

# Three-jaw long-stroke gripper with T-slot guide

GD530/GD540/GD560

## things worth knowing

### Advantages and uses

- ... long stroke combined with robust T-slot guide ...
- ... optimal guide relationship allows the use of long gripper jaws ...

- ▶ high reliability and long service life
  - ▶ centrally opening and closing
  - ▶ high precision
    - ▶ any desired installation position
      - ▶ position sensing possible through inductive proximity switch

Highlight

... ultraflat design! ...

### Characteristics

### Long-stroke ... small package

#### Function

Drive: three double-acting cylinders  
 Power transfer: via piston driving cam disk  
 Guide: T-slot guide for high momenta absorption from all sides

#### Material

Housing: hard-anodized aluminum  
 Moving parts: nitrided steel

#### Maintenance

Recommended at: 1.5 million cycles  
 Actuation: filtered high-pressure air (10 $\mu$ m), dry or oiled  
 Maintenance of the mechanics: – see owners' manual –

When you need a larger stroke and only have a small space to put it in, these grippers will save the day!

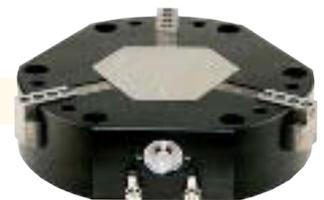
The GD540 and GD560 are only 100 mm thick but offer up to 60 mm per jaw of stroke and 2480 N of gripping force (with pneumatic versions) and 12,400 N in hydraulic versions.

The T-slot guides help to make it rigid against load deflections giving you high torque and load capacity.

## Basic explanations

### Terms and illustrations

Grip force safety device: required during pressure loss for maintaining position of workpiece  
 – pneumatic/hydraulic: through pressure retention (one-way valve required DSV 1/8)  
 Total power: arithmetic sum of the individual elements on the gripper jaws  
 Closing and opening times: required time for the gripper jaws to cover the maximum stroke length



### Models

GD5...	Drive	Stroke	Power	Internal gripping	External gripping
...N	pneumatic	large	normal	●	●
...NH	hydraulic	large	high	●	●

## Accessories

### Included with purchase:

- ▶ Centering sleeves
- ▶ Bracket for inductive proximity switch

### Accessory recommendation:

- ▶ Inductive proximity switch Page 428
- ▶ Pneumatic fittings Page 442
- ▶ Tubing Page 444
- ▶ Control valves Page 445
- ▶ Pressure safety valves Page 447

