



# iPunch

CNC TURRET PUNCH PRESS





# 1950

MVD produced its first machine .

# 1971

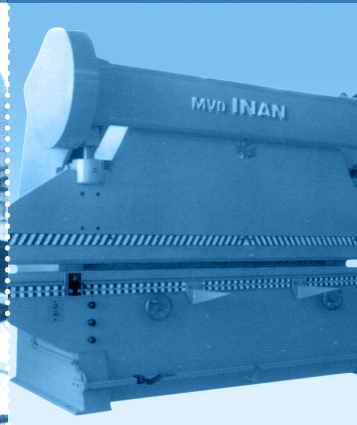
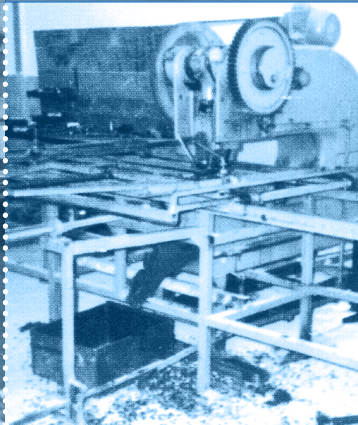
The first sheet metal working machine “perforation press” was presented to the market.

# 1974

The production of “Heavy-duty Press Brakes and Guillotine Shears” started and MVD had the distinction of being the first Turkish manufacturer for heavy press brakes and shears.

# 1981

Moved to second factory and added the production of 4 roll bending machines and Expanded Metal presses in the next years. Thus, a great variety of machines were presented in sheet metal working industry.







# 1994

MVD produced the first tandem press brake in Turkey.

# 2001

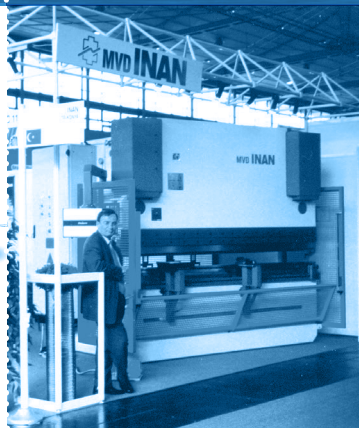
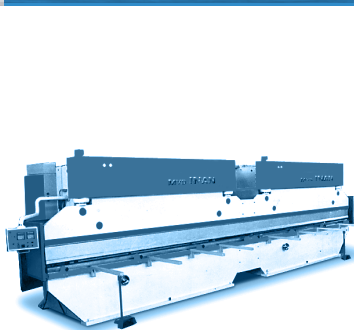
Finalised the CE conformity procedures and had its machines CE marked.

# 2003

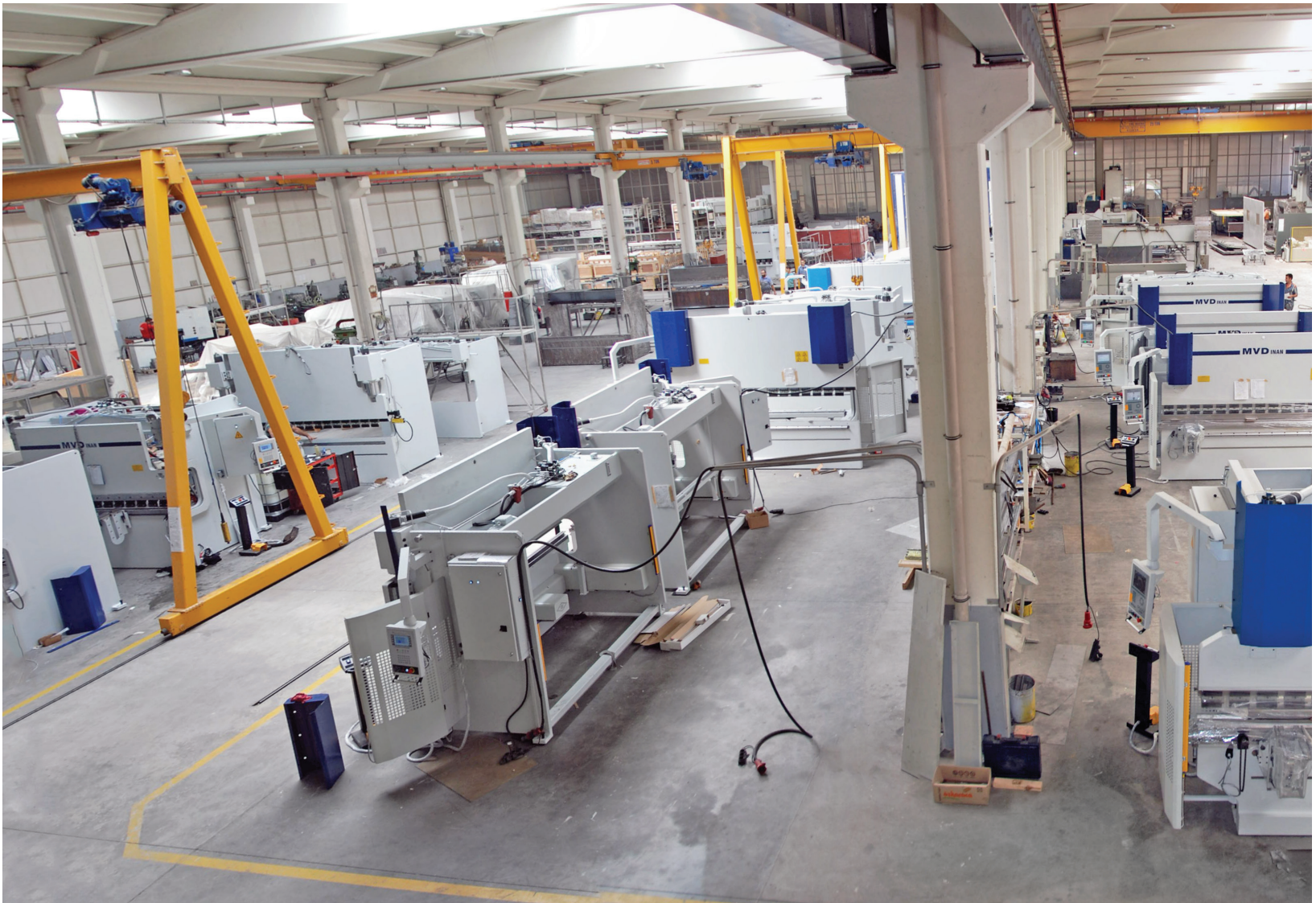
CNC Hydraulic Turret Punch machine was presented to the market.

# 2011

Plasma cutting machine and Fiber Laser Cutting machines were presented to the market.











# Quality High Technology

**Quality and service support is accepted as principle. Designing and manufacturing are based on reliability, durability and precision.**

Machines are easy to use and are built to be ready for user errors. Machines are designed and analyzed with 3-D supported computer aided programs, precisely machined in moving column CNC machining centres, equipped with world-known equipments and presented to the customers' use after quality control.







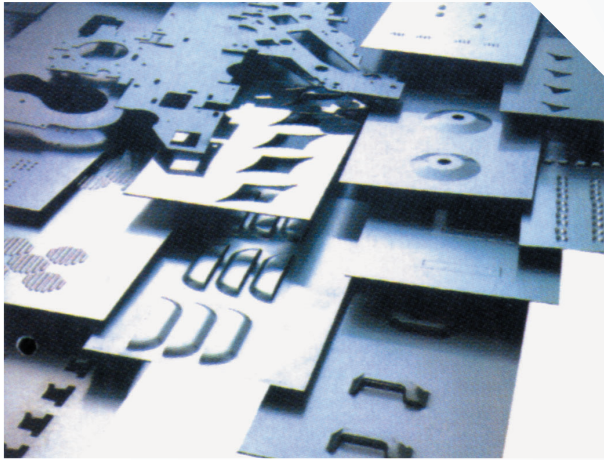
## General Features

- ▶ MVD Inan Turret Punch, presses are produced as a closed type rigid steel constructions in to a robust structure to allow minimum deflection during operation.
- ▶ Operating System is CNC and hydraulic.
- ▶ MVD Turret Punch 4 axes controlling; X, Y axes for movement of sheet, T axes: Turret rotation, C axis: Auto-index station rotation for indexing tools.
- ▶ 32 station Turret as to allow punching complicated, multi and different size holes parts in a single operation.
- ▶ Auto –index stations can punch to required angle for various angle shape parts with CNC controller.
- ▶ Precision forming and roller tools can be use on the Turret, therefore HTP Turret punch provides
- ▶ Complete solutions with effective costs.



# iPunch

## CNC TURRET PUNCH PRESS



### Design to Production;

- ▶ Metalix CNCCAD CAD/CAM software offers an integrated system cover to the user which includes the complete cycle of CNC operation.

### Punch Technology;

- ▶ Special Tool drawing
- ▶ Auto-index functions
- ▶ Auto clamp positioning
- ▶ Automatic Sheet Repositioning
- ▶ CNCCAD provides automatic or manual nesting for effective use of sheet metal
- ▶ Roller Tools usable
- ▶ Common cut function
- ▶ Ribbon cutting for splitting sheet
- ▶ Auto index reducing cycle time functions with rotations to nearest position
- ▶ Tools punch sequence selection
- ▶ Takım punch sırası seçimi





## Standard Equipments

- ▶ 4 Axes CNC System
- ▶ FANUC PC CNC unit, servo motors and drivers
- ▶ Rexroth and HL hydraulic unit
- ▶ 32 Stations Turret
  - 10 A Stations
  - 16 B Stations
  - 2 C Stations
  - 4 D Station (2 of them Auto Index)
- ▶ Repositioning of Clamps
- ▶ Automatic reference
- ▶ CAD/CAM program
- ▶ Automatic Clamping

## Optional Equipments

- ▶ Tool Adaptors
- ▶ Extra D index station
- ▶ Thin & Thick Turret Tools

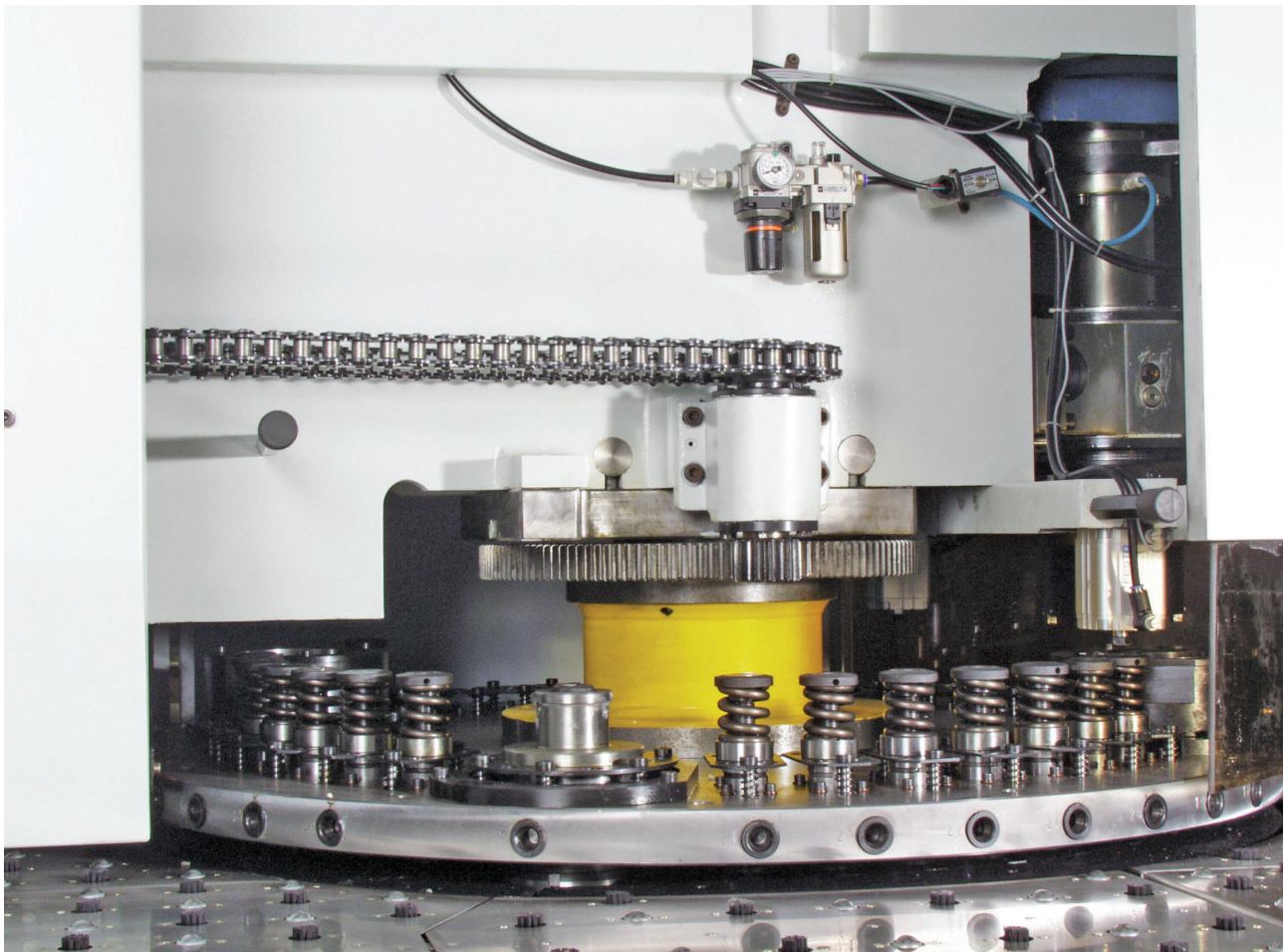
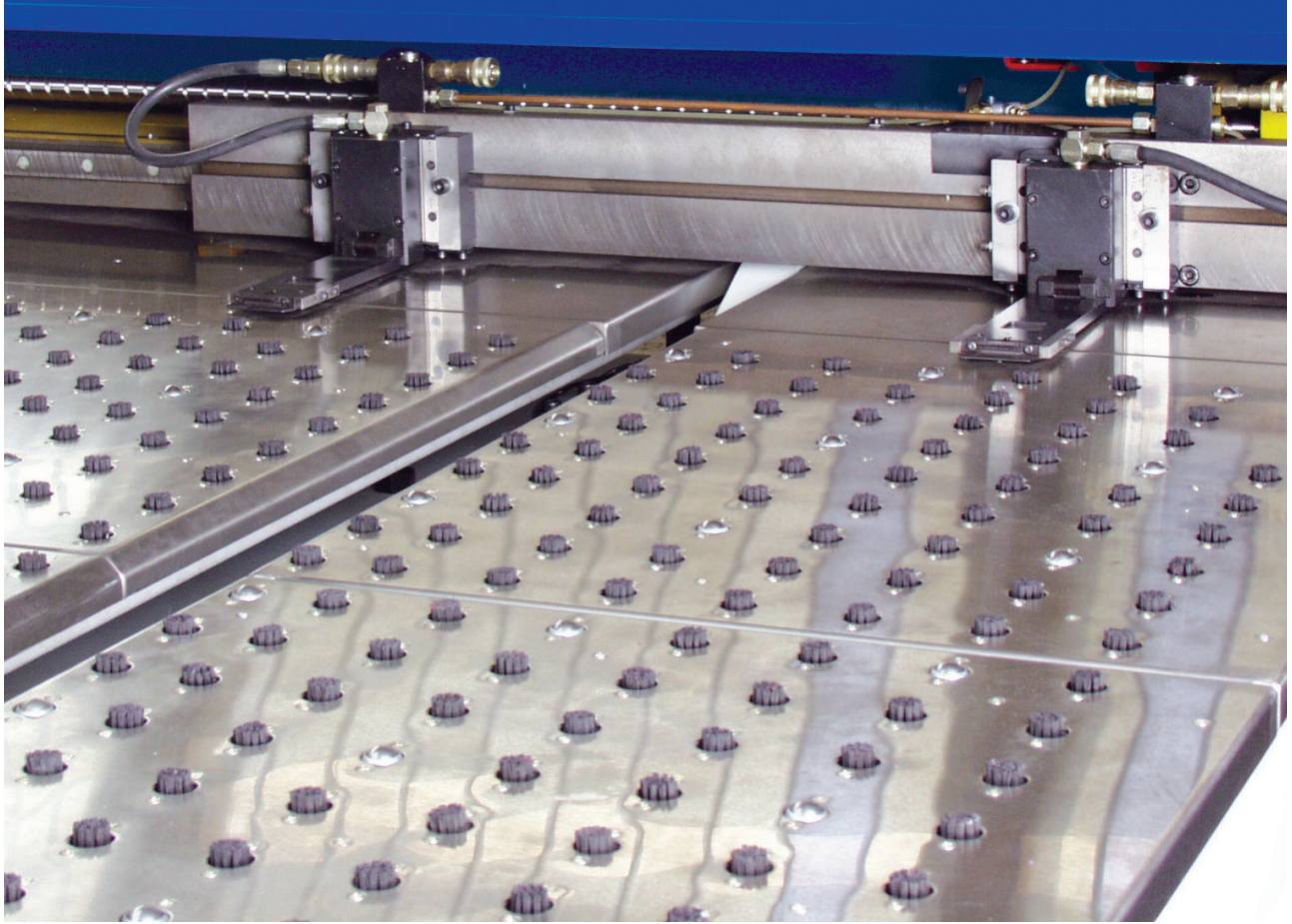


### ▶ Technical Table

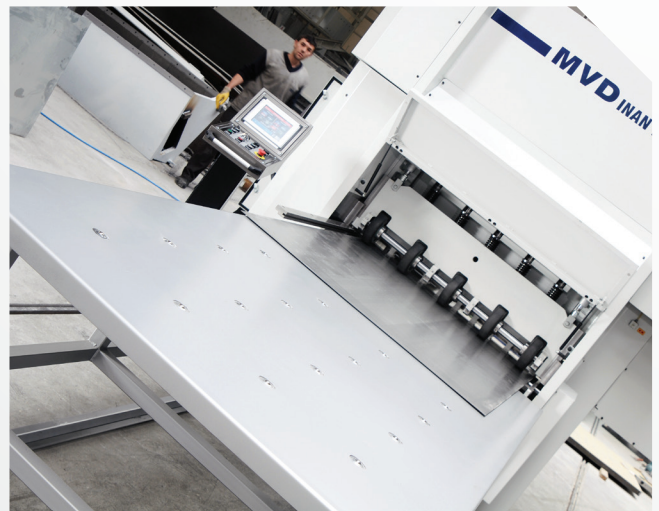
iPunch series	30322-600	30322-900	
Press Capacity	30	30	ton
max. Sheet Dimensions, Table size	1250 x 4000	1250 x 5000	mm
X Axis Stroke	2000+Reposition	2500+Reposition	mm
Y Axis Stroke	1250	1250	mm
Maximum Sheet thickness (mildsteel)	6,0	6,0	mm
Maximum Sheet Weight	160,0	160,0	kg.
Biggest tool hole diameter	88,9	88,9	mm
Turret options	32	32	station
Turret Stations Feature	"10 A stations øMax:12,7 mm 16 B stations øMax:31,7mm 2 C stations øMax:50,8mm 4 D stations øMax:88,9mm"	"10 A stations øMax:12,7 mm 16 B stations øMax:31,7mm 2 C stations øMax:50,8mm 4 D stations øMax:88,9mm"	station
Auto index	2 D stations ( 4 D optional)	2 D stations ( 4 D optional)	station
Table	Brush and Roller	Brush and Roller	type
Positioning accuracy	± 0,1	± 0,1	mm
Hits per minute	600	900	hpm
X, Y axial speeds	70	70	m/min.
X,Y axial vectorel speed	100	100	m/min.
Manual Clamp Quantity	3 Manual (auto clamp optional)	3 Manual (auto clamp optional)	quantity
Turret Rotations per minute	30	30	rpm
Tool Change Time	2,5	2,5	second
Number of axis	4	4	pcs.
Control Unit	FANUC	FANUC	type
CAD/CAM	Metalix	Metalix	type
Oil Tank	200	200	lt
Main Motor	11	11	kW
Air pressure	0,85	0,85	Mpa
Overall dimensions (L x W x H)	5500x4500x2100	5500x5500x2100	mm.
Approx. Weight	15.000	15.500	kg.

Technical specifications are subject to change without notice.











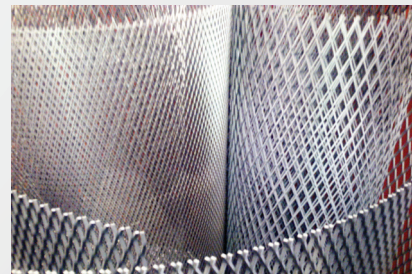
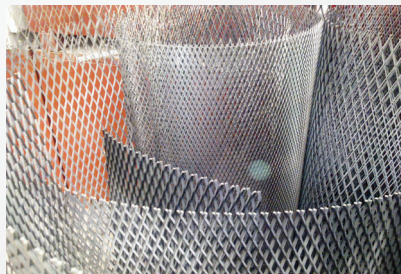
# EXPANDED METAL PRESS

“600-2500mm  
Width  
150-1000 rpm  
various size.”



## General Features

- ▶ Easy and precise blade gap adjustment
- ▶ Specially designed European origin blades made of abrasion resistant steel, provides long operating life
- ▶ Motorized upper beam adjustment allows accurate blade height and parallelism





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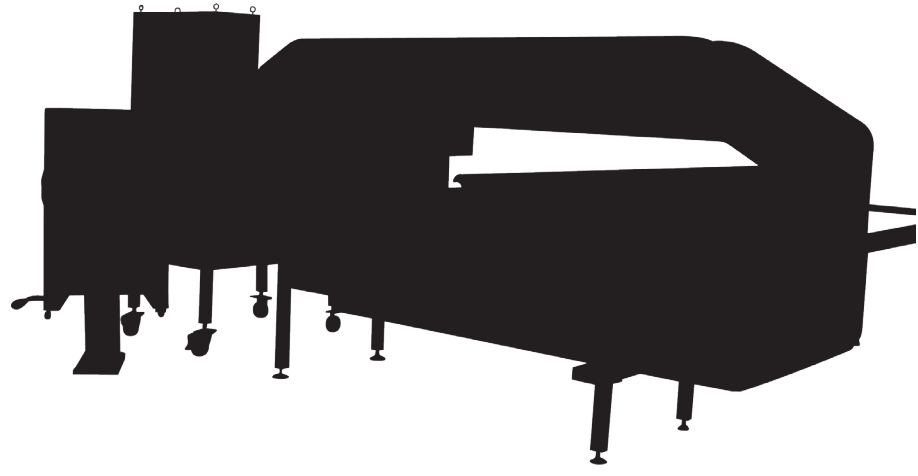
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