NEW!

Ream Roller

SUGINO
SUPER! TECHNOLOGY

Designed for Super Quick Operation

We listened to input and experiences shared by our customers, and developed this combined tool to help you acheive a mirror-finish with this reamer and roller.

Precision ID Finish

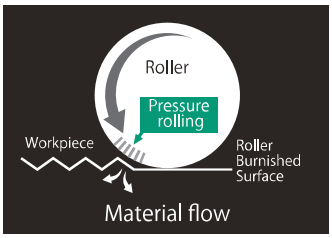
Roller works as a guide to restrict vibration or run-out during operation.

Quick, One-Pass Operation

The combination of high speed Reamer and Roller enables short operation time as well as mirror finish.

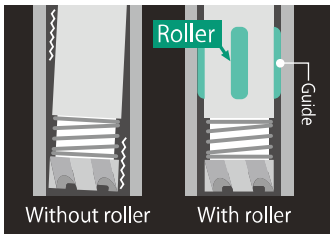
ROLLER

Roller Burnishing



Rollers compress the metal, creating a mirror finish suitable for sliding or sealing surfaces. The compressed metal surface is strong against friction and/or fatigue stress.

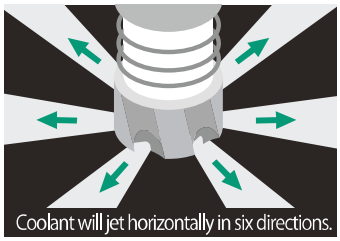
Roller Guide



Roller works as a guide to restrict vibration during operation, for a stable finish. The roller pass also erases retract-scratches made by the Reamer.

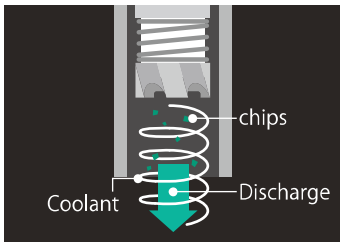
REAMER

Replaceable Reamer



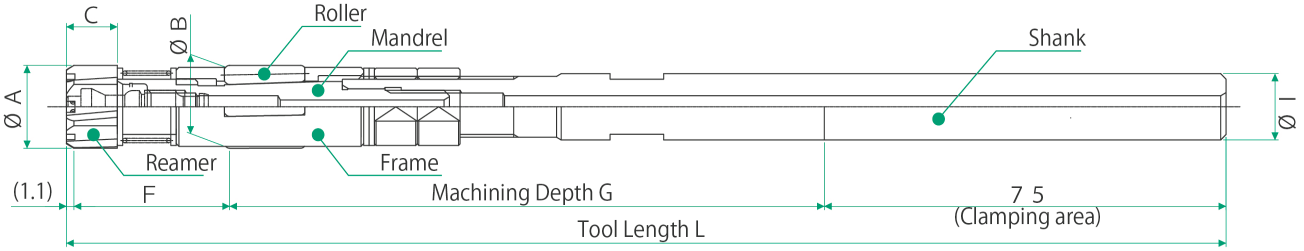
High speed cutting, with a replaceable, throw-away reamer to reduce running cost. Coolant-through specification.

Chips Discharging



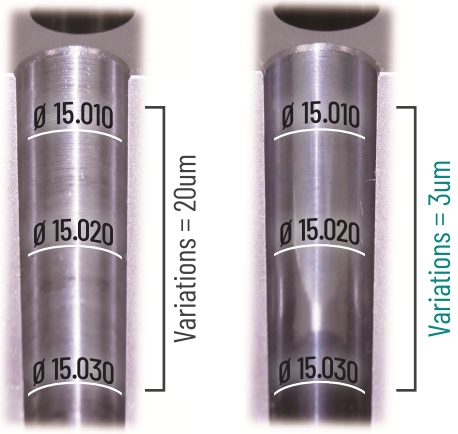
Left-helix Reamer and coolant-through flow discharges cutting chips out in a forward direction.

Dimensions (mm)



Machining Example

Material = C50/1050
Steel Diameter = 15mm
Depth = 80mm



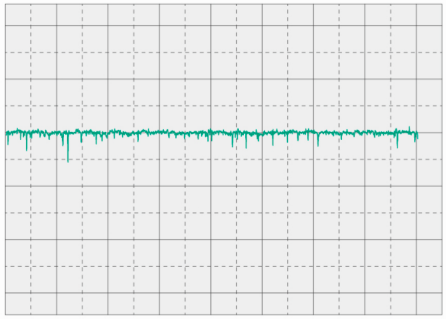
Reamer Only Reamer & Roller

Roughness Comparison

Reamer only

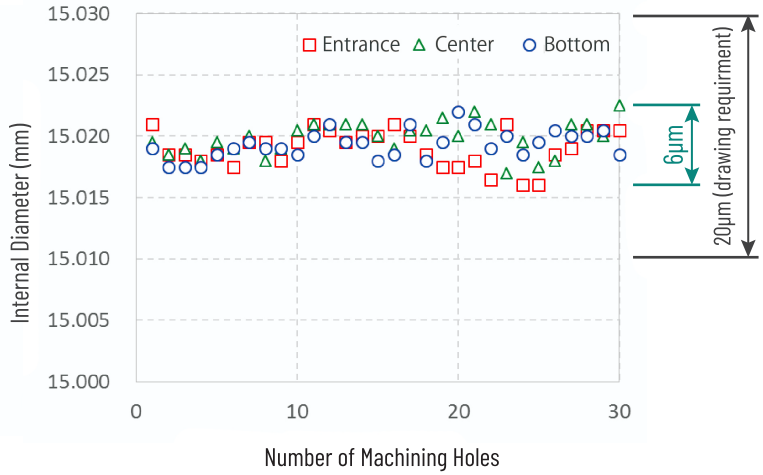
Rz 9.1 µm

Reamer and Roller



Rz 0.8 µm

Sequent Machining Results



Operation Time Comparison

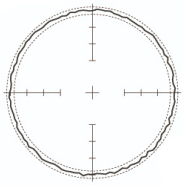
Honing

Ream Roller

Machining Time About 1/4

Roundness

Ream Roller



2.1 µm

Diameter	Reamer Dia. A H7	Roller Adjustable Range B	Reamer Length C	Between Reamer & Roller F	Machining Depth G	Shank Dia. I	Total Length L
Φ15	15	15.0～15.2	9.5	29.4～32.8	107～111	12	216.5
Φ16	16	16.0～16.2					
Φ17	17	17.0～17.2	10.6	34.5～37.7	117～121		231.6
Φ18	18	18.0～18.2					
Φ19	19	19.0～19.2					
Φ20	20	20.0～20.2		34.8～38.0	117～120		
Φ21	21	21.0～21.2	12.8	41.7～44.9	117～121	16	238.8
Φ22	22	22.0～22.2					
Φ23	23	23.0～23.2					
Φ24	24	24.0～24.2		42.0～45.2	117～120		

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