



Features


- Compact, yet rugged design enables high clamping force from the jaws.
- Body manufactured from high tensile, anodised aluminium giving good resistance to corrosion.
- Available with sensors.
- Available with sprung loaded sensor plate.
- Low overall height with long stroke on jaws.

Specification

Type	DSHT1					
Bore	Φ 50	Φ 63	Φ 80	Φ 100	Φ 125	Φ 160
Power fluid	Filtered air with or without lubrication					
The range of pressure	1 ~ 6 kgf/cm ²					
The range of temperature	-10 ~ +60 °C (No freezing)					
Repeatability	±0.05					

* Maintenance : Re-Lubrication after appr. 1.5 million cycles recommended.

How to order

DSHT1	-	50	-	P	-	RH	-	1
Type		Bore		Spring-packaged Pressure Plate		Sensor switch		Quantity
 DSHT1		50 : Φ 50 64 : Φ 64 80 : Φ 80 100 : Φ 100 125 : Φ 125 160 : Φ 160						1 : 1pc 2 : 2pcs

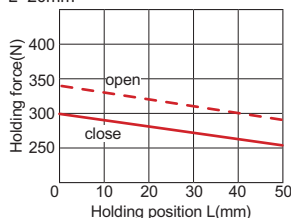
Stroke table

Bore	Φ 50	Φ 64	Φ 80	Φ 100	Φ 125	Φ 160
Stroke (mm)	8	12	16	20	26	32
Weight (g)	0.23	0.41	0.8	1.4	2.4	4.7

* Gripping force in relation to the holding position "L" at 6kgf/cm².

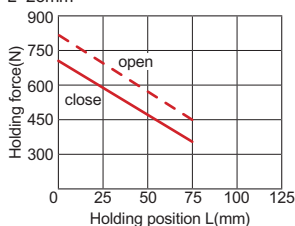
● DSHT1-50

Work pice weight 1.3kg(recome.)
L=20mm



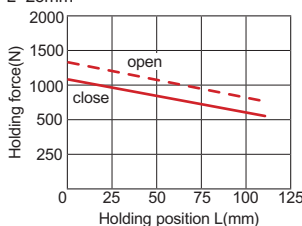
● DSHT1-64

Work pice weight 3kg (recome.)
L=25mm



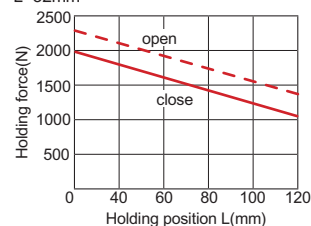
● DSHT1-80

Work pice weight 5.3kg (recome.)
L=25mm



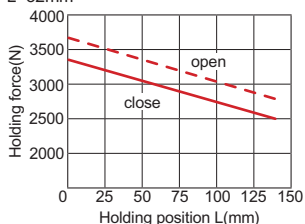
● DSHT1-100

Work pice weight 9kg (recome.)
L=32mm



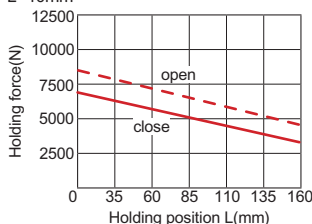
● DSHT1-125

Work pice weight 15.5kg(recome.)
L=32mm



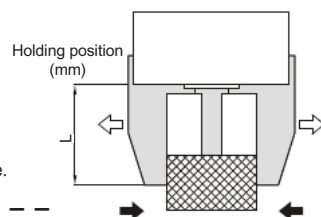
● DSHT1-160

Work pice weight 25kg(recome.)
L=40mm

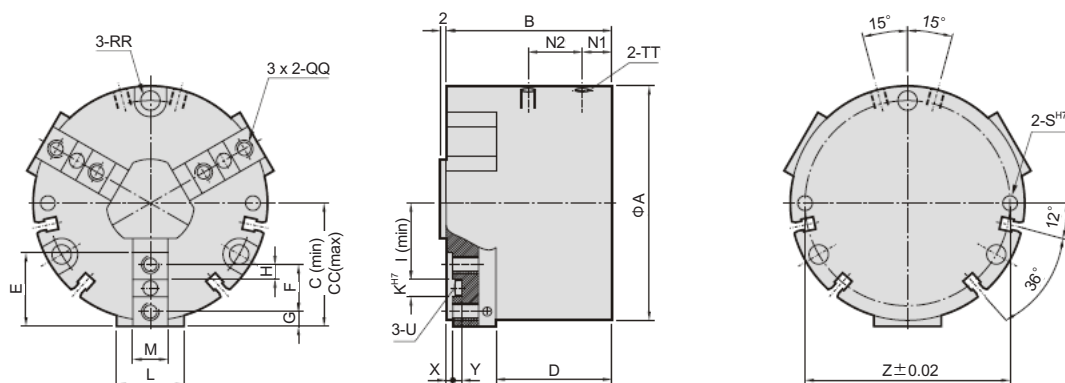


- It recommend: select a type of arithmetic holding force that can produce 10 to 20 times for work pice weight.
- With reference to the holding froce, under the condition must be considered.
- Condition: friction coefficient, great acceleration impact is expected during work pice rotate.

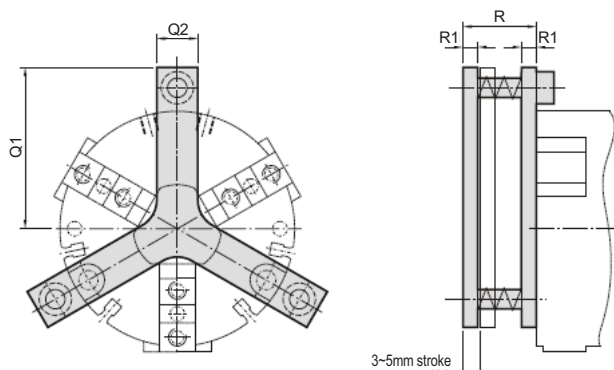
Inside holding force(↔) - - -
Outside holding force(➡) ———



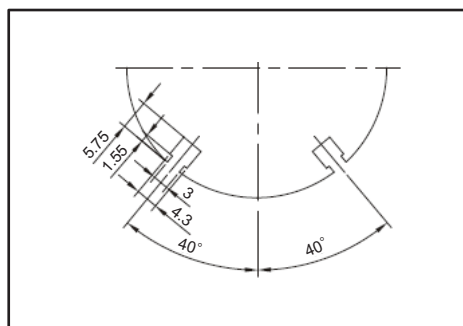
DSHT1 Dimensional features



Spring-package pressure plate (P) type



DSHT1-50 Auto switch mounting groove position



Dimensional table

Mark Bore	A	B	C	CC	D	E	F	G	H	I	K	L	M	N1	N2	Q1	Q2	R	R1
Φ50	50	39	26.5	31	28	18	12	3	3.5	15	5	14	8	8.1	14.8	38	12	25	5
Φ64	64	47.5	32	38	32	20	13	4	4	19	5	17	10	10	16.5	44	14	25	5
Φ80	80	56.5	42	50	39.5	25	16	5	5	26	6	23	12	10	22	55	14	25	5
Φ100	100	65	52	62	46	32	20	6	6	32	8	27	14	12	24	70	20	25	6
Φ125	125	76	65.5	77.6	53.5	40	24	8.5	8	41	8	30	16	13.5	28.5	85	20	25	6
Φ160	160	94	85	101	67	50	32	9	11	55	10	40	20	17	36.5	100	25	25	6

Mark Bore	RR	QQ	S	TT	U	X	Y	Z
Φ50	Φ3.4 thru, 7C/B x 5 deep P.C.D44	M3 x 0.5 x 7 deep	Φ3 x 8 deep	M5	Φ4	—	2	44
Φ64	Φ5.5 thru, 10C/B x 6 deep P.C.D56	M4 x 0.7 x 8 deep	Φ4 x 10 deep	M5	Φ4	2	2.5	56
Φ80	Φ6.4 thru, 11C/B x 8 deep P.C.D70	M5 x 0.8 x 9 deep	Φ5 x 10 deep	M5	Φ5	2	3	70
Φ100	Φ6.6 thru, 11C/B x 8 deep P.C.D90	M6 x 1.0 x 12 deep	Φ5 x 12 deep	PT 1/8	Φ6	3	3	90
Φ125	Φ8.5 thru, 15C/B x 9 deep P.C.D112	M6 x 1.0 x 12 deep	Φ6 x 16 deep	PT 1/8	Φ6	3	3.5	112
Φ160	Φ9.0 thru, 15C/B x 9 deep P.C.D146	M8 x 1.25 x 20 deep	Φ6 x 20 deep	PT 1/8	Φ6	4	4	146