

NEW!

Ream Roller

Super Quick Operation

Based on our experiences with the customers Sugino has newly developed the Reamer and Roller combined tool that easily provides the simultaneous mirror finishing.

1 Precision ID Finish

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

2 Quick One-Pass Operation

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



CHECK! MOVIE

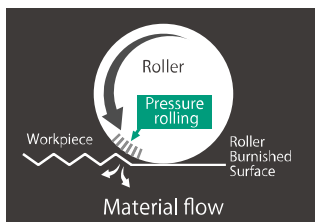
You can see machined videos of
REAMROLLER from here.



Mechanism

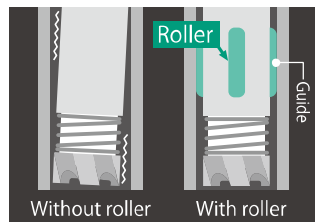
ROLLER

Roller Burnishing



- Rollers compress the metal to make smooth finish which is suitable for sliding or sealing surface.
- Compressed metal surface is strong against friction and/or fatigue stress.

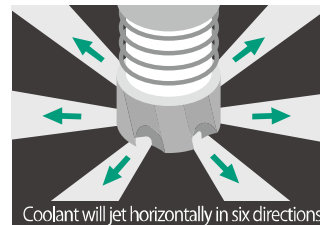
Roller Guide



- Roller works as guide to restrict vibration during operation, while obtaining stable dimension finish.
- The Roller, while compressing the metal surface, erases retract-scratches made by Reamer.

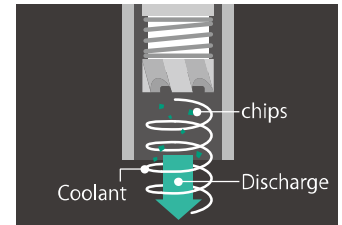
REAMER

Replaceable Reamer



- High Speed Cutting
- Throw-away Reamer reduces running cost
- Coolant-through spec.

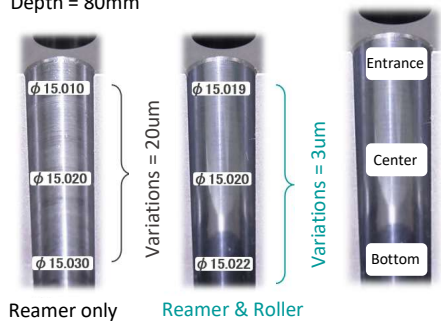
Chips discharging



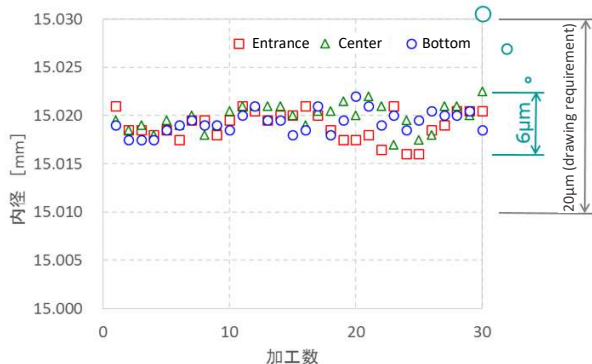
- Left-helix Reamer and coolant-through flows out cutting chips in forward direction.

■ Machining Example

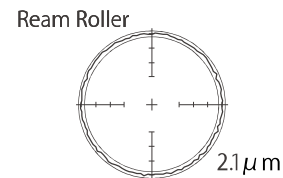
Material = C50 / 1050 steel
 Diameter = 15mm
 Depth = 80mm



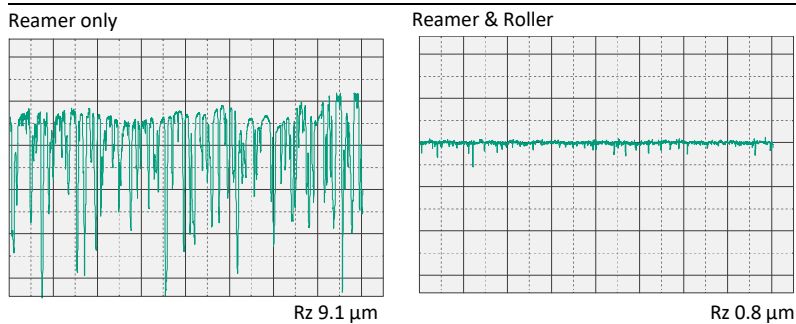
■ Sequent Machining Results



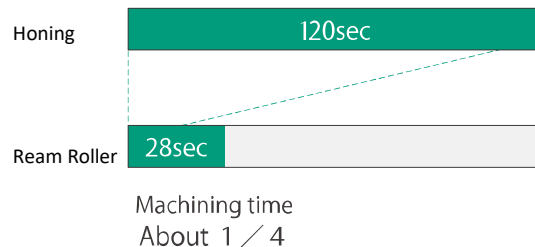
■ Roundness



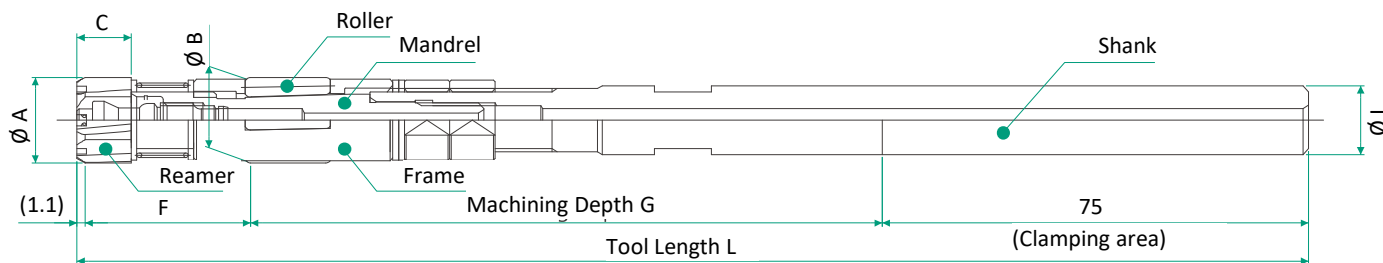
■ Roughness comparison



■ Operation Time Comparison



Dimensions(mm)



| Diameter | Ream ØA H7 | Roller Adjustable Range B | Reamer Length C | Between Reamer & Roller F | Machining Depth G | Shank ØI | Total Length L |
|----------|------------|---------------------------|-----------------|---------------------------|-------------------|-----------|----------------|
| Ø15 | 15 | 15.0 ~ 15.2 | 9.5 | 29.4 ~ 32.6 | 107 ~ 111 | 12 | 216.5 |
| Ø16 | 16 | 16.0 ~ 16.2 | 10.6 | | 34.5 ~ 37.7 | | |
| Ø17 | 17 | 17.0 ~ 17.2 | | | | | |
| Ø18 | 18 | 18.0 ~ 18.2 | | 12.8 | 34.8 ~ 38.0 | 117 ~ 120 | 16 |
| Ø19 | 19 | 19.0 ~ 19.2 | | | | | |
| Ø20 | 20 | 20.0 ~ 20.2 | 41.7 ~ 44.9 | | 42.0 ~ 45.2 | 117 ~ 120 | |
| Ø21 | 21 | 21.0 ~ 21.2 | | | | | |
| Ø22 | 22 | 22.0 ~ 22.2 | | | | | |
| Ø23 | 23 | 23.0 ~ 23.2 | | | | | |
| Ø24 | 24 | 24.0 ~ 24.2 | | | | | |



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