



**Brazing station with suction arm to extract hazardous substances**

- 1 Suction hose
- 2 5/3-way directional control valve
- 3 Pneumatic cylinder
- 4 Connector joint
- 5 Shield
- 6 Transfer system
- 7 Base workpiece
- 8 Rotary unit
- 9 Burner holder
- 10 Frame
- 11 Linear unit
- 12 Brazed assembly

Suction extractor arms have the task of removing as efficiently as possible, air laden with hazardous substances (smoke gases, vapours, dust or paint spray) from the point at which these substances are released. The example shows the brazing of bushes. In the workstation, the workpiece assembly is lifted from the conveyor belt and turned at working speed through 360°. During this time, the suction shield is lowered pneumatically to a point close to the emission point. The shield is lifted again before the workpiece assembly is moved on to allow freedom of movement. Depending on the size and weight of the suction extractor device, it may be necessary to consider whether an additional linear guide is necessary or whether the lateral forces acting on the piston rod are still within the permissible range.

**Suitable components:**

Standard cylinder DNC...  
 5/3-way valve MFH...  
 Rod clevis SG... and mounting attachments  
 Proximity switch SME...  
 Linear unit SPZ...