

## Datasheet of ESR 350 X3 Air grinding spindle



### Description

35.000 min<sup>-1</sup>, 300 Watt

Here is our contribution for your demanding **100% deburring**: Mannesmann Demag Air spindle ESR 350 X3 with manually adjustable compensation force. **High quality matching cost reduction** when the chips are down: for example with gear-boxes, axle- or machine housings.

The **high speed spindle** has a **radial** (360°) and an additional axial compensation in Z-axis. With the radial compensation the spindle is highly suitable for the **deburring** of undefined edges. Axial forces may act on the spindle due to the unfinished castings surfaces. The compensation in Z-axis absorbs these loads and prevents the spindle from being damaged. Created with a set of springs, the user can **easily set the compensation force by an adjusting ring**. This allows a **quick** adaption to different materials or parts.

The actuation is made while the **main machine spindle stands still**. The air supply is made through the inner coolant supply line or – for low-end lathes – through the optional hose connector at the lateral direct connection.

The high **rotational speed of 35.000 rpm** combined with the adjustable compensation force results in high feeding rates, non-shattering work and an optimized smooth surface without carbide tip cooling. The cylindrical shaft Weldon 20 adaptor of the spindle according to DIN 1835-E20 allows an **easy mounting on all taper models** and a **use in the ATC magazine**. The **unsupported length of only 219 mm** allows an integration in the common CNC-machines.

The maximum radial compliance is 10°. The maximum axial compliance is 3 mm. This allows a **trouble-free working** with the most common part tolerances of castings in a multi-shift operation.

Besides the savings of **reduced waste** and savings in manual labour time with all imponderability also the **internal logistics are factors for cost reduction**. All data related to 6.3 bar working pressure.

### Details

Idling speed rpm:	35000
Air supply:	lubricated
Power in kW:	0,3
Radial deflection:	+/- 4°
Direction of rotation:	Rotating clockwise
Exhaust Air:	to front
ER collet in mm:	6
Fully variable force of compliance in N:	10 - 40
Noise level in dB(A):	79
Air consumption in l/s:	8,3
Accessories supplied:	Wrench
Anschluss Zuluftschlauch (Blitz) ø mm, innen \ außen:	6 \ 8
Item number:	60051755
Weight in kg:	1,8

### Dimensions