

Rotary Outline Cutting Tool

ROTARY DIE CUTTER

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

Application Range Include



Diapers



Sanitary Napkin



Adhesive Plaster



Various Labels



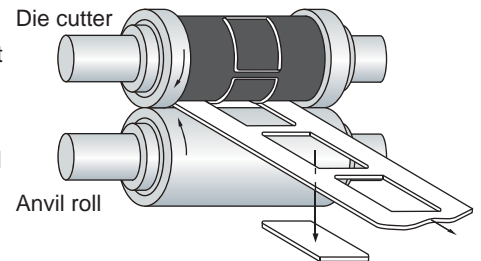
Secondary Cells



Fuel Cells

Long life and high quality cutting due to tungsten carbide cutting edge

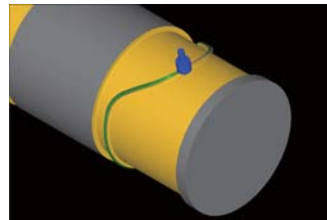
- A combination of wear-resistant carbide (die cutter) and impact-resistant carbide (anvil roll) delivers high quality cutting while maintaining durability and longevity.



- Mitsubishi Materials can produce a high quality and reliable cutting edge by using CAM process simulation and top-tier grinding technology.

CAE simulation

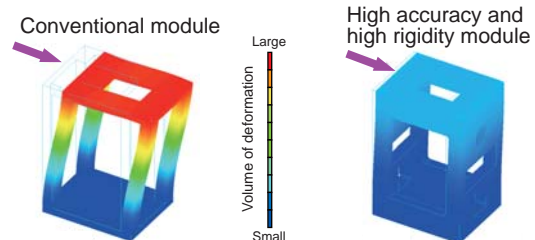
Detail of cutting edge



Stable cutting processing with a highly rigid 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.

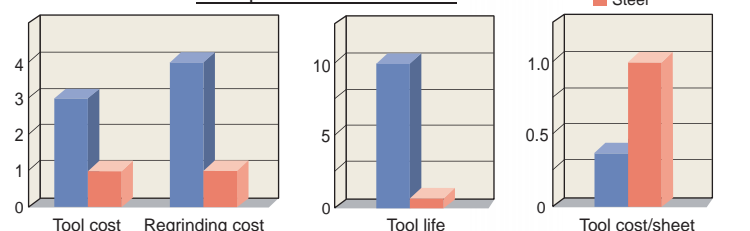
CAE analysis results



High efficiency and high value performance

- 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

Precision inspection with CCD camera

CCD camera can measure edge condition and dimensions.



In-house testing of cutting edge sharpness

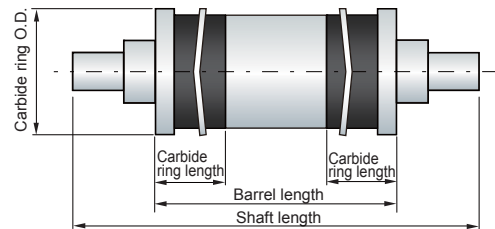
We can test the sharpness of the rotary die cutter by using a Mitsubishi developed test cutting machine.



Custom Sizing

Application ranges

Max. diameter : O.D.φ390mm, 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 : (φ321mm × 800mm) × 1,240mm
 Child diapers : (φ272mm × 950mm) × 1,519mm
 Sanitary napkins : (φ 87mm × 250mm) × 570mm

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



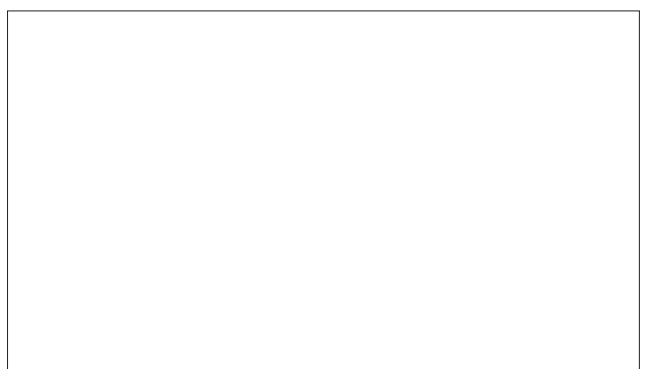
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