

Industrial Solutions for

High-Speed Rail

Placing an emphasis on updating and better maintaining our railways will make us more energy-efficient and self-sustaining far into the future.

Whether it's the finesse for stabilizing high-speed trains or the muscle to maintain the rails, Eaton's Hydraulics Group provides system solutions to fit the need. For 60 years, Eaton has been a provider of pumps, motors, valves, and other components to equipment manufacturers.

Eaton hydraulic system solutions and technical services are used worldwide on a broad range of rail equipment, ranging from rail maintenance to control of cars in rail yards. Smooth, controlled muscle is placed exactly where it's needed, while maximizing all available power.

Our worldwide reach, product breadth, engineering strength, and training expertise will put you on a solid track and give you the results you expect, whether they are needed locally, regionally, or globally.

Our extensive network of distributors and regional service centers enables us to offer you parts, service, and support just around the corner—another way Eaton is "Powering Business Worldwide."

Eaton solutions for high-speed rail include:

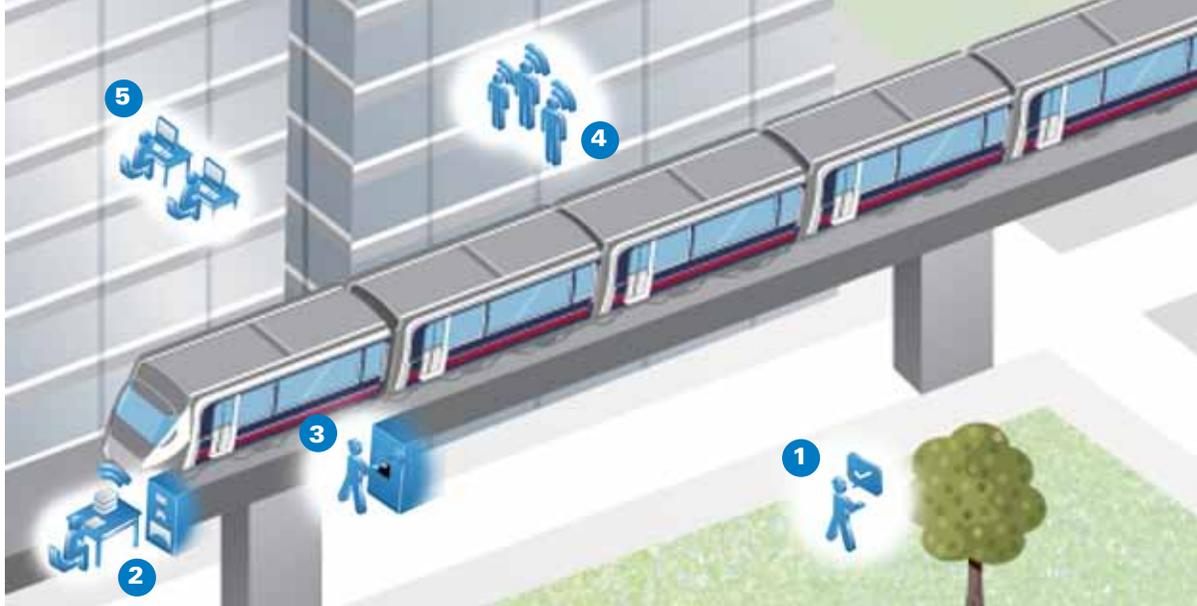
- Cylinders
- Electronics and software for hydraulic control
- Filtration for hydraulic fluids
- Hose and hose fittings
- Motors
- Power units
- Pumps
- Training expertise
- Tube fittings and connectors
- Valves



Powering Business Worldwide

Our industry-leading products and services are designed to deliver:

- Fuel savings
- High productivity
- More power to the job
- Safety



1 Solutions just for you

Because of variances in performance demands, hydraulic systems on mobile equipment can often require customized solutions. Bringing hydraulics expertise to your equipment designs is the fundamental job responsibility of Eaton's Application & Commercial Engineering (ACE) teams that are dedicated to providing application and system engineering support.

- Product selections for complex applications
- Prototype technical support
- System architecture definition and design

2 System control

Linking multiple function controls to achieve smoother operation, better productivity, or fuel/emissions savings can be a complicated undertaking, but not for Eaton. Our electrohydraulic capabilities enable us to bring your mobile equipment to the next level by combining the power density of hydraulics with the controllability of electronics. Eaton controllers and accompanying software deliver electronic functionality that is specific to Eaton hydraulic solutions, making integration easy and reliable.

- CONTROL F(x)TM software
- EFX electronic controllers

3 Smart components

When it comes to building and maintaining roadbeds or putting power to the ground for moving rail cars, getting the job done quickly and on time requires high-functioning machinery. Eaton's intelligent valve technologies increase the capability of machine functions, resulting in greater productivity, higher energy savings, and increased flexibility.

- UltrionicsTM valves

4 Global support

When the choice is Eaton products, local product supply is just around the corner. Eaton provides global product and system expertise through the industry's largest network of channel partners that are dedicated to end-user support.

- After-sale support
- On-time product delivery
- Product recommendations

5 Training expertise

How do you determine the best pump for your application? What's the best method for servicing your system in the field? Good questions, and we have answers. Eaton's world-class training is known as the educational standard for the industry. Each year thousands of engineers, service personnel, and dealers learn how to choose the best hydraulic components, improve hydraulic system plumbing, identify leak points, and much more by attending classes offered by Eaton Hydraulics Training Services. Classes are held at Eaton locations and at customer locations.

- Product courses
- Service and repair courses
- Theory and practical courses

Eaton
Hydraulics Group USA
14615 Lone Oak Road
Eden Prairie, MN 55344
USA
Tel: 952-937-9800
Fax: 952-294-7722
www.eaton.com/hydraulics

Eaton
Hydraulics Group Europe
Route de la Longeraie 7
1110 Morges
Switzerland
Tel: +41 (0) 21 811 4600
Fax: +41 (0) 21 811 4601

Eaton
Hydraulics Group Asia Pacific
Eaton Building
4th Floor, No. 3 Lane 280 Linhong Rd.
Changning District
Shanghai 200335
China
Tel: (+86 21) 5200 0099
Fax: (+86 21) 5200 0400