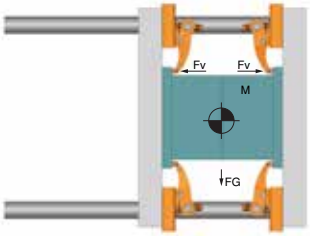
Clamp Calculation Guide

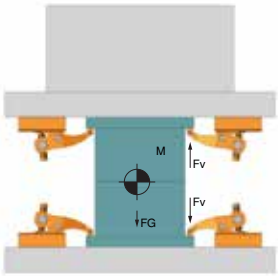
Power Clamp For Injection Moulding



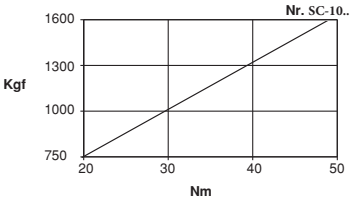
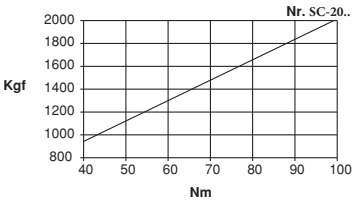
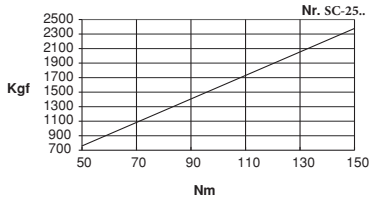
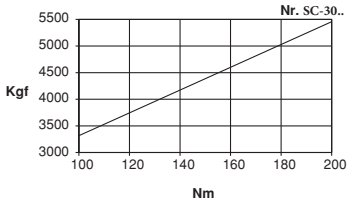
Formula Calculator

$\frac{M \times FG}{1000}$ = kN		$\frac{2500 \times 9.81\ \text{kg}}{1000}$ = 24.52 kN
$\frac{kN}{\mu}$ = Result		$\frac{24.52}{0.14}$ = 175.14 kN
$\frac{Result}{Fv}$ =Number of Clamp		$\frac{175.14\ kN}{25\ kN}$ = 7 Clamp (use 8 pcs)

Power Clamp For Press Moulding



Formula Calculator

$\frac{M \times FG}{1000}$ = kN		$\frac{5000 \times 9.81\ \text{kg}}{1000}$ = 49.050 kN
$\frac{kN}{\mu}$ = Result	(upper %60) (lower % 40)	$\frac{49.05}{0.14}$ = 350.35 kN (% 60 upper = 210.21) (% 40 lower = 140.14)
$\frac{Result}{Fv}$ = Number of Clamp		$\frac{210.21\ kN}{(upper)\ 25\ kN}$ = 8 Number of Clamp
$\frac{Result}{Fv}$ = Number of Clamp		$\frac{140.14\ kN}{(lower)\ 25\ kN}$ = 5.6 Clamp (use 6 pcs)

Force Diagram