



DIAMOND DRESSING ROLLERS

A Tradition of Quality since 1966



EN 13236

DIAMOND DRESSING ROLLERS



Diamond profile dressing rollers are an integral part of modern grinding technology and are mainly used in serial and mass production. Diamond rollers are used for dressing of abrasive wheels.

With the help of diamond rollers, a copy of the profile of the required part is created on the surface of the working abrasive wheel. Then the abrasive wheel transfers this profile to the workpiece. At the same time, diamond rollers allow to combine several processing transitions at once, including turning, milling and preliminary grinding.

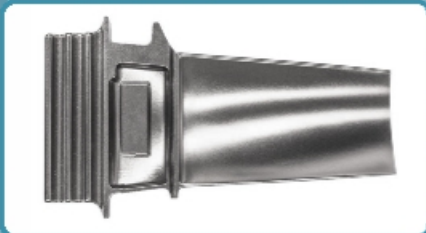
ADVANTAGES OF APPLICATION OF DIAMOND DRESSING ROLLERS:

- very short time is required for forming the surface of abrasive wheel;
- profiling of surface of abrasive wheel within one operation;
- provides high precision even at forming very complicated profiles.

POLTAVA DIAMOND TOOLS produces a wide range of diamond dressing rollers for such machine building industries as:

Aircraft construction

- manufacturing of turbine buckets for air engines;



- manufacturing of various high-precision parts for aircraft construction.

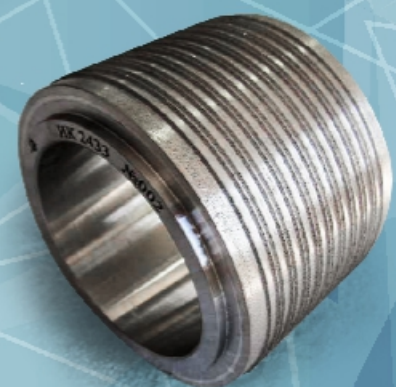


Automobile and transport machine building

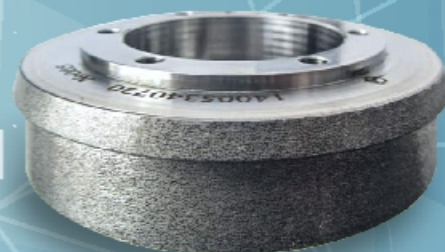
- producing of crankshafts;
- producing of ball pins;



- producing of piston rings;

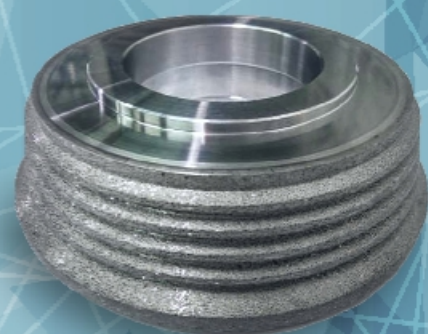


- producing of valves;
- producing of gear wheels;
- producing of parts for bearings.



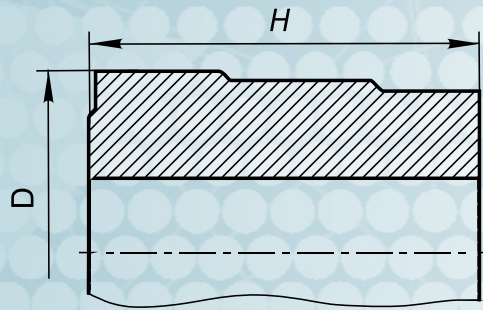
Power machine building

- producing of turbine buckets for gas-transfer stations



and other types of diamond rollers for different machine building industries.

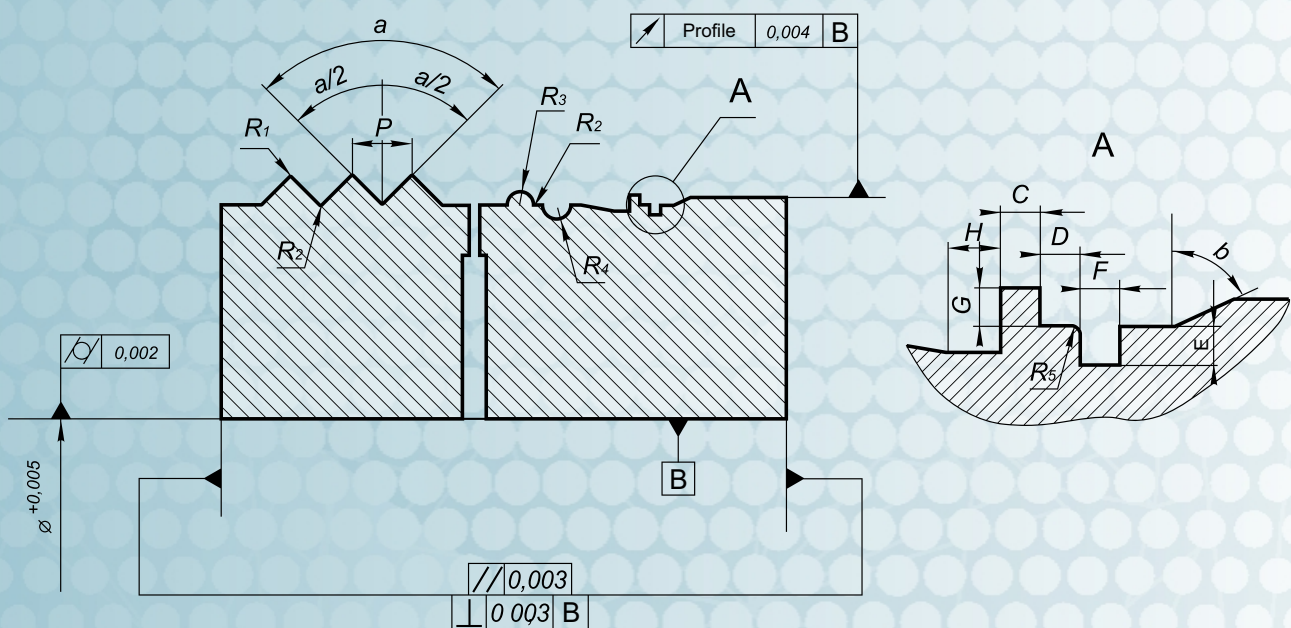
DIMENSIONS OF AVAILABLE DIAMOND ROLLERS



Parameters	Diamond roller dimensions, mm 02H*
D max	210
D min	26
H max	140
H min	8

* 02H - reverse plated method with randomly distributed diamonds

MINIMUM TOLERANCE OF DIAMOND ROLLERS SURFACES



$C = \pm 0,01$	$G = \pm 0,01$	$R_1; R_2; R_3; R_4; R_5 = \pm 0,01$
$D = \pm 0,01$	$H = \pm 0,01$	$a = \pm 3'$
$E = \pm 0,01$	$P = \pm 0,003$	$a/2 = \pm 3'$
$F = \pm 0,01$	$R_{1min} = 0,15; R_{2min} = 0,12$	$b = \pm 3'$