

ID Through Hole Roller Burnishing Tools



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PURROS Machinery Co., Ltd.

Description

ID Through Roller Burnishing Tools produce fine surface finishes and control size in ID surfaces. The tools are easy to set for diameter with the micrometer adjustment nut.

Roller burnishing is a chipless machining method which cold works the metal without cutting or abrading the surface. It removes no metal but rather compresses, or “irons out”, the peaks of a metal surface into the valleys, generating a dense and uniform surface.

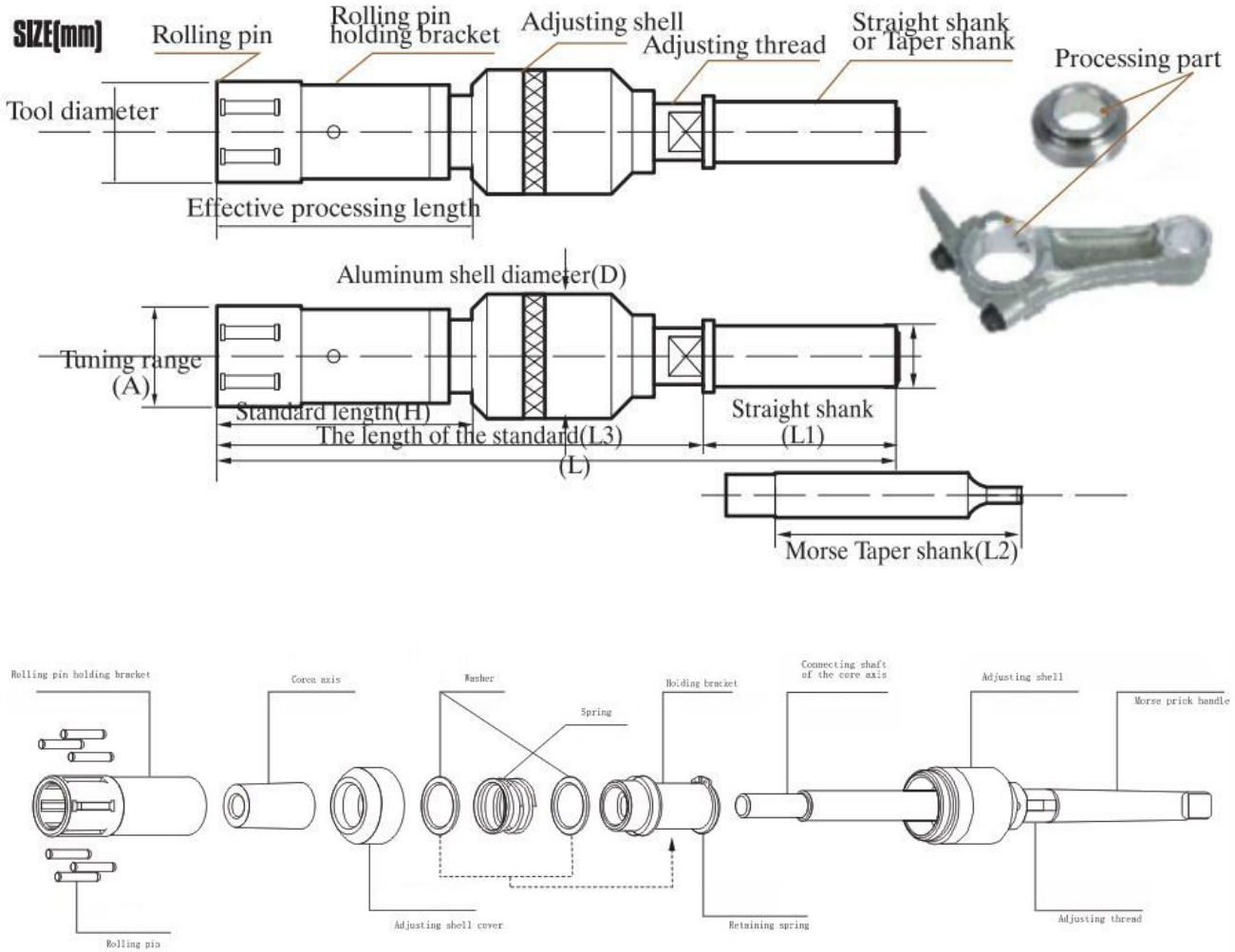
Features & Benefits:

- 1) Accurate sizing
- 2) Fast cycle time
- 3) Eliminate secondary operations
- 4) Can be run on almost any machine tool either the tool or work piece can rotate.
- 5) Flood coolant is required.

Metallurgical improvements:

- 1) Work hardening
- 2) Resistant to fatigue failure
- 3) Corrosion resistance

Drawing of ID Through Roller Burnishing Tool



Specifications of ID Through Roller Burnishing Tool

Straight shank (L1)	Type*Length	Morse Taper shank (L2)	Type*Length	Tool Length	
	φ12*32		2#*78.5	Straight shank L1+L3	Morse shank L2+L3
φ16*32	3#*98				
φ20*50	4#*123				
φ25*50	5#*155.5				
φ32*50	6#*217.5				
φ40*50					

Unit (mm)

Model	Turning Range (A)	Roller Dia. & grain Nos.	Aluminum Shell Dia. (D)	Processing Length	Standard Length (L3)	Shank Type
RBT-IDB8.0-8.8	-0.1~+0.2	3*15 (3)	GA1φ36	55	125	Straight φ12 Morse 2#/3#
RBT-IDB8.9-11.8		3*15 (4)				
RBT-IDB11.9-14.8	-0.1~+0.25	4*15 (4)	GA2φ40	65	135	Straight φ12 Straight φ16 Morse 2# Morse 3#
RBT-IDB14.9-21.8	-0.1~+0.3	5*20 (4)				
RBT-IDB21.9-25.3		5*20 (6)				
RBT-IDB25.4-31.8		5*20 (6)				
RBT-IDB31.9-39.8		5*20 (8)				
RBT-IDB39.9-47.8	-0.1~+0.4	7*20 (8)		GA3φ46	80	
RBT-IDB47.9-54.8		7*20 (8)				
RBT-IDB54.9-69.8	-0.1~+0.5	10*30 (8)	GA4φ60.5	150	150	Straight φ16 Straight φ20 Morse 3# Morse 4#
RBT-IDB69.9-85.8		10*30 (10)				
RBT-IDB85.9-119.8		10*30 (12)				
RBT-IDB119.9-149.8	-0.1~+0.7	10*30 (14)	GA5φ70.5	180	180	Morse 4# Morse 5#
RBT-IDB149.9-179.8		10*30 (16)				
RBT-IDB179.9-199.8		15*38 (16)	GA6φ120			
RBT-IDB199.9-220.8		15*38 (18)				

Pictures of Real ID Through Roller Burnishing Tool

