

ROBOCUT demonstration contents

NEW

ROBOCUT Robot Package

- An automatic system for high-mix, low-volume production by ROBOCUT Robot Package
- Obtains work info. by QR code, monitors process management by scheduler



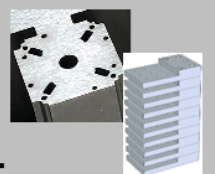
Obtains work info. by QR code

Work holder with QR code

Scheduler

ROBOCUT α -C400iC + **ROBOCUT** Robot Package

- [Contents]
- Automatic workpiece load/unloading system by Robot
 - Latest Automatic wire feeding system : AWF3
 - High precision machining of tiny holes and micro shapes.
 - Automatic wire threading for comb-tooth shaped workpieces.



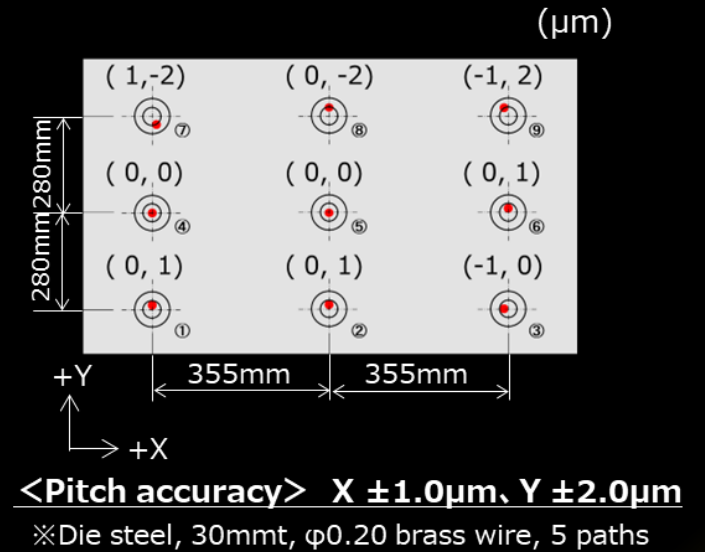
NEW

ROBOCUT α -C800iC

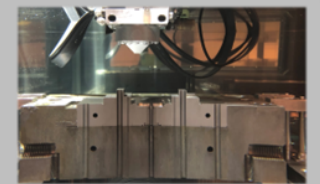
- Realized the high accuracy in pitch by strengthened mechanical rigidity



ROBOCUT α -C800iC
Stroke : X800×Y600×Z310 mm
(Option : Z510 mm)



- [Contents]
- High Precision pinhole machining for injection molding dies.
 - High precision EDMs for thick work piece are standard installed
 - Automatic wire threading for thick workpiece.

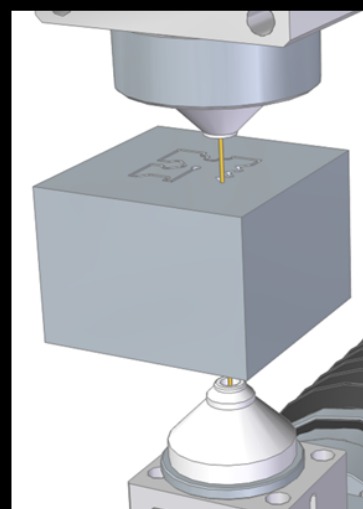


NEW

Precise machining of nozzle open

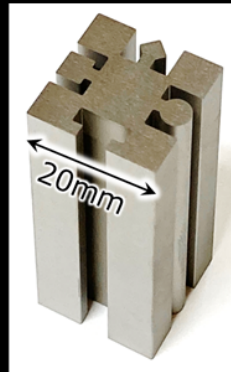
- Improvement of discharge control iPulse3 to realize high precision machining in less number of cuts with condition of nozzle open

[Overview]



Nozzle clearance Top 15mm
Nozzle clearance Bottom 5mm

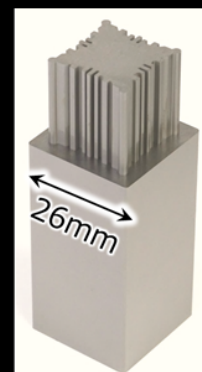
[3 paths result]



Accuracy $\pm 3\mu$ m
Roughness Ra 0.60 μ m

*Die Steel, 40mmt, $\phi 0.25$ Brass

[5 paths result]



Accuracy $\pm 2\mu$ m
Roughness Ra 0.28 μ m

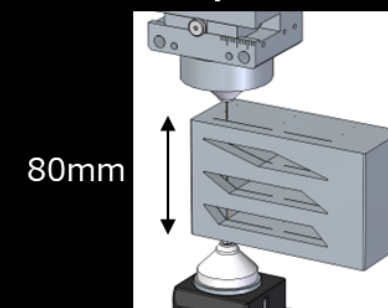
*Die Steel, 50mmt, $\phi 0.20$ Brass

NEW

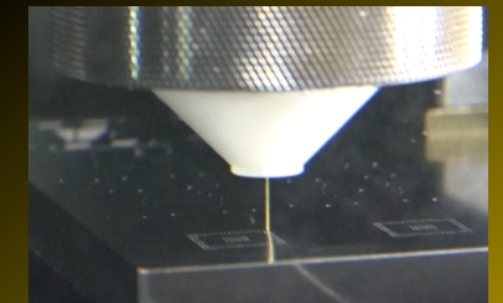
Level-up of AWF3 (Automatic wire feeding system)

- Robust support for continuous unmanned operation with versatile automated wiring capabilities

[At wire break points for hollow workpiece] [Automatic wire threading for pinhole]



Wire diameter : $\phi 0.20$ Brass
Nozzle clearance : 10mm (Top)
Cutting groove : 0.35mm Approx.



Wire diameter : $\phi 0.20$ Brass
Nozzle clearance : 10mm (Top)
Start hole : $\phi 0.3$ mm

In addition to these demonstrations, new functions will be announced at our booth. We are looking forward to your visit !!