

MHS*/MHTS* series

Hydraulic swing Clamping Cylinder



Material:

This material of the main body is aluminum alloy.

Application:

When machining a work piece by means of a machine tool, a hydraulic swing clamping cylinder will be your best choice if the placing and taking of the workpiece are not allowed to be interfered by the clamber and need a larger clamping force.

Function:

This cylinder belongs to a pull cylinder of which the total stroke is equal to the sum of a swing stroke and a clamping stroke, and is usually used within the clamping stroke.

Type:

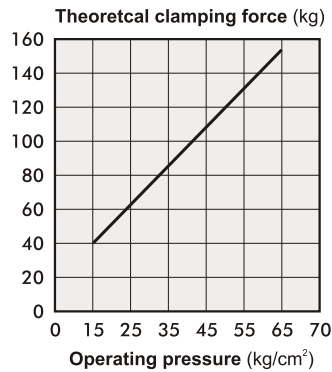
This swing cylinder belongs to a double-acting type which is operated mainly in a downward pressing manner, including clockwise swing and counterclockwise swing; standard angle is 90°, and optional angles include 0°, 45°, 60°; clamping means includes single arm or double arms; the mounting manner includes square base type, threaded type and flange type for manifold mounting with O-ring seal.

Order example:

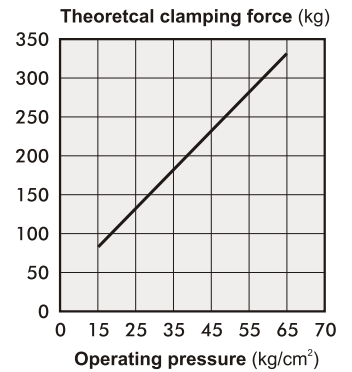
MHS	L	—	40	×	90°
MODEL	SWIVEL DIRECTION		PISTON ϕ		ANGLE
MHS	R: CW		25		0°
MHSD	L: CCW		32		45°
MHTS	P: Nonswing		40		60°
MHTSD			50		90°
			63		180°

Note: MHTS and MHTSD produced by order

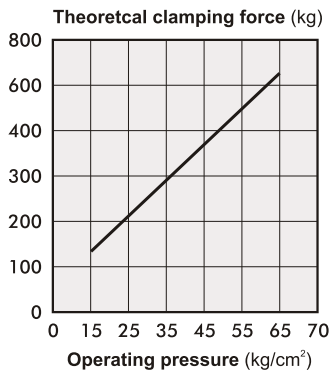
Schematic view showing a theoretical clamping force under different hydraulic pressure:



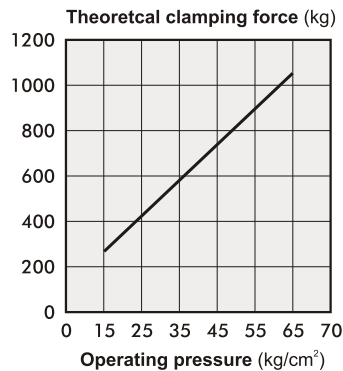
MHS-25



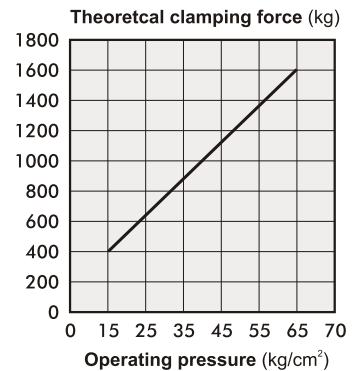
MHS-32



MHS-40



MHS-50



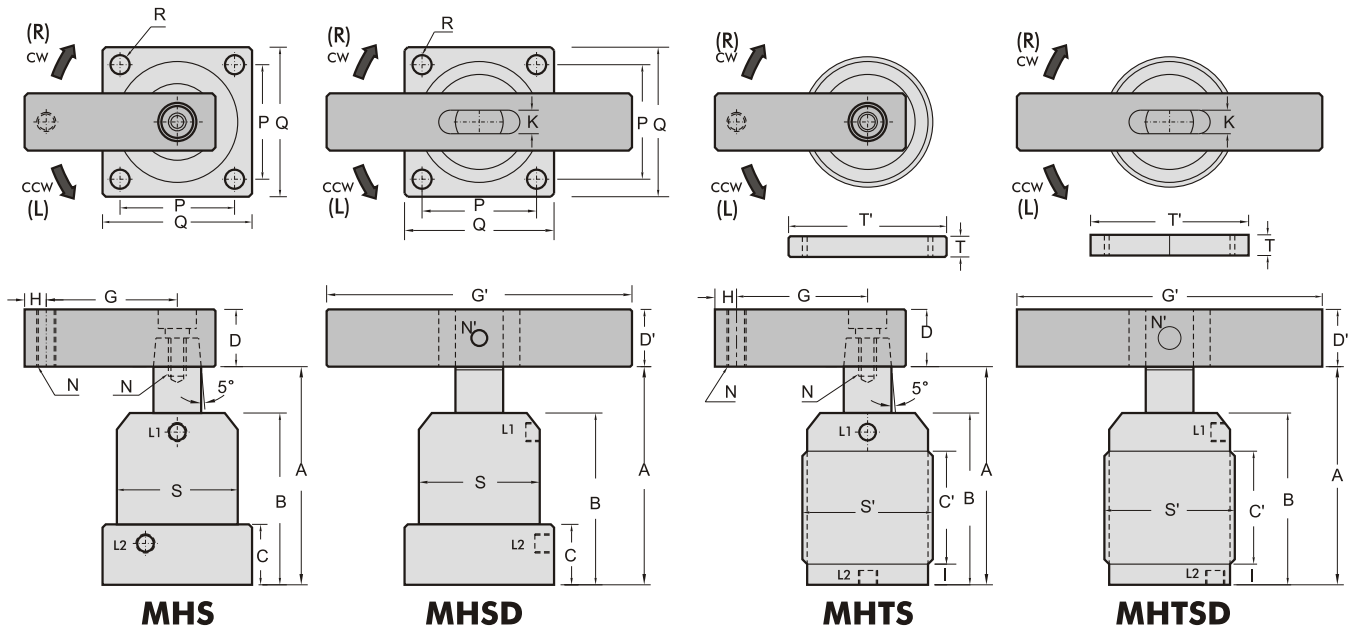
MHS-63

MHS*/MHTS* Max. operating pressure 70kg/cm²



Hydraulic swing Clamping Cylinder Double-acting, operating pressure 70 kg/cm²

Mindman



Flange type	MHS-25 MHSD-25	MHS-32 MHSD-32	MHS-40 MHSD-40	MHS-50 MHSD-50	MHS-63 MHSD-63
Threaded type (produced by order)	MHTS-25 MHTSD-25	MHTS-32 MHTSD-32	MHTS-40 MHTSD-40	MHTS-50 MHTSD-50	
Max. Operating pressure	70kg/cm ²				
Normal operating pressure	20-45kg/cm ²				
Cylinder operating	Double-acting				
Max. Oil flow rate (cm ³ /S)	4.7	11.8	22.6	39.6	63
Swivel angle	90° (60° ,45° ,0°)±2° / *180° ±2°				
Swivel stroke (mm)	12/*21	14/*21	14/*2	14/*2	14/*21
Clamping stroke (mm)	14/*5	15/*8	15/*8	15/*8	15/*8
Piston-φ (mm)	25	32	40	50	63
Piston rod-φ (mm)	18	20	20	20	25
Theoretical force (25kg/cm ²)	59kg	125kg	200kg	400kg	600kg
A (unclamp) (mm)	100	111	113.6	114.5	118
B (mm)	70	76	80	80	85
C (mm)	23	25	27	27	32
C' (mm)	35	45	45	45	
D (mm)	□25.4	□25.4	□25.4	□25.4	□32
D' (mm)	□19	□22	□22	□22	□25.4
G (mm)	50	55	55	55	75
G' (mm)	100	120	120	120	140
H (mm)	10	10	10	10	11
I (mm)	9	9	9	9	
K (mm)	9	10	10	10	12
L1 (clamp) I2 (unclamp)	PT 1/8	PT 1/8	PT 1/8	PT 1/8	PT 1/8
N (mm)	M10×1.5	M10×1.5	M10×1.5	M10×1.5	M12×1.75
N' (mm)	φ8	φ8	φ8	φ8	φ10
P (mm)	40	44	48	57	70
Q (mm)	50	55	62	74	88
R (mm)	φ6.5	φ6.5	φ8.5	φ8.5	φ12.5
S (mm)	φ45	φ50	φ54	φ65	φ80
S' (mm)	M45×1.5	M50×1.5	M55×1.5	M65×1.5	
T (×2 pcs) (mm)	10	11	11	12	
T' (mm)	φ65	φ70	φ75	φ85	