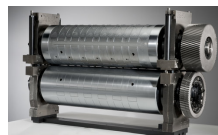




PRECISION ROTARY TOOLS

Web-fed printing presses with in-line rotary die cutting are designed to run at speeds in excess of 350 meters/min. These presses are equipped with rotary die stations where printed cartons are embossed, creased and finally cut. Custom rotary dies — whether for embossing, creasing and/or cutting — must produce cartons that not only meet end-customer package specifications but also run at low waste levels, with minimal downtime and at high speeds.

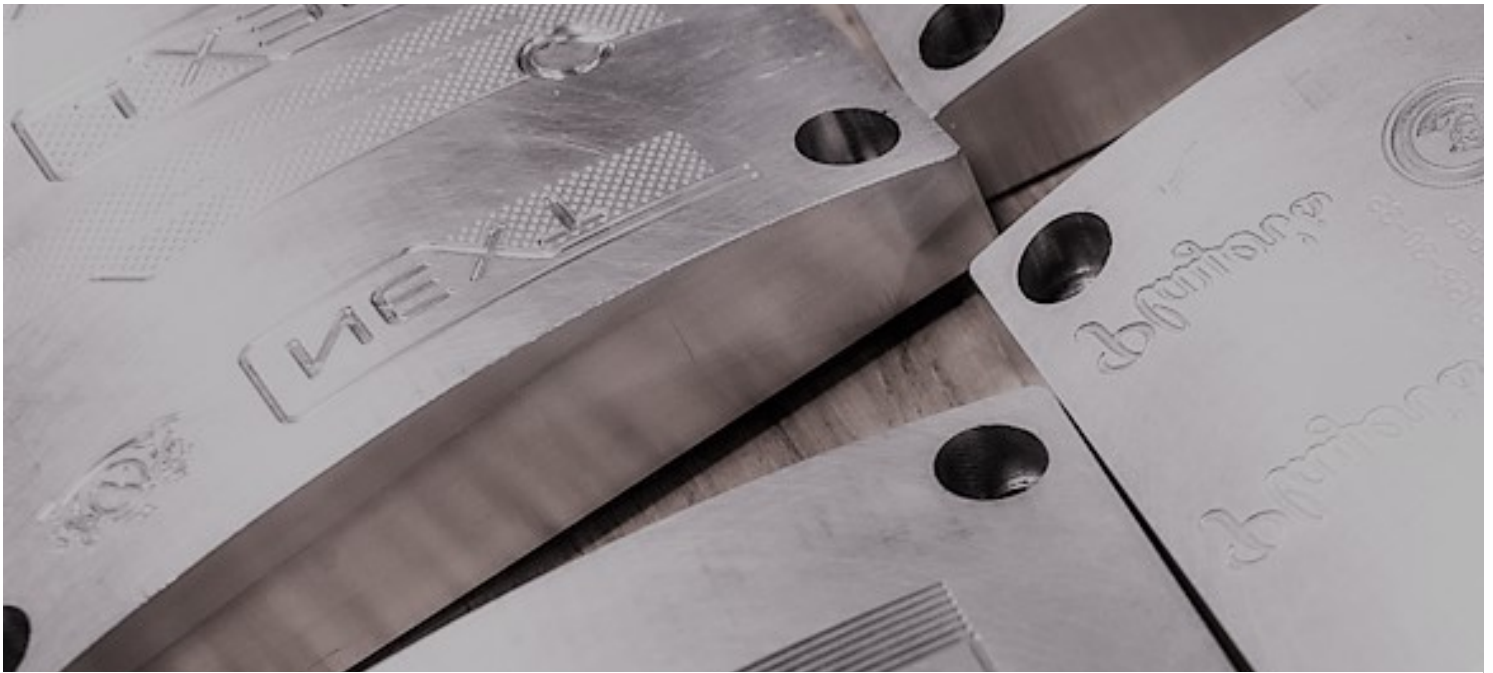


**CUTTING
TOOLS**

**CREASING
TOOLS**

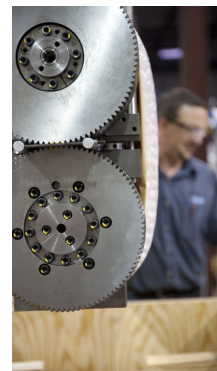
**EMBOSSING
TOOLS**

Our premier cutting dies — for both crush-cut and shear-cut dies — are fully segmented using the highest grades of tool steels. New FROST cutting tools often run at over 300 meters per minute.	FROST tools handle the most complex creasing profiles at high speeds for millions of revolutions. Our engineers design the optimal crease/cut solution for each unique carton design.	FROST offers complete services for manufacturing 2D and 3D male/female embossing dies — from small diameter tools for narrow width label presses to large format dies for wide-width paperboard presses.
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CUTTING / CREASING TOOLS

FROST manufactures creasing and cutting dies for all major brands of web-fed printing presses. From carton concept to press-ready dies, FROST is able to deliver the right crease/cut solution based on package design, board type, run length and end-



customer requirements.

Our premier cutting dies — for both crush-cut and shear-cut dies — are fully segmented using the highest grades of tool steels. These dies run with adjustable bearer rings for precise running gap control. FROST also offers a proprietary anvil roll coating for crush-cut dies that is harder and more durable than chrome.

FROST has the knowledge base and experience to engineer and build the optimal crease/cut solution for each unique carton design and to help converters produce packages at world-class speeds. We are partners in the development process and are committed to

each new project from design phase through start-up.

KEY FROST ADVANTAGES

- REVMAX - next-generation steel engineered for abrasive paperboards yielding millions more die revolutions before resharpening
- SPEED SET-UP - engineered bearing set-up for cutting tools that yields higher speeds for crush-cut dies
- ANVILCOAT - proprietary anvil coating for crush-cut tools offering superior hardness and wear resistance





Embossing Dies

FROST offers complete services for prototyping and manufacturing both 2D and 3D male/female embossing dies — from small diameter tools for narrow width



label presses to large format dies for wide-width paperboard presses. We provide not only engraved cylinders but a turnkey, press-ready solution including engineered bearing blocks and gears.

Our experienced team of designers is able to help converters determine the right specifications for each new embossing die including CD and MD compensation factors for correct print-to-emboss register and the proper cylinder crown for a balanced emboss across the web. We make rotary embossing dies using a variety of substrates — such as steel, copper, and aluminum — depending on customer requirements.

KEY FROST ADVANTAGES

- Expert project consulting and customer service
- We program and engrave our embossing dies using advanced 3D CAD/CAM software and are able to control die profiles to an accuracy of +/- 5 microns
- High-quality finish-plating technologies for wear resistance
- FROST tools help global brands to stand out from their competition on store shelves around the world

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