

Vacuum Automation

Holder System for Tooling HT

WWW.SCHMALZ.COM/HOLDERSYSTEM-HT

Holder System HT

Overview of Highlights



Modular system

- Standard holders as a simple and quick solution for a wide range of applications
- Holder configuration with G, M or NPT threads according to customer requirements
- Combinations with various vacuum suction cups, spring plungers and decentralized vacuum generators as well as the vacuum switch VSi-HD from the Schmalz product portfolio



Lightweight and slim gripper design

- Up to 45 percent lighter than other holder systems in use in the automotive industry
- For highly dynamic processes with maximum output
- No disruptive contours thanks to functional integration



Flexible use in automotive manufacturing

- Compatible with all current tooling and quick-change systems for press shops and car body construction
- Holder HT-SG E for combining vacuum suction cups and decentralized vacuum generation with Schmalz ejector SEAC 10
- Holder HT-SG I with integrated vacuum generation as a compact, low-maintenance unit

VERSIONS AND COMBINATION OPTIONS



Holder for suction cup HT-SG



Holder for suction cup HT-SG...E



Holder for suction cup HT-SG...I



Holder for spring plunger HT-FST



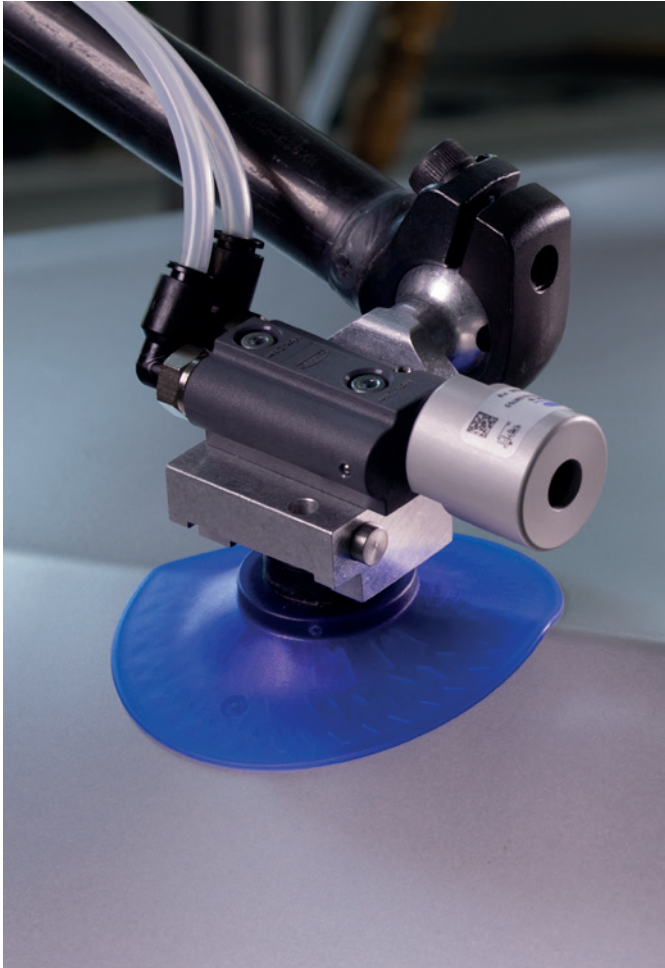
Holder for sensor HT-SE

| Type | Vacuum generation options | Combination options | | | |
|---------|---|---------------------|----------------|---------------|-------------|
| | | Vacuum suction cup | Spring plunger | Vacuum switch | Screw union |
| HT-SG | Central with compact ejector or vacuum pump | ✓ | – | – | ✓ |
| HT-SG E | Decentralized with Schmalz ejector SEAC 10 | ✓ | – | ✓ | ✓ |
| HT-SG I | Decentralized with integrated vacuum nozzle | ✓ | – | ✓ | ✓ |
| HT-FST | Central with compact ejector or vacuum pump | ✓ | ✓ | – | ✓ |
| HT-SE | – | – | – | – | – |



Holder System HT

Applications



Holder for suction cup HT-SG E with decentralized vacuum generator SEAC and bell-shaped suction cup SAX for handling car body parts



Holder for suction cup HT-SG E with decentralized vacuum generator SEAC and high-temperature suction cup SAB HT2 for handling curved car body parts

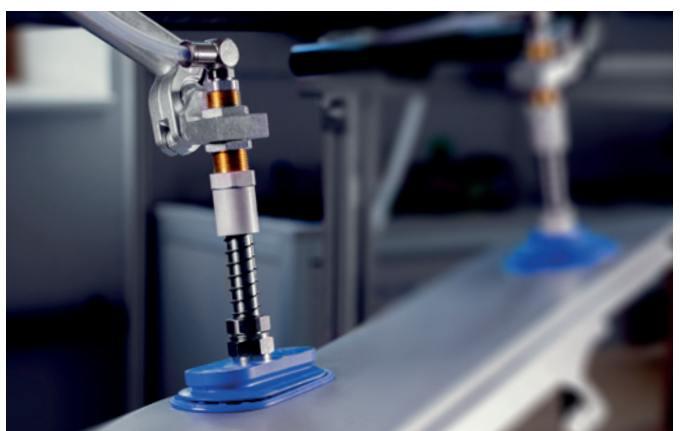


Holder for suction cup HT-SG with bell-shaped suction cup SAX for handling formed sheet metal parts

ADJUSTABLE, LIGHTWEIGHT HOLDER SYSTEM FOR THE AUTOMOTIVE INDUSTRY

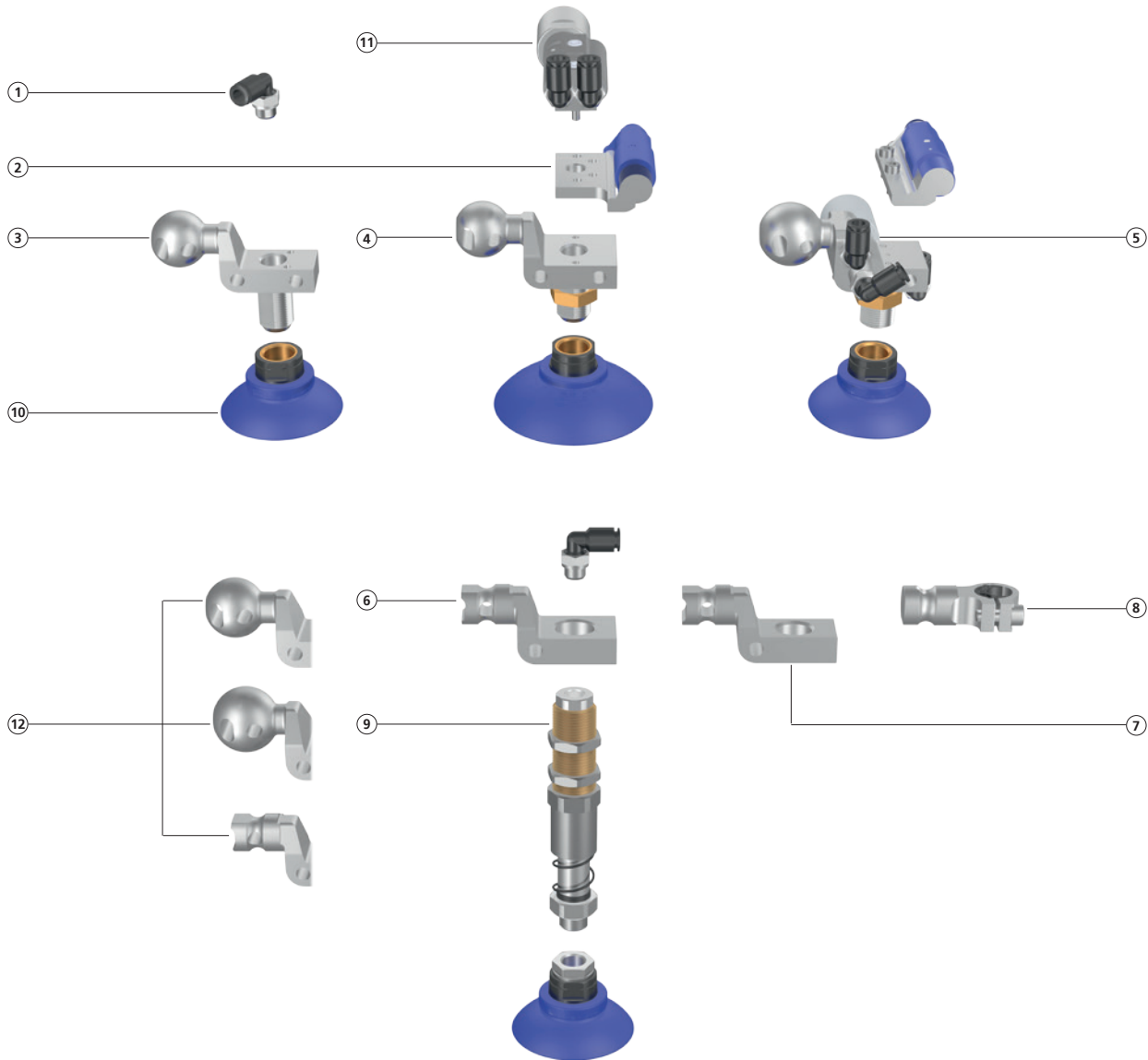
Connection of suction cups, spring plungers, sensors and vacuum generators in toolings for:

- Destacking systems
- Press automation
- Car body construction



Holder for spring plunger HT-FST with spring plunger FSTE-HDB and oval bellows suction cup SAOB for handling elongated sheet metal parts

Modular System Overview



- ① **Plug-in screw unions**
for vacuum hoses and compressed air hoses
- ② **Vacuum switch VSI-HD**
with matching holder
- ③ **Holder for suction cup HT-SG...**
in slim design
- ④ **Holder for suction cup HT-SG...E...**
for decentralized vacuum generators
SEAC (mounted on top)

- ⑤ **Holder for suction cup HT-SG...I**
with integrated vacuum nozzle
- ⑥ **Holder for spring plunger HT-FST...**
- ⑦ **Holder for sensor HT-SE...**
- ⑧ **Holder for sensor HT-SE...**
Universal holder for sensors
diameter 12 mm and 18 mm
- ⑨ **Spring plungers e.g. FSTE-HDB**

- ⑩ **Suction cups e.g. SAX**
- ⑪ **Decentralized vacuum generators e.g. SEAC**
- ⑫ **Connection to tooling beams**
 - for holder types HT-SG..., HT-FST..., HT-SE...
 - A3 - Ball diameter 28.5 mm
 - A3 - Ball diameter 32 mm
 - A2 - "Apple-core" pin diameter 19 mm

Holder System HT

Ordering and Configuration

The modular HT system provides two different holder solutions to suit differing requirements.

- An individual holder suitable for a wide variety of applications
- A custom-configured assembly

Combination with a wide variety of vacuum components from Schmalz

Selected parts of the following product families (selection) may be used in connection with the holder system HT.

VACUUM SUCTION CUPS



Bell-shaped suction cups SAX



Bellows suction cups SAB



Bellows suction cups FSGA VU1



Bellows suction cups SAOB HT2

SPRING PLUNGERS



Spring plungers FSTE-HD



Spring plungers FSTA-HD



Spring plungers FSTE-HDB



Spring plungers FSTI

VACUUM GENERATORS



Ejectors with active blow-off SEAC



Ejectors with blow-off system SEAC RP



Ejectors with atmospheric ventilation SEAC ECO



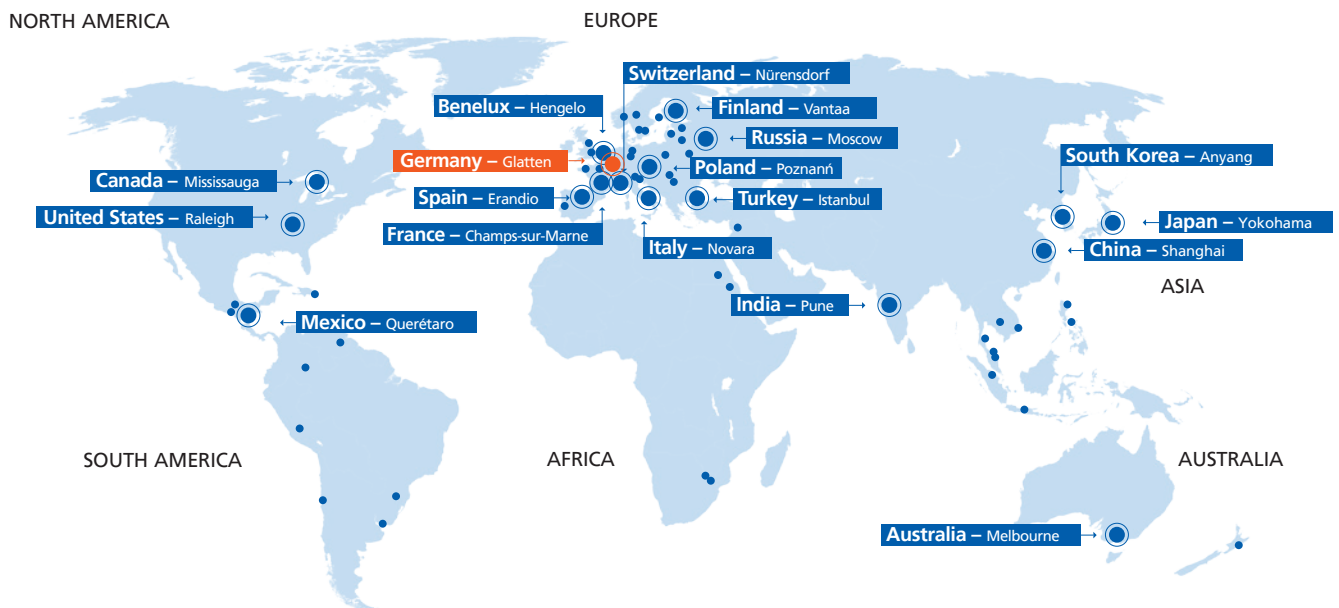
Vacuum and pressure switches VSi-HD

Ordering information

Ordering information for individual holders can be found in our online shop:
WWW.SCHMALZ.COM/HT

For custom configurations, please contact your system consultant for vacuum automation:
WWW.SCHMALZ.COM/SALES-NETWORK

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