

MADERN,
innovation in rotary converting

↓ CUTTING TOOLS

MADERN GENERAL INFORMATION



MADERN EMPOWERING YOUR COMPANY IN SUSTAINABILITY AND PROFITABILITY
WITH COMPETITIVE PREMIUM QUALITY ROTARY TOOLING & CONVERTING SOLUTIONS

COMPANY

The family owned company Madern (1954) carries nearly 30 years of experience as a developer and manufacturer of rotary tooling and converting solutions for the folding carton industry.

Our commitment to innovate technology combined with our passion for the paperboard packaging industry drives us to create high quality products. These products, used by an impressive international clientele, have set new standards and are a benchmark for the best industry performances.

Madern manufactures rotary tools with state-of-the-art equipment and the intensive collaboration of a dedicated team of engineers, craftsman and technicians.

Madern guarantees to be your ideal partner in the challenging race of the paperboard packaging market, providing cost effective products, while maintaining our outstanding premium quality and material integrity.

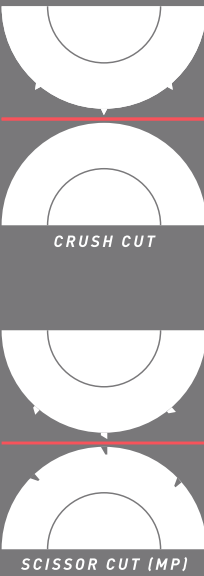
We would like to welcome you to —The Madern World— of rotary tooling and converting solutions.

SERVICES

- Research, development and manufacturing of custom-made rotary tooling and converting solutions for the best performance/price ratio.
- Support during installation, start-up and commissioning of new tools and equipment.
- Training programs for inexperienced and experienced tool engineers and machine operators.
- Competitive pricing and lead times for re-knifing and re-conditioning of (Madern) rotary tooling at our 4 manufacturing facilities.
- 24/7 worldwide service and maintenance support.

MADERN TECHNOLOGY

CUTTING PRINCIPLES



TOOL EXECUTIONS

- SOLID DIES (VALUE SERIES)
Combination of fully mechanical engraved and hardened solid dies and partially segmented rotary technology (surface treated when needed).
- SEGMENTED DIES
Steel body cylinders in combination with PM steel segments with dead-fit technology.
- SLIDING RING DIES (ADJUSTABLE)
Steel body cylinders with steel sliding ring technology for liquid packaging.

TOBACCO PACKAGING CUTTING TOOLS

HIGH SPEED CUTTING FOR ALL YOUR TOBACCO PACKAGING NEEDS

PRODUCT INFORMATION

Madern offers you premium quality custom-made rotary cutting tools in various executions, shapes, sizes and performances.

The final choice of the cutting principle, the material and specifications depends on your wishes and needs, the application, the required tool performance and the characteristics of the used paperboard.

Cutting tools can be delivered as solid, fully segmented or a combination of both. The highly competitive "Value Series" range of cutting tools are especially developed for lower volume and short run production of cartons.

Madern offers the best technical and most competitive solutions for different applications in the folding carton industry, such as tobacco, liquid and general folding cartons.

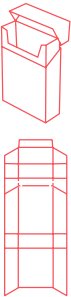
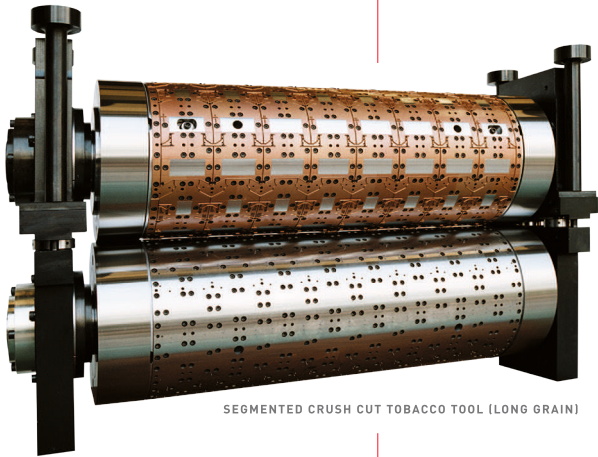
Let our team of experts provide you with comprehensive technical advice and support, to commission and deliver your next custom-made rotary cutting tools.

HIGH PRODUCTION SPEED PRODUCTIVITY

APPLICATIONS

- SQUARE CORNER HL CARTONS
- ROUNDED CORNER HL CARTONS
- BEVEL EDGE HL CARTONS
- PILLOW PACK HL CARTONS
- SOFT PACK
- DISPLAY CARTONS
- RYO CIGARETTE PAPER ENVELOPES
- SLIDES AND SLEEVES

LESS WASTE PROFITABILITY



TECHNICAL SPECIFICATIONS TOBACCO PACKAGING CUTTING TOOLS*	
DIAMETERS	UP TO 400 MM (15.75")
WEB WIDTH	430 MM (16.9") – 850 MM (33.5")
WEB SPEED	UP TO 350 M/MIN (1150 FT/MIN)
AVAILABLE DESIGN	CUTTING, PUNCHING OR PERFORATING
CHARACTERISTICS	CONICAL BEARERS FOR ACCURATE CUTTING GAP CONTROL
MATERIAL	PM STEEL, CHROMED AND TREATED WITH SPECIAL COATINGS WHEN NEEDED
OPTIONS	<ul style="list-style-type: none">SOLID OR SEGMENTED DIESDOUBLE CUTSHORT OR LONG GRAINSTRIPPING MODULESOUTFEED MODULESGLUE PERFORATIONSFRAMES AND DRIVES

*FINAL SPECIFICATIONS MAY VARY FROM THE LIST ABOVE, DUE TO DIFFERENT CHARACTERISTICS OF USED MACHINES, BOARD, VOLUMES, APPLICATIONS & DEVELOPMENTS.

GENERAL FOLDING PACKAGING CUTTING TOOLS

HIGH SPEED CUTTING FOR ALL YOUR GENERAL FOLDING PACKAGING NEEDS

(CONSISTENT PERFORMANCES QUALITY)



VS SERIES SOLID PAPER CUP CUTTING TOOL

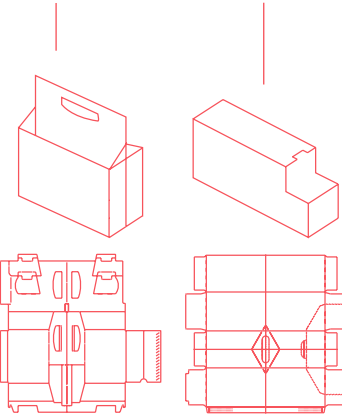
(TOOLS FOR RECYCLED BOARDS SUSTAINABILITY)



SEGMENTED SCISSOR CUT (MP) FOOD PACKAGING TOOL

APPLICATIONS

- ▼ **BEVERAGES**
(CARRIER PACKS, FRIDGE VENDORS, CUPS)
- ▼ **FOOD**
(DRY, FROZEN, FAST FOOD)
- ▼ **PERSONAL CARE**
(HYGIENE, COSMETICS, PHARMACEUTICAL)
- ▼ **VARIOUS**
(EXPRESS MAILING ENVELOPES AND SHEETING TOOLS)



(LOW BOARD WASTAGE PROFITABILITY)

LIQUID PACKAGING CUTTING TOOLS

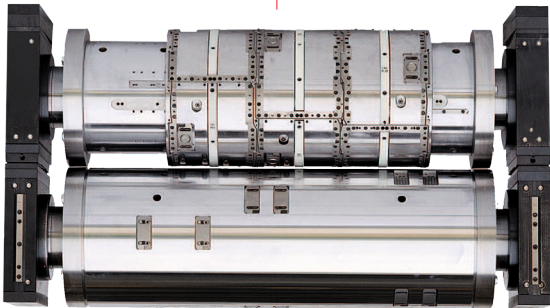
HIGH SPEED CUTTING FOR ALL YOUR LIQUID PACKAGING NEEDS

(LONG DIE LIFE QUALITY)

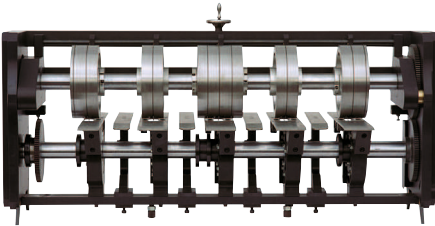


SEGMENTED LIQUID CRUSH CUT TOOL

(ADJUSTABLE RINGS TECHNOLOGY)



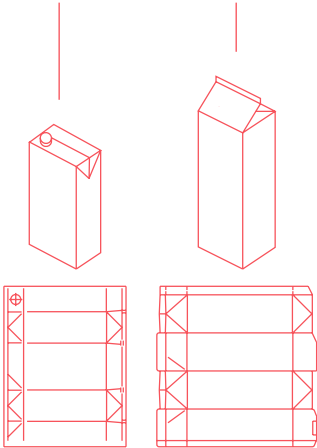
SLIDING RING CRUSH CUT LIQUID TOOL



STRIPPING UNIT

APPLICATIONS

- ▼ **ASEPTIC PACKAGING**
- ▼ **GABLE TOP PACKAGING**



TECHNICAL SPECIFICATIONS GENERAL FOLDING PACKAGING CUTTING TOOLS*	
DIAMETERS	UP TO 650 MM (25.6")
WEB WIDTH	255 MM (10") - 1700 MM (67")
WEB SPEED	UP TO 500 M/MIN (1640 FT/MIN)
AVAILABLE DESIGN	CUTTING, PUNCHING AND PERFORATING
CHARACTERISTICS	CONICAL BEARERS FOR ACCURATE CUTTING GAP CONTROL
MATERIAL	PM OR SOLID HARDENED STEEL, TREATED WITH SPECIAL COATINGS WHEN NEEDED
OPTIONS	<ul style="list-style-type: none">COMBINED CUTTING AND CREASING ON THE SAME CYLINDER SETCRUSH CUT AND/OR SCISSOR CUT (MP)ADJUSTABLE BEARER RINGS ON MALE CYLINDERSEGMENTSINDIVIDUAL SETTING OF NON-PREDOMINANT SCISSOR CUT (MP) CUTTING LINESSTRIPPING MODULEFRAMES AND DRIVES

*FINAL SPECIFICATIONS MAY VARY FROM THE LIST ABOVE, DUE TO DIFFERENT CHARACTERISTICS OF USED MACHINES, BOARD, VOLUMES, APPLICATIONS & DEVELOPMENTS.

TECHNICAL SPECIFICATIONS ASEPTIC PACKAGING CUTTING TOOLS*	
DIAMETERS	UP TO 650 MM (25.6")
WEB WIDTH	650 MM (25.6") - 1720 MM (67.6")
WEB SPEED	UP TO 500 M/MIN (1640 FT/MIN)
AVAILABLE DESIGN	PUNCHING OR PERFORATING
CHARACTERISTICS	SEGMENTED CYLINDERS
MATERIAL	PM STEEL, CHROMED WHEN NEEDED
OPTIONS	<ul style="list-style-type: none">SOLID, SEGMENTED OR COMBINATION DIESSTRAW HOLESRIB-SCORESCREW CAPSFRAMES AND DRIVES

TECHNICAL SPECIFICATIONS GABLE TOP PACKAGING CUTTING TOOLS*	
DIAMETERS	UP TO 400 MM (15.7")
WEB WIDTH	650 MM (25.6") - 1100 MM (43")
WEB SPEED	UP TO 400 M/MIN (1310 FT/MIN)
AVAILABLE DESIGN	TOP DOWN OR REVERSE CUTTING
CHARACTERISTICS	<ul style="list-style-type: none">FIXED CUTTING FORMATADJUSTABLE CUTTING FORMAT (MULTIPLE VOLUMES ON ONE DIE SET)
MATERIAL	PM STEEL, CHROMED AND TREATED WITH SPECIAL COATING WHEN NEEDED
OPTIONS	<ul style="list-style-type: none">SCREW CAPS AND SPOUTSTOP AND BOTTOM CUTTING PROFILESSTRIPPING (OUTBOARD) MODULEFRAMES AND DRIVES

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HEADQUARTERS

MADERN INTERNATIONAL B.V.

Vikingbank 1
3133 KX Vlaardingen
The Netherlands

TEL. +31 (0)10 248 54 60
FAX. +31 (0)10 248 99 20
EMAIL sales@madern.com

AJB INSTRUMENTS B.V.

Zuidzijde 7
3181 LR Rozenburg
The Netherlands

TEL. +31 (0)181 21 33 70
FAX. +31 (0)181 21 55 42
EMAIL sales@madern.com

MADERN ASIA LIMITED

Unit 3219, 32/F, Standard Chartered Tower
Millennium City 1, 388 Kwun Tong Road
Kwun Tong, Kowloon, Hong Kong

TEL. +852 2186 6706
FAX. +852 3151 7958
EMAIL sales@madernasia.com

MADERN USA INC.

1010 Burma Drive
Apex, NC 27539
USA

TEL. +1 919 355 1600
FAX. +1 919 355 1602
EMAIL sales@madernusa.com

EYERS INTERNATIONAL LLC

845 Bethel Avenue
Pennsauken, NJ 08110
USA

TEL. +1 856 910 0002
FAX. +1 856 910 0003
EMAIL sales@eyers-int.com

WEIDENMILLER

1444 Industrial Drive
Itasca IL 60143-1848
USA

TEL. +1 630 250 2500
FAX. +1 630 250 2525
EMAIL sales@weidenmiller.com