

DRILL DEEP INTO THE FUTURE

High Productivity in Small Hole Drilling

Deep Drilling = BTA = High Productivity!+ Space Saving

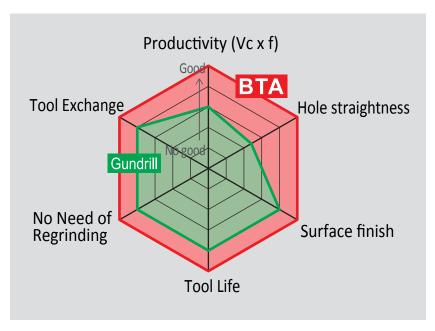
Advantages of BTA drilling (STS)

- High Accuracy 1. Good hole accuracy
- 2. Fine surface finish by burnishing effect
- 3. Head exchange no need for regrinding or recoating
- 4. Quick head change on machine
- 5. Non-step drilling



Long life brazed drill heads with coating

■ Performance comparison between BTA and Gundrilling







Deep hole tooling Manufacturer UNITAC INCORPORATED





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High Productivity Drilling of Cooling Hole



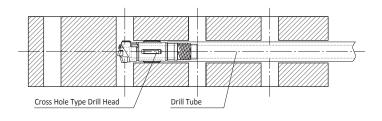
s CNC BTA Machine Gundrill, Milling, Threading and Tapping				
Component	Large Die & Mold			
Material	Die steel			
Drilling Method	Solid drilling			

ø15.00mm

1200mm

Oil based

	BTA	Gundrill
Cutting Speed	70m/min	85m/min
Feed per Rev	0.09mm/rev	0.04mm/rev
Feed	134mm/min	72mm/min
Drilling Time	9 min.	17 min.



Cross Hole Type BTU Drill Head

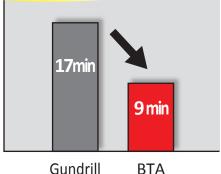


Head & Adaptor Integrated Design

- High rigidity
- Optimized for cross hole drilling



By replacing from gundrill to BTA drilling **Drilling Time Shortened by Half!**



Gundrill

Cutting time and cost were reduced by replacing gundrill with BTA and also using CNC BTA machine.



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Head Office / Kurume Plant

Diameter

Length Coolant

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