

# Burnishing rolls



RRA



RRE

zeus burnishing rolls can be used in standard zeus form knurling tools. On request, we can develop and produce a custom holding system.

Use in this tool system is suitable for machining cylindrical workpieces, bores, end faces, conical workpieces and for convex and concave outer contours.

## Applications:

zeus burnishing rolls are used primarily for roller-burnishing and supporting round material during machining on lathes.

## Advantages:

- Burnished workpieces exhibit low friction and increased resistance to corrosion after machining
- Reworking, such as grinding, honing and lapping can be replaced by simple roller-burnishing machining
- When used as support rolls, they reduce wear on the bearings and clamping devices and minimise the pressure on the workpiece

## Result:

- Improved surface quality
- Increased dimensional stability
- Increased hardness of surfaces

## Burnishing roll type RRA – cylindrical

| Type | Dimension [mm] |       |      | Version                    |                            |                                     |
|------|----------------|-------|------|----------------------------|----------------------------|-------------------------------------|
|      | Ø              | Width | Bore | N° 04<br>polished, Rz 4 µm | N° 05<br>ground, Rz 2–3 µm | N° 06<br>ground & polished, Rz 1 µm |
| RRA  | 10             | 4     | 4    | ✓                          | ✓                          | ✓                                   |
|      | 15             | 4     | 4    | ✓                          | ✓                          | ✓                                   |
|      | 20             | 8     | 6    | ✓                          | ✓                          | ✓                                   |
|      | 25             | 8     | 6    | ✓                          | ✓                          | ✓                                   |

## Burnishing roll type RRE – convex

| Type | Dimension [mm] |       |      | R | Version                    |                            |                                     |
|------|----------------|-------|------|---|----------------------------|----------------------------|-------------------------------------|
|      | Ø              | Width | Bore |   | N° 04<br>polished, Rz 4 µm | N° 05<br>ground, Rz 2–3 µm | N° 06<br>ground & polished, Rz 1 µm |
| RRE  | 10             | 4     | 4    | 2 | ✓                          | ✓                          | ✓                                   |
|      | 15             | 4     | 4    | 2 | ✓                          | ✓                          | ✓                                   |
|      | 20             | 8     | 6    | 6 | ✓                          | ✓                          | ✓                                   |
|      | 25             | 8     | 6    | 6 | ✓                          | ✓                          | ✓                                   |