Lamina

Hydraulic Equipment

www.anchorlamina.com
Check our website for the latest technical information.
Lamina Hydraulics has moved into the new millenium with upgraded, user friendly electronic technology. These products are more efficient, quieter and easy to use.

Drilling Equipment – Product offering includes: Heavy-duty, portable hydraulic power unit and a choice of six drill heads which work interchangeably with the power unit.

Die Setting Equipment – Product offering includes: Heavy-duty, portable hydraulic Die Setter with retractable hose reels, a choice of hydraulic cylinders, and a set of cribbing rings and pads. Available with four or six cylinders.

Die Separating Equipment – Product offering includes: Heavy-duty, portable hydraulic Die Separator with retractable hose reels, a choice of hydraulic cylinders and a set of cribbing rings and pads.
For over 45 years, Lamina is the name in portable hydraulic drilling equipment.

The Lamina Portable Heavy-Duty Drill is versatile enough to go almost anywhere, providing continuous heavy duty drilling and tapping, even in the most cramped quarters. The compact drill delivers remarkable power in openings as narrow as 9-1/4”. Furthermore, the drill’s magnetic base attaches to the drilling surface at almost any angle, including vertically and horizontally.

The Experienced Edge. Lamina has long been recognized as a leader in portable hydraulic drill technology. For over 45 years, Lamina has provided a cross-section of American industry with a durable, high-power portable drill. Our team of engineers have combined power and portability in a single drill, allowing it to effectively function in a broad spectrum of applications.

Lamina takes pride in its superior quality. Before any Lamina Drill is shipped, it is tested by drilling a hole at its maximum capacity.

Now with the addition of electronics the unit exceeds former expectations and offers more power and efficiency, automatic hose reels, more safety features and lower noise level.

The Portable Heavy-Duty Electronic/Hydraulic Die Setter is an important addition to the Lamina Hydraulic Equipment line. This unit has truly proved itself since it was first offered in 1998.

Owners of the Lamina Die Setter are pleased with its low maintenance, dependability and high load capabilities. The electronics help maintain precise levels when raising and lowering the most-off center weight distribution.

The Six Cylinder Die Setter was designed and developed for oversized dies that require extra lift at the center to keep the die level during separation.

For those applications where precision is not an issue and where the need is only to separate dies, a Portable Heavy-Duty Hydraulic Die Separator is available which includes all the features of the Portable Heavy-Duty Die Setter without the electronics.

Lamina Hydraulic Equipment features rugged steel construction. It is built to last... and take rough handling. With the lifting bales these units are portable enough to be placed almost anywhere they are needed.
Hydraulic Power Unit

Compact cart is easily moved right to the job site. It is 44.5 inches long x 24.5 inches wide x 54.5 inches high, mounted on casters, equipped with 15 feet of hydraulic pressure hoses and quick disconnect fittings. Electrical controls conform to National Electrical Manufacturers Association (N.E.M.A.) standards, complete with start and stop controls, and a remote pendant speed control. The main electrical panel includes a 12V 60 amp, deep cycle battery with rectifier charger operating from voltage listed in table below. Complete with oil, hoses and connectors. Remote speed control is standard. There are three new power unit configurations that are available: one with a 110V outlet (110-Volt AC - Single Phase - 15 Amp), one that has a compact cart without a hose reel or shelf (shown below), and another that is suited for outdoor use in cold climates. Please specify the following suffixes when ordering these optional power units: “OUTLET,” “COMPACT” OR “OUTDOOR.”

- **New Control console complete with:**
  - Battery Voltage Gage
  - Oil Pressure Gage
  - Power Indicator Light
  - Electronic Oil Level Display
  - Hour Meter
  - Emergency Stop Button
- 15 feet of hydraulic hoses on Power Unit
- 7-1/2 feet of hydraulic hoses on Drill head
- 30 feet of electrical cable to cart
- 30 feet of control cable to pendant box
- 6 feet of cable on drill head to pendant box
- Maximum flow rate of 12 gallons per minute (GPM)
- Standard Operating Pressure of 1550–1600 pounds per square inch (PSI)
- Oil required: Mobil® DTE-10 Excel 32 (15 gallons) (ISO 32)
- Back-up Battery Gel Cell 60 amp Deep Cycle – F.A.A. approved
- Foot Brake
- Lifting Bale

Our standard remote speed regulator can change speeds (GPM) remotely and conveniently by merely pushing the increase or decrease button on the pendant control.

There is no loss of magnetic force if service power fails; 12-volt battery automatically supplies current for magnet. Automatic battery charger maintains top level charge in battery (audio alert when not charging).

Oil is always radiator-cooled before returning to tank.

By-pass valve prevents tap breakage when unusual load conditions are present, and permits bottoming tap within recommended range of each head.

In addition, by using a simple shunt device, the unit may be used in any number of applications requiring a hydraulic power unit. To order this shunt device, please specify part number ASSY-21. This shunt device is required for drills ordered without a magnetic base (-NMB).

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>THREE PHASE VOLTAGE</th>
<th>Hz</th>
<th>SHIPPING WEIGHTS</th>
<th>CRATE DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pounds</td>
<td>(inches)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>with oil</td>
<td>with oil</td>
</tr>
<tr>
<td>HPU220</td>
<td>220</td>
<td>60</td>
<td>1050</td>
<td>950</td>
</tr>
<tr>
<td>HPU440</td>
<td>440</td>
<td>60</td>
<td>1050</td>
<td>950</td>
</tr>
<tr>
<td>HPU600</td>
<td>600</td>
<td>60</td>
<td>1050</td>
<td>950</td>
</tr>
<tr>
<td>HPUCE380*</td>
<td>380</td>
<td>50</td>
<td>1130</td>
<td>1030</td>
</tr>
</tbody>
</table>

* For export, meets with CE standards
Drill Heads A10048SH & A10048H

- Compact – smaller head available in two column lengths
- Drills up to 13/16 inch (20.64mm) in solid steel without pilot hole
- Drills up as well as down, even horizontally
- Fits in tight spaces
- Rugged

- Drill Capacity–AISI 1020 Steel 13/16 Inch Diameter
- Tap Capacity–AISI 1020 Steel 3/4–10 threads per inch
- Motor Horsepower 5.21 Hp
- Maximum Torque 525 inch pounds
- Variable R.P.M. to 625 RPM
- Feed Method Hand
- Tool Shank A10048SH
- Tool Shank A10048H
- Magnet Capacity (Pull Force) 1200 pounds force
- Magnet Size 4-7/8 inches
- Weight A10048SH 22 pounds
- Shipping Weight A10048SH 28 pounds
- 9-1/4 inches
- 9-1/4 inches
- 10-3/4 inches
- 26 pounds
- 33 pounds
- 9-1/4 inches
- 9-1/4 inches
- 15 inches

<table>
<thead>
<tr>
<th>Drill Heads</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A10048SH</td>
<td>#1 Stub Taper</td>
</tr>
<tr>
<td>A10048H</td>
<td>#1 Morse Taper</td>
</tr>
</tbody>
</table>

Drilling or tapping cannot begin until the magnet is turned on.
Step drilling of slightly larger diameter holes is possible.

Note: “G” dimension is from the center of the spindle to the front of the column.

<table>
<thead>
<tr>
<th>A10048SH</th>
<th>A10048H</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>10-5/8</td>
<td>15-1/2</td>
</tr>
<tr>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>7-1/2</td>
<td>7-1/2</td>
</tr>
<tr>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>7-1/8</td>
<td>7-1/8</td>
</tr>
<tr>
<td>Stroke D</td>
<td>Stroke D</td>
</tr>
<tr>
<td>3-1/8</td>
<td>8</td>
</tr>
<tr>
<td>Height E</td>
<td>Height E</td>
</tr>
<tr>
<td>9-1/4</td>
<td>13-3/4</td>
</tr>
<tr>
<td>Depth F</td>
<td>Depth F</td>
</tr>
<tr>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>1.036</td>
<td>1.036</td>
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<tr>
<td>J</td>
<td>J</td>
</tr>
<tr>
<td>2.900</td>
<td>2.900</td>
</tr>
<tr>
<td>Width</td>
<td>Width</td>
</tr>
<tr>
<td>4-7/8</td>
<td>4-7/8</td>
</tr>
</tbody>
</table>

Drill heads can be fixtured for special applications.
Drill heads can be ordered without magnetic bases. Please specify “-NMB” suffix.

Note: All dimensions are in inches.

### Drills, Taps & Adaptors for Lamina Drill Head A10048SH

#### Drills & Taps

<table>
<thead>
<tr>
<th>Drill Number*</th>
<th>Flute Dia.</th>
<th>Flute Length</th>
<th>Overall Length</th>
</tr>
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<tbody>
<tr>
<td>HDD312</td>
<td>.260</td>
<td>1.15</td>
<td>3.12</td>
</tr>
<tr>
<td>HDD375</td>
<td>.316</td>
<td>1.62</td>
<td>3.12</td>
</tr>
<tr>
<td>HDD500</td>
<td>.432</td>
<td>1.56</td>
<td>3.12</td>
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<tr>
<td>HDD625</td>
<td>.541</td>
<td>2.00</td>
<td>3.56</td>
</tr>
<tr>
<td>HDD750</td>
<td>.666</td>
<td>2.38</td>
<td>3.94</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Drill Number*</th>
<th>Flute Dia.</th>
<th>Flute Length</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD-6.75</td>
<td>6.75</td>
<td>50.80</td>
<td>95.25</td>
</tr>
<tr>
<td>MD-8.5</td>
<td>8.5</td>
<td>57.15</td>
<td>95.25</td>
</tr>
<tr>
<td>MD-10.2</td>
<td>10.2</td>
<td>66.55</td>
<td>107.95</td>
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<tr>
<td>MD-14.0</td>
<td>14.0</td>
<td>73.15</td>
<td>114.30</td>
</tr>
<tr>
<td>MD-17.5</td>
<td>17.5</td>
<td>73.15</td>
<td>114.30</td>
</tr>
</tbody>
</table>

#### Adapters

- HLDR0000-0075 EXTENSION #1 Stub to #1 Stub
- HLDR0000-0076 ADAPTER #3 Morse to #1 Stub

### Lamina Drills #1 Stub Taper

Exclusive to Lamina

<table>
<thead>
<tr>
<th>Drill Number*</th>
<th>Thread Dia.</th>
<th>Threads per Inch</th>
<th>Thread Length</th>
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</thead>
<tbody>
<tr>
<td>HDT312</td>
<td>5/16</td>
<td>18</td>
<td>1.38</td>
</tr>
<tr>
<td>HDT375</td>
<td>3/8</td>
<td>16</td>
<td>1.62</td>
</tr>
<tr>
<td>HDT500</td>
<td>1/2</td>
<td>13</td>
<td>1.62</td>
</tr>
<tr>
<td>HDT625</td>
<td>5/8</td>
<td>11</td>
<td>1.88</td>
</tr>
<tr>
<td>HDT750</td>
<td>3/4</td>
<td>10</td>
<td>1.88</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tap Number*</th>
<th>Thread Dia.</th>
<th>Thread Pitch</th>
<th>Thread Length</th>
<th>Thread Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDT312</td>
<td>T-M8</td>
<td>8</td>
<td>1.25</td>
<td>35.05</td>
</tr>
<tr>
<td>HDT375</td>
<td>T-M10</td>
<td>10</td>
<td>1.50</td>
<td>41.15</td>
</tr>
<tr>
<td>HDT500</td>
<td>T-M12</td>
<td>12</td>
<td>1.75</td>
<td>41.30</td>
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<tr>
<td>HDT625</td>
<td>T-M16</td>
<td>16</td>
<td>2.0</td>
<td>47.75</td>
</tr>
<tr>
<td>HDT750</td>
<td>T-M20</td>
<td>20</td>
<td>2.5</td>
<td>47.75</td>
</tr>
</tbody>
</table>

*Note: The HDD312 drill creates a pilot hole for the HDT312 tap. The other drills and taps have a similar relationship.

Safety devices should be used when drilling horizontally or overhead.
Drill Head B10065H

Drilling or tapping cannot begin until the magnet is turned on.

Drill heads can be fixtured for special applications.

Drill heads can be ordered without magnetic bases. Please specify “-NMB” suffix.

Drill Capacity– AISI 1020 Steel 1 inch diameter (25.4mm)
Tap Capacity– AISI 1020 Steel 1 inch–8 threads per inch
Motor Horsepower 6.64 Hp
Maximum Torque 1000 inch pounds
Variable R.P.M. to
Feed Method
Tool Shank
Magnet Capacity (Pull Force)
Magnet Size
Weight
Shipping Weight
Crate Dimensions
Height
Width
Length
Old Serial Number Prefix

Step drilling of slightly larger diameter holes is possible.

Drill heads can be fixtured for special applications.

Drill heads can be ordered without magnetic bases. Please specify “-NMB” suffix.

Safety devices should be used when drilling horizontally or overhead.
Drill Head B15075P

Drilling or tapping cannot begin until the magnet is turned on.

Automatic power feed heads can be used both in manual and power feed operations.

Automatic power-feed heads have limit switches that prevent operation of drill head if magnetic base becomes dislodged.

Drill heads can be fixtured for special applications.

Drill heads can be ordered without magnetic bases. Please specify "-NMB" suffix.

Drill Heads H15010P

Drilling or tapping cannot begin until the magnet is turned on.

Automatic power feed heads can be used both in manual and power feed operations.

Automatic power-feed heads have limit switches that prevent operation of drill head if magnetic base becomes dislodged.

Please specify "-OFOM" suffix for optional power feed, optional high torque motor.

Drill heads can be fixtured for special applications.

Drill heads can be ordered without magnetic bases. Please specify "-NMB" suffix.

Safety devices should be used when drilling horizontally or overhead.
The Go Anywhere, Do-It-All Die Setting Solution

One compact, low-profile, wheeled cabinet contains everything you need for all the punch spotting, die setting, and die separation jobs in your shop.

Electronic Die Setter – 4 Cylinders

Each unit has two modes of operation:
1. Unify Mode – Cylinders will extend until they all contact the die, then they will lift uniformly.
2. Parallel Mode – Cylinders will all extend at the same rate. To initiate this mode, cylinders must be fully extended or retracted.

• Heavy-duty hydraulic power handles the heaviest dies with state-of-the-art electronic PLC control for precision and accuracy.
• Handy self-retracting hose reels and control pendant keep every jobsite neat, and protect hoses and cables from damage.
• Three different cylinder sizes are available, along with strong, lightweight cribbing blocks to extend their strokes to handle your biggest jobs.
• Completely portable with large casters and built-in lifting bales, the Lamina Electronic Die Setter is the Go-Anywhere, Do-It-All Die Setting Solution you’ve been looking for.
• If you use a tryout press for spotting punches and trim steels, you can free up that tryout press and use our Lamina Electronic Die Setter instead.

Oil required: Mobil® DTE-10 Excel 32 (15 gallons) (ISO 32)

Standard Safety Features
• Low voltage, three-button pendant for two hand control
• Quick Disconnect Fittings
• Palm Emergency Stop
• Cylinder Safety Lock Cartridge Valves
• Cart Foot Brake
• Lifting Bales

Saves time and money! Most economical die setting solution available!

WARNING – Always use safety blocks when reaching inside of dies.

<table>
<thead>
<tr>
<th>ELECTRONIC DIE SETTER OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Die Setter – 4 Cylinder</td>
</tr>
<tr>
<td>220V Power Source</td>
</tr>
<tr>
<td>380V Power Source</td>
</tr>
<tr>
<td>440V Power Source</td>
</tr>
<tr>
<td>600V Power Source</td>
</tr>
<tr>
<td>With 4 inch Cylinders/Cribbing Blocks</td>
</tr>
<tr>
<td>With 6 inch Cylinders/Cribbing Blocks</td>
</tr>
<tr>
<td>With 9 inch Cylinders/Cribbing Blocks</td>
</tr>
</tbody>
</table>

Shipping Wt.: 1375 pounds (with oil)
1275 pounds (without oil)

Voltage:
220V 3 Phase 60 Hz
440V 3 Phase 60 Hz
600V 3 Phase 60 Hz
380V 3 Phase 50 Hz
(380V built to CE standards)

Dimensions:

<table>
<thead>
<tr>
<th>UNIT</th>
<th>CRATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (inches)</td>
<td>25</td>
</tr>
<tr>
<td>Height (inches)</td>
<td>53</td>
</tr>
<tr>
<td>Length (inches)</td>
<td>50</td>
</tr>
</tbody>
</table>

Package Includes:
• Die Setter Unit
• Electronic Controls
• 4 cylinders
• 25 feet of hose on each of 4 retractable hose reels
• Pendant control
• 30 feet of electrical cable to cart
• A lower ring, an upper ring and two pads for each cylinder
For Larger, Heavier Dies

For oversized dies that require extra lift at the center to keep the die level during separation. Ideal for dies with six safety pad areas.

Electronic Die Setter – 6 Cylinders

Each unit has two modes of operation:
1. Unify Mode – Cylinders will extend until they all contact the die, then they will lift uniformly.
2. Parallel Mode – Cylinders will all extend at the same rate. To initiate this mode, cylinders must be fully extended or retracted.

• Heavy-duty hydraulic power handles the heaviest dies with state-of-the-art electronic PLC control for precision and accuracy.
• Handy self-retracting hose reels and control pendant keep every jobsite neat, and protect hoses and cables from damage.
• Three different cylinder sizes are available, along with strong, lightweight cribbing blocks to extend their strokes to handle your biggest jobs.
• Completely portable with large casters and built-in lifting bales, the Lamina Electronic Die Setter is the Go-Anywhere, Do-It-All Die Setting Solution you’ve been looking for.
• If you use a tryout press for spotting punches and trim steels, you can free up that tryout press and use our Lamina Electronic Die Setter instead.

Oil required: Mobil® DTE-10 Excel 32 (15 gallons) (ISO 32)

Standard Safety Features
• Low voltage, three-button pendant for two hand control
• Quick Disconnect Fittings
• Palm Emergency Stop
• Cylinder Safety Lock Cartridge Valves
• Cart Foot Brake
• Lifting Bales

Saves time and money!
Most economical die setting solution available!

WARNING – Always use safety blocks when reaching inside of dies!
Introducing a new Die Separator with optional lifting power... An effective solution to your die separating problems.

Your choice of 15 ton (30,000 pounds) or 30 ton (60,000 pounds) maximum capacity!

Each unit has two modes of operation:
1. **Unify Mode** – Cylinders will extend until they all contact the die, then they will lift uniformly.
2. **Parallel Mode** – Cylinders will all extend at the same rate. To initiate this mode, cylinders must be fully extended or retracted.

- Low voltage, three-button pendant for two hand control
- Controls on console
- Standard Lamina safety features
- Self-retracting hose reels and control pendant
- Three cylinder sizes with cribbing blocks
- Easy-to-roll casters and built-in lifting bales

Oil required: Mobil® DTE-10 Excel 32 (15 gallons) (ISO 32)

**DIE SEPARATOR OPTIONS**

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>With 4 inch Cylinders/Cribbing Blocks</td>
<td>LDS20TKIT4-220</td>
<td>LDS20TKIT4-380</td>
<td>LDS20TKIT4-440</td>
<td>LDS20TKIT4-600</td>
</tr>
<tr>
<td>With 6 inch Cylinders/Cribbing Blocks</td>
<td>LDS20TKIT6-220</td>
<td>LDS20TKIT6-380</td>
<td>LDS20TKIT6-440</td>
<td>LDS20TKIT6-600</td>
</tr>
<tr>
<td>With 9 inch Cylinders/Cribbing Blocks</td>
<td>LDS20TKIT9-220</td>
<td>LDS20TKIT9-380</td>
<td>LDS20TKIT9-440</td>
<td>LDS20TKIT9-600</td>
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</table>

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>With 4 inch Cylinders/Cribbing Blocks</td>
<td>LDS40TKIT4-220</td>
<td>LDS40TKIT4-380</td>
<td>LDS40TKIT4-440</td>
<td>LDS40TKIT4-600</td>
</tr>
<tr>
<td>With 6 inch Cylinders/Cribbing Blocks</td>
<td>LDS40TKIT6-220</td>
<td>LDS40TKIT6-380</td>
<td>LDS40TKIT6-440</td>
<td>LDS40TKIT6-600</td>
</tr>
<tr>
<td>With 9 inch Cylinders/Cribbing Blocks</td>
<td>LDS40TKIT9-220</td>
<td>LDS40TKIT9-380</td>
<td>LDS40TKIT9-440</td>
<td>LDS40TKIT9-600</td>
</tr>
</tbody>
</table>

**WARNING – Always use safety blocks when reaching inside of dies.**
Hydraulic Cylinders

These versatile cylinders come in three stock sizes, 4 inch, 6 inch and 9 inch (closed). They cover a stroke range of 1-1/2 to 6-1/4 inches to serve a large variety of applications. Each cylinder features a convenient carrying handle for ease of set-up and storage. Lamina cylinders incorporate pilot operated safety valves with double hoses and hose guards. Call today to discuss your specific application needs.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>Capacity per Cylinder (pounds)</th>
<th>Total Capacity per 4 Cylinders (pounds)</th>
<th>Total Capacity per 6 Cylinders (pounds)</th>
<th>Closed Shut Height (inches)</th>
<th>Stroke (inches)</th>
<th>Outside Diameter (inches)</th>
<th>Shipping Weight (pounds)</th>
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</thead>
<tbody>
<tr>
<td>ASSY-40T-4</td>
<td>15,000</td>
<td>60,000</td>
<td>90,000</td>
<td>3-7/8</td>
<td>1-1/2</td>
<td>4-3/4</td>
<td>18</td>
</tr>
<tr>
<td>ASSY-40T-6</td>
<td>15,000</td>
<td>60,000</td>
<td>90,000</td>
<td>5-7/8</td>
<td>3-1/4</td>
<td>4-3/4</td>
<td>24</td>
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<tr>
<td>ASSY-40T-9</td>
<td>15,000</td>
<td>60,000</td>
<td>90,000</td>
<td>8-7/8</td>
<td>6-1/4</td>
<td>4-3/4</td>
<td>32</td>
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<td>ASSY-40T-6-LDS*</td>
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<td>60,000</td>
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<td>60,000</td>
<td>N/A</td>
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<td>6-1/4</td>
<td>4-3/4</td>
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</tr>
<tr>
<td>DS210</td>
<td>Universal kit for above Lamina Hydraulic Cylinders</td>
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<tr>
<td>DS211</td>
<td>Spanner Wrench for removing cylinder caps to access internal seals</td>
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*Exclusively for Lamina Die Separator (LDS model)

Cribbing Rings & Pads

For stable load support use Lamina Cribbing Rings and Pads to safely increase the lift height of your Lamina Hydraulic Cylinders. Lamina recommends always using Hydraulic Cylinders with Cribbing Rings and Pads in conjunction with safety blocks when operating the Lamina Die Setter. These cribbing devices can be used with most 4-3/4 inch diameter cylinders with cylinder rods up to 2 inches in diameter.

**EDS108** Includes four lower rings and 1 “T” handle
Height: 1-1/2 inches

**EDS109** Includes four upper rings
Height: 1-1/8 inches

**EDS110** Includes four pads
Height: 1-1/8 inches

1. Extend the cylinder and insert the bottom supporting ring using the “T” handle.
2. Retract the cylinder and insert a pad, again, using the “T” handle.
3. Extend the cylinder again, with the pad increasing the cylinder lift height.
4. Repeat the above process until the desired die separation is attended.

Not more than one Lower Ring, two Upper Rings and three Pads should be used with any one hydraulic cylinder.
Hydraulic Equipment Rental Program

Lamina offers a number of different programs to make it easier to purchase, rent or lease to own our hydraulic equipment.

**Rental Program**
The Lamina Rental Program is for customers who require the use of its equipment for a short period of time without the commitment of a capital expense. The rental charge is 10% of the current list price per week, with a minimum rental period of two weeks. Billing for the first two weeks rental begins when the equipment is shipped and will continue on a weekly basis until the equipment is returned.

Freight charges are the responsibility of the customer. Lamina will ship “Freight Collect”, and the equipment must be shipped back “Prepaid”. The shipping and receiving location is Anchor Lamina Inc. 3650 South Derenzy Road, Bellaire, Michigan 49615. The rented equipment must be returned to the Bellaire location. Any product returned to our Farmington Hills office will be refused. Lamina Farmington Hills office has no loading or unloading facilities.

Damages resulting from abuse of the equipment will be the responsibility of the customer. All components must be returned with the rented equipment. All rental equipment must be returned in the original crating in reusable condition or a charge of $1000.00 will be invoiced to cover the replacement of new crating.

On occasion, Lamina sells rental equipment. The rental equipment includes a warranty of 90 days. Contact the Lamina Customer Service at 800-652-6462 for availability.

**Rental Credit Program**
The Lamina Rental Credit Program is for customers who returned the rental equipment and decided to purchase new equipment. Lamina will apply 50% of the rental fee, up to and including the fourth week of rental, toward the purchase of new equipment. Lamina will reduce the selling price of the new unit by the credit amount. The credit is offered on the same model that is rented and the offer is valid for 30 days after the completion of the rental.

**Rent-To-Own Program**
The Lamina Rent-to-Own Program is for customers who want to rent rather than purchase capital equipment. If you rent the equipment for 12 consecutive weeks, you own it. The rental equipment includes a warranty similar to new equipment, except it is for six (6) months. The warranty period starts on the original date of shipment of the hydraulic equipment from Bellaire, Michigan.

**Bring new life to your existing Lamina hydraulic equipment!**

Perhaps your power unit isn’t running as efficiently as it once did. We can fix that! Your drill head isn’t moving up and down the column as smoothly as it should? We can make it like new!

Talk to one of our inside sales representatives and find out how easily we can bring new life to your used Lamina equipment.

Lamina can bring your equipment up to date, add lifting bales to your power unit and even a new coat of paint.

Call us today! Toll Free: 800-652-6462, Local 248-489-9122; Fax: 248-553-6842, 800-406-4410; E-mail: sales@lamina.com

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