Drive your projects forward
With Eaton Hydraulics’ powerful ProTeam, you can drive your projects forward

Developing or upgrading vehicles and machines is not an easy job. Time, money, know-how and a lot of engineering expertise are required to make the project a success.

All the necessary components must be optimally positioned and need to be connected to one another in the end. In other words, this is the right time to consult a specialist.

**Input needed**
- 2D drawing
- 3D model
- Part description
- Reference part
- Access to the machine to define the components

**Duration**
- 24-48 hours for standard parts
- 2-5 days for customised items of medium complexity
- 5-10 days for complex parts
- Field engineering included, as required

**Outcome**
- Proof-pressure-tested hose assembly
- One-end crimped hose assembly, if additional on-site optimisation is needed
- Tube assembly
From sketch to prototype in just a few days

Eaton’s ProTeam consists of highly skilled and qualified technicians with a lot of experience in selecting the right hydraulic hose & fitting products to ensure the reliable and sustainable operation of your machine. The ProTeam can quickly produce the required prototypes, to a high standard of quality and at a competitive price. Simply send us 2D/3D drawings, part descriptions or reference parts, or schedule an on-site consultation to specify the necessary components and technical data. Depending on the degree of complexity, we are able to offer the following processing times:

- 1–2 days for standard hose assemblies
- 2–5 days for hose assemblies of medium complexity including customised fittings
- 3–8 days for customised solutions including special fittings, brackets, sleeves, etc.
- 5–10 days for highly complex, multi-bent tube-hose combinations including certification and documentation

<table>
<thead>
<tr>
<th>Standard parts</th>
<th>Bent parts, copper brazing</th>
<th>Multi-bent tube parts, silver brazing</th>
<th>Highest complexity</th>
</tr>
</thead>
<tbody>
<tr>
<td>• A-parts only</td>
<td>• Any design is possible</td>
<td>• Customised solutions</td>
<td>• Multi-bent</td>
</tr>
<tr>
<td>• No special parts or materials</td>
<td>• Additional parts such as brackets, sleeves, etc.</td>
<td>• Silver brazing</td>
<td>• Gauges</td>
</tr>
<tr>
<td>Category 1</td>
<td>Category 2</td>
<td>Category 3</td>
<td>Category 4</td>
</tr>
<tr>
<td>Simple hose assemblies with standard catalogue fittings</td>
<td>Hose assemblies of average complexity, with copper-brazed fittings; simple tube assemblies</td>
<td>Same as category 2, plus customised parts such as protective coils, silver brazed fittings, spiral hoses</td>
<td>Complex hose or tube assemblies that exceed category 3, with customised parts of high complexity</td>
</tr>
</tbody>
</table>

Just a few days from sketch to your prototype
Working for your success

Leverage the value of a physical prototype to:

• Verify the hose routing in your machine by means of computer-aided 3D modelling based on a physical prototype
• Conduct performance assessment at early stages for functional and field testing
• Optimise your hose assemblies with regard to hose-assembly length, connection configuration and connection ends
• Select and determine the most suitable products from Eaton’s portfolio
• Benefit from our simple, unbureaucratic ordering process
• Benefit from free prototyping, depending on the business case

Field engineering

Optimal routing increases product life time and reliability

Improved routing

A customer-designed solution led to recurring issues due to a bent adaptor nipple

The issue could be resolved by applying a straight nipple and adjusting the routing of the other parts

Field engineering

Customer training

All hose lines must have the same radius and intermediate lengths

• We visited the customer service team on location
• We provided general advice to the service staff on hydraulic hoses & fittings
• We focused on the installation of the hose lines connected to the customer’s vehicle

Correct implementation of the assembly instructions increases product life times
Special capabilities

We put our expertise to work for you:

- 3D multi-bent, customised tube assemblies including control gauges up to size -40 (DN 60) and 3 mm wall thickness
- Monobloc and copper/silver-brazed, 3D bent, customised fittings up to size -32 (DN51)
- Tube assemblies with solderless ends thanks to the Walform technology
- Proof testing of low- and high-pressure hose assemblies

Interested?

Please contact our ProTeam at ServiceCenterHYD@Eaton.com or call +49 (0)7221 369