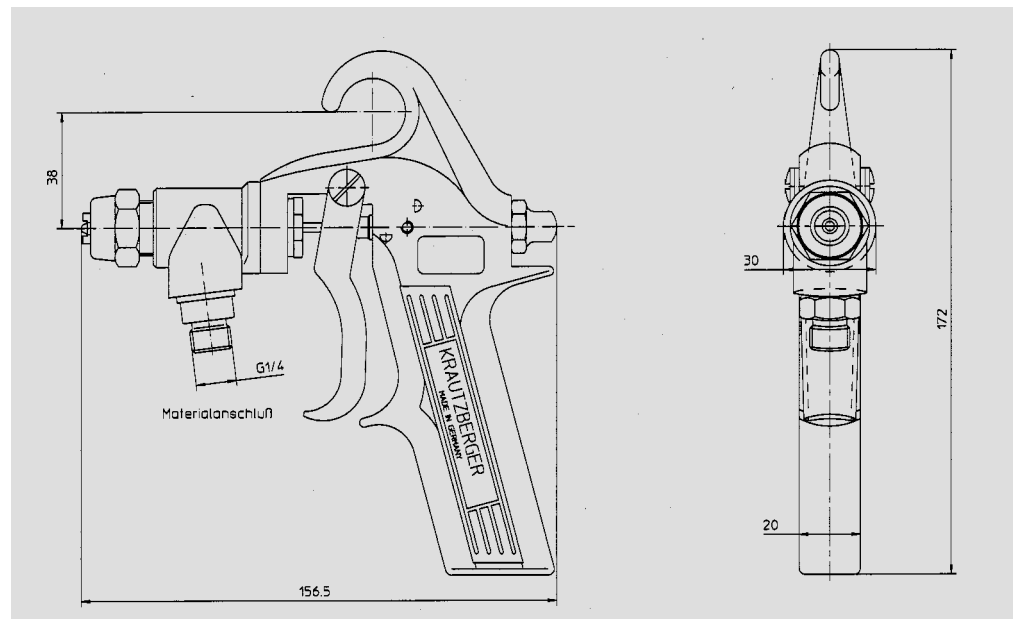


The airless spray gun KS1-D Dickstoff, for high-viscosity materials

The airless spray gun KS1-D Dickstoff is fitted with material passages with extended cross-section and is used for application of highly viscous materials to coating surfaces. The coating material is fed to the spray gun in liquid form under high material pressure.

The spray gun works on the "airless" principle – in other words, the spray jet is generated solely by the high fluid pressure as it passes through a nozzle. After exiting the nozzle, the spray jet takes on the shape dictated by the nozzle. The jet is directed at the workpiece, and the effective spray jet is not quite as wide as theoretically possible.

The particles of the spray jet reach far higher speeds than with spray guns driven by compressed air. Accordingly, the material throughput is higher and the jet more focused (in other words, the swirling zone is smaller). The size and shape of the jet can only be altered by changing the nozzle. The diameter of the nozzle bore determines the material flow volume, while the size and geometry of the el-



liptically shaped nozzle opening determine the height and width of the jet (shape of an elliptical cone).

A wide range of airless nozzles are available. The nozzle can be rotated through a 360° in the axis of the spray jet and arrested in any position. This permits optimum adjustment of the angle at which the jet hits the workpiece to the prevailing conditions. The KS model is particularly suitable for use where comparatively large volumes of material are to be processed per unit of time. Compared to spray guns driven by compressed air, a further advantage is that there is less spray mist, ensuring that a far greater proportion of coating material reaches the target surface. Circulation connection is also possible.

Technical data

Operating pressures / Operating temperature

Max. material pressure: 50 MPa (500 bar)
Max. material temperature: 50 °C

Connections

Material connection: G1/4 AG

Weight (without add-on parts)

KS1 ca. 470 g
KS1 with material feed pipe ca. 580 g

Noise emission

Contin. sound pressure level, nozzle-dependent: 60 to 90 dB (A)



Head section	Aluminium	Stainless steel
	x	+
Material connection	Standard	Stainless steel
with rigid connection	x	+
with swivel connection	-	+

The gun is supplied without nozzle.

Please see the selection chart under "Accessories-Nozzles-Airless atomisation" for information on available nozzles.