Question & Answer

Notes regarding design

Q Is it possible to stop the carrier midway?

A No, it is not.

Q What is the air consumption of SM-25?

A Same as a standard cylinder with an inner diameter of ø25.

Q What speed should be assumed in m/s when considering the transportation time? (When making an approximation in consideration of the combination of rails, the difference in load weight, and various conditions such as the decelerating time and working pressure)

A Estimate at a speed of 1 m/s.
(Example: With a stroke of 20 m, 20 m ÷ 1 m/s = 20 s; this time does not include workpiece loading time.)

Q Is the max. allowable load weight equivalent to the weight of the workpiece?

A This is the total load weight that is mounted on the carrier.
The hand-chuck and Z-axis cylinder weights are included as well.

Notes regarding safety

Q Is the safety cover necessary?

A Yes, it is. Always install the cover as objects will be transported at high speeds overhead and may fall as they are air cylinders using a joint system.

Q What will happen if the carrier is not slowed down at the stroke end? (given speed of 0.5 m/s or above)

A The shock absorber may be damaged. Always be sure to use a decelerating circuit such as a shock absorbing valve (SKH series).

Notes regarding maintenance

Q Is it possible to replace the carrier rollers?

A Since specially designed tools are necessary, contact CKD as we perform overhauls for a fee.

Q Is it necessary to lubricate the carrier rollers?

A Since it uses shielded metal bearings with urethane rubber, it can be used with no lubrication.

Q How can we adjust the stroke?

A Adjustments of 10 mm forward and 10 mm backward may be made at the rail end. Refer to the instruction manual for details on how to make adjustments.

Notes regarding electric control

Q Is there a reed switch for detection of the carrier?

A No such feature is available.
Prepare a proximity sensor, photoelectric sensor, or photo sensor.

Q How should the electrical signals of the actuator mounted on the carrier be handled?

A This cannot be done as there are no parts available for supplying electricity to the reed switch, etc., for confirming operation.