

Rotary Outline Cutting Tool

ROTARY DIE CUTTER

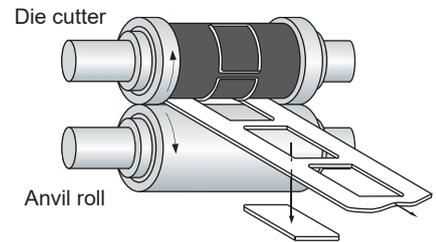
The Mitsubishi materials Rotary Die Cutter features precision, quality, and durability by adopting Tungsten Carbide technology, precise process technology, and a detailed inspection process.

Applications

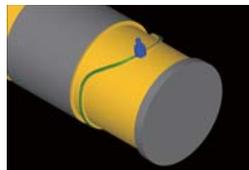


Long life and high quality cutting

- A combination of wear-resistant carbide (die cutter) and impact resistant carbide (anvil roll) delivers high quality cutting while maintaining durability and longevity.
- Mitsubishi materials produces a high quality and reliable cutting edge by using CAM process simulation and top-tier grinding technology.



CAE simulation



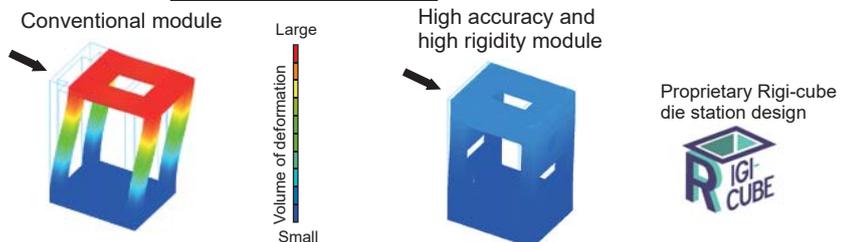
Detail of cutting edge



High rigidity die station

- The high rigidity unit is designed using CAE simulation. It delivers a stable cutting process and reproducibility at the time of the tool change over.

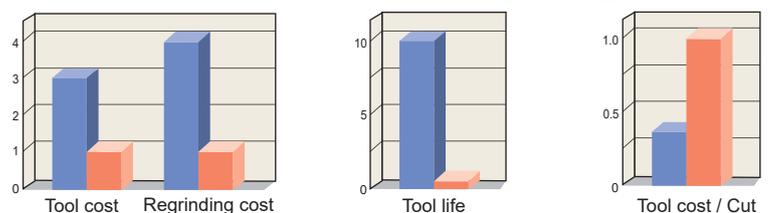
CAE analysis results



High efficiency and high value performance

- The Mitsubishi materials rotary die cutter can speed-up your cutting line versus a die and punch process.
- While a carbide cutter has higher initial cost than a steel cutter, the overall running cost of carbide is one-third the cost of steel due to the longer tool life.

Compare with steel cutter



Quality Control and Assurance

- Precision inspection with CCD camera
CCD camera can measure edge condition and dimensions.



Product Testing

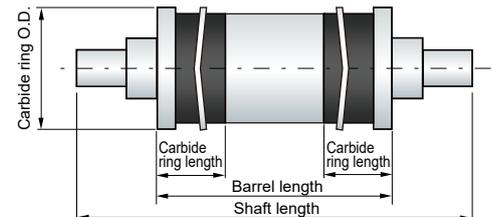
- In-house testing of cutting edge sharpness
We can test the sharpness of the rotary die cutter by using a Mitsubishi materials developed test cutting machine.



Custom Sizing

● Application ranges

Max. diameter : O.D. Ø390mm, length 380mm
carbide ring (Varies with proportionality of diameter and length)
Max. length : 1,600mm (Steel shaft length)
Max. weight : 500kg (Carbide ring + Shaft)



● Exemplary sizing (Carbide ring O.D. × Barrel length) × Shaft length

Adult diapers : (Ø340mm × 800mm) × 1,500mm
Baby diapers : (Ø272mm × 950mm) × 1,519mm
Sanitary napkins : (Ø 87mm × 250mm) × 600mm

Carbide material for die cutter



Carbide material for anvil roll



● Lineup

[Low-cost die cutter (Single-cutter : 1 pattern/rev.)]

- Compare with multi-cutter
- Light weight, easy handling
- Low cost



[Die cutter (Multi-cutter : 2-10 pattern/rev.)]

- General product



Customer Support and After-sales Service

● Detailed analysis, maintenance, and responsiveness

Mitsubishi materials has a sales network in more than 60 countries and provides the world's highest quality products, after-sales service, and tool maintenance.



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