



**AUTOMATED
PROCESS**

L I M I T E D

...innovative know-how

- Vacuum Suction Cups
 - Special Grippers
- Area Gripping Systems and End Effectors
 - Mounting Elements
- Vacuum Generators and Pumps
 - Valve Technology
- Switches and System Monitoring
 - Filters and Connections
- Vacuum Gripping Systems for Automation
 - Gripping Solutions from Schmalz for Cobots & Lightweight Robots
 - Vacuum Clamping Systems

**Vacuum
Components
and Systems**

**AUTOMATED
PROCESS
LIMITED**
innovative know-how

- [illegible]



**AUTOMATED
PROCESS
LIMITED**
...innovative know-how

- o Flat Suction Cups (round)
- o Flat Suction Cups (Oval)
- o Bellows Suction Cups (Round)
- o Bellows Suction Cups (Oval)
- o Suction Cups for Handling Sheet Metal
- o Suction Cups for Handling Wood
- o Suction Cups for Packaging
- o Suction Cups for the Electronics Industry
- o Suction Cups for Handling Glass



SPECIAL GRIPPERS

- o Floating Suction Cups
- o Magnetic Grippers
- o Needle Grippers
- o Wafer Grippers
- o Flow Grippers
- o Thin Glass Grippers
- o Feed Ejectors
- o Vacuum Lifting Cylinders



AREA GRIPPING SYSTEMS AND END EFFECTORS

- o Lightweight Gripping Systems SLG
- o Large-Area Gripping Systems FQE
- o Finger gripper
- o Bin Picker SBPG
- o Area Gripping Systems FXCB/FMCB
- o Vacuum Area Gripping Systems FXP/FMP
- o Vacuum Area Gripping Systems FX/FM
- o Area Gripping Systems FMHD
- o Vacuum End Effectors VEE



MOUNTING ELEMENTS

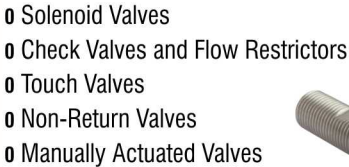
- o Spring Plungers
- o Holder for Suction Cups and Spring Plungers
- o Jointed Mountings
- o Tooling System SXT
- o Modular Gripper System PXT
- o Holder System for Tooling HT
- o Suspension Rigid/Flexible Set
- o Suspension clampable FST-C
- o Sections and Connectors



VACUUM GENERATORS AND PUMPS

- o Ejector Modules
- o Basic Ejectors
- o Inline Ejectors
- o Decentralized Ejectors
- o Compact Ejectors
- o Compact Terminals
- o Vacuum Generators End-of-Arm
- o Electrical Vacuum Generators
- o Vacuum Pumps





SWITCHES AND SYSTEM MONITORING

- o Mechanic Vacuum Switches
- o Vacuum and Pressure Sensors
- o Electronic Vacuum and Pressure Switches
- o Measuring and Control Devices
- o Warning Devices
- o Connectors and Adapters for Vacuum Switches
- o Flow sensor technology



FILTERS AND CONNECTIONS

- o Vacuum Filters
- o Vacuum Distributors
- o Hoses and Connectors
- o Vacuum Accessories



VACUUM GRIPPING SYSTEMS FOR AUTOMATION

- o Layer Gripping Systems
- o Suction Spider



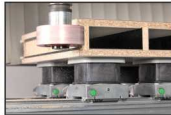
VACUUM TECHNOLOGY FOR ROBOTICS *(Gripping Solutions from Schmalz for Cobots & Lightweight Robots)*

- o Handling Sets
- o Vision & Handling Sets
- o End-of-Arm Ecosystem MATCH
- o Modular Gripper System
- o Vacuum Generators



VACUUM CLAMPING TECHNOLOGY

- o Clamping Equipment for Woodworking
- o Clamping Equipment for Glass Processing
- o Clamping Equipment for Metal and Plastic Processing
- o Clamping Equipment for 3D Freeform Surfaces
- o Vacuum Generators



OUR INDUSTRIAL SOLUTIONS AND SERVICES OFFERING



1. Liquid/gas storage/buffer tank level measurement and control
2. Liquid/solid dosing/filling/batching systems
3. Utility liquid/gas metering and inventory systems
4. Fluid loading and unloading systems
5. Industrial safety systems
6. Energy monitoring and management systems
7. Condition monitoring and control systems
8. Instrument maintenance and calibration services
9. Process plants/machines instrumentation and control
10. Compressed air quality solution according to ISO8573
11. Compressed air/gas leak detection and control
12. Control valves system design, assembly and services
13. Industrial wireless and IoT systems
14. Motors, pumps and fans monitoring and controls
15. Electrical panel building components, accessories and services

INDUSTRY

- Food and Beverage
- Pharmaceuticals
- Cement and Chemicals
- Plastics, Printing and Packaging
- Marine, Oil & Gas
- Power and Energy



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