

Product



No. 1 Position

NSR-A 160 Pallet-Change-System

Product Features

Unique Selling Points:

- ✓ High locking force
- ✓ Form-fit locking with self-locking

Further product features:

- ✓ Piston stroke interrogation, and integrated tool presence control
- ✓ Compact design
- ✓ The unit is completely sealed
- ✓ The housing consists of a high-strength, hard-coated aluminum alloy
- ✓ The functional components are made of hardened stainless steel
- ✓ No oiled air is required for actuation

Market and Competitors

Key Competitors

- ✓ Unknown

Advantages towards competitors:

- ✓ Patented locking mechanism

Cost Effectiveness/ Customer Benefits

Customer Benefits:

- ✓ Compact design
- ✓ High locking force

Technical Data/ Functions

Technical Data:

- ✓ Size: 160
- ✓ Payload up to 350 kg
- ✓ Weight: 1,6 kg
- ✓ Media transfer: pneumatic, electric, fluidic
- ✓ Locking force 14.000N
- ✓ Repeat accuracy: 0,02 mm
- ✓ Moment load:
 - $M_x, M_y = 650\text{Nm}$
 - $M_z = 1600\text{Nm}$

Complementary Product:

- ✓ SWS
- ✓ GWS

Additional information

Industries and Application

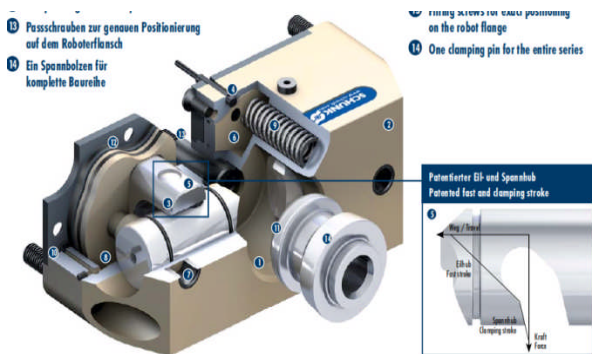
Convinces in the following industries:

- ✓ Robot applications with pallet handling and machine loading

Applications:

- ✓ Assembly and handling
- ✓ Machine loading

Cross Section



- 1) Very precise pin centering mechanism
- 2) Weight-reduced due to the use of high-tensile and hard-anodized aluminum alloy
- 3) Rust-free and hardened design of the parts within the direct power flow
- 4) Interrogation of the clamping slide position
- 5) Patented fast and clamping stroke for highest pull-in forces
- 6) Pneumatic system
- 7) Anti-twist protection for position orientation of the pallet
- 8) Turbo function
- 9) Corrosion-free, fatigue-resistant pressure springs
- 10) Can be controlled from the side or the base
- 11) Entry radii on the clamping pin
- 12) Completely sealed system
- 13) Fitting screws for exact positioning on the robot flange
- 14) One clamping pin for the entire series