**Available Options:**
- Electric collector rings provide 360° Main Post and Middle Joint Rotation.
- Rotation stops are recommended if 360° Rotation option is not purchased.
- Air swivels provide 360° Main Post and Middle Joint Rotation.
- Air Filter/Regulator
- Air or Electric Hoist or Balancer
- Main Post (primary) friction brake is standard. Middle Joint (secondary) friction brake is optional.
- Mounting: Overhead, Trolley, Pedestal, Wall Mount or Mobile/Portable Base

**Standard Features**
- Heavy duty construction for long life
- Wide variety of standard lengths and capacities
- Main post friction brake
- Leveling bolts to minimize second arm drift
- Low friction bearings
- Secondary arm can be mounted above primary arm in low overhead clearance applications

---

**AJ Arm Light Series**

<table>
<thead>
<tr>
<th>Model</th>
<th>Reach (A)</th>
<th>Primary Arm (B)</th>
<th>Secondary Arm (C)</th>
<th>Capacity*</th>
<th>Weight (lbs)</th>
<th>Deflection (inches)</th>
<th>Maximum Moment at Main Post (in-lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ 310 - 8</td>
<td>8</td>
<td>56</td>
<td>40</td>
<td>310</td>
<td>215</td>
<td>0.688</td>
<td>0.438</td>
</tr>
<tr>
<td>AJ 280 - 9</td>
<td>9</td>
<td>63</td>
<td>45</td>
<td>280</td>
<td>239</td>
<td>0.750</td>
<td>0.500</td>
</tr>
<tr>
<td>AJ 250 - 10</td>
<td>10</td>
<td>70</td>
<td>50</td>
<td>250</td>
<td>263</td>
<td>0.813</td>
<td>0.563</td>
</tr>
<tr>
<td>AJ 230 - 11</td>
<td>11</td>
<td>77</td>
<td>55</td>
<td>230</td>
<td>287</td>
<td>0.875</td>
<td>0.625</td>
</tr>
<tr>
<td>AJ 210 - 12</td>
<td>12</td>
<td>84</td>
<td>60</td>
<td>210</td>
<td>311</td>
<td>1.000</td>
<td>0.688</td>
</tr>
<tr>
<td>AJ 190 - 13</td>
<td>13</td>
<td>91</td>
<td>65</td>
<td>190</td>
<td>335</td>
<td>1.063</td>
<td>0.750</td>
</tr>
<tr>
<td>AJ 180 - 14</td>
<td>14</td>
<td>98</td>
<td>70</td>
<td>180</td>
<td>359</td>
<td>1.125</td>
<td>0.813</td>
</tr>
<tr>
<td>AJ 170 - 15</td>
<td>15</td>
<td>105</td>
<td>75</td>
<td>170</td>
<td>383</td>
<td>1.250</td>
<td>0.875</td>
</tr>
</tbody>
</table>

* Includes payload and end-effector

Electric Option: 460v, 3 phase, 20 amp
Air Option: 3/4" air lines, SCFM will vary on hoist and/or tooling

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**ARTICULATED JIB-ARM, LIGHT**

**SCALE:** 1:1

**DRAWN BY:** BEN/DWB

**DATE:** 10/4/2003

**CLASS CODE:** 750

**DWG NO:** QWI-75-15

**LBS:** 750

**WR:** 1 of 2

**REV:**
Standard Features

- Heavy duty construction for long life
- Wide variety of standard lengths and capacities
- Main post friction brake
- Leveling bolts to minimize second arm drift
- Low friction bearings
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Available Options:

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- Air or Electric Hoist or Balancer
- Main Post (primary) friction brake is standard. Middle Joint (secondary) friction brake is optional.
- Mounting: Overhead, Trolley, Pedestal, Wall Mount or Mobile/Portable Base
- 3/8 NPT hose connections for air option
PEDESTAL MOUNTING REQUIREMENTS

Foundation Design Requirement for Existing Floor

1. The foundation must have four 3/4"-10 SAE 2 studs spaced 90 degrees apart on a 38-3/16"diameter bolt circle(27” x 27” square) extending 3” above the foundation to mate with and extend through mounting holes in the pedestal base. Stud load approximately 1,000 pounds maximum. Position the pedestal on the foundation with respect to the opening for the air supply to minimize piping.

2. Attach the pedestal to the foundation with four (4) lockwashers and four (4) SAE 2 steel nuts. Shim as required to level kingpin mounting ring located on the pedestal top.

3. Foundation must meet the following criteria.
   a. 5" minimum thick concrete floor with netting type reinforcement.
   b. 3000 p.s.i. minimum compressive strength.
   c. 2500 pounds/square foot minimum soil bearing beneath concrete.
   d. No cracks, fractures, expansion joints, etc. with minimum floor area indicated. (See "f").
   e. Pedestal base shall be mounted in center with sides parallel to sides of floor area indicated.
   f. Minimum floor area which meets all above requirements must be 8.5' x 8.5'.
   g. Mount anchor studs as indicated above

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Anchor Bolt Size</th>
<th>Bolt Torque</th>
<th>Bolt Circle Dia.</th>
<th>No. of Anchor Bolts</th>
<th>Total Equipment Weight</th>
<th>Maximum Static Moment</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB400 Series Balancer, AJL165</td>
<td>3/4&quot;-10</td>
<td>173</td>
<td>38-3/16&quot;</td>
<td>4</td>
<td>1655 Lb</td>
<td>2400 Ft Lb</td>
</tr>
</tbody>
</table>

![Diagram of pedestal mounting requirements]