### **Application**

The zeus burnishing tool is an all-rounder for all classic applications when burnishing surfaces – whether on cylindrical, conical, convex or concave surfaces. It is also possible to work on plane surfaces.





# zeus **Burnishing Tool**

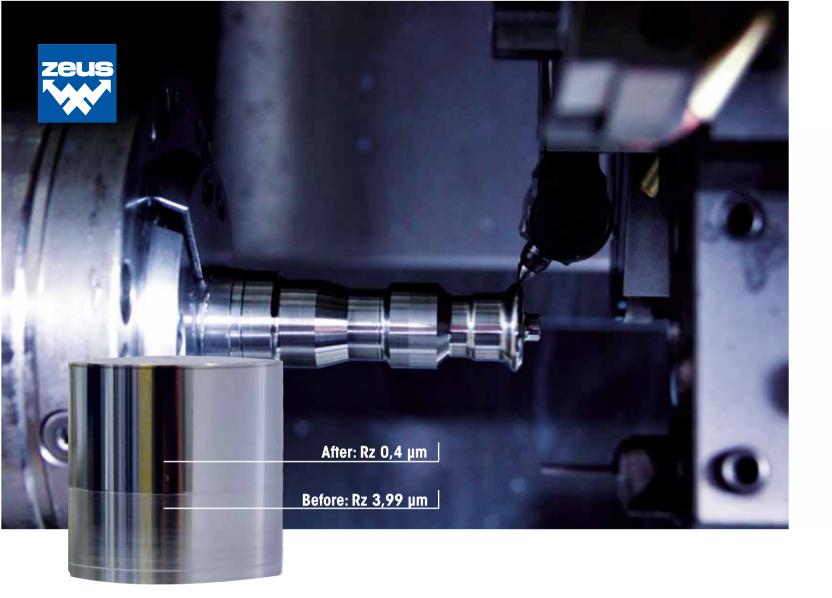
zeus – a brand of Hommel+Keller



PRÄZISIONSWERKZEUGE

### Hommel+Keller Präzisionswerkzeuc

Präzisionswerkzeuge GmbH 78554 Aldingen · Germany Tel. +49 7424 9705-0 info@hommel-keller.de



#### The convincing benefits of the zeus burnishing tools:

- TOP-CLASS SURFACE QUALITY (Rz < 1 µm)
- BURNISHING HIGH-STRENGTH MATERIALS (UP TO 65 HRC)
- **TOP SURFACE QUALITY -** The cold deformation compresses and strengthens the surface. It is thus more resistant to wear and corrosion.
- **FASTER & COST-EFFECTIVE** The zeus burnishing tool integrates the burnishing of a component into the machining process on a machine. It can replace subsequent processing steps such as sanding, polishing, superfinishing, honing or hardening.
- **FLEXIBLE** zeus burnishing tools allow burnishing of larger diameters but also the smallest geometries or the internal burnishing of bores.
- **COMPACT DESIGN -** Can be used on machines with limited work space.

## Burnishing Tool SET 510



#### **Features**

#### ■ Fixed tool head

■ Can be adjusted up to  $\pm 10^{\circ}$ thanks to integrated setting options in the shaft

#### Recommendations

- To burnish ripples with cylindrical surfaces – limited cones and radii
- Burnishing speed up to 200 m/min
- Feed rate up to 0.2 mm/U
- Workpiece measurement of 0.01 mm (~Rz 10) and 0.02 mm (~Rz 20)
- It is recommended to use a cooling lubricant

#### **Features**

■ Tool head is variably adjustable ■ Burnishing speed up to

Recommendations

- 200 m/min ■ Tool with universal application
- Swivel range ±90°
- Thanks to the adjustability of the tool head, it is possible to burnish plane surfaces, conical, convex and concave geometries 

  It is recommended to use
- Application up to a shoulder
- Feed rate up to 0.2 mm/U
- Workpiece measurement from 0.01 mm (~Rz 10) and
- a cooling lubricant

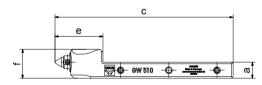
0.02 mm (~Rz 20)

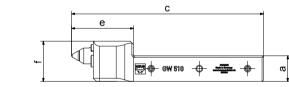


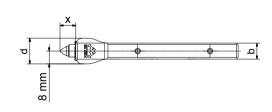
Ordor No	Tool holder designation	Basic shaft [mm]			Including shaft adapter					
Order No.			а	b	С	d	е	f	Х	[mm]
31002859	510-10U	10 x 10	10	10	110	16	30	18	9	12 x 12 16 x 16
31002860	510-16U	16 x 16	16	16	119.5	20	39	25	13.5	20 x 20 25 x 25

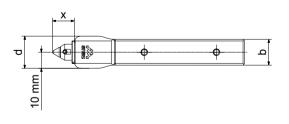
#### Sets delivered without diamond tip

TOOL VERSIONS









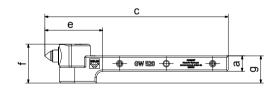
#### DIAMOND TIP VERSIONS

	Tip radii [mm]	Order No.
P.	0.4	06TGW0008
<u></u>	0.6	06TGW0009
	0.8	06TGW0010
	1.0	06TGW0011

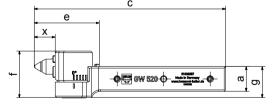
#### TOOL VERSIONS

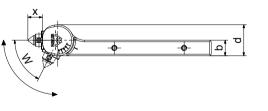
Order No.	er No. Tool holder Basic shaft		Dimensions [mm]								Angle [°]		Including shaft adapter
0.0.0	designation	[mm]	а	b	С	d	е	f	g	Х	+W	-W	[mm]
31002803	1002893 520-10R	10 x 10	10	10	118.5	20	36	25	17.5	9	75	-	12 x 12
31002073													16 x 16
31002857	520-16U	16 x 16	16	16	123.5	24	42	30	20	13.5	90	90	20 x 20
													25 x 25

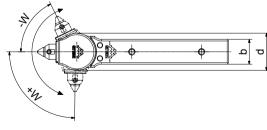
#### Sets delivered without diamond tip



Burnishing Tool SET 520







#### DIAMOND TIP VERSIONS

Tip radii [mm]
0.4
0.6
0.8
1.0

