

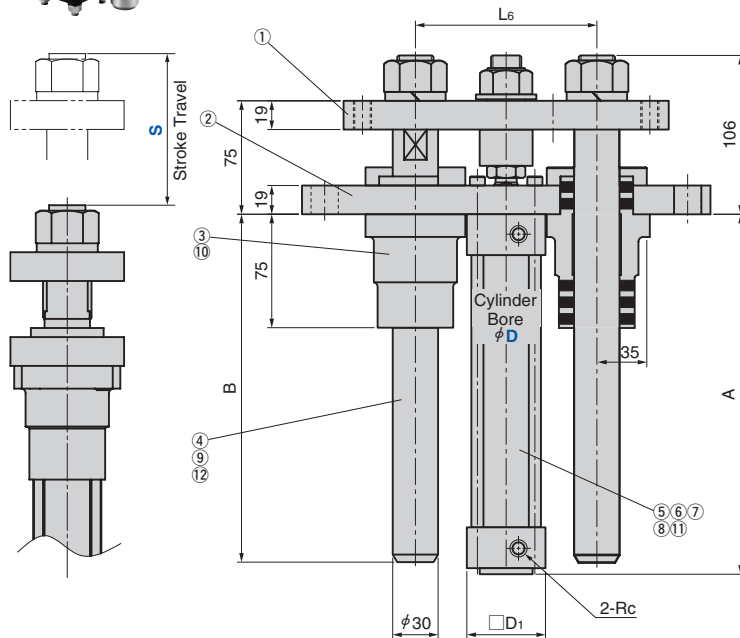
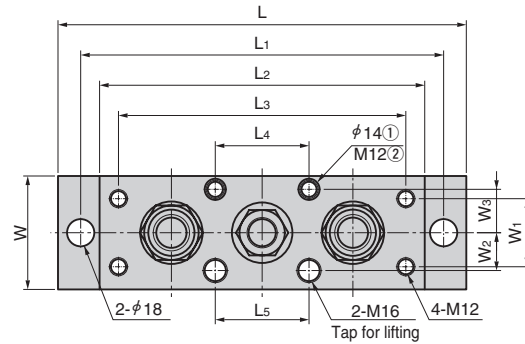
H-Type Lifter

Compact Type

Panel Transfer Components

HLSGC

CAD
FILE



No.	Description	Qty	Material and Remark
1	Lifter Plate	1	Steel
2	Cylinder Holder Plate	1	Steel
3	Guide Holder	2	SO#50F
4	Guide Pin	2	Steel
5	Air Cylinder	1	SMC (φ40) SMC (φ63)
6	Joint	1	Steel

No.	Description	Qty	Material and Remark
7	Hexagon Socket Head Bolt	4	M6 (D = 40) M8 (D = 63)
8	U Nut	1	M20
9	U Nut	2	M24
10	Hexagon Socket Head Bolt	4	M12x35
11	Flat Washer	1	M20
12	Spring Washer	2	M24

Catalog No.	Cylinder Bore D	Stroke Travel S	A	B	Rc	D1	L	L1	L2	L3	L4	L5	L6	W	W1	W2	W3
	40	50	138	130													
		75	163	155													
		100	188	180	1/4	52	270	240	215	190	66	60	120	75	45	25	28
		125	213	205													
		150	238	230													
		175	263	255													
HLSGC		50	148	130													
		75	173	155													
		100	198	180													
		125	223	205													
		150	248	230													
		175	273	255	3/8	75	290	260	235	215	96	70	145	90	70	30	32
	63	200	298	280													
		225	323	305													
		250	348	330													
		275	373	355													
		300	398	380													



Catalog No. D - S
HLSGC 40 - 150

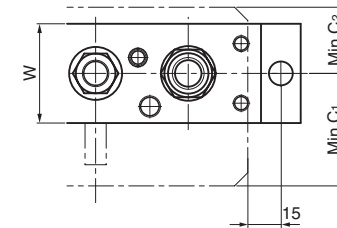
Design Guideline

Cylinder actual output Air pressure: 0.5 MPa

φ40 : Approx. 600x0.7 = 420 N

φ63 : Approx. 1,500x0.7 = 1,050 N

Refer to the dimension of the casting hole below for installation.



D	W	C1	C2
40	75	85	50
63	90	95	60

H-Type Lifter [Overview]

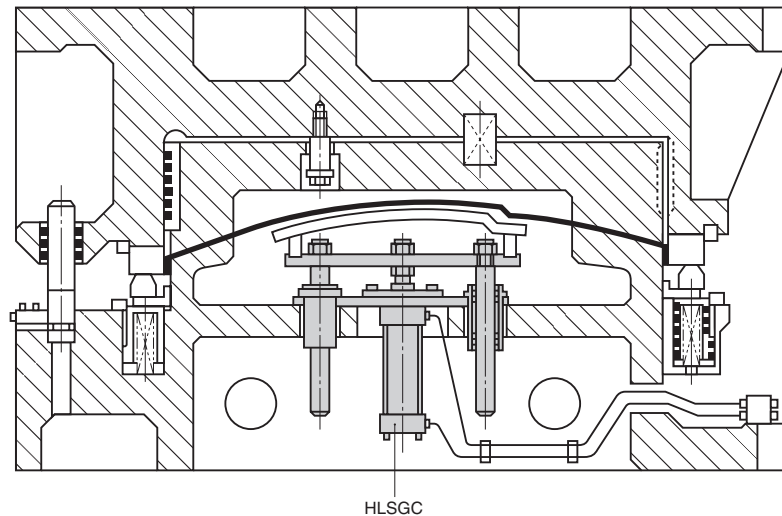
Panel Transfer Components

This H type lifter uses air pressure to lift panels in stable operation.

■Features

- The unit has a rigid structure and shows a stable function of lifting. The unit can be used without lubrication for extended periods.
- A wide range of the travel distance for lifting from 10 to 250 mm is available.
- Guide posts that do not require lubrication are used for the sliding areas.
- Various types of lifters that meet lifting of small to large panels are available.

■Example of Operation



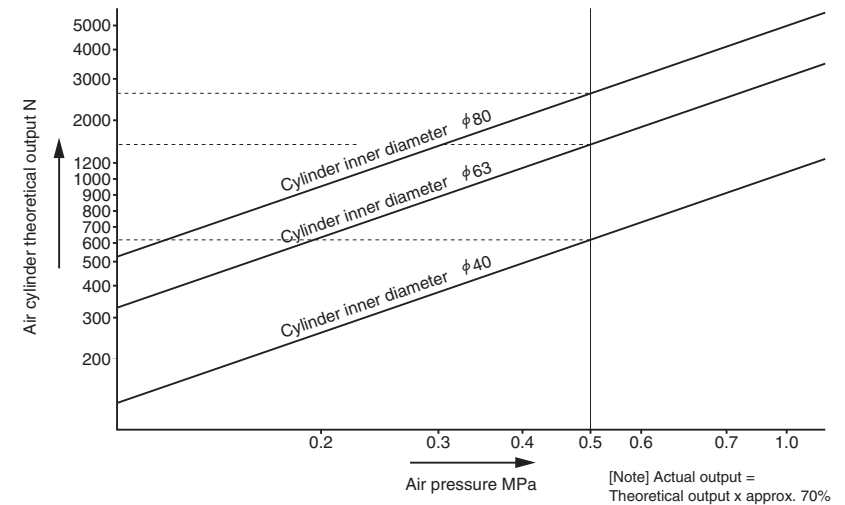
■Standard Selection Procedure of H type Lifter

When the required lifting force is 1000N and the H type lifter with the required travel of 95 mm is obtained

Step 1 The air cylinder theoretical output is $1000\text{N} \div 0.7 = 1430\text{N}$. Take the theoretical output of 1430N on the graph of top right. When the air pressure in the plant is 0.5MPa, the cylinder inner diameter is $\phi 63$ from the intersection. The appropriate type is HLSGT63-S (travel).

Step 2 In HLSGT63-S (travel), when the required travel for lifting panels is 95 mm or more, S = 100 mm. Therefore, HLSGT63-100 is obtained.

●Air Pressure and Cylinder Output



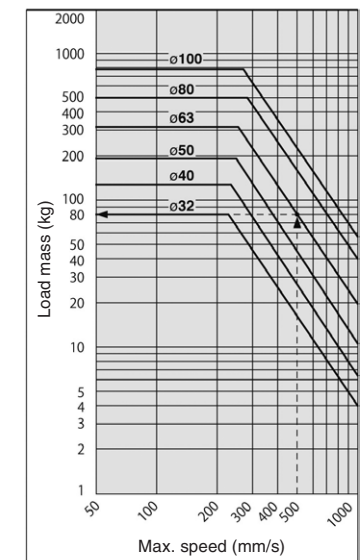
■Consideration

If the mass of the load applies excessive force to the cylinder rod tip, the cylinder rod may break. Please use within the values in the graph below. Also, use of a speed controller is recommended to control speed.

When the stroke is long, the lift plate may rattle at the top home position, so use in panel positioning is not recommended.

When precision is required, please set up a separate guide.

Permissible kinetic energy



Cylinder diameter $\phi 63$, if the maximum speed of 500 mm/s, load mass is 80 kg.