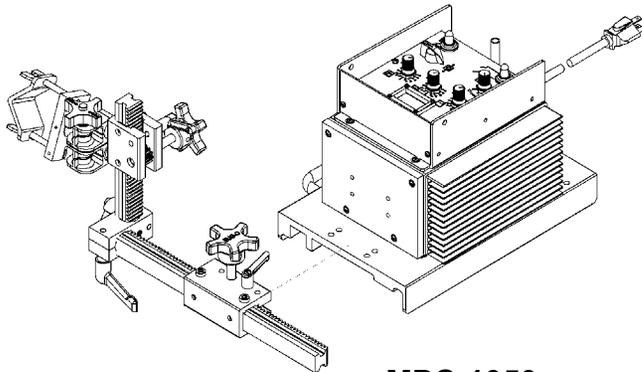


Supports & Accessories

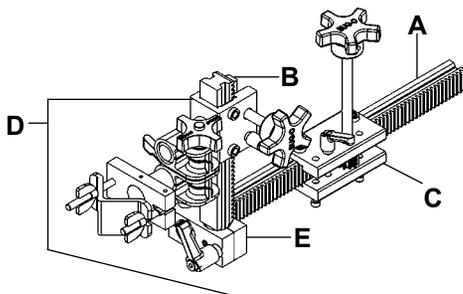
The **TOOL POSITIONING SYSTEM** is a compact and rigid system which can be used to hold a wide variety of cutting torches, welding guns and other handheld tools.



It consists of black anodized 7/8" (22.2mm) square aluminum bars with 16-pitch machined racks and ways, right angle clamps, machined rackholders and torchholders.

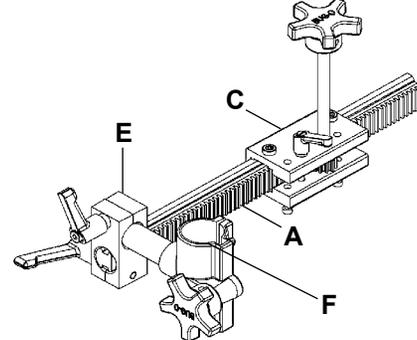
MDS-1040 Machined Rack Welding Group

- A. BUG-1796 Machined Rack 14" (355.6mm)
- B. BUG-1853 Machined Rack 7-1/2" (190.5mm)
- C. MDS-1031 3.5" (88.9mm) Rackholder
- D. BUG-5455 Gun Mounting Group
- E. BUG-5462 Right Angle Clamp



MDS-1050 Machined Rack Cutting Group

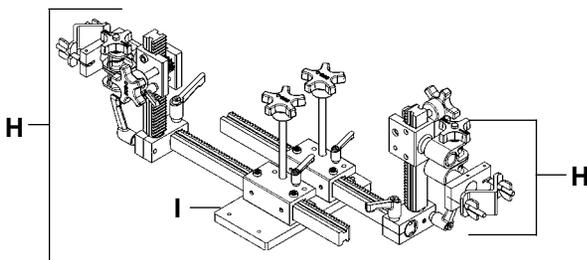
- A. BUG-1796 Machined Rack 14" (355.6mm)
- C. MDS-1031 3.5" (88.9mm) Rackholder
- E. BUG-5462 Right Angle Clamp
- F. BUG-5188 Torchholder Assembly



MDS-1075 Dual Torch Welding Group

Includes:

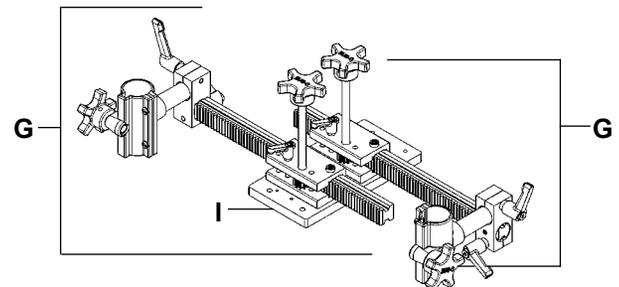
- (2) H. MDS-1040 Machine Rack Group
- (1) I. MDS-1045 Double Rackholder Mount



MDS-1090 Dual Torch Cutting Group

Includes:

- (2) G. MDS-1050 Machined Rack Cutting Group
- (1) I. MDS-1045 Double Rackholder Mount



Bug-O Systems is committed to empowering our customers by providing operator controlled mechanized solutions for their welding, cutting and custom applications.



BUG-O SYSTEMS
A DIVISION OF WELD TOOLING CORPORATION



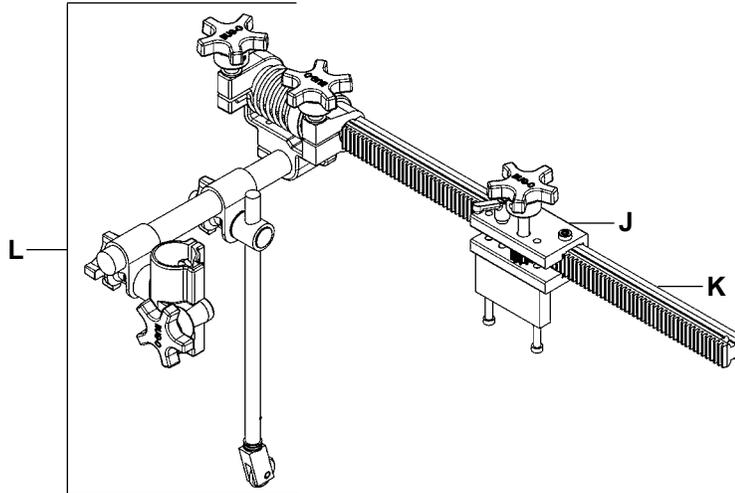


Supports & Accessories - Panograph

BUG-O SYSTEM'S **CUTTING AND WELDING PANOGRAPHS** are spring loaded torch holders that automatically compensate for surface variations. They are designed to carry a cutting torch or welding gun along an irregular or wavy surface to maintain torch to work distance.

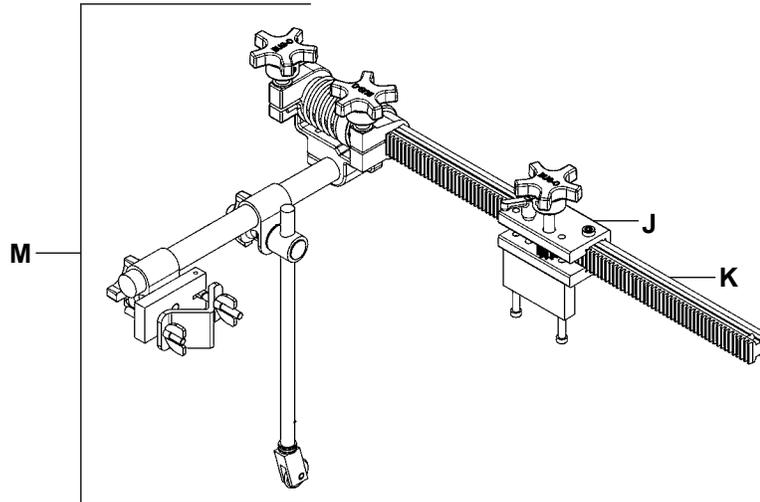
PAN-1000 Panograph Torch Floater

- J. PAN-1071 Panograph Rackholder
- K. PAN-1015 Rack 22 5/8" (574.68mm)
- L. PAN-1010 Panograph with Torchholder



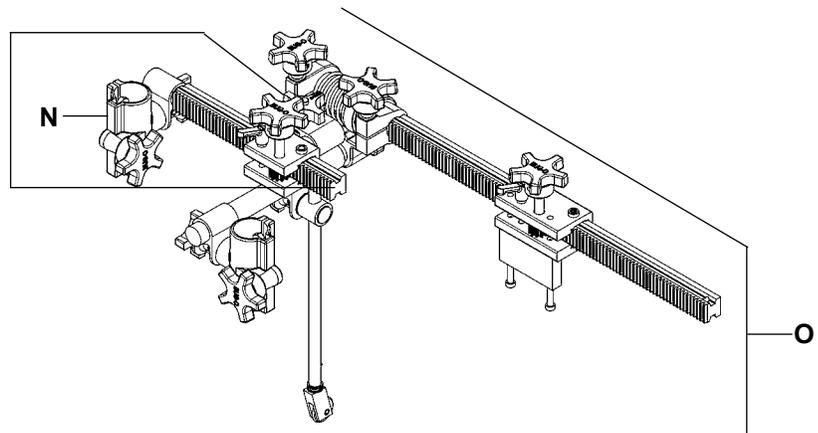
PAN-1008 Welding Panograph

- J. PAN-1071 Panograph Rackholder
- K. PAN-1015 Rack 22 5/8" (574.68mm)
- M. PAN-1007 Panograph with fits-all clamp



PAN-1072 Double Torch Panograph

- N. PAN-1070 Panograph Mounting Double Torch
- O. PAN-1000 Panograph Torch Floater

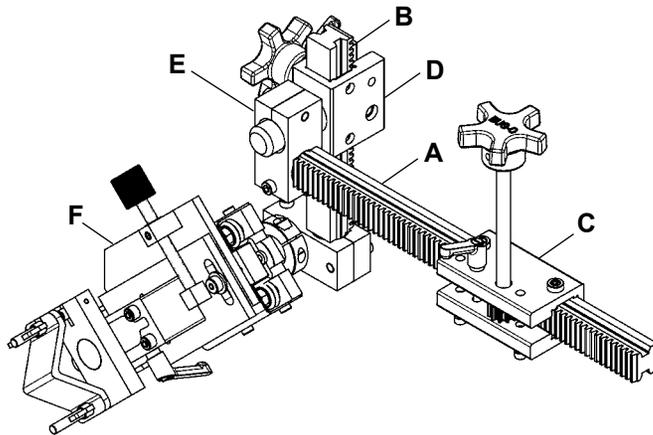




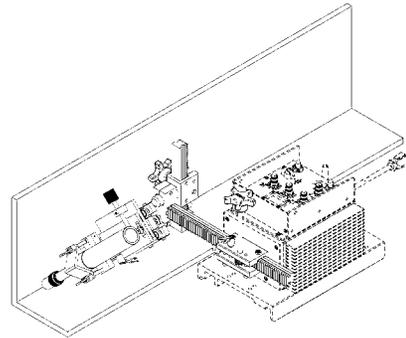
Supports & Accessories - Seam Tracking

PAN-2145-L, R Mechanical Corner Follower

- A. BUG-1796 Machined Rack 14" (355.60mm)
- B. BUG-1853 Machined Rack 7.5" (190.5mm)
- C. MDS-1031 3.5" (88.90mm) Rackholder
- D. UNI-1036 Rackrider
- E. BUG-5462 Right Angle Clamp
- F. PAN-2140-L or -R Adjustable Corner Follower

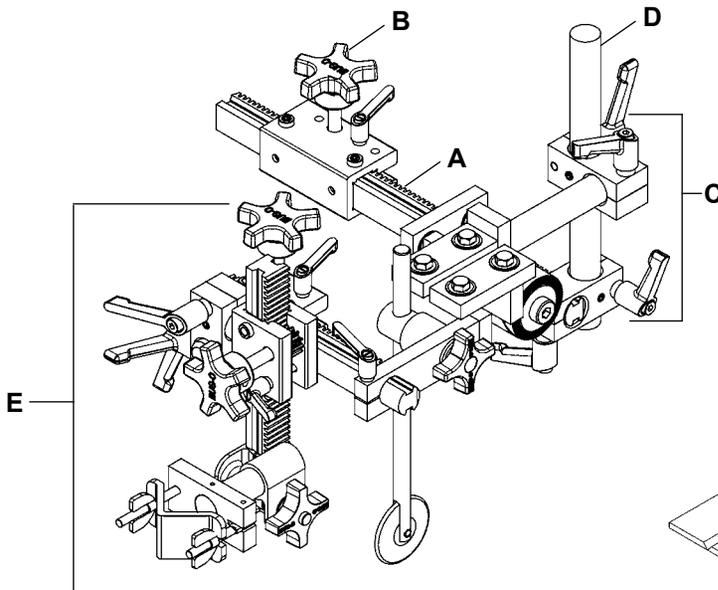


Used for tracking a fillet weld, the **CORNER FOLLOWER** using a spring loaded V-wheel keeps a welding torch centered in the corner of the joint and maintains correct torch to work distance. The Corner Follower is available in Right hand or Left hand configurations.

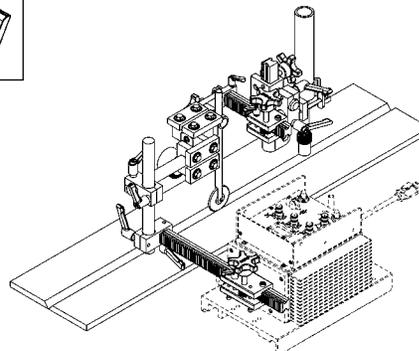


PAN-2160 Mechanical Seam Follower

- A. BUG-1796 Machined Rack 14" (355.60mm)
- B. BUG-5451 3.5" (88.90mm) Rackholder
- C. BUG-5462 Right Angle Clamps
- D. BUG-9180-10 Rod 10" (254mm)
- E. PAN-2100 Seam Tracker

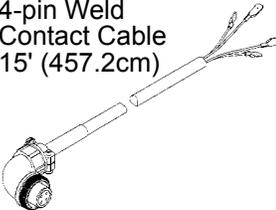
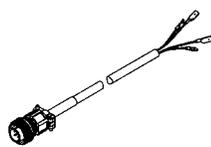
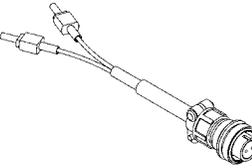
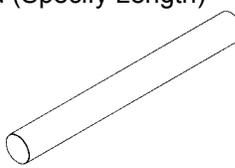
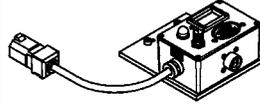
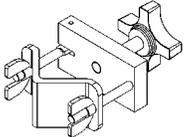
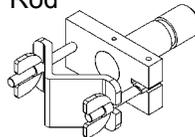
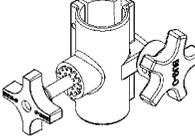
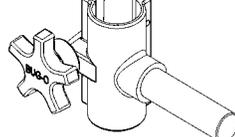
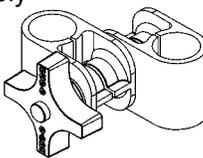
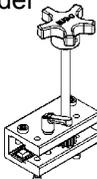
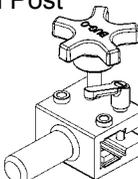
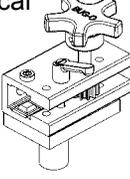
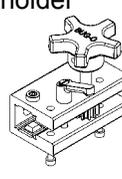
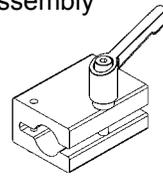
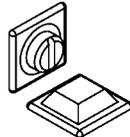
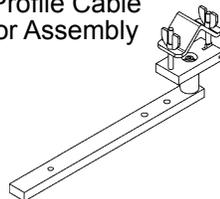
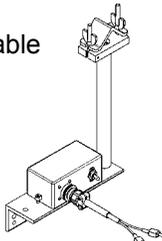
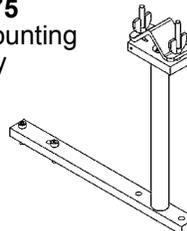
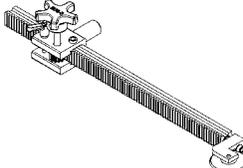
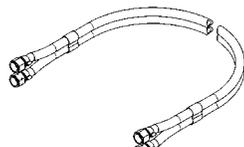
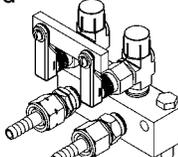
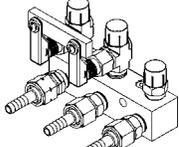
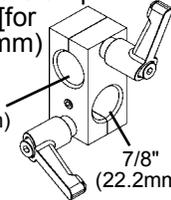
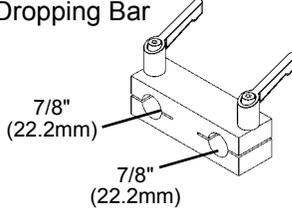


Used for tracking a V grooved butt joint, the **SEAM FOLLOWER** features 2 axis of adjustment determined by a follower wheel which rides in the joint. It will provide up to 2" (50.8mm) of compensation up and down as well as left and right for fit up variations.





Supports & Accessories - Accessories

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|---|---------|-------------|-----|-----------|-------------|-----|-----------|-------------|-----|---------|-------------|-----|-----------|-------------|-----|-----------|-------------|-----|------------|-------------|-----|------------|-------------|-----|------------|-------------|-----|----------|-------------|-----|------------|---|---|
| <p>MDS-1085 4-pin Weld Contact Cable 15' (457.2cm)</p>  | <p>UNI-1085 4-pin Straight Connector</p>  | <p>BUG-9485 2-Pin Connector</p>  | <p>BUG-9180_ 7/8" (22.2mm) Diameter Rod (Specify Length)</p>  | <p>BUG-9870 Stepper Module 120VAC</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>BUG-2660 Fits-All Clamp</p>  | <p>BUG-2708 Clamp with 7/8" (22.2mm) Rod</p>  | <p>BUG-2915 Torchholder Assembly</p>  | <p>BUG-5188 Torchholder Assembly w/7/8" (22.2mm) Rod</p>  | <p>CON-1020 Swivel Clamp Assembly</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>MDS-1031 3.5" (88.90mm) Rackholder</p>  | <p>UNI-1036 Rackrider with Post</p>  | <p>BUG-2407 Post Assembly-Vertical</p>  | <p>BUG-5451 3.5" (88.90mm) Rackholder</p>  | <p>BUG-5295 Rod Mount Assembly</p>  | <p>BUG-2594-10 Taper Glides Package of 10</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>BUG-5930 Low Profile Cable Anchor Assembly</p>  | <p>BUG-5485 Contactor/Cable Anchor</p>  | <p>BUG-2975 Cable Mounting Assembly</p>  | <p>UNI-1035 Outrigger Arm</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>CIR-1010_ Twin Hose Assembly</p>  | <p>MUG-1119-36_ Triple Hose Assembly</p>  | <p>GOF-3025 2-Hose Quick-Acting Manifold</p>  | <p>BUG-9898 3-Hose Quick-Acting Manifold</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>BUG-2597 (Specify Length) Machined Rack with rounded 7/8" (22.2mm) end</p>  <table border="0"> <tr><td>BUG-2597-8</td><td>8"</td><td>(203.2mm)</td></tr> <tr><td>BUG-2597-15</td><td>15"</td><td>(381mm)</td></tr> <tr><td>BUG-2597-22</td><td>22"</td><td>(558.8mm)</td></tr> <tr><td>BUG-2597-27</td><td>27"</td><td>(685.8mm)</td></tr> <tr><td>BUG-2597-30</td><td>30"</td><td>(762mm)</td></tr> <tr><td>BUG-2597-36</td><td>36"</td><td>(914.4mm)</td></tr> <tr><td>BUG-2597-39</td><td>39"</td><td>(990.6mm)</td></tr> <tr><td>BUG-2597-42</td><td>42"</td><td>(1066.8mm)</td></tr> <tr><td>BUG-2597-48</td><td>48"</td><td>(1219.2mm)</td></tr> <tr><td>BUG-2597-54</td><td>54"</td><td>(1371.6mm)</td></tr> <tr><td>BUG-2597-60</td><td>60"</td><td>(1524mm)</td></tr> <tr><td>BUG-2597-72</td><td>72"</td><td>(1828.8mm)</td></tr> </table> | BUG-2597-8 | 8" | (203.2mm) | BUG-2597-15 | 15" | (381mm) | BUG-2597-22 | 22" | (558.8mm) | BUG-2597-27 | 27" | (685.8mm) | BUG-2597-30 | 30" | (762mm) | BUG-2597-36 | 36" | (914.4mm) | BUG-2597-39 | 39" | (990.6mm) | BUG-2597-42 | 42" | (1066.8mm) | BUG-2597-48 | 48" | (1219.2mm) | BUG-2597-54 | 54" | (1371.6mm) | BUG-2597-60 | 60" | (1524mm) | BUG-2597-72 | 72" | (1828.8mm) | <p>BUG-5462 Right Angle Clamp Assembly [for 7/8" (22.2mm) Rods]</p>  <p>7/8" (22.2mm)</p> <p>7/8" (22.2mm)</p> | <p>BUG-3232 Dropping Bar</p>  <p>7/8" (22.2mm)</p> <p>7/8" (22.2mm)</p> |
| BUG-2597-8 | 8" | (203.2mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUG-2597-15 | 15" | (381mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUG-2597-22 | 22" | (558.8mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUG-2597-27 | 27" | (685.8mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUG-2597-30 | 30" | (762mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUG-2597-36 | 36" | (914.4mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUG-2597-39 | 39" | (990.6mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUG-2597-42 | 42" | (1066.8mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUG-2597-48 | 48" | (1219.2mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUG-2597-54 | 54" | (1371.6mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUG-2597-60 | 60" | (1524mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUG-2597-72 | 72" | (1828.8mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |