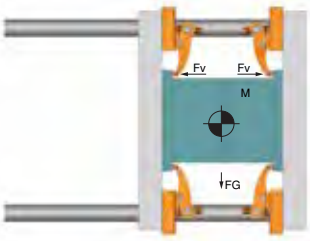
Clamp Calculation Guide

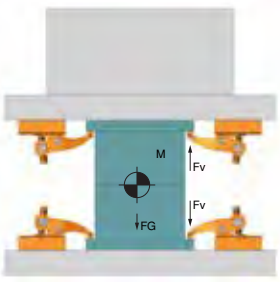
Power Clamp For Injection Moulding



Formula Calculator

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

Power Clamp For Press Moulding



Formula Calculator

$\frac{M \times FG}{1000} = kN$	$\frac{5000 \times 9.81\ kg}{1000} = 49.050\ kN$
$\frac{kN}{\mu} = Result$ (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