

A **Nidec** Group Company

**MINSTER**®

All for dreams

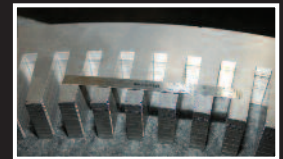
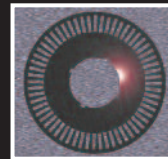
BULLETIN 179B



**MINSTER**®

NTCH-10 & NTCH-25

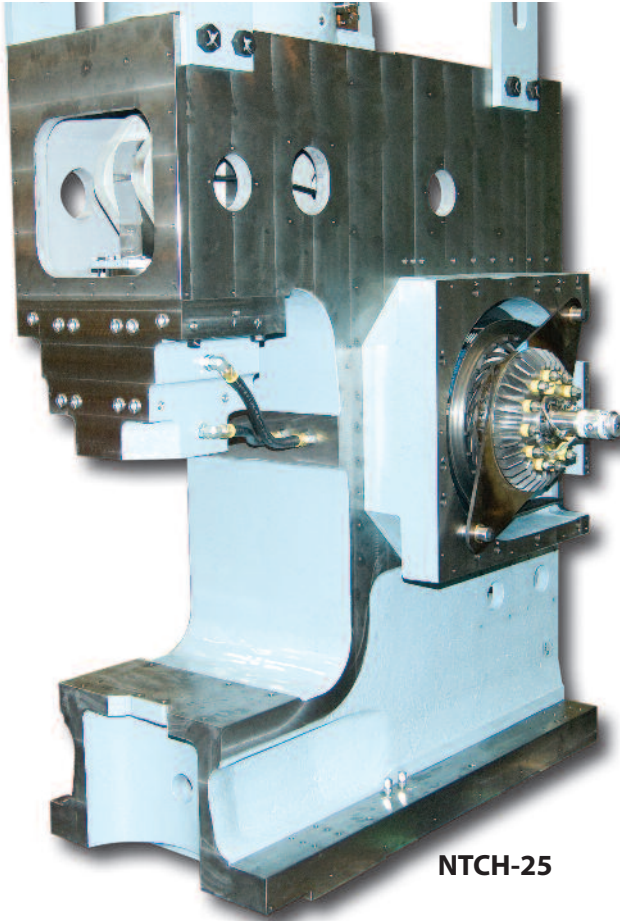
NOTCHING PRESSES



*NTCH Series Presses*

TECHNOLOGICALLY ADVANCED TO PROVIDE  
GREATER FLEXIBILITY AND INCREASED PRODUCTION

# MINSTER NOTCHING PRESSES FEATURES & BENEFITS



NTCH-25

## Heavy-Duty Frame

One piece, heavy duty cast frame and balanced drive for improved vibration damping and increased die life. Includes accurate frame to spindle center distance positioning.

## Slide Guiding

Piston driven slide, provides maximum slide guiding stiffness and accuracy.

## Clutch

Hydraulic clutch and brake with zero backlash design for high speed, thermal capacity for high clutch engagement rates and fast stopping capability.

## Technologies

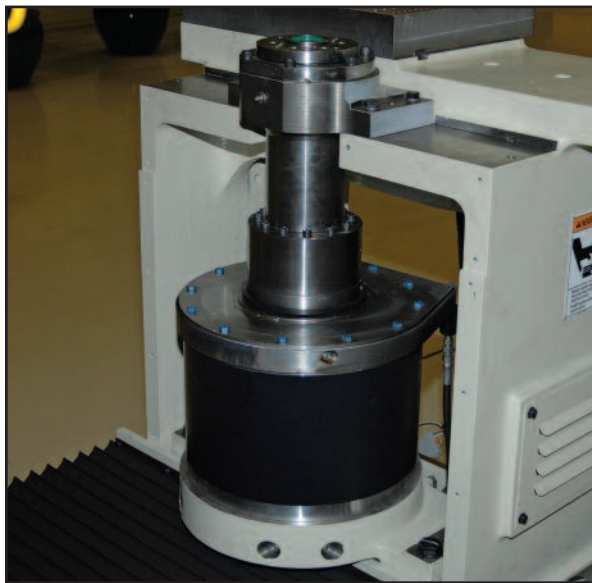
Proven Minster technologies such as single point eccentric steel crankshaft, oil film bearings, and hydraulic quick lift. In addition, a slide shutheight adjustment lockup, oversized wrist pin and high tensile connection provide a 75% snap-thru rating.

## Servo Indexer

Precision direct drive servo indexer designed for high torque and high speed precision. The number of notches and notch spacings are programmable.

## Minster PMC Control

User friendly, multi-lingual Production Management Control (PMC). Capabilities include controlling gag outputs, storage and retrieval of tool information, and full diagnostics messaging and automation integration.



Direct Drive Servo Indexer



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# OPTIONAL ADVANCED FEATURES

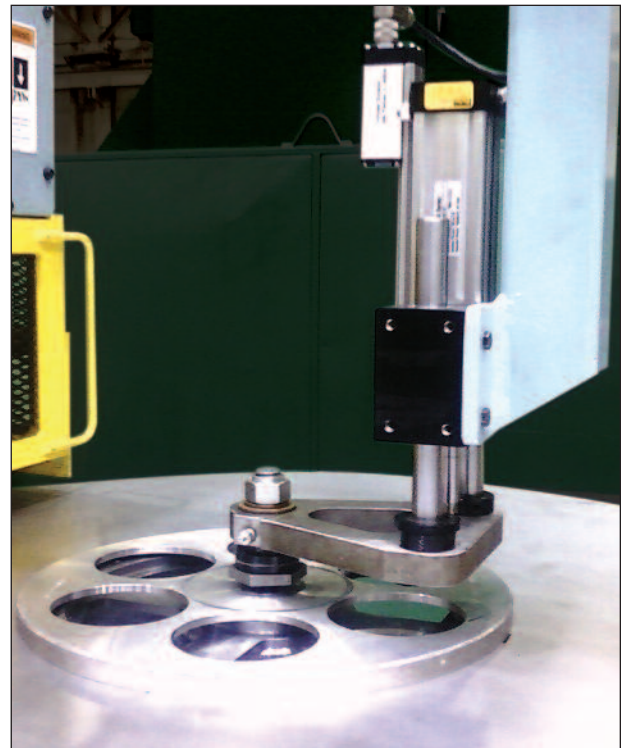
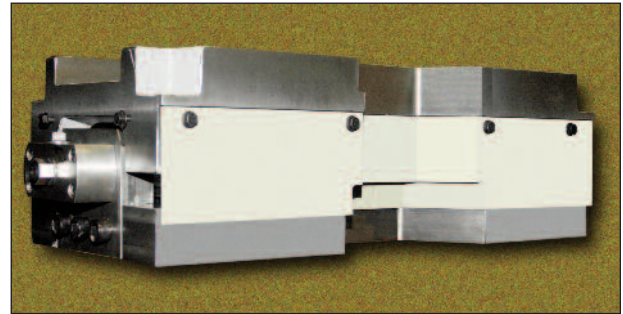
- **Adjustable Bolster**

The NTCH adjustable bolster assembly operates with a mechanical wedge mechanism to provide up to 0.32" (8mm) of adjustment and contains a locking feature to eliminate clearances while allowing for process height consistency.

- **Center Distance Adjustment**

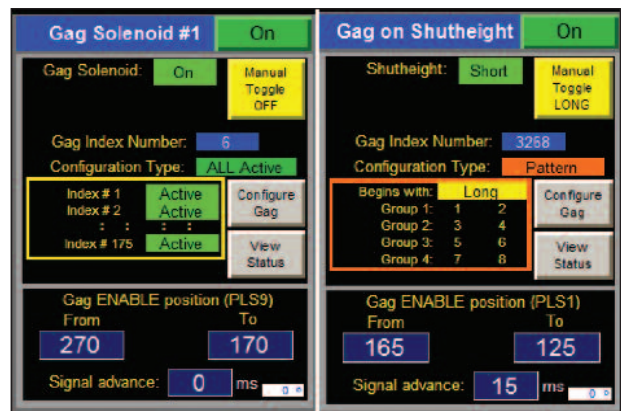
Adjustment of the notching diameter center is accomplished using a ballscrew mechanism with a linear encoder to relay positioning information to the motor control accurate to  $\pm 0.0002"$  (0,0051mm).

- **Pneumatic Blank Clamping Device**
- **Skip Notching I, II, III & IV (Index and Gag Control)**
- **Startup/Slowdown Speed Control**
- **Spiral Skewing**
- **Minster Vibcoach® Vibration Severity Monitoring System**
- **Oil Cooler**
- **Oil Heater (Pre-Heat)**
- **Tonnage Monitor**
- **Integration of Automation Equipment**
- **Pax Lubricator**



## The Minster Advantage

- Proven MINSTER technologies.
- Higher tonnage ~ greater flexibility and potential for multiple-out tooling.
- Higher speeds ~ increased productivity.
- Direct drive servo indexer reduces maintenance and improves accuracy.
- Hydrostatic/hydrodynamic bearing system improves accuracy and eliminates wear.
- Hydraulic clutch/brake improves stopping time and allows for in-die sensing.
- User friendly multi-lingual control.
- Minster global parts, service and technical service support.
- Automation Integration - Part Handling.



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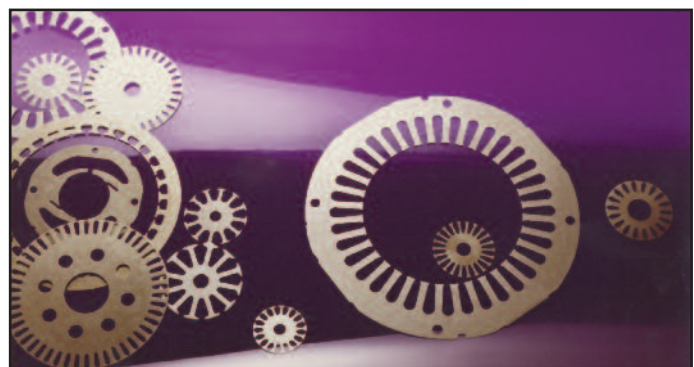
# MINSTER<sup>®</sup>

## NTCH-25 NOTCHING PRESS

Specifications	English	Metric
Tonnage, Rated @ 0.079" (2 mm) Off Bottom	28 Tons	250 kN
Speed Range	200-1200 SPM	200-1200 SPM
Stroke of Slide	0.472"	12 mm
Maximum Lamination Blank Thickness	0.079"	2 mm
Quick Access Slide Travel	1.60"	40,6 mm
Slide Adjustment	1.00"	25,4 mm
Max. Shutheight - SDAU, Bolster Adjust Down	8.067"	205 mm
Min. Shutheight - SDAD, Bolster Adjust Up	6.693"	170 mm
Area of Slide, R-L x F-B	9.0 x 8.0"	229 x 203 mm
Area of Bolster, R-L x F-B	21.5 x 11.75"	546 x 298 mm
Opening in Bolster, R-L x F-B	4.38 x 7.94"	111 x 202 mm
Drive Motor Power	20 HP	15 kw
Approximate Overall Height (From Floor)	114.0"	289 cm
Approximate Press Weight	26,700 Lbs.	12.140 kg

Direct Drive Servo Indexer Range	Large	Compact	Large	Compact
Min. Center Distance Between Indexing Spindle & Slide	6.5"	3.9"	165mm	100mm
Max. Center Distance Between Indexing Spindle & Slide	33.3"	25.6"	845mm	650mm
Maximum Blank Diameter	72.0"	53.1"	1830mm	1350mm

Contact Minster for NTCH-10 Specifications.



*A Century of Heritage Pressed Into a Lifetime of Quality*

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