

Parallel gripper with curved cam disk

GP500



things worth knowing

Advantages and uses

... large stroke, combined with strong grip force



... the robust one! ...
... curve controlled ...

- ▶ centrally opening and closing
 - ▶ any desired installation position
 - ▶ position sensing possible through inductive proximity switch cam

- Sommer-automatic
- Grippers**
- Separators
- Swivel units
- Rotating jaws
- Axial compensators
- Tool changers
- Linear cylinders
- Shock absorbers
- Rotary cylinders
- Air vane motors
- Vacuum components
- Accessories
- Quick finder

Characteristics

Function

Drive: pneumatic vane-type cylinders
Power transfer: cam disk

Material

Housing: hard-anodized aluminum and nicke-plated steel
Moving parts: nitrided steel

Maintenance

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

Basic explanations

Terms and illustrations

Grip force safety device: required during pressure loss for maintaining position of workpiece
– pneumatic: 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

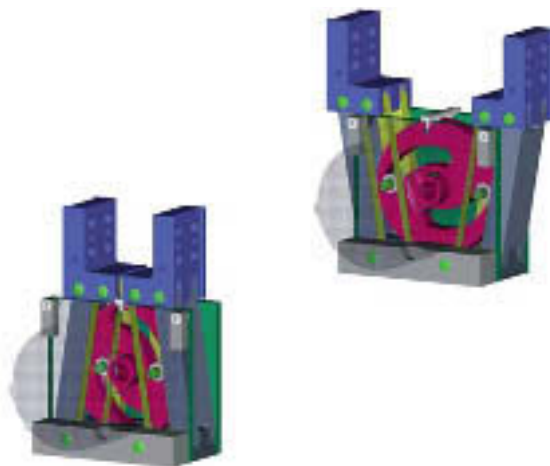
Models

GP ...	Drive	Stroke	Power	Internal gripping	External gripping
...500	pneumatic	large		•	•
...500S	pneumatic	large	high		•

Accessories

Accessory recommendation:

- ▶ Inductive proximity switch Page 428
- ▶ Bracket for inductive proximity switch Page 432
- ▶ Pneumatic fittings Page 442
- ▶ Tubing Page 444
- ▶ Control valves Page 445
- ▶ Pressure safety valves Page 447



Parallel gripper

Three-jaw gripper

Angle gripper

Internal-hole gripper

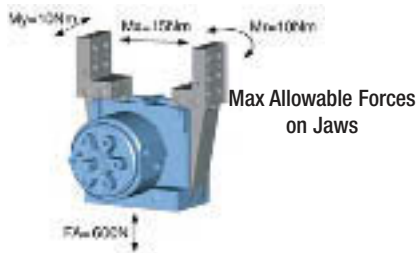
Other grippers

Electric gripper

GP500



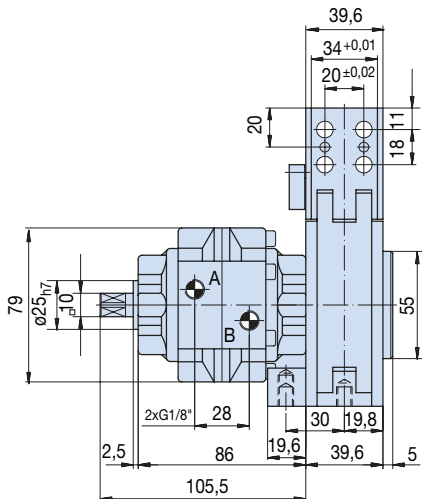
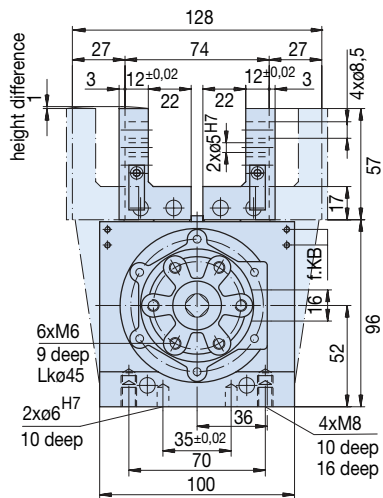
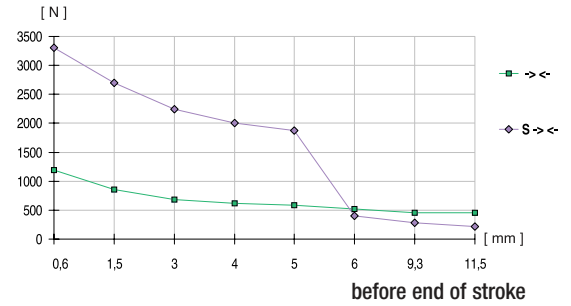
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Parallel gripper with cam disk

Advantages, benefits, comparisons and tips! Stacks of information all about this product are on page 85.

Gripping force as a function of stroke



Order no.:	
GP500	GP500 S
Drive:	
pneum.	pneum.
Stroke per jaw [mm]:	
27	25
Gripping force in closing [N]:	
1200	3300
Self-locking via:	
mech.	mech.
Closing time/opening time [s]:	
0,3	0,3
Repeatability ± [mm]:	
0,1	0,1
Min./max. operating pressure [bar]:	
4 / 8	4 / 8
Air volume per cycle [cm³]:	
72	85
Min./max. operating temperature [°C]:	
5 / 80	5 / 80
Weight [kg]:	
3,2	3,2

All data measured at 6 bar.

See Page 85 for Accessory list.