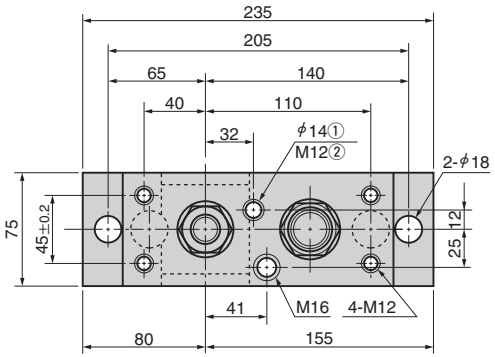
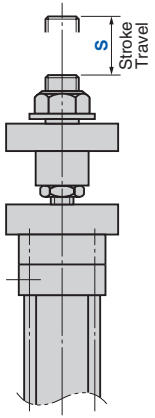
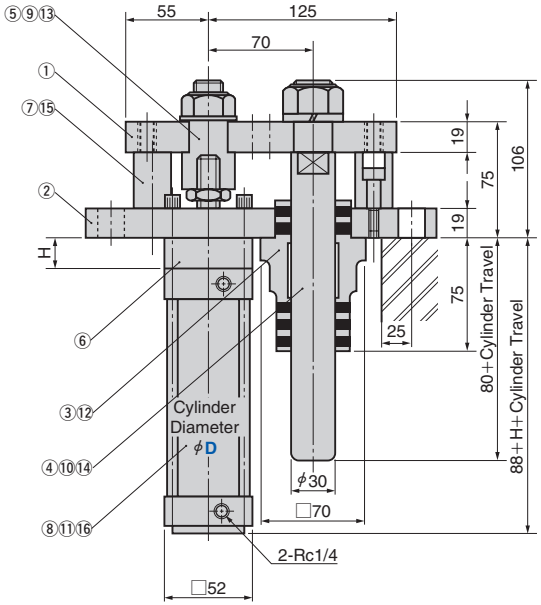
OMLGT40

CAD FILE







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

No.	Description	Qty	Material and Remark
9	U Nut	1	M20
10	U Nut	1	M24
11	Hexagon Socket Head Bolt	4	M6
12	Hexagon Socket Head Bolt	2	M12x35
13	Flat Washer	1	M20
14	Spring Washer	1	M24
15	Shoulder Bolt	2	M8x20
16	Spring Washer	4	M6

Catalog No.	Cylinder Bore D	Stroke Travel S
OMLGT	40	10～ 50 (10 mm increments)
		60～100 (10 mm increments)
		110～150 (10 mm increments)

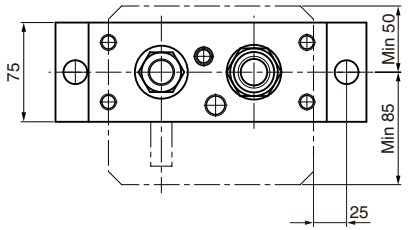
Stroke Travel S	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Block Height H	40	30	20	10	—	40	30	20	10	—	40	30	20	10	—
Cylinder Travel	50					100					150				

Order

Catalog No.	D	—	S
OMLGT	40	—	100

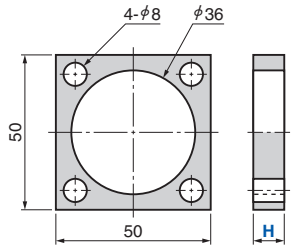
■Design Guideline

Actual output of cylinder when the air pressure is 0.5 MPa, it is approx. 600x0.7 = 420 N.
Refer to the dimension of the casting hole below for installation.



● Block (⑥) for OMLGT40

HLSPC



〈Material〉 SS400

Catalog No.	D	H
HLSPC	40	10
		20
		30
		40

Order

Catalog No.	D	—	H
HLSPC	40	—	30

H-Type Lifter [Overview]

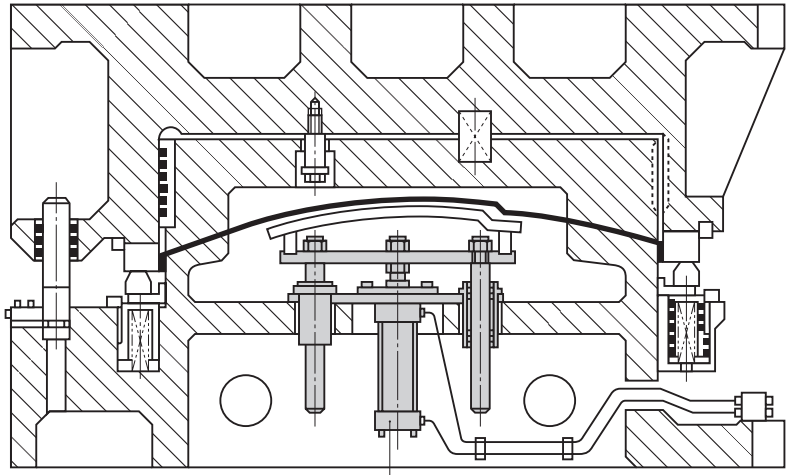
Panel Transfer Components

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



HLSGC

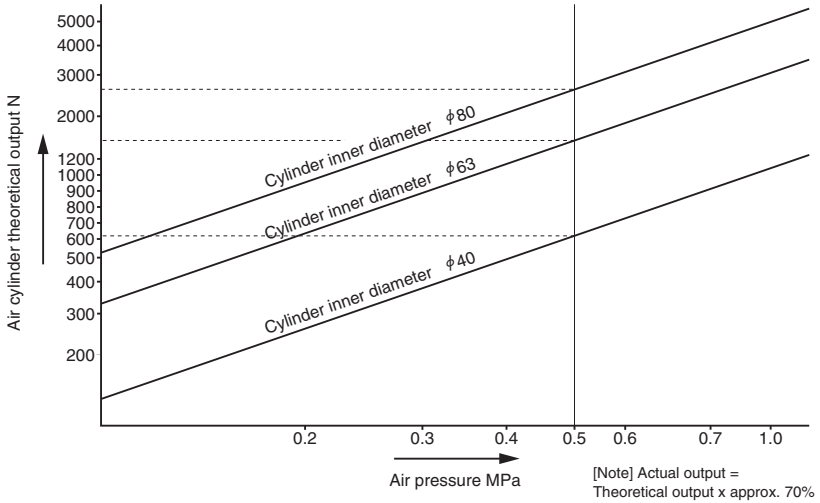
■Standard Selection Procedure of H type Lifter

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 1000N ÷ 0.7 = 1430N. 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 ϕ63 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



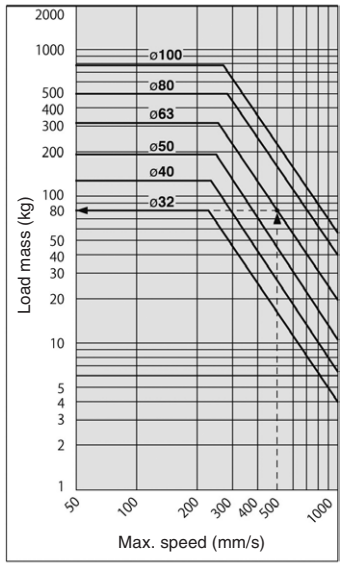
[Note] Actual output = Theoretical output x approx. 70%

■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.

Permissive kinetic energy



Cylinder diameter ϕ63, if the maximum speed of 500 mm/s, load mass is 80 kg.