

## Diamond Roller Dressing Spindle



With and without body acoustic sensor



Due to our decades of experience and development work, we supply today dressing spindles conforming to today's most demanding requirements.

Smooth running with excellent concentricity and traverse run-out of max. 2  $\mu\text{m}$  characterise our precision dressing spindle. It is fitted with a specially developed bearing of the highest precision with grease lubrication.

The dressing spindle is designed for dressing CBN and conventional grinding wheels. The well proven design assures a long service life.

## Diamond Roller Dressing Unit



for flat grinders, round grinders, internal circular grinders and slide way grinders



Our truing devices with diamond rolls fulfill the specific requirements for diamond truing rolls. Performance and accuracy of the grinding wheel truing operation are decisively determined by the truing device in which the diamond truing roll is used.

Our truing devices are distinguishing themselves by a rigid design. Good damping capacity is guaranteed due to the basic construction in annealed cast-iron (GG25).

The diamond roll is driven by an asynchronous motor, a three-phase motor, or a hydraulic axial piston motor. The asynchronous motor may be controlled up to a frequency of 100 CPS using a frequency converter.

The mandrels for diamond rolls may be grease-lubricated for life or oil-mist lubricated. The sense of rotation is ad lib, the device may be used for clockwise or anti-clockwise operation.

Quick changing of the diamond roll together with the mandrel for the diamond roll is possible. The maximum admissible radial and thrust run-out amount to 2 $\mu\text{m}$ .

## Diamond Roller Arbors



for various Diamond roller dressing units



Smooth running is very important when truing a grinding wheel using a diamond roll. This is achieved using our mandrels for diamond rolls. A special design and highest precision of the bearings incorporated serve to obtain optimum results.

Mandrels for diamond rolls are executed in ultra precision. Radial run-out and side run-out of the mandrel for the diamond roll are specified with a tolerance of 0.002mm in radial and axial direction and thus ensure essential conditions for optimum and economic truing operations using a diamond roll.

Mandrels for diamond rolls, used for diamond roll truing devices, are either grease-lubricated for life or oil-mist lubricated. The sense of rotation, either clockwise or anticlockwise, may be selected as required.

For a quick exchange of the diamond roll, the complete set of diamond roll on its mandrel is provided.

For every diamond roll a diamond roll mandrel should be provided.

When exchanging the complete unit of mandrel and diamond roll the following advantages result:

The supplier of the diamond roll may mount the diamond roll on the mandrel, thus optimizing radial run-out and side run-out

Quick changing of diamond roll with mandrel.

Low wear of diamond roll mandrel

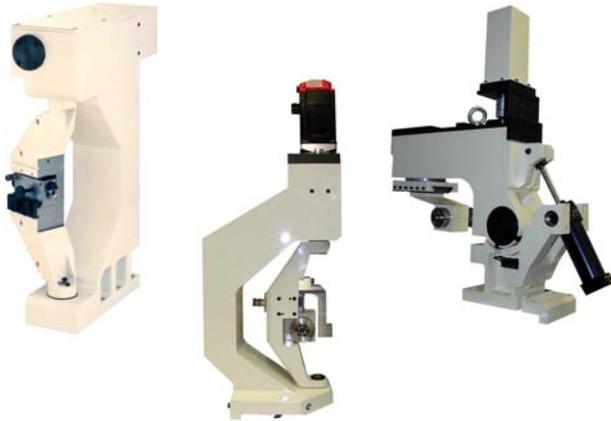
Low wear of diamond roll.

Better results for truing operation.

## Radius Truing Devices



for various grinders



We produce radius truing devices, both overhung mounted and twin grip, for truing of convex and concave radii for a variety of grinding wheel dimensions. An optimum truing result as regards run-out is essential for the grinding operation. Depending on the type of the radius truing device a single point truing diamond or a truing spindle with diamond disk may be used. The uniform swivelling motion is generated using a geared DC-motor, a three-phase servomotor or a hydraulic rotary drive.

Our radius truing devices are outstanding due to their perfect precision and the execution backlash-free in radial and axial direction with a form error of  $\pm 1\mu\text{m}$ .

We develop, produce and supply radius truing devices specially designed for Your machine.

## Repair service



mandrels for diamond rolls,  
truing spindles and grinding spindles



Our competent personal will repair Your mandrels for diamond rolls, truing spindles and grinding spindles

Our well organized Service ensures short terms of delivery, often within 1 - 2 weeks.

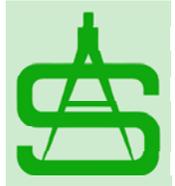


The profound knowledge and experience with high precision bearings for differing spindle systems is used for repair and overhaul of different spindle systems.

Due to our experience over the years we are able to repair spindle systems of all makes.



The competence of our qualified personal ensures perfect repairs and maintenance in highest quality.



# STEINMETZ

## Schleiftechnik

Since 1967 STEINMETZ truing devices with diamond rolls, mandrels for diamond rolls, truing spindles and diamond truing equipment are successfully used for all kinds of grinding problems.

**Dressing technology  
in highest precision**

**We Shape Your  
Grinding Wheel**

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