The ZYGLO Fluorescent Penetrant Inspection System is a simple, reliable and economical non-destructive test method for disclosure of surface discontinuities in all metal and many non-metallic parts. Installation utilizes modular components which accommodate work flow and space requirements. Particular attention is given to the efficient, low cost disposition of waste water.

**MAJOR BENEFITS**

- **RELIABLE IDENTIFICATION OF SURFACE DISCONTINUITIES**
- **LOW COST, MODULAR SYSTEM**
- **LONG SERVICE LIFE**
- **MINIMAL MAINTENANCE**
- **FLEXIBLE — CONFORMS TO WORK FLOW AND AVAILABLE FLOOR SPACE**
- **COMPATIBLE WITH ALL F.P.I. MATERIALS**

Zyglo inspection equipment is designed to facilitate what is, essentially, a five step process:

1. Application of penetrant to part being tested with time allowed for penetration into any discontinuities.
2. Removal of excess penetrant from surface of part.
3. Drying of part.
4. Application of developer to make entrapped penetrant easier to see.
5. Inspection of the part under a black light for surface discontinuities.

In each of the above steps there are options relating to the material being tested, method used, part size, part handling and waste disposition. Before processing, parts must be cleaned to remove all foreign matter.

**SYSTEM SELECTION**

Five basic decisions are required in selecting an appropriate Zyglo Fluorescent System:

1. The Part Envelope required.
2. Whether a Water Washable or Post Emulsified method would work best on your parts.
3. Whether spraying or immersion is best for your parts.
4. Whether Wet or Dry developer is to be used.
5. Facility requirements (Electrical Specifications, Pneumatic Lines, etc.).

**PART ENVELOPE**

Four standard size modular systems are available to accommodate a wide range of part sizes. Each piece of equipment within each system is compatibly sized.

Select the system that best accommodates the maximum size parts that you will be processing.

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>SYSTEM INSIDE WORKING DIMENSIONS</th>
<th>PASS LINE HEIGHT FROM FLOOR (INCHES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2436</td>
<td>33 21 26</td>
<td>36</td>
</tr>
<tr>
<td>4040</td>
<td>36 34-1/2 35</td>
<td>43</td>
</tr>
<tr>
<td>3448</td>
<td>43-1/4 29 28</td>
<td>36</td>
</tr>
<tr>
<td>3472</td>
<td>67-1/4 29 28</td>
<td>36</td>
</tr>
<tr>
<td>5472</td>
<td>67-1/4 49 27-1/2</td>
<td>36</td>
</tr>
</tbody>
</table>

* These dimensions will be slightly reduced if a Power Immersion Grille is used. Refer to specific “Inside Dimensions” on appropriate equipment pages.

The greatest economy is achieved when these pre-sized modular systems are specified. Other equipment is available for larger or smaller sized parts.
WATER WASH VS. POST EMULSIFIED (HYDROPHILIC AND LIPOPHILIC) METHODS

WATER WASH METHOD
The Zyglo penetrant used in the Water Wash method does not need an emulsifier to facilitate the surface cleaning process. Water Wash is the simplest and quickest “floor-to-floor” method available. Care must be taken to assure that overwashing does not occur.

POST EMULSIFIED METHOD (HYDROPHILIC AND LIPOPHILIC)
The Hydrophilic method is the most sensitive and reliable fluorescent penetrant inspection technique. Because of its waste disposal economies, it is gradually replacing the Lipophilic method. Easy separation of penetrant (for disposal) from pre-rinse (for re-use) is a major benefit of the Hydrophilic method. This method involves more processing steps than the Water Washable method, but provides better control and less susceptibility to overwashing.

The Lipophilic method is similar to the Hydrophilic method, but with important differences:
1. Pre-rinsing of excess penetrant is not recommended.
2. In the Hydrophilic method, parts remain in the Hydrophilic Remover through the dwell time. In the Lipophilic method, parts are immersed in the Lipophilic Remover and are immediately withdrawn. Excess penetrant then drains off during the dwell time.

WET VS. DRY DEVELOPER
The Wet Developer is applied by dipping the parts into the developer. Parts then move into a dryer where the water is evaporated.

With Dry Developer, the parts are first dried and then pass into a chamber where Dry Developer is applied, either by dipping, blowing the developer onto the parts, or passing the parts through a developer “cloud”.

PARTS HANDLING
Other considerations that affect the proper selection of equipment relate to how parts are to be handled. Roller Grilles facilitate the movement of parts between stations.

The largest Zyglo System includes optional split-roof components to accommodate overhead monorail conveyor systems or hoists.

Optional Power Immersion Grilles facilitate lowering and raising large parts, or large baskets of parts, into and out of the processing tanks.

SYSTEM CONFIGURATION
Zyglo Equipment can be positioned to accommodate floor space limitations and work flow requirements. Inspection systems can be set up in a straight line, with left and/or right 90° turns, or in a “U” turn to send parts back in the direction from which they came.

STRAIGHT LINE

PASS LINE HEIGHT

<table>
<thead>
<tr>
<th>MODULAR SYSTEM</th>
<th>HEIGHT FROM FLOOR (INCHES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2436</td>
<td>36</td>
</tr>
<tr>
<td>4040</td>
<td>43</td>
</tr>
<tr>
<td>3448</td>
<td>36</td>
</tr>
<tr>
<td>3472</td>
<td>36</td>
</tr>
<tr>
<td>5472</td>
<td>36</td>
</tr>
</tbody>
</table>

ELECTRICAL SPECIFICATIONS
The electrical specifications referenced in this catalog reflect those commonly used in the U.S.A. MAGNAFLUX equipment can be provided that is compatible with any conventional electrical source, worldwide.
Im-mersion is the process normally used to apply Penetrant, Emulsifier and Wet Developer to parts surfaces. Depending on part size, a tank from one of the four modular size systems is used for the immersion process.

The use of a Power Immersion Grille (see page 14) to lower and raise large parts or baskets of parts in and out of the tank will slightly affect part clearance. (See chart below.)

**FEATURES**
- Heavy gauge stainless steel tank
- Structural steel framework
- Bottom supported tank
- Protective hinged tank cover

**BENEFITS**
- Rapid and complete coverage of parts with complex shapes
- Easier coverage of parts processed in bulk
- Easy handling of large or heavy parts using optional power immersion grille
- Fast, easy installation (floor mount or bolt-together)

**ACCESSORIES**
- Half roller grille
- Power immersion grille
- Timers

**MECHANICAL REQUIREMENTS**

**PLUMBING**
- Drain and fill connection, rear of tank

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>OUTSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS WITH POWER IMMERSION GRILLE</th>
<th>GALLONS PER INCH (HEIGHT)</th>
<th>NOMINAL FILL (GALLONS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2436</td>
<td>36 24 36</td>
<td>33 21 26</td>
<td>Available Upon Request</td>
<td>3.0</td>
<td>60</td>
</tr>
<tr>
<td>4040</td>
<td>40 40 42-1/2</td>
<td>36 36 36</td>
<td></td>
<td>5.6</td>
<td>170</td>
</tr>
<tr>
<td>3448</td>
<td>48 34 36</td>
<td>43-1/4 29-1/4 30-3/4</td>
<td></td>
<td>5.5</td>
<td>140</td>
</tr>
<tr>
<td>3472</td>
<td>72 34 36</td>
<td>67-1/4 29-1/4 30-3/4</td>
<td></td>
<td>8.5</td>
<td>220</td>
</tr>
<tr>
<td>5472</td>
<td>72 54 36</td>
<td>67-1/4 29-1/4 30-3/4</td>
<td></td>
<td>14.3</td>
<td>370</td>
</tr>
</tbody>
</table>

Customized sizes are available upon request.
Roller grilles support parts during “rest” or “drain” cycles and facilitate the movement of heavy or basketed parts. The stations provide a support area equal to the basic tank size.

Roller grille units can be bolted to adjacent components, or optional support legs may be used. 90° grille units accommodate the turning or reversal of the work flow.

Half-tank roller grilles fit on the modular tanks and provide for direct drainage of material within the tanks. These may be used instead of drain stations in some applications to save space and cost. (Note: Not available for 2436 or 4040 Models)

Drain stations have stainless steel trays to facilitate recovery of Penetrant, Emulsifier, Rinse Water and Wet Developer.

FEATURES
- Corrosion resistant rollers - nominal 2” OD on 4” Centers
- Synthetic bearings
- Interchangeable rollers are easily installed or removed
- Note: Model 2436 includes a corrosion resistant rack instead of rollers
- Stainless steel drain pan

Customized sizes are available upon request

**SPECIFICATIONS**

**ROLLER GRILLE REST STATION**

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>STRAIGHT SECTION</th>
<th>90° SECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>W</td>
<td>H</td>
</tr>
<tr>
<td>2436*</td>
<td>36</td>
<td>24</td>
</tr>
<tr>
<td>4040</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>3448</td>
<td>48</td>
<td>34</td>
</tr>
<tr>
<td>3472</td>
<td>72</td>
<td>34</td>
</tr>
<tr>
<td>5472</td>
<td>72</td>
<td>54</td>
</tr>
</tbody>
</table>

*Not as shown. Slightly different configuration.
No rollers for 2436 Rest Station

**ROLLER GRILLE DRAIN STATION**

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>STRAIGHT SECTION</th>
<th>90° SECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>W</td>
<td>H</td>
</tr>
<tr>
<td>2436*</td>
<td>36</td>
<td>24</td>
</tr>
<tr>
<td>4040</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>3448</td>
<td>48</td>
<td>34</td>
</tr>
<tr>
<td>3472</td>
<td>72</td>
<td>34</td>
</tr>
<tr>
<td>5472</td>
<td>72</td>
<td>54</td>
</tr>
</tbody>
</table>

*Not as shown. Slightly different configuration.
No rollers for 2436 Drain
The penetrant must be removed from the part surfaces so that even the smallest flaws are easily detected. A Pre-Rinse station, immediately after Penetrant Application station, allows most of the penetrant to be flushed from the part’s surface; thus, relatively little penetrant is carried forward with the part into the Penetrant Remover station and remover life is extended.

FEATURES
Heavy gauge stainless steel tank
Structural steel framework
Hand-held hose with spray nozzle
Bottom supported tank

BENEFITS
Removes majority of penetrant before remover is applied
Facilitates removal of penetrant and re-use of rinse water
Minimizes effluent of disposal costs

SPECIFICATIONS

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>OUTSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS WITH POWER IMMERSION GRILLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L</td>
<td>W</td>
<td>H</td>
</tr>
<tr>
<td>2436</td>
<td>36</td>
<td>24</td>
<td>36</td>
</tr>
<tr>
<td>4040</td>
<td>40</td>
<td>40</td>
<td>42-1/2</td>
</tr>
</tbody>
</table>

Customized sizes are available upon request.
A Hydrophilic Penetrant Remover must be applied to the part following Pre-Rinse to assure complete removal of surface penetrant. Application is either by immersion or by spraying. Immersion tanks are equipped with air agitators to achieve the scrubbing action necessary for the remover to be effective. Immersion is recommended for uniform coverage of parts having complex shapes. A Power Immersion Grille is often used to provide additional agitation. The Hydrophilic Penetrant Remover is a concentrate and is added to water (approximately 1 to 5 ratio for immersion, and a 1 to 20 ratio for spray).

Spraying on a remover/water mix may be a more efficient way to cover large, flat-surfaced parts. Uniform distribution of the remover on all surfaces is important.

**FEATURES**
- Heavy gauge stainless steel tank
- Structural steel framework
- Bottom supported tank
- Air agitation
- Air line regulator, gauge and filter/strainer
- Protective hinged tank cover

**BENEFITS**
- Provides controlled processing and rinsing results

**ACCESSORIES**
- Power immersion grille
- Timers
- Work stand

**MECHANICAL REQUIREMENTS**
- **AIR**
  - 60 P.S.I. shop air line

---

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>OUTSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS WITH POWER IMMERSION GRILLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>L W H</td>
<td>X Y Z</td>
<td>X A B</td>
<td></td>
</tr>
<tr>
<td>2436</td>
<td>36 24 36</td>
<td>33 21 25</td>
<td>Available Upon Request</td>
</tr>
<tr>
<td>4040</td>
<td>40 40 42-1/2</td>
<td>36 36 34</td>
<td>36 32-1/2 31-1/2</td>
</tr>
<tr>
<td>5472</td>
<td>72 54 36</td>
<td>67-1/4 49-1/4</td>
<td>67-1/4 45-3/4 25-1/4</td>
</tr>
</tbody>
</table>

Dimensions are in inches and are nominal

**CUSTOMIZED SIZES**
Customized sizes are available upon request
All parts go through “Final Rinse” where all remaining penetrant, whether Water Wash, Hydrophilic or Lipophilic, is removed from the part’s surface.
A black light is provided to insure that proper washing is accomplished.
Final rinsing is done with a hand hose and spray nozzle. A Hydrowash power spray nozzle is a frequently used option for faster cleaning when permitted by specification. Complex shapes may require immersion and then a rinse. An air agitated rinse tank which helps in final clean-up, is available.

**FEATURES**
- Heavy gauge stainless steel tank
- Structural steel framework
- Bottom supported tank
- Spray hose and nozzle
- Black light

**BENEFITS**
- Convenient spray containment
- Flexible Operation

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>OUTSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS WITH POWER IMMERSION GRILLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L</td>
<td>W</td>
<td>H</td>
</tr>
<tr>
<td>2436</td>
<td>36</td>
<td>24</td>
<td>36</td>
</tr>
<tr>
<td>4040</td>
<td>40</td>
<td>40</td>
<td>42-1/2</td>
</tr>
<tr>
<td>5472</td>
<td>72</td>
<td>54</td>
<td>36</td>
</tr>
</tbody>
</table>

Dimensions are in inches and are nominal.

Customized sizes are available upon request.
Used in place of the conventional rinse tank, the Table Top Rinse unit permits easy, manual access to hard-to-rinse parts and to parts with entrapment areas that must be turned and emptied after rinsing. Working at waist height reduces fatigue. A roller grille provides an ideal work platform. The Table Top unit includes a hose and spray nozzle and a portable black light for surface inspection. The Hydrowash power spray is a popular option. The Table Top unit includes a hose and spray nozzle and a portable black light for surface inspection. The Hydrowash power spray is a popular option. The Table Top unit is enclosed at three sides and at the top.

A split top unit, with curtained entry and exit, is available in the largest system to accommodate overhead conveyor installations.

### FEATURES
- Stainless steel drain pan
- Structural steel frame
- Hand hose
- Hand held black light

### BENEFITS
- Easy access to hard-to-rinse parts and parts with entrapment areas
- Operator comfort

### ACCESSORIES
- Hydrowash spray gun
- Remover Injector Kit (Spray System)

### MECHANICAL REQUIREMENTS

#### PLUMBING
- Water inlet connection, rear of tank
- Drain connection, rear of tank

#### ELECTRICAL
- 115V, 60HZ, 1PH., 4 Amps (for black light)

### TABLE DIMENSIONS

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>OUTSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L</td>
<td>W</td>
</tr>
<tr>
<td>2436</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4040</td>
<td>40</td>
<td>42</td>
</tr>
<tr>
<td>3448</td>
<td>48</td>
<td>36</td>
</tr>
<tr>
<td>3472</td>
<td>72</td>
<td>36</td>
</tr>
<tr>
<td>5472</td>
<td>72</td>
<td>56</td>
</tr>
<tr>
<td><strong>SPLIT ROOF</strong></td>
<td>72</td>
<td>54</td>
</tr>
</tbody>
</table>

Dimensions are in inches and are nominal

Customized sizes are available upon request
All parts must be thoroughly dried during processing. If Dry Developer is used, parts are dried prior to the application of the developer. If Wet Developer is used, they are dried after the application of the developer.

MAGNAFLUX dryers provide uniform heating and air circulation throughout the drying chamber, with air intake to regulate humidity for optimum drying. Proper air circulation aids in drying and eliminates hot spots which can degrade penetrant performance.

Easy access and a large interior, along with a roller grille, accommodate high volume throughout.

An easily read and calibrated digital thermostat maintains desired temperature levels.

A dryer with solid top and balanced end doors provides virtually airtight heating. An optional dryer with a split top and flame resistant curtain doors accommodates overhead monorail conveyor systems.

**FEATURES**
- Structural steel framework
- Heavy gauge steel panels
- Insulated interior panels with heat reflective surfaces
- Easily removable fans and heater elements
- Adjustable, calibrated digital thermostat (N/A - on 2436)
- Air circulation fans
- Wire mesh beneath roller grille

**BENEFIT**
- A controlled, consistent drying cycle
- Energy efficient

---

**SPECIFICATIONS**

**STANDARD SIZE MODULAR SYSTEM**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>OUTSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2436</td>
<td>36&quot; 24 36&quot; 33&quot; 21&quot; 26&quot;</td>
<td>33 21&quot; 26&quot;</td>
</tr>
<tr>
<td>4040</td>
<td>40&quot; 42 82-1/2&quot; 36-1/2&quot;</td>
<td>36&quot; 34-1/2&quot; 33-1/2&quot;</td>
</tr>
<tr>
<td>3448</td>
<td>72&quot; 36 75&quot; 105-1/2&quot; 98-1/2&quot;</td>
<td>68&quot; 29&quot; 33-1/2&quot;</td>
</tr>
<tr>
<td>3472</td>
<td>72&quot; 36 75&quot; 105-1/2&quot; 98-1/2&quot;</td>
<td>68&quot; 29&quot; 33-1/2&quot;</td>
</tr>
<tr>
<td>5472</td>
<td>72&quot; 56 85&quot; 125-1/2&quot; 105-1/2&quot;</td>
<td>68&quot; 49&quot; 43-1/2&quot;</td>
</tr>
</tbody>
</table>

**SPLIT ROOF MODEL HAS CURTAINED DOORS**

Dimensions are in inches and are nominal.

**CUSTOMIZED SIZES ARE AVAILABLE UPON REQUEST**
Sturdy inspection booths provide the darkened area and the black lights for thorough Fluorescent Penetrant Inspection. Ample room is provided for part handling, and roller grilles facilitate the movement of heavy or basked parts. A solid worktop may be specified in place of the roller grille.

Flame resistant curtains extend below table height, assuring a properly darkened environment. An overhead fan provides ventilation.

A split roof model is available in the largest system to accommodate overhead monorail conveyor systems.

FEATURES
- Structural steel framework
- Roller grille (solid worktop available as option)
  - Note: Model 2436 available with solid worktop only
- Ventilating fan
- White light
- Black lights
- Flame resistant curtain
- Operator switch panel
- Full length curtains (4” above floor) enclose work area

BENEFITS
- Large enough to accommodate two or more inspectors
- Provides ideal environment for thorough part inspection
- Easy part entry/exit
- Comfortable work environment
- Unobstructed work area
- Meets ambient light restriction specification

ACCESSORIES
- Solid worktop

MECHANICAL REQUIREMENTS

ELECTRICAL
115V, 60HZ, 1PH., 10 Amps
Other voltages can be accommodated. Check with your MAGNAFLUX representative.

Customized sizes are available upon request.
The developer acts to pull the penetrant remaining in a cavity to the surface where it is readily visible under black light. Wet or Dry Developers may be used. Wet Developer (suspended or dissolved in water) is applied by immersion of the part. (See Wet Developer station)

### Dynamic Cloud Station

The air in this flat bottom chamber is pre-dried and circulated at low velocity to sustain a continuous powder cloud in which the parts are placed. Powder application and evacuation cycle times are adjustable. This method involves a sealed, fully enclosed dry powder container to minimize waste due to “caking”. An optional Dust Collector is available to trap the airborne particles that are evacuated from the chamber prior to removal of parts.

**Features**
- Structural steel framework
- Roller grille
- Enclosed chamber with vertically rising doors
- Air connection with regulator and gauge
- Filtered air inlet
- Dust collection duct

**Benefits**
- Even distribution of developer on parts surfaces
- Minimal developer caking
- Most efficient use of powder

**Accessories**
- Dust collector
- Air line dryer (highly recommended)

### Swirl Cloud Station

The Swirl Cloud station is an air tight chamber with an air manifold and hand valve. A burst of shop air disperses Dry Developer, gently settling it onto the surface of the part. Solid end doors provide entry and exit. A Dust Collector, which requires no external ducting, is available as an option for particle evacuation.

**Features**
- Heavy Gauge stainless steel tank
- Structural steel framework
- Roller Grille

**Benefits**
- Even distribution of developer on part surfaces
- *2436 Top Loading has floor grating

**Accessories**
- Dust collector

### Developer Dip Station

The tank for the dipping process has baffled duct work for dust collector hookup.

**Features**
- Heavy gauge stainless steel tank
- Structural steel framework
- Baffled duct work

**Benefit**
- Low cost application

**Accessories**
- Dust collector
- Half Grille

### Table Top Developer Station

Used in place of the Developer Dip station, the Table Top Developer unit permits easy, manual application of Dry Developer.

A split roof model is available to accommodate overhead monorail conveyor systems.

**Features**
- Roller grille top
- Developer applicator hose

**Benefits**
- Easy access to assure that unusually shaped parts and parts with entrapment areas are properly covered.
- Operator comfort

**Accessories**
- Dust collector
Dry Developer may be applied by dipping (Modular Dip Developer station), by gently blowing the developer onto the part (Dynamic Cloud station) or by creating a powder “cloud” through which the parts pass (Swirl Cloud station).

NOTE: When determining floor space requirements for a Dry Developer station, allow room for a dust collector or for ducting to the plant dust collecting system.

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>OUTSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>W</td>
<td>H</td>
</tr>
<tr>
<td>2436</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>4040</td>
<td>40</td>
<td>42</td>
</tr>
<tr>
<td>3448</td>
<td>48</td>
<td>36</td>
</tr>
<tr>
<td>3472</td>
<td>72</td>
<td>36</td>
</tr>
<tr>
<td>5472</td>
<td>72</td>
<td>56</td>
</tr>
</tbody>
</table>

**MECHANICAL REQUIREMENTS**

**AIR**

60 P.S.I. shop air line, 1/2" N.P.T.

Other voltages can be accommodated. Check with your MAGNAFLUX representative.

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>OUTSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>W</td>
<td>H</td>
</tr>
<tr>
<td>2436*</td>
<td>36</td>
<td>24</td>
</tr>
<tr>
<td>4040</td>
<td>40</td>
<td>42</td>
</tr>
<tr>
<td>3448</td>
<td>48</td>
<td>36</td>
</tr>
<tr>
<td>3472</td>
<td>72</td>
<td>36</td>
</tr>
<tr>
<td>5472</td>
<td>72</td>
<td>56</td>
</tr>
</tbody>
</table>

**MECHANICAL REQUIREMENT**

**AIR**

60 P.S.I. shop air line, 1/2" N.P.T.

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>OUTSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>W</td>
<td>H</td>
</tr>
<tr>
<td>2436</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>4040</td>
<td>40</td>
<td>42</td>
</tr>
<tr>
<td>3448</td>
<td>48</td>
<td>34</td>
</tr>
<tr>
<td>3472</td>
<td>72</td>
<td>34</td>
</tr>
<tr>
<td>5472</td>
<td>72</td>
<td>54</td>
</tr>
</tbody>
</table>

**MECHANICAL REQUIREMENT**

**AIR**

60 P.S.I. shop air line

<table>
<thead>
<tr>
<th>STANDARD SIZE MODULAR SYSTEM</th>
<th>OUTSIDE DIMENSIONS</th>
<th>INSIDE DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>W</td>
<td>H</td>
</tr>
<tr>
<td>2436</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>4040</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>3448</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>3472</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>5472</td>
<td>72</td>
<td>56</td>
</tr>
</tbody>
</table>

**MECHANICAL REQUIREMENT**

**AIR**

60 P.S.I. shop air line

Available Upon Request

Customized sizes are available upon request.
POWER IMMERSION GRILLE

Air powered Immersion Grilles facilitate the lowering and raising of large parts or large baskets of parts in and out of the various processing tanks. The Immersion Grille, with its durable, corrosion resistant rollers, raises and lowers permitting rapid part drainage. Some part capacity in the tank is sacrificed.

DUST COLLECTORS

Airborne particles are evacuated from Dry Developer stations prior to the removal of parts. This steel cabinet has “positive seal” doors and requires minimal floor space.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>STAND ALONE MODULAR SYSTEM</th>
<th>OUTSIDE DIMENSIONS</th>
<th>LIFT PLATFORM DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>V</td>
<td>S</td>
</tr>
<tr>
<td>2436</td>
<td>Available Upon Request</td>
<td></td>
</tr>
<tr>
<td>4040</td>
<td>107</td>
<td>8</td>
</tr>
<tr>
<td>3448</td>
<td>96</td>
<td>6</td>
</tr>
<tr>
<td>3472</td>
<td>96</td>
<td>6</td>
</tr>
<tr>
<td>5472</td>
<td>96</td>
<td>6</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Size</th>
<th>L</th>
<th>W</th>
<th>H</th>
<th>Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 HP</td>
<td>22-1/8</td>
<td>41-1/8</td>
<td>22-1/2</td>
<td>115 V, 60 Hz, 1 PH</td>
</tr>
<tr>
<td>3 HP</td>
<td>28-1/8</td>
<td>28-1/4</td>
<td>52-1/8</td>
<td>230 or 460</td>
</tr>
<tr>
<td>10 HP</td>
<td>64</td>
<td>43-1/2</td>
<td>109</td>
<td>230 or 460</td>
</tr>
</tbody>
</table>
Custom modular system can be designed to your specific testing needs.

Make sure to supply the following information and fax back to Quality NDE at (450) 691-6101 to receive a quote.

Company name:__________________________
Contact name:__________________________
Phone number:__________________________
Address:_______________________________
What is the part size and geometry? (Include drawing or picture if possible)?

What is the part weight?
What level of penetrant will be used?

Type of application?  □ Electrostatic  □ Spray  □ Dip
What process for inspection is required  □ Water wash  □ Lipophilic  □ Hydropholic
                                             □ Wet developer  □ Dry developer

What is the required processing rate (parts per hours)?
What is the allowable floor space available (provide expected equipment layout if possible)?

What accessories do you need to be quoted with the system? EX: Part fixtures, baskets, curtains, UV light, accessories?

How is effluent being handled? Do you need Ozone system, coalescer, nanofiltration?

What is the budget for the project?
When do you need this system?