

# widoberg

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## Application Systems for Solid, Liquid and Paste Type Materials

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Type  
Wido-Spray CE

patented

The Widoberg High Velocity Spray Guns have been operating successfully for years, even when used for the application of highly abrasive emulsions.

Principally they are made for intermittent spraying. Depending on the used model, the spray volume can be regulated between 0.2 and 6 cm<sup>3</sup>.



Type  
HDP-II CE

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The Widoberg High Velocity Spray Guns are specially designed for the application of abrasive polishing emulsions and lubricants. The design has been used successfully throughout the world on grinding and polishing machines. The gun has been proven to use up to 25 % less emulsion than other types of application systems. It is operated by compressed air and is controlled by a solenoid or foot operated valve. When the piston is actuated with compressed air, the plunger is pushed into the cylinder.

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Due to the extreme ratio between piston and plunger, an overpressure is built up inside the gun, the needle valve opens and the material will be ejected through the nozzle.

The high velocity of the shot enables the emulsion to cut through the air turbulences caused by the wheel rotation and to penetrate the mop.

A knurled knob allows a precise adjusting of the shot quantity.

## **HDP-II**

This model has a higher pressure ratio than the model WIDO-SPRAY and therefore is more suitable to spray compounds over a larger distance or deeper into the buffing wheel for example.

The gun can spray between 0.2 and 3 cm<sup>3</sup> per shot.



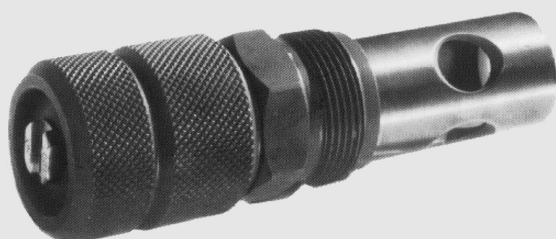
## **WIDO-SPRAY**

The gun of the type WIDO-SPRAY differs from the model HDP II in the following:

The spray volume is twice as that of the HDP II and therefore especially suited for buffing wheels with a large diameter. The pressure ratio is smaller and the gun sprays softer. The functions of the gun can be monitored electronically.

A central valve cartridge (see picture) includes nearly all wearing parts and can be changed quickly.

**Ventilkartusche**



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# High Pressure Gun with electronic control system type WIDO-CONTROL

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## WIDO-CONTROL I

The electronic control system WIDO-Control I is designed to permanently monitor the operating functions of the gun. The system checks if pressure has been built up or if the spraying process has been initiated.

The control unit checks whether a fault occurs in three successive spraying processes.

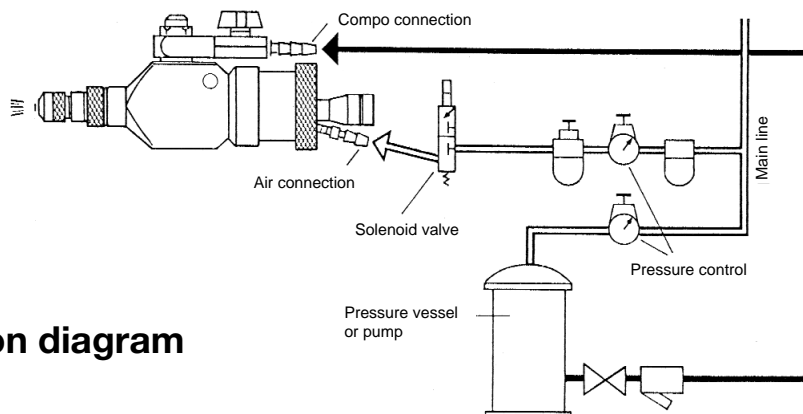
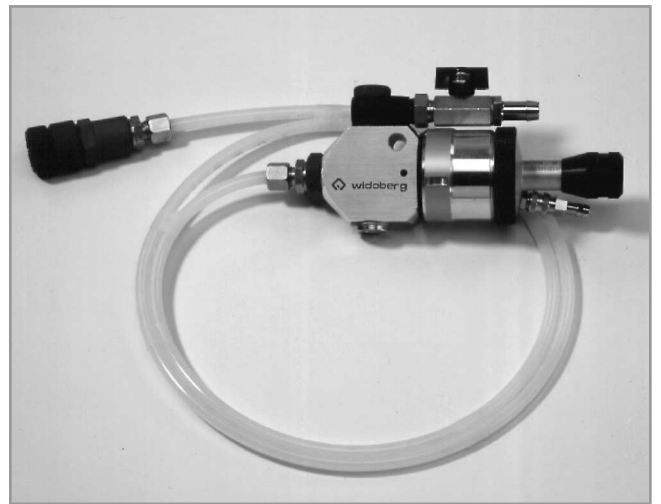
And then the registered fault is indicated.

The following faults are indicated.

- a) nozzle clogged
- b) leaking check valve
- c) valve piston blocked
- d) no or insufficient compressed air

The occurrence of a fault will be shown by LED and the signal can be processed.

Especially for the use at difficult accessible places, we recommend our new model **WIDO-SPRAY Special** with a flexible extension.



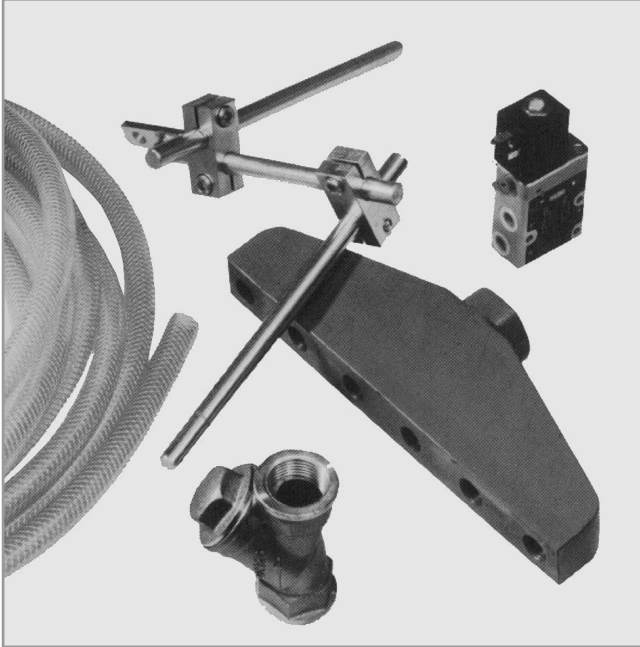
**Installation diagram**

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## Accessories

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We supply all accessories such as solenoid valves, gun mounting devices, compound feeding pumps, pressure tanks as well as air and compound hoses.



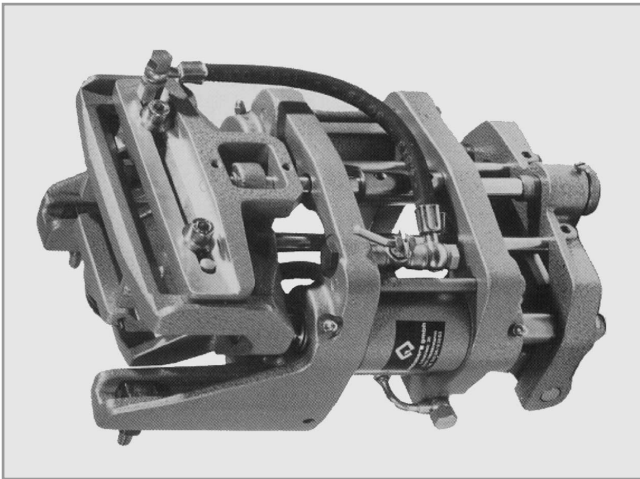
Widoberg barrel-nozzles consisting of a special alloy and a barrel shaped compression chamber developed through many experiments guarantee long life and a constant spray angle even when spraying very abrasive materials.

Spray angle:  
40°, 65°, 90°, 120°



Widoberg standard nozzles of a high grade tungsten carbide are suited for less abrasive materials.

Spray angle:  
0°, 20°, 40°, 65°, 90°, 120°



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## Widoberg applicators for solid compound (bars)

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**Model WPZ 80** for maximum bar dimensions of 500 x 80 x 40 mm (19 5/8" x 3 1/8" x 19/16" high).

**Model WPZ 150** for maximum bar dimensions of 500 x 150 x 40 mm (19 5/8" x 5 7/8" x 19/16" high).



**widoberg  
gmbh**

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