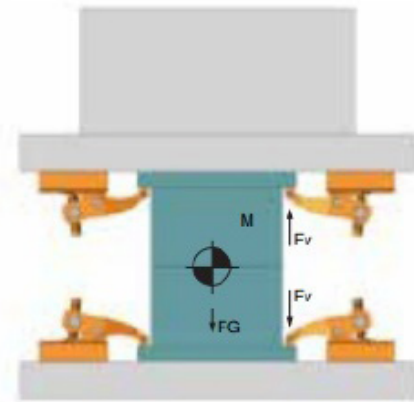
Formula Calculator

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

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

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

Power Clamp for Press Molding



Formula Calculator

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

$$\frac{\text{kN}}{\mu} = \text{Result} \qquad \frac{49.05}{0.14} = 350.35 \text{ kN}$$

(upper 60%)
(lower 40%)

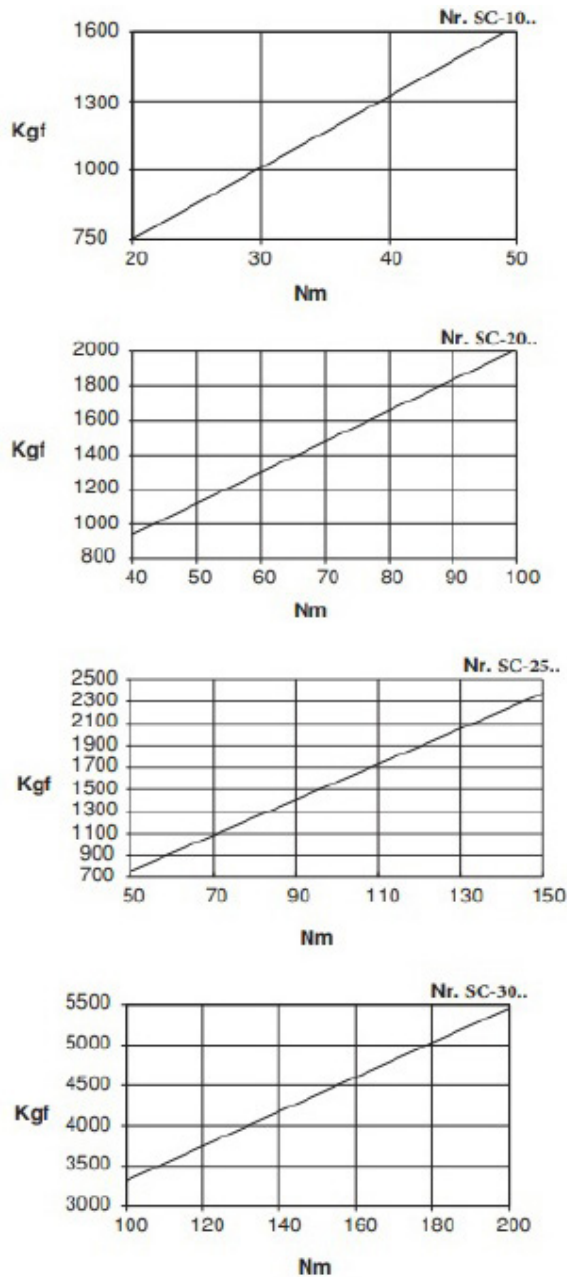
$$\frac{\text{Result}}{F_v} = \text{Number of Clamps} \qquad \frac{210.21 \text{ kN (upper)}}{25 \text{ kN}} = 8 \text{ Clamps}$$

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

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Force Diagram



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