Engineered for every application!
Robotic interface components are not one-size-fits-all!
KMT engineers can customize any kit for your application.

Interface kits include coil guides and coil supports that insure maximum coil life. All connections include anti-vibration glands and collars.

High pressure coils are supported by polyethylene brackets to protect the robot arm and the high pressure tube.

Collision sensors for each robot are optional.

Coil guides and supports are designed for specific robot applications.

Advancing Waterjet Technology
Worldwide Sales and Support Network
Making Waterjet Systems Easier to Use, with Greater Reliability
ISO 9001:2000 Certification, CSA and CE Certified
Trained, Certified Technicians
© 2008

KMT Waterjet System Inc.
635 W. 12th Street • P.O. Box 231 • Baxter Springs, KS 66713
Tel.: 1-620-856-2151 • Fax: 1-620-856-5050
www.kmwaterjet.com • sales@kmtgroup.com

KMT Waterjet Robot Interface Kits
Robust Waterjet Kits for Robots
The AQUALINE™ Waterjet Cutting Head Long Lasting for Demanding Applications!

The AQUALINE™ with optional F5 (Fast & Sure) pneumatic valve, is the perfect cutting head for robot applications. The AQUALINE™ is the complete cutting head including valve, orifice and nozzle tube.

Our pneumatic valves, available as standard valve or our F5 premium valve, combine fast response times with long life to deliver very reliable, predictable service. The F5 valve delivers even longer life for the most critical production lines. The AQUALINE™ enables longer production runs, resulting in the production of more parts.

Reliability Under Extreme Conditions

Our AQUALINE™ waterjet cutting head has gained an industry-wide reputation for being among the quickest and the most reliable waterjet cutting heads under extreme working conditions, through fast reaction times, high component lifetimes and quality.

Applicable in 10 to Multiple Axis Systems

The AQUALINE™ cutting head is widely used robotic “3D Cutting Boxes” as well as multi-dimensional cutting machines.

High Performance Nozzle Valve

The multiple cutting cycles found in these industries place huge requirements on the on/off cycle speed and reliability of the cutting valve. The dependable valve performance is due to 12 stainless steel springs which apply the force to open or close the valve.

Depending on the application, normally closed (N/C) and normally open (N/O) cutting valves are available. The valves have the following cycle times (water @ 50,000 PSI):

- **Valve OPENING:** 0.51 ms
- **Valve CLOSING:** 1.80 ms

The AQUALINE™ head weighs only 3.97 lbs guaranteeing high flexibility and making multihead and 3-D applications easy. It can be equipped with both sapphire and diamond orifices. Diamonds provide hundreds of hours of high quality, consistent cutting with low average cost per hour while sapphires typically have shorter lives, lower purchase price, but higher average cost per hour.

Compact Design for Flexible Use

The AQUALINE™ head weighs only 3.97 lbs guaranteeing high flexibility and making multihead and 3-D applications easy. It can be equipped with both sapphire and diamond orifices. Diamonds provide hundreds of hours of high quality, consistsent cutting with low average cost per hour while sapphires typically have shorter lives, lower purchase price, but higher average cost per hour.

Technical Data

- **Length:** 1.97''
- **Width:** 1.97''
- **Height (with 8'' Nozzle Tube):** 10.23''
- **Weight:** 3.97 lbs
- **HP Connection:** 3/8'' UNF
- **Mounting bosses:** (2) 1/4’’ x 1/8’’

<table>
<thead>
<tr>
<th>Valve</th>
<th>Opening</th>
<th>Closing</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC</td>
<td>48/64s</td>
<td>160/55s</td>
</tr>
<tr>
<td>NO</td>
<td>48/64s</td>
<td>115/55s</td>
</tr>
<tr>
<td>(N/L at 160PSI)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From engineering drawing to final part - KMT supplies you with the total package!

The Value of Genuine KMT Robot Interface Kits

KMT understands the importance of reliable robot systems and builds kits for durability and reliability even at high speeds.

KMT customized robot interface kits are designed to help your robotic system run at peak performance levels.

KMT robot interface kits have a 6 month limited warranty.

KMT robot kits are supported by an organization of qualified and experienced aftermarket representatives.

KMT stocks a comprehensive inventory of high quality original equipment robotic spare parts.

Shipment of stock items in one business day and emergency same day delivery.

KMT representatives are on hand 7 days a week to answer technical questions, ship parts and, if required, dispatch a field service technician for an emergency site visit.

Emergency after hours support via a toll-free phone call at 1-800-826-9274.

Please have the following information ready and call us toll free at 1-800-826-9274 to discuss your application and specifications:

- Basic description and model number
- Robot style and range of motion
- Payload
- Robot options, such as end of arm reach, waterproofing, etc.

You will be asked the following questions:

- Will the robot be floor mounted?
- Will the robot be enclosed or exposed?
- What will be cut by the robot?
- Will any axes require more than 360 degree rotation?
- Will the kits include an End of Arm Collision Sensor?
- What are the delivery requirements?