Innovative Products that Power Greater Manufacturing Productivity, Set-Up Efficiencies and Operating Cost Reductions

Quick Change Fixture/Mounting System ➤ Modular Tooling Columns ➤ Indexing Systems
The name stands for “maximizing the power”...the POWER to create a significant competitive edge in both manufacturing throughput and cost reductions using your current equipment.

The advanced technology engineered into the mPower™ line of integrated workholding products offers you numerous exclusive benefits...

- The power to make set-up and fixture changes in just seconds
- Unequalled workholding flexibility
- Optimized machining throughput
- Maximize your competitive edge by reducing operating costs.

Finally, an integrated workholding system consisting of the SpeedLoc™ mounting system, ModLoc™ modular tooling columns and SpinLoc™ indexers capable of actually improving productivity and increasing bottom line profitability.

The patent pending SpeedLoc™ system gives you the best of super fast installation and precision location.

This totally unique, highly precise fixturing/mounting system is the key to the countless benefits which the mPower™ line of integrated workholding products offers you.

Consider these exclusive SpeedLoc™ features...

- Precision – repeatability and accuracy within .0004" or better.
- Self-Extracting – no binding or prying fixture and base plates apart.
- Compact Design
- Recessed/Flush Mount capability.
- Retrofitable – with competitive systems.
- Holding/Clamping Strength – to 45,000 lbs.
- Ease of Use – compared to shoulder bolts and dowel pins.
Meet the tooling columns that are the fusion of science & nature.

No other tooling column compares...the patented ModLoc™ fuses advanced structural engineering with the strength of exoskeletons to produce a revolution in tooling column design & performance.

Consider these unique ModLoc™ tooling column features:

- **“Kit” Construction** – enables incredibly quick assembly.
- **Build Your Own Columns** – faster, more accurate, and less expensive.
- **Open Architecture** – easily accommodates hydraulic & electrical systems.
- **Serialized Sets** – uniquely manufactured to ensure best-fit accuracy.
- **Rigid, Yet Lightweight** – high strength design, yet reduced overall weight.
- **Strength & Rigidity** – comparable to cast tombstones.

Numerous devices are available today to help you create 4th or 5th axis machining capabilities. However, no system compares to the range of features, benefits and significant operating advantages delivered by unique, patented SpinLoc™ Indexers.

- **Simplicity** – SpinLoc™ indexers are mechanically actuated by the machine tool, eliminating the need for electronic or hydraulic systems.
- **Low Cost Operation** – SpinLoc™ Indexers are significantly less costly to operate versus typical “power-driven” indexers.
- **Faster Set-Up & Integration** – SpinLoc™ indexers can be integrated into fixtures systems much faster than powered systems.
- **Multiple Actuation Options** – Rotary and Plunger activated models available.
SpeedLoc™
Precision Fixture Mounting System

How it Works
You’ll find installation or disassembly of the SpeedLoc™ “locator” and “receiver” incredibly fast and convenient.

**STEP 1**
Time: 5 sec.
Place fixture plate over sub-plate or machine table containing SpeedLoc™ receivers. For horizontal applications use the patent pending SpeedLoc™ fixture plate docking system.

**STEP 2**
Time: 5 sec.
Insert the SpeedLoc™ precision locators through holes lined with hardened bushings and into the receiver pockets.

**STEP 3**
Time: 25 sec.
Insert remaining locators into unlined holes and hand tighten with an Allen wrench or use the exclusive SpeedLoc™ Quick-Knob.

**STEP 4**
Time: 15 sec.
Torque as required.

**STEP 5**
Ready to begin machining.
Total time required to unload existing fixture plate and load a new plate is 100 sec.

See SpeedLoc™ in Action
Visit www.mpwer.com

SpeedLoc™
Precision Mounting System

Product overview:
No mounting system available today for tooling/workholding equipment compares to the speed, ease of installation and precise repeatability offered by the patent pending SpeedLoc™ precision mounting system.

This unique two part system consists of a highly precise “locator” and “receiver” which when “locked” in place by its cap screw locking device, can create a holding strength exceeding 45,000 lbs.

Applications:
- HMC, VMC, and CNC Turning Machines
- Fixturing
- Workholding
- Automation Systems
- Plastic Molding Equipment
- Welding and Fabrication
- Assembly/Production Equipment
- Transfer Lines
- Pressure Vessels

Anywhere you need fast, precise locating and fastening in repeated use applications.
Locator Unit

Features:

- Easy Locating...installs and locks in seconds.
- Offers +/- .0004” accuracy in workholding.
- Self-Extracting...the unique design of the SpeedLoc™ system enables it to easily and quickly “self-extract” from fixture plates, etc., without binding or hang-ups.
  - The exclusive self-extracting mechanism eliminates the need for prying, pounding or using jack screws to separate fixture and base plates.
  - The SpeedLoc™ self-extracting feature also enables it to be easily removed from counterbored installations.

- Clamping Strength...to 45,000 lbs...stronger than competitive systems, which are prone to leaking in tooling columns outfitted for hydraulic systems.

- The quick disassembly feature also eliminates binding problems which can compromise alignment accuracy, damage fixturing and increase downtime due to lengthy change-outs.

Compact/Flush Mount Design Option

- Locator head lies flush...with the fixture plate surface.
- Proudly made in the USA.
- No repair kits needed.

<table>
<thead>
<tr>
<th>FIXTURE PLATE THICKNESS +/- .005 (inch)</th>
<th>STANDARD LOCATOR PART NUMBER</th>
<th>COMPACT/FLUSH MOUNT LOCATOR PART NUMBER</th>
<th>SHANK DIAMETER (mm)</th>
<th>HEAD DIAMETER (inch) A</th>
<th>HEAD DIAMETER (inch) B</th>
<th>HEAD DIAMETER (inch) C</th>
<th>STD. SHANK LENGTH (inch) D</th>
<th>MAX. HOLD DOWN FORCE (lbs)</th>
<th>SCREW SIZE</th>
<th>COMPACT/FL HEAD THICKNESS (inch) E</th>
<th>COMPACT/FL HEAD DIAMETER (inch) F</th>
<th>COMPACT/FL SHANK LENGTH (inch) G</th>
</tr>
</thead>
<tbody>
<tr>
<td>.50</td>
<td>AS-13001</td>
<td>AS-13010</td>
<td>13</td>
<td>.250</td>
<td>1.000</td>
<td>.780</td>
<td>2964</td>
<td>1/4-20</td>
<td>.175</td>
<td>.635</td>
<td>.587</td>
<td>.587</td>
</tr>
<tr>
<td>.75</td>
<td>AS-13002</td>
<td>AS-13011</td>
<td>13</td>
<td>.250</td>
<td>1.000</td>
<td>.1030</td>
<td>2964</td>
<td>1/4-20</td>
<td>.175</td>
<td>.635</td>
<td>.837</td>
<td>.837</td>
</tr>
<tr>
<td>.50</td>
<td>AS-16001</td>
<td>AS-16010</td>
<td>16</td>
<td>.312</td>
<td>1.375</td>
<td>.780</td>
<td>5385</td>
<td>5/16-18</td>
<td>.175</td>
<td>.786</td>
<td>.587</td>
<td>.587</td>
</tr>
<tr>
<td>.75</td>
<td>AS-16002</td>
<td>AS-16011</td>
<td>16</td>
<td>.312</td>
<td>1.375</td>
<td>.1030</td>
<td>5385</td>
<td>5/16-18</td>
<td>.175</td>
<td>.786</td>
<td>.837</td>
<td>.837</td>
</tr>
<tr>
<td>1.00</td>
<td>AS-16003</td>
<td>AS-16012</td>
<td>16</td>
<td>.312</td>
<td>1.375</td>
<td>1.280</td>
<td>5385</td>
<td>5/16-18</td>
<td>.175</td>
<td>.786</td>
<td>1.087</td>
<td>1.087</td>
</tr>
<tr>
<td>.75</td>
<td>AS-20001</td>
<td>AS-20010</td>
<td>20</td>
<td>.375</td>
<td>1.625</td>
<td>1.070</td>
<td>8107</td>
<td>3/8-16</td>
<td>.250</td>
<td>.975</td>
<td>.800</td>
<td>.800</td>
</tr>
<tr>
<td>1.00</td>
<td>AS-20002</td>
<td>AS-20011</td>
<td>20</td>
<td>.375</td>
<td>1.625</td>
<td>1.320</td>
<td>8107</td>
<td>3/8-16</td>
<td>.250</td>
<td>.975</td>
<td>1.050</td>
<td>1.050</td>
</tr>
<tr>
<td>2.00</td>
<td>AS-20004</td>
<td>AS-20014</td>
<td>20</td>
<td>.375</td>
<td>1.625</td>
<td>2.320</td>
<td>8107</td>
<td>3/8-16</td>
<td>.250</td>
<td>.975</td>
<td>2.050</td>
<td>2.050</td>
</tr>
<tr>
<td>.75</td>
<td>AS-25001</td>
<td>AS-25010</td>
<td>25</td>
<td>.406</td>
<td>1.800</td>
<td>1.065</td>
<td>14709</td>
<td>1/2-13</td>
<td>.250</td>
<td>1.218</td>
<td>.800</td>
<td>.800</td>
</tr>
<tr>
<td>1.00</td>
<td>AS-25002</td>
<td>AS-25011</td>
<td>25</td>
<td>.406</td>
<td>1.800</td>
<td>1.315</td>
<td>14709</td>
<td>1/2-13</td>
<td>.250</td>
<td>1.218</td>
<td>1.050</td>
<td>1.050</td>
</tr>
<tr>
<td>2.00</td>
<td>AS-25004</td>
<td>AS-25014</td>
<td>25</td>
<td>.406</td>
<td>1.800</td>
<td>2.315</td>
<td>14709</td>
<td>1/2-13</td>
<td>.250</td>
<td>1.218</td>
<td>2.050</td>
<td>2.050</td>
</tr>
<tr>
<td>.75</td>
<td>AS-30001</td>
<td>AS-30010</td>
<td>30</td>
<td>.500</td>
<td>2.125</td>
<td>1.150</td>
<td>22623</td>
<td>5/8-11</td>
<td>.312</td>
<td>1.500</td>
<td>.825</td>
<td>.825</td>
</tr>
<tr>
<td>1.00</td>
<td>AS-30002</td>
<td>AS-30011</td>
<td>30</td>
<td>.500</td>
<td>2.125</td>
<td>1.400</td>
<td>22623</td>
<td>5/8-11</td>
<td>.312</td>
<td>1.500</td>
<td>1.075</td>
<td>1.075</td>
</tr>
<tr>
<td>1.50</td>
<td>AS-30003</td>
<td>AS-30013</td>
<td>30</td>
<td>.500</td>
<td>2.125</td>
<td>1.900</td>
<td>22623</td>
<td>5/8-11</td>
<td>.312</td>
<td>1.500</td>
<td>1.575</td>
<td>1.575</td>
</tr>
<tr>
<td>2.00</td>
<td>AS-30004</td>
<td>AS-30014</td>
<td>30</td>
<td>.500</td>
<td>2.125</td>
<td>2.400</td>
<td>22623</td>
<td>5/8-11</td>
<td>.312</td>
<td>1.500</td>
<td>2.075</td>
<td>2.075</td>
</tr>
<tr>
<td>.75</td>
<td>AS-35001</td>
<td>AS-35010</td>
<td>35</td>
<td>.500</td>
<td>2.250</td>
<td>1.150</td>
<td>31572</td>
<td>3/4-10</td>
<td>.312</td>
<td>1.750</td>
<td>1.075</td>
<td>1.075</td>
</tr>
<tr>
<td>1.00</td>
<td>AS-35002</td>
<td>AS-35010</td>
<td>35</td>
<td>.500</td>
<td>2.250</td>
<td>1.400</td>
<td>31572</td>
<td>3/4-10</td>
<td>.312</td>
<td>1.750</td>
<td>1.575</td>
<td>1.575</td>
</tr>
<tr>
<td>1.50</td>
<td>AS-35003</td>
<td>AS-35012</td>
<td>35</td>
<td>.500</td>
<td>2.250</td>
<td>1.900</td>
<td>31572</td>
<td>3/4-10</td>
<td>.312</td>
<td>1.750</td>
<td>2.075</td>
<td>2.075</td>
</tr>
<tr>
<td>2.00</td>
<td>AS-35004</td>
<td>AS-35014</td>
<td>35</td>
<td>.500</td>
<td>2.250</td>
<td>2.400</td>
<td>31572</td>
<td>3/4-10</td>
<td>.312</td>
<td>1.750</td>
<td>2.500</td>
<td>2.500</td>
</tr>
<tr>
<td>.75</td>
<td>AS-50001</td>
<td>AS-50010</td>
<td>50</td>
<td>.687</td>
<td>3.000</td>
<td>1.270</td>
<td>46958</td>
<td>1-8</td>
<td>.312</td>
<td>2.460</td>
<td>1.513</td>
<td>1.513</td>
</tr>
<tr>
<td>1.00</td>
<td>AS-50002</td>
<td>AS-50011</td>
<td>50</td>
<td>.687</td>
<td>3.000</td>
<td>2.020</td>
<td>46958</td>
<td>1-8</td>
<td>.312</td>
<td>2.460</td>
<td>2.013</td>
<td>2.013</td>
</tr>
<tr>
<td>1.50</td>
<td>AS-50003</td>
<td>AS-50011</td>
<td>50</td>
<td>.687</td>
<td>3.000</td>
<td>2.520</td>
<td>46958</td>
<td>1-8</td>
<td>.312</td>
<td>2.460</td>
<td>2.013</td>
<td>2.013</td>
</tr>
<tr>
<td>2.00</td>
<td>AS-50004</td>
<td>AS-50013</td>
<td>50</td>
<td>.687</td>
<td>3.000</td>
<td>2.520</td>
<td>46958</td>
<td>1-8</td>
<td>.312</td>
<td>2.460</td>
<td>2.013</td>
<td>2.013</td>
</tr>
</tbody>
</table>
Liner Bushings

The smart way to protect the dimensional integrity of locating holes on base and fixture plates, indexers and other workholding devices is to use SpeedLoc™ liner bushings.

Easy to install or remove, SpeedLoc™ liner bushings are a critical component of the integrated mpPower™ system for creating the highest possible machining accuracy. These bushings are also an inexpensive way to extend even further the operating life of your precision SpeedLoc™ mounting system investment.

The SpeedLoc™ Stepped Liner allows the compact head locator to lie flush with the surface of the fixture plate so it does not interfere with the workpiece or other fixture components.

### Stepped Liners

One of the great advantages of SpeedLoc™ is the compact designs and ability to flush mount. SpeedLoc™ combines both. This is possible due to:

- (1) the exclusive self extracting feature of the locator.
- (2) our unique stepped liner.

<table>
<thead>
<tr>
<th>FIXTURE PLATE THICKNESS +/- .005 (inch)</th>
<th>LOCATOR SIZE (mm)</th>
<th>LINER OVERAL LENGTH (inch)</th>
<th>STANDARD LINER PART NUMBER</th>
<th>COMPACT LINER PART NUMBER</th>
<th>HEAD THICKNESS (inch)</th>
<th>HEAD DIAMETER (inch)</th>
<th>LINER O.D. +.0000/- .0004 (inch)</th>
<th>PLATE C’BORE DIAMETER +/- .005 (inch)</th>
<th>PLATE C’BORE DEPTH +.010/- .005</th>
</tr>
</thead>
<tbody>
<tr>
<td>.50</td>
<td>13</td>
<td>.450</td>
<td>AL-13001</td>
<td>AL-13101</td>
<td>.218</td>
<td>.922</td>
<td>.7518</td>
<td>.935</td>
<td>.230</td>
</tr>
<tr>
<td>.75</td>
<td>13</td>
<td>.700</td>
<td>AL-13002</td>
<td>AL-13102</td>
<td>.218</td>
<td>.922</td>
<td>.7518</td>
<td>.935</td>
<td>.230</td>
</tr>
<tr>
<td>.50</td>
<td>16</td>
<td>.450</td>
<td>AL-16001</td>
<td>AL-16101</td>
<td>.313</td>
<td>1.234</td>
<td>1.0108</td>
<td>1.250</td>
<td>.325</td>
</tr>
<tr>
<td>.75</td>
<td>16</td>
<td>.700</td>
<td>AL-16002</td>
<td>AL-16102</td>
<td>.313</td>
<td>1.234</td>
<td>1.0108</td>
<td>1.250</td>
<td>.325</td>
</tr>
<tr>
<td>1.00</td>
<td>16</td>
<td>.950</td>
<td>AL-16004</td>
<td>AL-16103</td>
<td>.313</td>
<td>1.234</td>
<td>1.0108</td>
<td>1.250</td>
<td>.325</td>
</tr>
<tr>
<td>.75</td>
<td>20</td>
<td>.700</td>
<td>AL-20011</td>
<td>AL-20111</td>
<td>.375</td>
<td>1.359</td>
<td>1.1270</td>
<td>1.375</td>
<td>.390</td>
</tr>
<tr>
<td>1.00</td>
<td>20</td>
<td>.950</td>
<td>AL-20012</td>
<td>AL-20112</td>
<td>.375</td>
<td>1.359</td>
<td>1.1270</td>
<td>1.375</td>
<td>.390</td>
</tr>
<tr>
<td>1.50</td>
<td>20</td>
<td>1.450</td>
<td>AL-20013</td>
<td>AL-20113</td>
<td>.375</td>
<td>1.359</td>
<td>1.1270</td>
<td>1.375</td>
<td>.390</td>
</tr>
<tr>
<td>2.00</td>
<td>20</td>
<td>1.950</td>
<td>AL-20014</td>
<td>AL-20114</td>
<td>.375</td>
<td>1.359</td>
<td>1.1270</td>
<td>1.375</td>
<td>.390</td>
</tr>
<tr>
<td>.75</td>
<td>25</td>
<td>.700</td>
<td>AL-25001</td>
<td>AL-25101</td>
<td>.375</td>
<td>1.609</td>
<td>1.3772</td>
<td>1.625</td>
<td>.390</td>
</tr>
<tr>
<td>1.00</td>
<td>25</td>
<td>.950</td>
<td>AL-25002</td>
<td>AL-25102</td>
<td>.375</td>
<td>1.609</td>
<td>1.3772</td>
<td>1.625</td>
<td>.390</td>
</tr>
<tr>
<td>1.50</td>
<td>25</td>
<td>1.450</td>
<td>AL-25003</td>
<td>AL-25103</td>
<td>.375</td>
<td>1.609</td>
<td>1.3772</td>
<td>1.625</td>
<td>.390</td>
</tr>
<tr>
<td>2.00</td>
<td>25</td>
<td>1.950</td>
<td>AL-25004</td>
<td>AL-25104</td>
<td>.375</td>
<td>1.609</td>
<td>1.3772</td>
<td>1.625</td>
<td>.390</td>
</tr>
<tr>
<td>.75</td>
<td>30</td>
<td>.700</td>
<td>AL-3001</td>
<td>AL-30101</td>
<td>.375</td>
<td>1.984</td>
<td>1.7523</td>
<td>2.000</td>
<td>.390</td>
</tr>
<tr>
<td>1.00</td>
<td>30</td>
<td>.950</td>
<td>AL-3002</td>
<td>AL-30102</td>
<td>.375</td>
<td>1.984</td>
<td>1.7523</td>
<td>2.000</td>
<td>.390</td>
</tr>
<tr>
<td>1.50</td>
<td>30</td>
<td>1.450</td>
<td>AL-3003</td>
<td>AL-30103</td>
<td>.375</td>
<td>1.984</td>
<td>1.7523</td>
<td>2.000</td>
<td>.390</td>
</tr>
<tr>
<td>2.00</td>
<td>30</td>
<td>1.950</td>
<td>AL-3004</td>
<td>AL-30104</td>
<td>.375</td>
<td>1.984</td>
<td>1.7523</td>
<td>2.000</td>
<td>.390</td>
</tr>
<tr>
<td>.75</td>
<td>35</td>
<td>.700</td>
<td>AL-35001</td>
<td>AL-35101</td>
<td>.375</td>
<td>1.984</td>
<td>1.7523</td>
<td>2.000</td>
<td>.390</td>
</tr>
<tr>
<td>1.00</td>
<td>35</td>
<td>.950</td>
<td>AL-35002</td>
<td>AL-35102</td>
<td>.450</td>
<td>1.984</td>
<td>1.7523</td>
<td>2.000</td>
<td>.465</td>
</tr>
<tr>
<td>1.50</td>
<td>35</td>
<td>1.450</td>
<td>AL-35003</td>
<td>AL-35103</td>
<td>.450</td>
<td>1.984</td>
<td>1.7523</td>
<td>2.000</td>
<td>.465</td>
</tr>
<tr>
<td>2.00</td>
<td>35</td>
<td>1.950</td>
<td>AL-35004</td>
<td>AL-35104</td>
<td>.450</td>
<td>1.984</td>
<td>1.7523</td>
<td>2.000</td>
<td>.465</td>
</tr>
<tr>
<td>.75</td>
<td>50</td>
<td>.700</td>
<td>AL-50001</td>
<td>AL-50101</td>
<td>.700</td>
<td>3.000</td>
<td>2.5025</td>
<td>3.020</td>
<td>.715</td>
</tr>
<tr>
<td>1.00</td>
<td>50</td>
<td>.950</td>
<td>AL-50002</td>
<td>AL-50102</td>
<td>.700</td>
<td>3.000</td>
<td>2.5025</td>
<td>3.020</td>
<td>.715</td>
</tr>
<tr>
<td>1.50</td>
<td>50</td>
<td>1.450</td>
<td>AL-50003</td>
<td>AL-50103</td>
<td>.700</td>
<td>3.000</td>
<td>2.5025</td>
<td>3.020</td>
<td>.715</td>
</tr>
<tr>
<td>2.00</td>
<td>50</td>
<td>1.950</td>
<td>AL-50004</td>
<td>AL-50104</td>
<td>.700</td>
<td>3.000</td>
<td>2.5025</td>
<td>3.020</td>
<td>.715</td>
</tr>
</tbody>
</table>

Note: when machining fixture plates for feature “C”, bore to the listed dimension –.0006”/- .001”.

Note: when machining fixture plates for feature “C”, bore to the listed dimension –.0006”/- .001”.

6
Compact Face Mount Design:
Occupies a small footprint that optimizes subplate space, is easier to install, stronger, and less expensive than face mount receivers.

Standard Face Mount Design:
This receiver is interchangeable with competitive face mount designs providing an advanced retrofit option. For customers with existing investments in another system. These receivers enable you to take advantage of the speed, precision and easy installation which the SpeedLoc™ system uniquely offers, without the need to produce new subplates or fixture plates.

Face Mount Receivers
Engineered to allow interchangeability with competitive locking systems.

<table>
<thead>
<tr>
<th>SHANK DIAMETER (mm)</th>
<th>FACE MOUNT PART NUMBER</th>
<th>RECEIVER O.D. +.0000/−.0004 (inch)</th>
<th>CLEARANCE DRILL +.0004/−.0000 (inch) A</th>
<th>PLATE COUNTERBORE +.0004/−.0000 (inch) B</th>
<th>DEPTH +.010/−.005 (inch) C</th>
<th>DRILL AND TAP-THRU SCREW SIZES (inch) D</th>
<th>BOLT CIRCLE DIA. 3 PLACES EQUALLY SPACED (inch) E</th>
<th>MIN. PLATE THICKNESS (inch) E</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>AR-16001</td>
<td>1.0625</td>
<td>1.0629</td>
<td>.300</td>
<td>3/4</td>
<td>1–12</td>
<td>1–1/4–12</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>AR-20001</td>
<td>1.2750</td>
<td>1.2754</td>
<td>.390</td>
<td>1</td>
<td>1–1/4–12</td>
<td>1–1/2–12</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>AR-25001</td>
<td>1.5000</td>
<td>1.5004</td>
<td>.390</td>
<td>1</td>
<td>1–1/4–12</td>
<td>1–1/2–12</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>AR-30001</td>
<td>1.8125</td>
<td>1.8129</td>
<td>.505</td>
<td>1-1/4–12</td>
<td>1–1/2–12</td>
<td>1–1/2–12</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>AR-35001</td>
<td>2.1250</td>
<td>2.1254</td>
<td>.630</td>
<td>1-5/16</td>
<td>1–1/2–12</td>
<td>1–1/2–12</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>AR-50001</td>
<td>2.7500</td>
<td>2.7504</td>
<td>.765</td>
<td>1–3/4</td>
<td>2–12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Face Mount Compact Receivers
Plates can be fully machined from one side.

<table>
<thead>
<tr>
<th>SHANK DIAMETER (mm)</th>
<th>FACE MOUNT PART NUMBER</th>
<th>RECEIVER O.D. +.0000/−.0004 (inch)</th>
<th>PLATE COUNTERBORE +.0004/−.0000 (inch) A</th>
<th>DEPTH +.010/−.005 (inch) B</th>
<th>MIN. PLATE THICKNESS (inch) C</th>
<th>HOLE THREAD SIZE (inch) D</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>AR-13005</td>
<td>.9500</td>
<td>.9504</td>
<td>.300</td>
<td>3/4</td>
<td>3/4–16</td>
</tr>
<tr>
<td>16</td>
<td>AR-16005</td>
<td>1.0625</td>
<td>1.0629</td>
<td>.300</td>
<td>3/4</td>
<td>7/8–14</td>
</tr>
<tr>
<td>20</td>
<td>AR-20005</td>
<td>1.2750</td>
<td>1.2754</td>
<td>.390</td>
<td>1</td>
<td>1–12</td>
</tr>
<tr>
<td>25</td>
<td>AR-25005</td>
<td>1.5000</td>
<td>1.5004</td>
<td>.390</td>
<td>1</td>
<td>1–1/4–12</td>
</tr>
<tr>
<td>30</td>
<td>AR-30005</td>
<td>1.8125</td>
<td>1.8129</td>
<td>.505</td>
<td>1-1/4–12</td>
<td>1–1/2–12</td>
</tr>
<tr>
<td>35</td>
<td>AR-35005</td>
<td>2.1250</td>
<td>2.1254</td>
<td>.630</td>
<td>1-5/16</td>
<td>1–1/2–12</td>
</tr>
<tr>
<td>50</td>
<td>AR-50005</td>
<td>2.7500</td>
<td>2.7504</td>
<td>.765</td>
<td>1–3/4</td>
<td>2–12</td>
</tr>
</tbody>
</table>

Note: .025 x 45 degree chamfer on all diameters.

Features:
- Precision machined to +/- .0002” tol.
- Permits SpeedLoc™ repeatability of .0004” or better.

For installation instructions call our engineering department 814-455-8061 extension 233

U.S. PATENT 7,686,553
MATERIAL: HEAT TREATED HIGH STRENGTH ALLOY STEEL
STRENGTH: 230,000 + PSI
FINISH: BLACK OXIDE

Stainless and high temperature steels available in all sizes at special request.
Product overview:
The SpeedLoc™ system provides a fast, accurate and powerful means of precisely locating and locking two flat surfaces together. While its applications are unlimited, a common use is in machining workholding...connecting fixture plates to subplates.

Build your own plate system in Aluminum (or Steel) or let Modern construct a fully integrated system for you.

Product Line Roundup:
- **Horizontal Machining Center** – Subplates for Tooling Columns 400, 500 and 630mm bases standard.
- **Vertical Machining Center Subplates** – Specify your machine type and typical application(s). We will design a subplate configuration that provides best flexibility for your individual needs. Some common arrays and sizes available.
- **Fixture Plates** – Specify your application needs. (available in both .75" and 1" thickness)
  - Common configurations include:
    - **Square and Grid Layouts**
      - 6" X 6", 8" X 8", 12" X 12", 14" X 14", 16" X 16", 20" X 20"
    - **Other Common Sizes**
      - 12" X 16", 12" X 14", 10" X 15", 20" X 40"
    - **Tooling Column Plates**
      - 8" X 21", 10" X 24", 10" X 28", 12" X 24", 16" X 28"
      - (and sizes listed above.)
- **Interlocking Keystone Vice Plates** – For up to 6" straight-body vices.

Features:
- Subplates and Fixture Plates available in Steel and Aluminum.
- Steel—A36 Precision Ground to +/-.001" (.0005" available).
- Aluminum—MIC-6 Ground to +/-.005" or better (.001" available).
- All plates are edge prepped by grinding or milling to +/-.005".
- Subplates come with SpeedLoc™ receivers installed.

System Components:
- **Subplate** – Secures to a machine table and remains fixed. These aluminum or steel plates contain SpeedLoc™ Receivers at desired locations to attach fixture plates. Machine tables outfitted with SpeedLoc™ Receivers do not require Subplates.
- **Fixture Plates** – Can be designed in a number of sizes and shapes to best fit the application. They are secured by inserting a SpeedLoc™ Locator through lined or unlined holes and into the SpeedLoc™ Receiver installed in the subplate or machine table.
- **Liner** – Hardened alloy steel bushing press fit into a fixture plate hole to provide wear resistance and precision with repeated use. The stepped liner configuration allows for flush mounting with the compact head SpeedLoc™ locators.
- **Locator** – A precision fastener system that locates and clamps fixture plates to subplates or machine tables by insertion into a SpeedLoc™ Receiver pocket.
- **Receiver** – Installed into subplates, tooling columns, or machine tables to accept SpeedLoc™ Locators.
It's time to rethink the age-old T-Slot table

Sure T-Slot tables offer infinite fixture positioning flexibility in the “Y” axis. But that’s it. Creating “open-sets” are painfully slow (translation: costly downtime) and there’s no way to accurately re-position, fixtures, vises or other workholding devices.

**SpeedLoc™** Subplates are the foundation of the **SpeedLoc™** Quick Change Fixture System for vertical and horizontal machining centers.

**Example:** Part # SPS-2040-STD Subplate
This configuration is designed for VMC’s with a 40” x 20” table travel.

### Specifications
- **A36 Steel** – Surface ground to +/- .001”
- **Edges** – Milled or ground to +/- .005”
- **Thickness** – 1.25”
- **Weight** – 385 lbs.
- **Machine Table Configuration** – 3 or 5 T-Slots
- **Compact Head SpeedLoc™ Receivers Installed** – (8) 25mm, (18) 20mm

**Possible Fixture Plate Configurations, Part No: SPS-2040-STD**

<table>
<thead>
<tr>
<th>Color</th>
<th>Layer</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRAY</td>
<td>Base</td>
<td>SpeedLoc™ subplate with (8) 25mm, (18) 20mm receivers</td>
</tr>
<tr>
<td>GREEN</td>
<td>2</td>
<td>(1) 20” x 40” Fixture plate</td>
</tr>
<tr>
<td>SILVER</td>
<td>3</td>
<td>(2) 20” x 20” Fixture plates</td>
</tr>
<tr>
<td>PURPLE</td>
<td>4</td>
<td>(2) 16” x 16” Fixture plates (Four different positions available)</td>
</tr>
<tr>
<td>BROWN</td>
<td>5</td>
<td>(2) 14” x 14” Fixture plates (Four different positions available)</td>
</tr>
<tr>
<td>LIGHT BLUE</td>
<td>6</td>
<td>(1) 20” x 16” Fixture plate (Two different positions available)</td>
</tr>
<tr>
<td>DARK BLUE</td>
<td>7</td>
<td>(4) Keystone vise plates</td>
</tr>
</tbody>
</table>

Custom designed receiver layouts are our specialty. To discuss your specific needs, call Modern Industries engineering department at 814-455-8061 Ext. 233.

### How does the **SpeedLoc™** system compare to the competition?...

- **Superior Design...**all **SpeedLoc™** components are truly “Better by Design” and possess substantial advantages in strength, installation, performance and ease of extraction over any other system...plus it’s FAST.
- **The Right Solution for you...**we’ll never push an “off-the-shelf” system when it’s not the best solution. Modern encourages a standardized approach designed to best fit your specific needs. We offer engineering support for installations of all sizes and complexities.
- **Exceptional Subplate Quality...**our subplates are held to a closer tolerance than those of the competition. The milled edges and extra-finished surfaces of **SpeedLoc™** sub and fixture plates help users achieve the highest possible machining accuracy.
- **Your Success is our Success...**our goal is helping you succeed and prosper...that’s what will make you a repeat customer. Talk to an **mpower™** engineer anytime about your needs at 814-455-8061 x233 or e-mail engineering@mpower.com.
ModLoc™ Modular Tooling Columns

Product Overview:
In designing the unique ModLoc™ modular tooling columns, mPower™ engineers borrowed heavily from the principles of advanced structural engineering to produce a tooling column where the fixture plates essentially become the structure and strength of the system.

Rigid and strong, yet substantially lighter than cast columns, ModLoc™ tooling columns assemble quickly and feature an open architecture that is ideal for systems requiring hydraulic or electrical control systems.

ModLoc™ tooling columns take full advantage of the incredible precision and efficiency of the SpeedLoc™ system to cut fixture plate setups to just seconds.

Features:
- Designed to utilize the revolutionary SpeedLoc™ precision mounting system for fast, precise assembly.
- “Kit” construction permits extremely flexible configuration.
- “Open” design permits hydraulic and electrical access to indexers and other devices as needed.
- Popular sizes and shapes available off-the-shelf or made-to-order with short lead times.
- The relatively light weight of mPower™ modular tombstones permit HMC machining turntables to operate at optimum efficiency with reduced machine wear and tear.
- Each unit is uniquely constructed in serialized sets using mPower’s™ proprietary manufacturing process.
- Docking system available as optional equipment.
- Patented: U.S. Patent No. 7,083,166

ModLoc™ Modular Tooling Columns vs. Solid Tombstones...

Consider the Advantages:
1. Overall Strength – Strength and deflection resistance of mPower’s™ modular tooling column compares favorably to that of a solid cast tombstone.
2. Assembly Time – A modular tooling column can be assembled in minutes versus the lead times associated with cast tombstones.
3. Purchase Cost – A modular tooling column generally provides a significant cost savings versus solid cast tombstones.
4. Fixturing Flexibility – Modular tooling columns offer design flexibility compared to cast tombstones.
5. Hydraulic & Electrical Systems – The “open” design of modular tooling columns readily accepts hydraulic & electrical systems to actuate or control process applications...not possible with a solid tombstone.
ModLoc™ tooling columns are available in a wide range of special configurations to help optimize the use of your machining center’s functional envelope.

The advantage of ModLoc™ is its easy adaptability to a variety of setups—the interchangeability of fixture plates to various shape configurations helps maximize your ROI.

**Square Tooling Columns**

<table>
<thead>
<tr>
<th>SQUARE COLUMN PART NUMBER STEEL (ALUMINUM)</th>
<th>FACE SIZE A X B</th>
<th>AVAILABLE HEIGHTS INCHES</th>
<th>SPEEDLOC RECEIVER SIZE (mm)</th>
<th>BASE CONFIGURATION* (listed in inches under columns D &amp; E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-408XX (CA-408XX)</td>
<td>8 X 8</td>
<td>14 THRU 24</td>
<td>25</td>
<td>D 12 1.5 16 1.5 20 1.5 E</td>
</tr>
<tr>
<td>CS-410XX (CA-410XX)</td>
<td>10 X 10</td>
<td>14 THRU 28</td>
<td>25</td>
<td>D 12 1.5 16 1.5 20 1.5 E</td>
</tr>
<tr>
<td>CS-412XX (CA-412XX)</td>
<td>12 X 12</td>
<td>14 THRU 32</td>
<td>25</td>
<td>D – – 16 1.5 20 1.5 E</td>
</tr>
<tr>
<td>CS-416XX (CA-416XX)</td>
<td>16 X 16</td>
<td>14 THRU 36</td>
<td>25</td>
<td>D – – 16 1.5 20 1.5 E</td>
</tr>
</tbody>
</table>

Note: when ordering, last 2 digits of the part number specifies the column height in inches.

* Configured for SpeedLoc™ subplates or customized for your machine if subplates are not used.

**Rectangular Tooling Columns**

<table>
<thead>
<tr>
<th>RECTANGULAR PART NUMBER STEEL (ALUMINUM)</th>
<th>STANDARD SIZE THICK X WIDTH (inch) A X B**</th>
<th>AVAILABLE HEIGHTS INCHES C</th>
<th>SPEEDLOC RECEIVER SIZE (mm)</th>
<th>BASE CONFIGURATION* (listed in inches under columns D &amp; E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-615XX (CA-615XX)</td>
<td>6 X 15</td>
<td>14 THRU 24 21&quot; Standard Kit</td>
<td>25</td>
<td>D 12 1.5 16 1.5 20 1.5 E</td>
</tr>
<tr>
<td>CS-820XX (CA-820XX)</td>
<td>8 X 20</td>
<td>14 THRU 28 24&quot; Standard Kit</td>
<td>25</td>
<td>D 12 1.5 16 1.5 20 1.5 E</td>
</tr>
<tr>
<td>CS-1024XX (CA-1024XX)</td>
<td>10 X 24</td>
<td>14 THRU 36 28&quot; Standard Kit</td>
<td>25</td>
<td>D 12 1.5 16 1.5 20 1.5 E</td>
</tr>
</tbody>
</table>

Note: when ordering, last 2 digits of the part number specifies the column height in inches.

**ModLoc™ Square Column Weights**

<table>
<thead>
<tr>
<th>Column</th>
<th>Weight (lbs.)</th>
<th>400mm</th>
<th>500mm</th>
<th>630mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-40821</td>
<td>111</td>
<td>144</td>
<td>164</td>
<td>214</td>
</tr>
<tr>
<td>CS-40821</td>
<td>121</td>
<td>218</td>
<td>277</td>
<td>414</td>
</tr>
<tr>
<td>CA-41024</td>
<td>159</td>
<td>192</td>
<td>212</td>
<td>262</td>
</tr>
<tr>
<td>CS-41025</td>
<td>327</td>
<td>423</td>
<td>483</td>
<td>620</td>
</tr>
<tr>
<td>CA-41628</td>
<td>319</td>
<td>–</td>
<td>371</td>
<td>422</td>
</tr>
<tr>
<td>SC-41628</td>
<td>642</td>
<td>–</td>
<td>797</td>
<td>935</td>
</tr>
</tbody>
</table>

* A wide range of size configuration available through custom order.
SpinLoc™ Indexers

Product overview:

mPower’s™ SpinLoc™ Indexers provide an economical way to expand the capabilities of your existing vertical and horizontal machining centers with 4th or 5th axis accessibility to the work piece. SpinLoc’s™ unique, patented rotary indexer delivers mechanically actuated 5° movement without costly external power supplies or hydraulic pumps.

SpinLoc’s™ vertical pump indexers are also available for VMC/HMC applications and for use on the exclusive SpeedLoc™ Trunnion Kit. No other system compares to the range of features, benefits and operating advantages of SpinLoc™. Consider how these exclusive indexers can positively impact your competitive edge...

- **Simplicity** – SpinLoc™ indexers are mechanically actuated by the machine, eliminating the need for electronic or hydraulic systems.
- **Faster Set-Up & Integration** – SpinLoc™ indexers can be integrated into fixturing systems much faster than powered systems.
- **HMC & VMC Actuation Systems** – Rotary actuated indexing systems are available for horizontal and vertical applications.
- **Reliability and Precision** – Designed with features like Hirth gear couplings and tempered alloy steel components, you can count on SpinLoc™ to deliver accurate and repeatable performance.
- **Ideally Suited** – for pallet applications.

### Specifications

**Rotary Indexer for Horizontal Machining Centers**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Patent Number</td>
<td>6,619,895</td>
</tr>
<tr>
<td>Part Number</td>
<td>SLC-H010</td>
</tr>
<tr>
<td>Face Diameter</td>
<td>10”</td>
</tr>
<tr>
<td>Indexing Increments</td>
<td>5° Standard</td>
</tr>
<tr>
<td>Height</td>
<td>4.75”</td>
</tr>
<tr>
<td>Weight</td>
<td>85 lbs.</td>
</tr>
<tr>
<td>Force Needed to Actuate</td>
<td>312 lbs.</td>
</tr>
<tr>
<td>Indexing Post</td>
<td>11” x 11”</td>
</tr>
<tr>
<td>Actuation</td>
<td>Rotary Using Tool Spindle (Program a 6.031” radius)</td>
</tr>
</tbody>
</table>

**Features:**

- High accuracy spindle actuation using a Hirth gear coupling design. Will not drift under load like some electric indexers.
- A full 360° range of motion.
- 5° index movement accurate to +/- 15 seconds standard.
- Extremely fast indexing, 1–3 seconds.
- Designed specifically for use with the SpeedLoc™ precision mounting system and Trunnion Kit.
- Rugged construction.
- Custom gear sets quoted on request.

**Applications:**

1. Horizontal machines
2. Vertical machines
3. SpeedLoc™ Trunnion Kit
**Trunnion Kit**

**Product overview:**
Nowhere are the SpeedLoc™ and SpinLoc™ systems put to better use than as the building block of mPower’s™ Trunnion Kit for Vertical Machining Centers. Use a SpinLoc™ plunger-type indexer (or other suitable indexer) with our Trunnion to add 4th axis capability to your VMC and eliminate wasteful work piece handling. The Trunnion’s flexible design gives fixture builders the ultimate tool to create powerfully productive workholding systems.

**Features:**
- Rigid construction.
- Tail stock with sealed tapered roller bearings from Timken™.
- Modular design...allows for fast reconfiguration and fixture changeovers.
- Uses SpeedLoc™ Mounting/Fastening System
- Indexing provided by SpinLoc™ plunger type indexer—or any other mechanical or powered indexer.

---

**Features:**
- Rigid construction.
- Tail stock with sealed tapered roller bearings from Timken™.
- Modular design...allows for fast reconfiguration and fixture changeovers.
- Uses SpeedLoc™ Mounting/Fastening System
- Indexing provided by SpinLoc™ plunger type indexer—or any other mechanical or powered indexer.

---

**mPower™ Products by Modern Industries**

www.mpwer.com
**Work Supports**

Modern’s toolmakers support over 100 CNC machines.

After struggling with over priced, poor performing work supports, **mPower™** design engineers came up with a better product. We believe the **mPower™** work support is superior to other manual work stops on the market. Why?

- Up to 40% lower price than competitive models.
- Hardened tool steel body provides superior strength.
- Will not disassemble during operation.
- Lowest profile available.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>BOLT CIRCLE PATTERN (inch)</th>
<th>MAXIMUM LOAD CAPACITY (lbs.)</th>
<th>HEIGHT UNLOADED</th>
<th>HEIGHT FULLY COMPRESSED</th>
<th>FIXED SPRING LOAD (lbs.)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>2805600</td>
<td>1.5</td>
<td>3000</td>
<td>1.467</td>
<td>1.233</td>
<td>6.5</td>
<td>With Cap</td>
</tr>
<tr>
<td>2805602</td>
<td>1.5</td>
<td>3000</td>
<td>1.412</td>
<td>1.162</td>
<td>6.5</td>
<td>No Cap</td>
</tr>
<tr>
<td>2805601</td>
<td>1.5</td>
<td>3500</td>
<td>3.267</td>
<td>2.933</td>
<td>6.5</td>
<td>With Cap &amp; Knob</td>
</tr>
<tr>
<td>2805603</td>
<td>1.5</td>
<td>3500</td>
<td>2.956</td>
<td>2.632</td>
<td>6.5</td>
<td>No Cap</td>
</tr>
<tr>
<td>2805604</td>
<td>1.5</td>
<td>3500</td>
<td>3.267</td>
<td>2.933</td>
<td>6.5</td>
<td>No Knob</td>
</tr>
<tr>
<td>2805605</td>
<td>1.5</td>
<td>3500</td>
<td>2.956</td>
<td>2.632</td>
<td>6.5</td>
<td>No Cap &amp; No Knob</td>
</tr>
</tbody>
</table>

**Features:**
- Low profile design, modular construction.
- Will not compress after clamping.
- 1.5” Bolt circle hole pattern.
- Swivel and V-notch style available.
- Spring pressure fixed at 6.5# max.
- Produced from hardened tool steel.
- Flange mounting for #10 SHCS
- Custom sizes, bolt pattern and head configurations available.
No where is the **mPower™** mandate to develop faster, smarter ways to operate workholding equipment more evident than with the innovative **ModLoc™** docking system.

Docking ports are installed into the top of each face of a tooling column (or into the top **ModLoc™** manifold bracket) and mate with positioning studs mounted to fixture plates.

Operators can then simply “hang” the fixture plates in place and lock them with the **SpeedLoc™** precision mounting system.

Order **ModLoc™** tooling columns factory equipped with this unique docking system and reduce the time it takes to make fixture plate changes to a couple minutes...or install them on your existing cast tombstones.

### Handles & Knobs

**Product overview:**
The convenient, ergonomically enhanced quick knob creates a positive 360° gripping surface that enables users to quickly hand tighten **SpeedLoc™** Locators into their mating receiver pocket with either left hand, right hand or both. Conventional T-handle Allen wrenches also available.

<table>
<thead>
<tr>
<th>SPEEDLOC™ LOCATOR SHANK DIAMETER (mm)</th>
<th>T-HANDLE PART NUMBER</th>
<th>QUICK KNOB PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>FA-13001</td>
<td>FA-13010</td>
</tr>
<tr>
<td>16</td>
<td>FA-16001</td>
<td>FA-16010</td>
</tr>
<tr>
<td>20</td>
<td>FA-20001</td>
<td>FA-20010</td>
</tr>
<tr>
<td>25</td>
<td>FA-25001</td>
<td>FA-25010</td>
</tr>
<tr>
<td>30</td>
<td>FA-30001</td>
<td>FA-30010</td>
</tr>
<tr>
<td>35</td>
<td>FA-35001</td>
<td>FA-35010</td>
</tr>
<tr>
<td>50</td>
<td>FA-50001</td>
<td>FA-50010</td>
</tr>
</tbody>
</table>
Hydraulic Products

The range of styles and types of shock absorbers available include...

Series 10 Dashpot Shock Absorber
• Capacity to 1,500 in lbs.
• single action.
• spring return.
• hardened plunger.

Series 20 Linear Type Shock Absorber
• Capacity to 30,000 in lbs.
• single action or double action.
• orifice specs to customer needs.
• optional stroke.

Series 30 Bumper Shock
• Capacity to 60,000 in lbs.
• single action.
• pre-engineered orifice.
• spring return.
• high energy unit.

Series 40 Adjustable Bumper
• Capacity to 6,000 in lbs.
• easy field adjustment.
• hardened impact cap.

Series 50/70 Rotary Type Shock Absorber
• Capacity to 5,000 in lbs.
• single or double action.
• independent orifice specs.
• 60° operating range.
• 360° choice in operating arm location.

Series 60 Adjustable Rotary Shock Absorber
• Capacity to 5,000 in lbs.
• single action in either direction or double action.
• 100° angular travel.
• 360° choice in arm position.

Modern Industries is a leading manufacturer of custom engineered industrial shock absorbers for a wide variety of process applications.

Whether your process application or product requires one of the shock absorbers listed above or something special, contact us today for complete details, application assistance or pricing/availability.

Control Speed
Dampen Natural Frequency
Smoothly Stop Moving Loads
Reduce Structural Fatigue
Additional MODERN Services Include…

Heat Treating

Looking for an experienced, quality-driven source for heat treating? Give Modern’s Commercial Heat Treating Group a call. We are one of the largest, most diverse heat treaters in the Midwest. Servicing an incredibly diverse range of customers…like you.

In addition to conventional processes like Quench and Temper, Normalizing and Annealing…Modern offers metallurgical expertise in:

- Ferritic Nitrocarburizing
- Deep Cryogenics
- Induction Hardening
- CNC Straightening
- Deep Case Carburizing
- Vacuum Treatments
- Carbonitriding
- Nitriding

Add it up… and the advantages are clear. Let Modern Industries quote on your next heat treating job.

Laboratory Testing

When it comes to exacting laboratory testing & evaluation, Modern Industries, Laboratory Testing Group is your one-call, total capabilities provider.

Established in 1987, this operation represents the latest technology in materials analysis/evaluation and industrial testing.

Whatever your metallurgical testing, failure analysis and materials evaluation needs, you can count on Modern’s Laboratory Testing Group to deliver. ISO-9001, ISO-17025, TS-16949 and Nadcap certified and accredited by major industry and independent trade groups.

A broad list of services includes…

- Metallurgical Testing.
- Physical & Mechanical Properties Testing.
- Materials Engineering and Consulting.
- Failure Analysis.
- Production Non-Destructive Testing.
- Environmental and IH Testing.
- Chemical Analysis.

(Extensive Spectroscopic Facilities)
maximize The Power.

- ✔ Faster setups... in just minutes
- ✔ Optimize fixturing flexibility
- ✔ Significantly improve machining output
- ✔ Reduce costs

Quick Change Fixture/Mounting System

Modular Tooling Columns

Indexing Systems
Meet the tooling columns that are the fusion of science & nature. No other tooling column compares…the patented ModLoc™ fuses advanced structural engineering with the strength of exoskeletons to produce a revolution in tooling column design & performance.

Consider these unique ModLoc™ tooling column features:

• “Kit” Construction – enables incredibly quick assembly.
• Build Your Own Columns – faster, more accurate, and less expensive.
• Open Architecture – easily accommodates hydraulic & electrical systems.
• Serialized Sets – uniquely manufactured to ensure best-fit accuracy.
• Rigid, Yet Lightweight – high strength design, yet reduced overall weight.
• Strength & Rigidity – comparable to cast tombstones.
Modern Industries, Inc., headquartered in Erie, PA, was founded in 1946. Over the years, we have grown to include a diverse range of manufacturing, product and service offerings. Our knowledge of machining and the “day-in-day-out” concerns over how to produce jobs faster and less costly, without sacrificing quality, makes us keenly sensitive to the needs of other manufacturers.

Those concerns were the motivating force for producing the mPOWER™ line of productivity enhancing/time reducing production tools for industry and specifically, machining center operators. This is a product line that will be dynamically growing, so make a point of regularly visiting www.mpwer.com.

You can also get information on the complete line of mPOWER™ products at your local authorized mPOWER™ distributor. To locate your nearest distributor, visit www.mpwer.com or call toll free at 877-588-7255, Ext. 222.