

Series TK

For tapered internal surfaces series TKI / For tapered external surfaces series TKD / For flat surfaces series TKA

Application

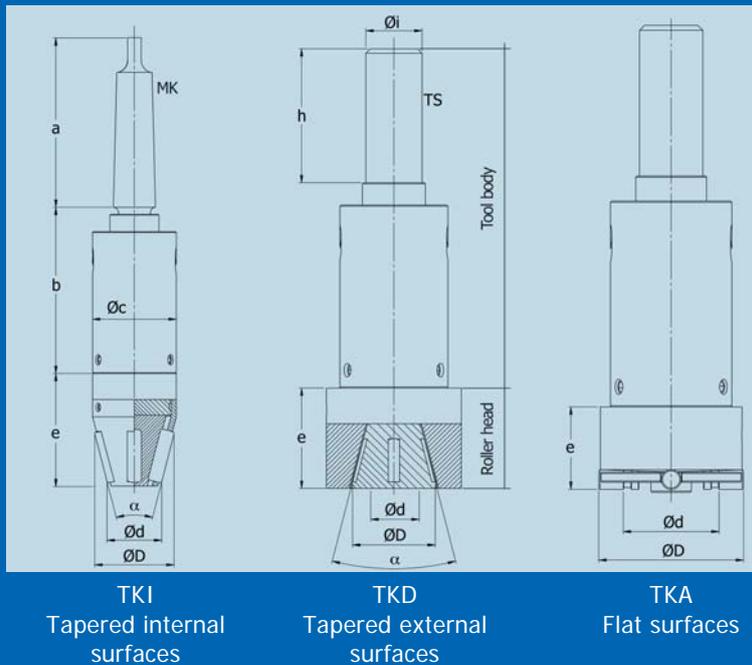
These roller burnishing tools are able to process tapered internal-external and flat surfaces. They are equipped with a special spring loaded cushion system. The present system is designed according to specification of each tool. This skill allows to exert on the work piece the right pressure. Moreover, this system provides a safety distance on the stroke that the tool has to do avoiding overload on the work piece or on the machine. In this way the same force is applied on the work piece granting accurate dimensions and high finishing quality. These tools are not equipped with the adjustment system. When the tool, **that it is realized according to the sizes of the work piece**, contacts the work piece, with a certain force carry out the burnishing. These tools can be used on every kind of machine, both the work piece and the tool can turn and the final result doesn't change. It is possible to process all kind of material with tensile strength up to 1.400 N/mm² and an hardness up to max 45 HRC.

Tool structure

Roller burnishing tools series TKA, TKD and TKI consist in a body and in a roller head. The tool body, complete with shank, includes the spring loaded cushion mechanism. This spring system is designed according to the requirements of the work specifications. The tool shank may be Morse Taper or cylindrical.

Cage, cone and rollers are the parts of the rolling head. These parts are designed according to the dimensions of the work piece and than installed in the tool body.

These tools are made on request of the customer with the draw of the work piece to burnish.

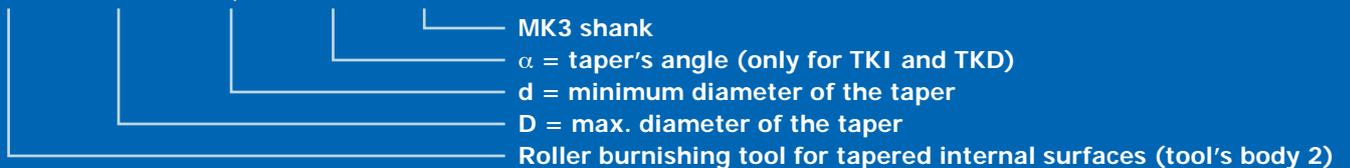


Order requirements

These tools are designed in accordance with the dimensions of the parts to process and of the type of the material. In order to choose the ideal tool for your needs, it is necessary to send us a technical drawing of the work piece and all the information regarding the type and the hardness of the material.

Order sample: Roller burnishing tool for tapered internal surfaces, D = max. diameter of the taper 47,00 mm, d = minimum diameter of the taper 33,20 mm, α = taper's angle 30°, MK shank.

Code : TKI.2 - 47.00 - 33,20 - 30° - MK3



Tool body	Diameter range		Shanks		a	b	c	e
	Ød	ØD	MK	Straight				
TK.1	006.00	044.99	MK2	Ø20 h6x50	78.5	65	25	Changes according to the type of the work piece and the dimensions of the surface to burnish
TK.2	045.00	099.99	MK3	Ø25 h6x56	98	92	48	
TK.3	100.00	149.99	MK4	Ø32 h6x60	123	107	63	