

Mini Lifter

SINGLE GUIDE POST TYPE

CAD
FILE

OMLGT40

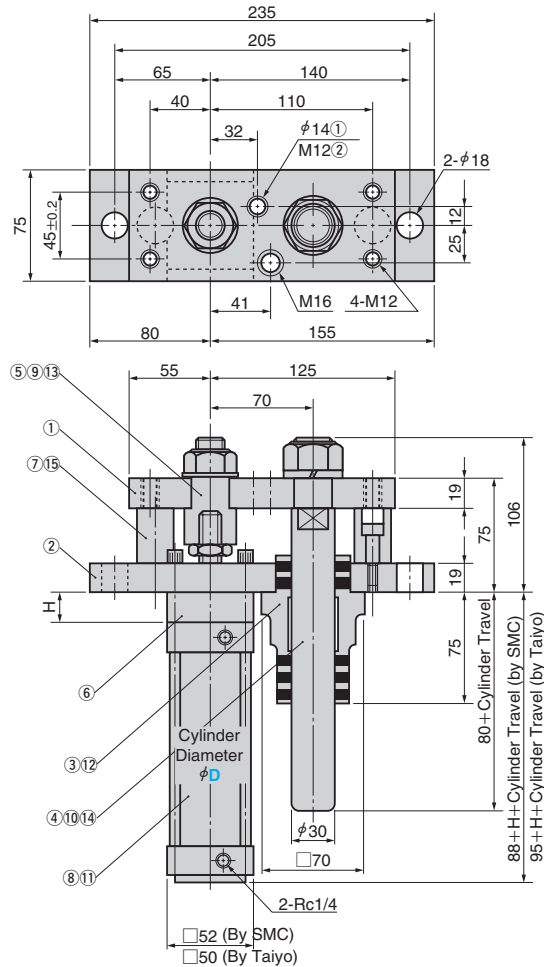
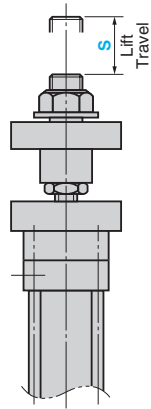


Table of Components

No.	Description	Qty	Material and Remark	No.	Description	Qty	Material and Remark
①	Lifter Plate	1	SS400	⑨	U Nut	1	M20
②	Cylinder Holder Plate	1	SS400	⑩	U Nut	1	M24
③	Guide Holder	1	FC250 with Graphite	⑪	Hexagon Socket Head Bolt	4	M6
④	Guide Pin	1	S45C HRC55 to 60	⑫	Hexagon Socket Head Bolt	2	M12×35
⑤	Joint	1	SS400	⑬	Flat Washer	1	For M20
⑥	Block	1	SS400	⑭	Spring Washer	1	For M24
⑦	Stopper	2	Urethane	⑮	Shoulder Bolt	2	M8×20
⑧	Air Cylinder (Select the type.)	(1)	MB40 (for S) by SMC 10A-6SD40B (for T) by TAIYO				

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				

Catalog No.	Cylinder Diameter D	Travel S: Increments of 10 mm	Cylinder Type
OMLGT	40	10 ~ 50	S (by SMC)
		60 ~ 100	T (by Taiyo)
		110 ~ 150	

• Actual output of cylinder
When the air pressure is 0.5MPa, it is
Approx. $600 \times 0.7 = 420 \text{ N}$.

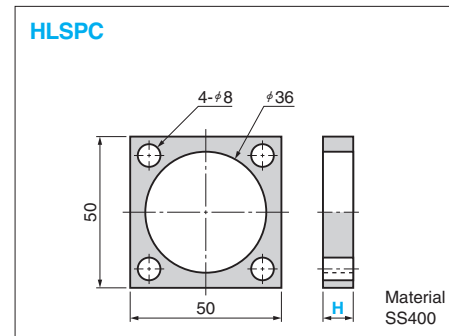
• Other cylinder type (manufacturer)
If you want to change the cylinder, please
contact the sales representative.



Order

Catalog No. D - S - Cylinder Type
OMLGT 40 - 100 - T

Block (6) for OMLGT40



Catalog No.	D	H
HLSPC	40	10
		20
		30
		40

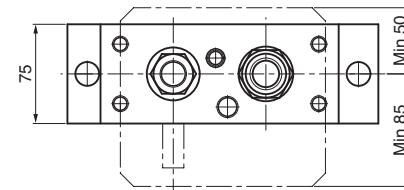


Order

Catalog No. D - H
HLSPC 40 - 30

For operation

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



Outline of H-Type Lifter

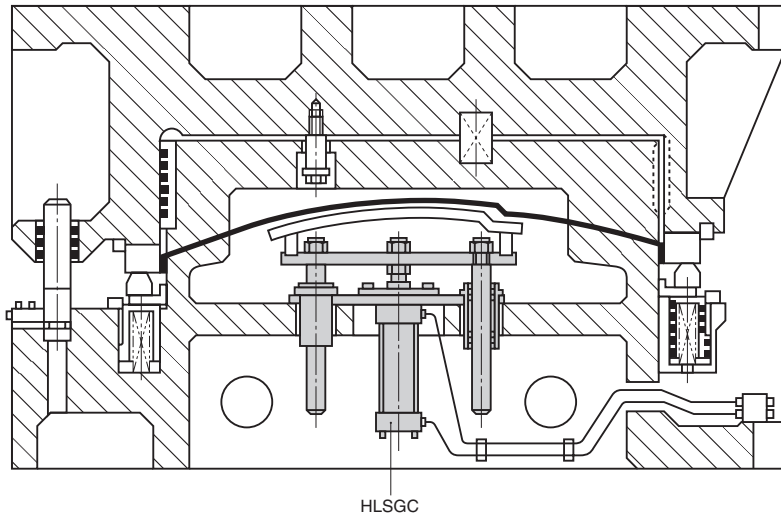
FEATURES AND SELECTION PROCEDURE

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

■ Features

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

■ Example of Operation



■ Standard Selection Procedure of H type Lifter

Step 1 Cylinder I.D. Take the value of the required lifting force (N) ÷ 0.7 on the air cylinder theoretical output of the graph of top right and obtain the cylinder I.D. from the intersection point with the air pressure of the press line.

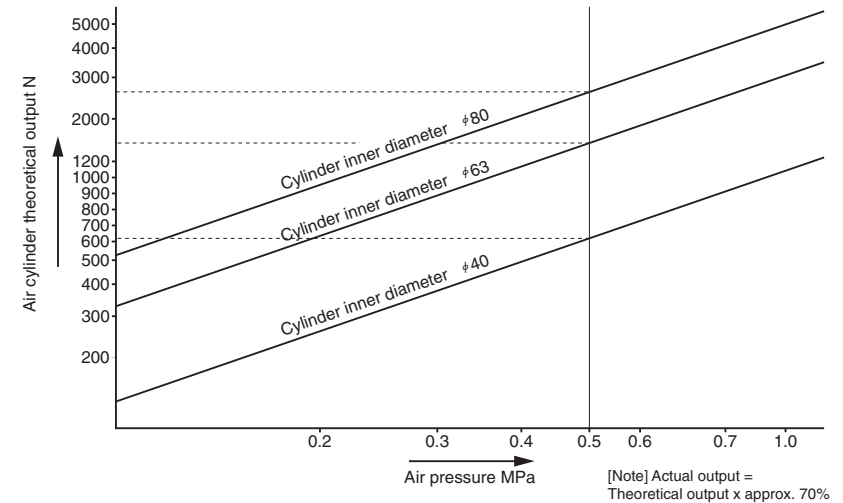
Step 2 From the inner diameter obtained in Step 1, select the standard parts from the standard table according to the required travel.

EX Example 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



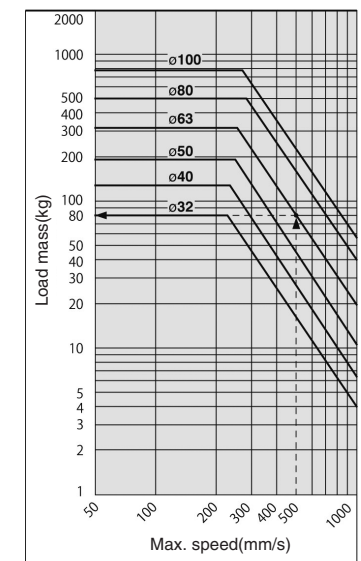
■ Precautions

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



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