



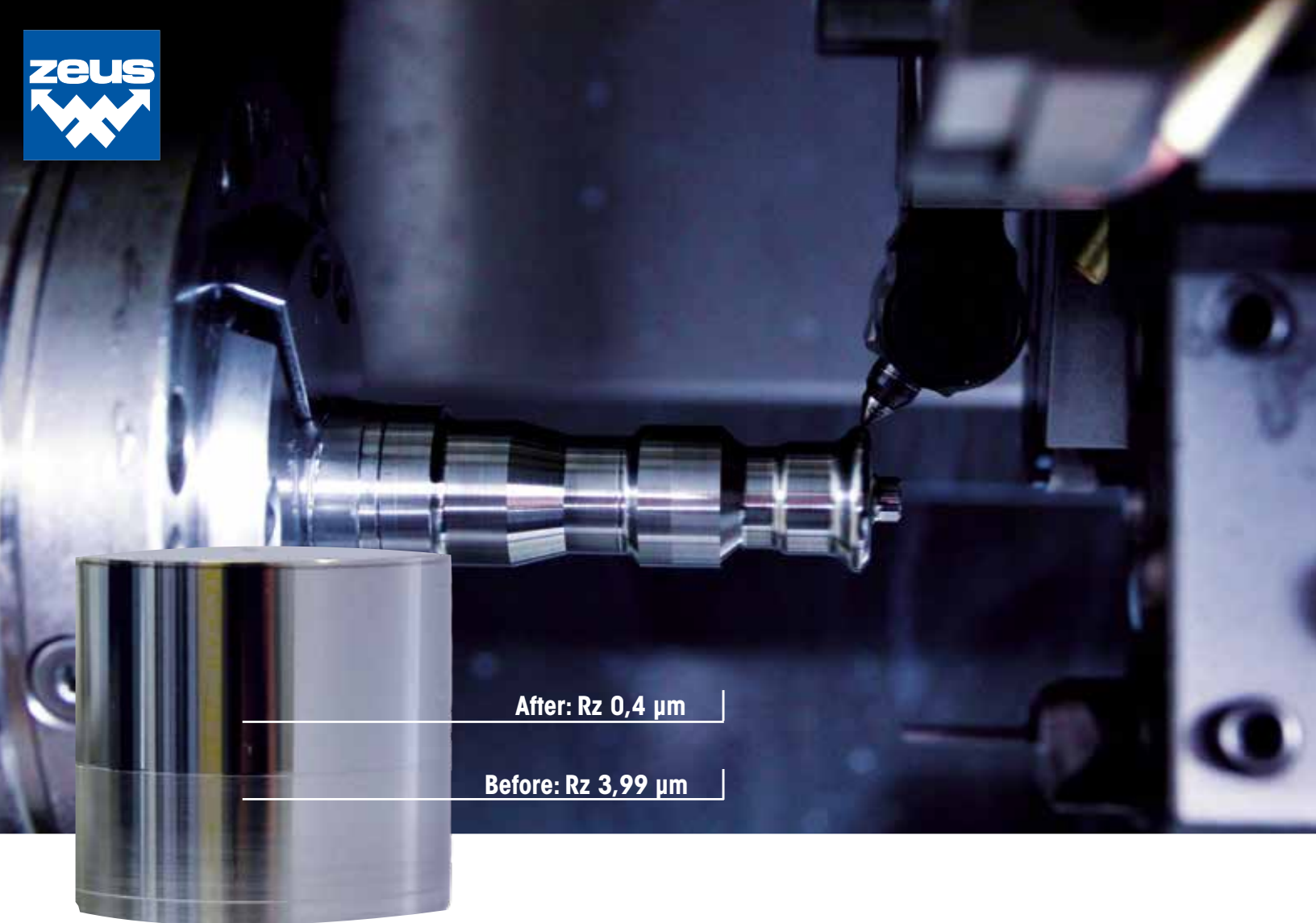
zeus **Burnishing Tool**



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.





After: Rz 0,4 μm

Before: Rz 3,99 μm

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.



Features

- Fixed tool head
- Can be adjusted up to $\pm 10^\circ$ thanks to integrated setting options in the shaft
- To burnish ripples with cylindrical surfaces – limited cones and radii

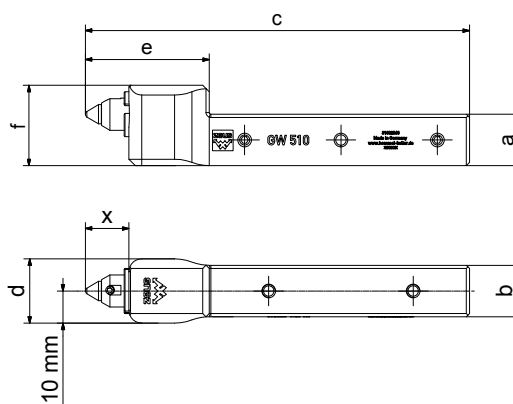
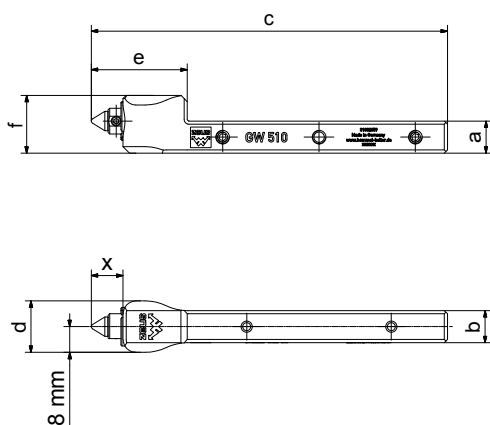
Recommendations

- Burnishing speed up to 200 m/min
- Feed rate up to 0.2 mm/U
- Workpiece measurement of 0.01 mm ($\sim R_z 10$) and 0.02 mm ($\sim R_z 20$)
- It is recommended to use a cooling lubricant

TOOL VERSIONS

Order No.	Tool holder designation	Basic shaft [mm]	Dimensions [mm]							Including shaft adapter [mm]
			a	b	c	d	e	f	x	
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



DIAMOND TIP VERSIONS

Order No.	Tip radii [mm]
06TGW0008	0.4
06TGW0009	0.6
06TGW0010	0.8
06TGW0011	1.0



Burnishing Tool SET 520



Features

- Tool head is variably adjustable
- Tool with universal application
- Swivel range $\pm 90^\circ$
- Thanks to the adjustability of the tool head, it is possible to burnish plane surfaces, conical, convex and concave geometries
- Application up to a shoulder

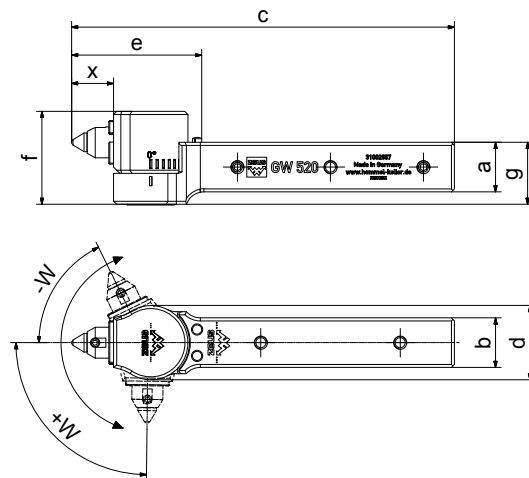
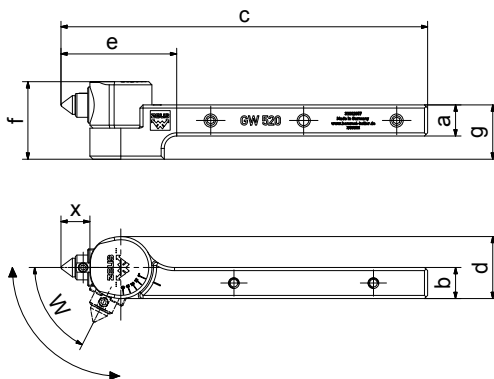
Recommendations

- Burnishing speed up to 200 m/min
- Feed rate up to 0.2 mm/U
- Workpiece measurement from 0.01 mm ($\sim R_z 10$) and 0.02 mm ($\sim R_z 20$)
- It is recommended to use a cooling lubricant

TOOL VERSIONS

Order No.	Tool holder designation	Basic shaft [mm]	Dimensions [mm]								Angle [°]		Including shaft adapter [mm]
			a	b	c	d	e	f	g	x	+w	-w	
31002893	520-10R	10 x 10	10	10	118.5	20	36	25	17.5	9	75	-	12 x 12 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



DIAMOND TIP VERSIONS

Order No.	Tip radii [mm]	
06TGW0008	0.4	
06TGW0009	0.6	
06TGW0010	0.8	
06TGW0011	1.0	



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