MINISTER®

LAMINATION & ELECTRICAL PRESS UPGRADES
& AFTERMARKET OFFERINGS

Product Upgrades

TECHNOLOGICALLY ADVANCED TO PROVIDE
GREATER FLEXIBILITY AND INCREASED PRODUCTION
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TR2 Variable Displacement Hydraulic Pump Package

**Description**

(Part No. 810-1038 and 6047-631 for 60 Hz or 3500-181 for 50 Hz)

This package replaces press hydraulic packages that utilize air over oil pumps. Enhancements included with this replacement package include; a spin-on type filtering system, blocked line detection, and a larger lube motor.

**Benefits:**

- Improved Reliability and Serviceability of Your Press Hydraulic System.
- Reduced Downtime.
- Reduced System Maintenance.
- Readily Available Spares.

**Package Includes:**

- New Pump, Motor and Coupling
- All necessary Plumbing, Brackets, and Mounting Hardware to Add the Unit to the Press
- Spin-On Type Oil Filter
- Installation Information

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
LAMINATION & ELECTRICAL PRESS UPGRADES

TR2 Heat Exchanger

Description
(Part No. 810-0251)

This package provides a closed lube heat exchanger system with (2) crown mounted water over oil heat exchangers connected to an air over water chiller.

Package Includes:

- Manifolds and Valves
- Hydraulic Motor
- Tubing, Fittings and Hardware

Benefits:

- Increased Efficiency of Press Lubrication System and Reduced Lubrication Faults.
- Consistent Operating Temperature Results in Consistent Oil Viscosity Which Improves Oil Flow and Pressure Consistency.
- Improved Part Quality.
- Increased Slide Guiding System Effectiveness Due to the Desired Oil Pressure Being Maintained in the Hydrostatic Slide Guides.
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TR2 Hydraulic Bolster Adjustment Package

Description

(Part No. 810-1079)

This package adds a solenoid controlled hydraulic motor to replace the manual adjustment on a TR2 adjustable bolster.

Benefits:

• Allows For Easier Shuteight Adjustment During Die Setting. Hydraulic Pressure On the Threads Acts as a Lock When the Bolster is Not Being Adjusted.

Package Includes:

• Manifolds and Valves
• Hydraulic Motor
• Tubing, Fittings and Hardware
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TR2 Piston Seal Upgrade Package

Description
(Part No. 810-2284 or 810-2208)
This package provides better drive piston seals to replace the original seals. The new seals require new drive piston housings and retainers.

Benefits:
• Improved Seal Performance.
• Longer Seal Life.
• Reduced Downtime.

Package Includes:
• Oil Seals and O-Rings for Drive Pistons
• Slide Piston Housing and Orifices
• Piston Seal Retainer

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TR2 Guide Post Seal Kits

Description
This package provides all necessary components to replace the housings and seals on the hydrostatic bearings that guide and locate the press slide.

Benefit:
• The New Seal Housings Position the New Style Seals Against the Guide Post to Prevent Leaks and Reduce Wear.

Package Includes:
• Seal Housings
• Oil Seals
• O-Rings
• Retainers

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# LAMINATION & ELECTRICAL PRESS UPGRADES

## TR2 Bolster Shutheight Encoder

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<th>Description</th>
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<td>(Part No. 810-2260)</td>
<td>• Encoder</td>
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<td>• Cables</td>
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<td>• Digital Display</td>
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<td></td>
<td>• All Necessary Mounting Hardware</td>
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**Description**

This package replaces the obsolete mechanical counter with an encoder and digital display.

**Benefits:**

- Improved Reliability.
- Integrated Shutheight Control.

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Adjustment in Motion (AIM) Upgrade

Description
This package adds either an in die sensor or a sensor between the slide and upright to feedback shutheight information to the press control during operation.

Benefit:
• The Press Automatically Adjusts the Shutheight During Operation to Compensate For Internal Thermal Expansion and Connection Stretch at High Speeds to Keep a Consistent Shutheight During Critical Stamping Operations.

Press Lines:
• HB and PM3 With PMC Version 6 or Later

Package Includes:
• Electronic Sensor and Target
• Slide Adjust Resolver
• Mounting Brackets
• All Necessary Hardware

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
LAMINATION & ELECTRICAL PRESS UPGRADES

Clutch Sleeve Anti-Fretting Mounting Package

Description
(Part No. 810-1015)
This package replaces the existing clutch sleeve with a new clutch sleeve that is designed to incorporate an internal shaft locking device. This device virtually eliminates any fretting that may occur between the clutch sleeve and the crankshaft.

Benefits:
• Reduces Risk Of Extended and Unplanned Downtime Due To Crankshaft Failure.
  ~ By Reducing Crankshaft Fretting, the Crankshaft Life is Significantly Increased.
• Reduces Potential Maintenance Costs.

Press Lines:
• ECH, EC, PM3, PM2, P2H, DASH, DACH, OPTH, and SASH

Package Includes:
• New Clutch Sleeve
• Shaft Locking Assembly
• Oil Seal and O-Ring
• Installation Information

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
LAMINATION & ELECTRICAL PRESS UPGRADES

Flywheel Bearing Re-Grease Package

Description
(Part No. 810-0104)

This package provides an easily accessible method of replenishing the grease for the flywheel bearings. It also includes new flywheel bearings and bearing spacers that are assembled to tight tolerances. Note, the flywheel typically requires rework to incorporate this new package. This package is standard with all spherical bearing upgrades.

Benefits:
• Increases Flywheel Bearing Life By An Average of 250% Over Non Re-Grease Installations.
  ~ Re-Greasing the Bearings Allows Them To Run Cooler and More Efficient, Resulting In Prolonged Life.
  ~ Modified Bearing Installation Tolerances Optimize Bearing Life.
• Reduced Maintenance Costs.
• Reduced Unplanned Downtime.

Press Lines:
• ECH, EC, PM3, PM2, P2H, DASH, DAC, DAS, OPTH, SASH and TR2

Package Includes:
• Flywheel Bearings
• Bearing Spacers and Retainers
• Bearing Oil Seals
• O-Rings
• Fittings and Hoses Required For Installation
• Drawings and Instructions For Required Flywheel Modifications

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
LAMINATION & ELECTRICAL PRESS UPGRADES

Conversion to Flywheel Spherical Bearings

Description (Part No. 810-2247)

This package replaces crankshaft flywheel cylindrical bearings with spherical roller bearings. Flywheel re-work may be required for proper lubrication. This package incorporates the flywheel regrease package.

Benefits:
• Prevents False Brinelling.
• Improves Bearing Life.
• Simplifies Installation.

Press Lines:
• ECH, P2H, EC, PM3 and SASH
  (May not be available for some models.)

Package Includes:
• Flywheel Bearings.
• Bearing and Cone Spacers.
• Retainers and Seals.
• Misc. Mounting and Lubrication Hardware.
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Piston Accumulator Package

Description
(Part No. 1262-1259)

This package replaces the bladder type hydraulic accumulator with a modern nitrogen charged piston accumulator.

Benefits:
• Improved Availability of Parts.
• Easier Maintenance.
• Constant System Pressure During Inch and Single Stroking Operations.

Press Lines:
• EC, ECH, OPTH, DASH, SASH, P2H and TR2

Package Includes:
• Piston Type Accumulator
• Mounting Bracket and Hardware
• All Necessary Hoses and Fittings

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
**Dynamic Balancer MonitorFlow® Package**

**Description**  
(Part No. 810-0344)  
This package adds a MonitorFlow system to ensure that the lubrication to the balancer guides is not interrupted due to blockage.

**Benefit:**  
*Prevents Catastrophic Downtime That Could Result If the Oil Supply to the Dynamic Balancer is Interrupted.*

**Press Lines:**  
• DASH, EC, PM2 and PM3

**Package Includes:**  
• MonitorFlow Control Panel  
• All the Necessary Plumbing to Install the MonitorFlow Kit  
• Updated Hydraulic Diagram  
• New Plumbing Layout

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
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Hydura Pump Replacement Package

Description
(Part No. 1222-293)

This package is necessary to replace the obsolete Hydura Pumps used for the hydraulics and lubrication on Minster press styles EC, PM3, & PM2.

Benefits:
• Direct Replacement For Obsolete Hydura Design.
• Current Design Allows For Improved Part Availability.

Press Lines:
• EC, PM3 and PM2

Package Includes:
• New Motor w/Pump Mounting Flange and Coupling
• (1) Hydraulic and (1) Lube Pump

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
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Conversion To Variable Frequency Drive

Description
Conversion of press main drive motor to a press rated, inverter-duty motor with a VFD control.

Benefits:

**VFD Controller:**
- Provides Higher Performance Throughout the Full Speed Range.
- Reduces Operating Costs By Maintaining An Electrical Power Factor of Up To 18% Higher Than Eddy Current Motors.
- Provides Tighter Speed/Torque Control.
- Includes An EMI (Electromagnetic Interference) Filter To Prevent Disturbances of Other Electronic Equipment Within Your Plant.
- VFD Control Replacement Parts and Support is Readily Available 24/7/365.
- 12-Month Warranty as a Standard on the VFD Control.
- 24-Month Extended Warranty if the Control is Installed By a Certified Minster Technician.

**Press Rated, Inverter Duty Drive Motor:**
- 10:1 Torque Speed Ratio. Motor Supplies Constant Torque From 10% to 100% of Full Speed.
- Provides Longer Life Than a Standard AC Motor in VFD Applications.
- Shielded Motor Cable Included, Increases Motor Bearing Life By Reducing Electrical Noise Emissions and Their Negative Effects.
- 36-Month Warranty That is Backed By Minster and More Than 1000 World Wide Service Outlets.
- Significantly Quieter Than an Eddy Current Motor.

Press Lines:
- Available For All Minster Presses

Package Includes:
- Press Rated Inverter Duty Motor Equipped With An EMI Filter.
- Variable Frequency Control in Wall Mountable, NEMA 12 Enclosure.
- Motor Mounting Parts and Layout Drawing For Mounting Modifications.
- 50 Feet of Shielded Motor Cable.
- Installation and VFD Setup Information.
- **Options Which Can Be Included:**
  ~ Installation and VFD Commissioning By Certified Minster Service Technicians.
  ~ New Main Contactor.
  ~ Remote Fwd/Rev Selector Switch.
  ~ Remote Speed Control.
  ~ Remote Speed & Load Meters.
**Description**  
*Part No. 810-1155 for E2’s and DAC’s*

The Minster Rotary Union (MRU) is designed to transfer fluid up to 10,000 psi into rotating machinery at speeds of up to 1,500 rpm. The MRU was designed with hydrodynamic oil film type bearing and high pressure seal arrangement in place of the failure prone face seals and roller bearings utilized in typical rotary unions. The MRU has been the standard for all for Minster hydraulic clutches since 1998.

**Benefits:**

- **3 to 5 Times the Life of Typical Rotary Unions Due To:**
  - Elimination of High Pressure Face Seals.
  - Elimination of Rolling Element Bearings.

- **Ability To Withstand High Vibration Environments.**

- **Units Can Be Rebuilt.**

- **Alternative and Custom Designs Are Available.**

**Press Lines:**

- Any Minster Press With a Hydraulic Clutch.

**Package Includes:**

- Rotary Union
- High Pressure Hose
- Drain Hose
- All Necessary Plumbing and Mounting Hardware.

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**For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000**
**Description**
(Ref. Part No. 810-0343)

The new air rotary union package replaces the old slower speed leather seal style rotary air union.

**Benefits:**

- Applicable to Higher Press Speeds.
- Better Part Availability.
- Ease of Maintenance

**Press Lines:**

- Any Minster Press With an Air Clutch

**Package Includes:**

- Rotary Union
- Distributor Spindle, Seal and Adapter
- All Necessary Plumbing and Mounting Hardware
- Installation Instructions

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
LAMINATION & ELECTRICAL PRESS UPGRADES

Replaceable Brake Key Linings

Description
This package adds new, more durable brake keys with replaceable linings to existing Minster Clutch/Brake Units.

Benefits:
• Reduces Damage To the Brake Disc Anchor Slot and the Brake Key Incurred During Normal Operation and Single Stroke Applications.

Press Lines:
• All Presses Utilizing the Minster MC, EFHC and MHC Clutch/Brake Units.

Package Includes:
• New Brake Keys
• Brake Anchor Key Pads
• All Necessary Mounting Hardware

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
LAMINATION & ELECTRICAL PRESS UPGRADES

Air Clutch/Brake Unit Facing Upgrade

Description
This kit updates your existing clutch/brake with new, more aggressive facings.

Benefits:
- Increased Brake Friction For Better Reaction Time.
- Provides Increased Protection Of Press and Dies.

Press Lines:
- All Presses Utilizing Minster Air Clutch/Brake Units.

Package Includes:
- New Brake Facings
- Mounting Hardware
- Steel Brake Disk

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
LAMINATION & ELECTRICAL PRESS UPGRADES

MC Clutch/Brake Unit Spring Package

Description
This package adds four brake springs to your existing 12-spring MC Clutch/Brake Unit.

Benefits:
- Increased Brake Torque For Reduced Brake Activation Time. (Increased Brake Torque Reduces Clutch Torque.)

Press Lines:
- All Presses Utilizing the Minster MC Clutch/Brake Unit.

Package Includes:
- Pressure Plate*
- Cylinder Plate*
- New Brake Studs
- New Brake Springs
- Steel Brake Disk

*Original Parts Can Be Reworked To Accept Four More Springs

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
## Tandem Air Valve Clutch Package

### Description
This upgrade replaces the current clutch valve with a tandem air clutch valve.

### Benefits:
- Minster Tandem Air Clutch Valves Are Connected in a Parallel Circuit to Allow Quick De-activation of the Clutch in the Event That One of the Valves Should Fail Mechanically. Available With Either Mechanical or Electronic Valve Monitoring.

### Press Lines:
- All Air Clutch & Brakes Utilizing ¾ & 1¼ Clutch Valves.

### Package Includes:
- New Dual Air Clutch Valve
- Connector Cables
- Mechanical Reset (If Applicable)
- All Necessary Hoses, Fittings and Tubing
Detachable Slide Adjust Motor Package

Description
(Part No. 810-1856 or 810-1866)
Detachable motorized adjustment motor to be used to adjust the press shutheight for die setting. Fastens into a bracket mounted on the press slide yet can be removed for use on other presses after set up is complete.

Benefits:
• Reduced Die Set Up Time By Using This Detachable Air Powered Shutheight Adjustment Motor to Adjust Press Shutheight.
• Easier to Use Than Manual Slide Adjustment Wrenches.

Press Lines:
• P2, DAC, DAS, PM2 and PM3

Package Includes:
• Air Motor
• Air Motor Anti-Rotation Bracket
• Adjust Socket
• Air Hose
• Quick Disconnect Coupling
• Installation Information

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
**SA Brake Lock-Up**

**Description**  
(Part No. 810-1260)  
This package adds a hydraulic lock-up brake to the wormshaft to prevent slide drift.

**Benefits:**  
- Increased Lift of Slide Shutheight Adjustment Parts.  
- Improved Reliability of Slide Adjustment Operation.  
- Reduced Maintenance and Downtime.

**Press Lines:**  
- PM2, PM3 and PM4

**Package Includes:**  
- Hydraulic Brake  
- New Worm Shaft  
- All Necessary Manifold and Housing Assemblies  
- All Necessary Mounting Hardware

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For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
LAMINATION & ELECTRICAL PRESS UPGRADES

Automatic Shutheight Adjustment for Slide or Bolster

Description
This package allows for automatic shutheight adjustment using the slide or bolster, from your control pedestal and/or touch screen.

Benefits:
• Allows For Accurate Adjustment and Gauging of Shutheight Using the Slide or Bolster From Your Control Pedestal and/or Touch Screen.
• Can Be Set to Automatically Adjust to a Pre-determined Set Point.

Press Lines:
• Most Minster Presses With Slide or Bolster Height Adjustment and Production Management Control (PMC).

Package Includes:
• Encoder With Mounting Bracket
• Drive Coupling or Pulleys
• All Necessary Mounting Hardware
• Control Programming for Readout

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
Description (Part No. 810-0562)
Heaters are provided to put in the reservoir to heat the oil before it is distributed throughout the press. The heaters are regulated to maintain the proper oil temperature and are activated when the press is NOT cycling.

Benefits:
• Will Maintain Proper Oil Operating Temperature While the Press is Not Cycling, Which is Especially Critical in Cooler Climates.
• Allows For Faster Press Start-Up.

Press Lines:
• All Minster Press Lines With Proper Sump Capacity

Package Includes:
• Immersion Heaters
• Preset Thermostat
• Oil Reservoir Cover(s)
• Installation Hardware
• Installation Instructions

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
Heat Exchanger Package

Description

(Part No. 810-0251)

This package incorporates a heat exchanger into the press sump in order to maintain a consistent press oil temperature. This results in a consistent oil viscosity and increased thermal stability.

Benefits:

• Improves Part Quality:
  ~ The Slide Guiding System Effectiveness is Increased Due to the Desired Oil Pressure Being Maintained in the Slide Guide Housings as a Result of Consistent Oil Viscosity.

• Improves Part Consistency By Better Maintaining Bottom Dead Center Repeatability:
  ~ Shutheight Stability is Increased as a Result of Reduced Thermal Growth.

• Increases Efficiency of Press Lubrication System and Reduces Lubrication Faults:
  ~ Consistent Operating Temperature Results in Consistent Oil Viscosity, Which Improves Oil Flow and Pressure Consistency.

Press Lines:

• PM3 and PM4

Package Includes:

• Heat Exchanger
• Thermalprobe and Thermometer
• Level Switch
• Installation Information
• All Necessary Plumbing, Brackets and Mounting Hardware to Add This Unit to the Press

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
Description
(Part No. 810-2127)

This package adds retainers to the ends of the connection pins to eliminate connection pin movement.

Benefits:
• Prevents Pin From Working Loose in High Snap-Thru or High Vibration Applications.
• Reduces Excessive Wear.
• Increased Bushing and Pin Life.

Press Lines:
• E2H and PM4

Package Includes:
• Connection Pins
• Retainers
• Keys
• Mounting Hardware

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
Description
(Part No. 810-2162, 810-2163, 810-2164)
Adds flexible oil deflectors on connection near connection pin.

Benefits:
- Decreases Oil Splash Around Wrist Pins.

Press Lines:
- E2H and PM4

Package Includes:
- Oil Deflectors For Both Sides of Both Wrist Pins.
- Mounting Hardware.

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LAMINATION & ELECTRICAL PRESS UPGRADES

Piston and Connection Heaters

Description
(Part No. 1218-193)
When a press is initially started, heat, generated by friction, will begin to warm the structure. Until the connections and/or pistons reach a stable operating temperature, the shutheight may vary. By preheating the connections and/or pistons to operating temperature, any changes in shutheight can be minimized.

Benefits:
• Helps to Limit Loss of Shutheight Due to Thermal Elongation of the Connections and Pistons After the Press Has Been Running.
• Can Be Used to Maintain the Connection Temperature Whenever the Press Has Been Shut Down For Short Periods of Time.

Press Lines:
• Most Minster Press Lines

Package Includes:
• (2) Cartridge-Type Heaters Per Connection or Piston.
• Electrical Control Box
• Connection Remachine Print
• Wiring Diagram

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
Die Door Assembly

Description
This package adds front or/and rear die doors on an existing press.

Benefits:
• Die Doors Provide a No-bypass Safety Barrier and Assist in Containment of Die Lubricant.
• Die Doors Meet OSHA Requirements.

~ NOT INTENDED AS A PROJECTILE BARRIER~

Press Lines:
• P2, E2, PM2 AND PM3

Package Includes:
• Doors and Track
• Counter Weights
• Safety Switches and Hardware

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
Vibration Isolators

Description
This package will provide vibration isolators for each corner of the press.

Benefits:
• Reduces Transmitted Shock and Vibration.
• Provides an Adjustment Means to Precisely Level, Align and Properly Support Your Press.
• Can Provide the Same Level of Isolation as Air Mounts but Without the Same Risk of Damage or Leakage.

Press Lines:
• All Presses

Package Includes:
• Isolator Assemblies
• Leveling Screws

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
LAMINATION & ELECTRICAL PRESS UPGRADES

Safety Railing

Description
(Part No. 810-2145)
Add crown safety railing with caged ladder access. Lockout devices can be added to ensure press cannot run while personnel are working on the crown.

Benefits:
• Can Be Customized to Fit Customer’s Needs.
• Lockout Devices Can Tie Into Current Press Control.

Package Includes:
• Safety Railing
• Caged Ladder
• Safety Lockout Devices
• Mounting Equipment
• Installation Instructions

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
Aluminum Die Safety Blocks

**Description**
This package is for adding die safety blocks with repetitive shutheights. Each block has a predetermined static load rating and is made to a specific length.

**Benefits:**
- **Strong For Static Loads and Lightweight For Handling.**
- **Can Be Supplied For a Large Range of Shutheights.**
- **Meets OSHAC Regulations.**

**Press Lines:**
- All Minster Presses

**Package Includes:**
- Safety Block(s)
- Interlocking Plug and Receptacle
- Optional Safety Block Holder Available

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
# Adjustable Die Safety Block Package

## Description
This package simplifies using die safety blocks with frequent shutheight variations. Each block has a predetermined adjustable range and specific load rating.

## Benefits:
- **Reduces Die Set Up Time.**
- **Versatile For a Variety of Shutheights.**
- **Adjustable Height Feature to Eliminate the Need For Wedges.**
- **Meets OSHA Regulations.**

## Press Lines:
- **All Presses**

## Package Includes:
- **Height Adjustable Safety Block**
- **Interlocking Plug and Receptacle**
- **Optional Safety Block Holder Available**

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For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
CONTRACT PRESS UPGRADES

Press Remanufacturing & Component Rebuild

Description

Minster’s Services Division can modify and enhance your equipment to better meet your current requirements. You make the choice whether to refurbish, rebuild or remanufacture your equipment.

Minster can handle your project from start to finish including: tear down, transport, upgrade, modify and install.

Minster’s years of experience and skill have been applied to non-Minster equipment for years. Think Minster for all you press room equipment needs.

Benefits:

• Minimizes Damage By Having Minster Do the Tear Down, Removal and Installation.

• Rebuild to Suit Your Unique Requirements. Whether You’re Faced With Budget or Time Constraints, or For Any Other Reason, We Will Quote the Scope of Work That Makes Sense For You.

• Incorporates Newer Technology and Upgrades.

Press Lines:

• Minster Press Line Equipment and Most of the Other Brands’ Equipment

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Preventive Maintenance Programs

Description
Custom Care PM is a preventive maintenance program. The Program begins with a press line audit to determine your equipment’s current condition which is required for predictive analysis.

This program also includes semi-annual 100-point preventative maintenance checks.

Minor maintenance is performed which may include changing the machine’s oil filters and oil if available, replacing lube lines and making adjustments as necessary.

Benefits:
• Service rate discounts of 5% to 10%.
• Repair parts discounts of 5% to 10%.
• One day of operator training for up to three people per year in Minster’s Customer Education Center at no charge.
• Increased productivity and equipment reliability.
• Reduced unplanned down time as most repairs can be planned and scheduled in advance.
• OEM Certified Inspection reports & Maintenance records.
• One-year warranty on Service work performed & Parts replaced.
• Availability of original equipment prints in DXF file format.
• Increased die life as a result of more closely maintained equipment tolerances.
• Extended equipment life as a result of making necessary adjustments before more extensive wear occurs.

Press Lines:
• Minster Press Line Equipment and Most of the Other Brands’ Equipment

Package Includes:
• Customized Package to Suit Every Customer’s Needs

Call Minster today for exclusive details:
(419) 628-6000
or e-mail:
customcare@minster.com

For Further Information Contact service@minster.com or Call Minster Customer Service Department at (419) 628-6000
Before You Invest in New Material Forming Technology, You’re Invited to Visit Our Manufacturing, Training, Research, Parts and Service Facilities to See How “Minster Quality” is Built Into All of Our Products and Services.

A Nidec Group Company

A Century of Heritage Pressed Into a Lifetime of Quality

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Minster Has Sales and Service Offices Located Throughout the World

Contact Minster Direct For The Name of Your Global Representative