

Making the world's largest cylinders, designed to perform reliably and precisely in the face of nature's most demanding environments





Eaton's XL cylinders have been deployed on applications exposed to the world's most brutal conditions, including offshore oil exploration, mining, mineral processing, and hydropower dams, to ensure that production stays on track. Our large selection of specialty coatings combined with manufacturing capability up to 22 meter stroke lengths makes Eaton one of the premier large cylinder manufactures in the world.

Decades of Experience in Application Engineering

Creativity, global availability, and experience make the perfect combination for our Application Engineering team. We consider overall loading and kinematics, mounting configurations, seal system design,

imbedded sensor requirements, corrosion protection needs, installation and maintenance practices. They are eager and willing to help you design your application, with 'Expertise You Can Count On.'

Features and Benefits

- Global manufacturing, testing, and service capability
- World class quality and on time delivery
- Experienced project management teams to support the design, manufacturing, testing, and implementation of your system.
- Part of the financially stable, progressive, diversified industrial Eaton Corporation
- Comprehensive size range
 - Bore sizes to 59 in / 1,500 mm
 - Stroke sizes to 866 in / 22,000 mm
 - Hydraulic pressure ratings to 10,000 psi / 690 bar
 - Pneumatic pressure ratings to 250 psi / 17 bar



Complete and Comprehensive Rod Coating Portfolio

Eaton offers a comprehensive line of coatings ranging from Nickel Chromium to Laser Clad, that provide the perfect balance of wear and corrosion resistance to meet your specific application needs. What's more our Innovation Team pursues cutting edge R&D, advancing our work on next generation technologies.

High-end Range	ABC-L1	Eatonite™ ABC-L1 laser cladding is a high performance, field repairable, DNV certified, cylinder rod coating for the most demanding applications and harshest operating environments, that provides uptime and reliability to enhance offshore rig / ship operating efficiency. Premier saltwater corrosion resistance
Mid Range	ABC-H1	Metallic HVOF sprayed coating for highly corrosive and abrasive environments
	ABC-P2	Metal oxide plasma sprayed coating for abrasion and corrosion resistance in fresh and brackish water environments and for Hypos applications
Standard Range	ABC-G2	Galvanic nickel chromium plating with standard wear resistance and increased corrosion resistance.
	ABC-G1	Galvanic hard chromium plating with standard wear resistance and corrosion resistance



Civil Engineering

From turbine governors & intake / radial / miter gates in hydropower dams, to culvert valves in the Panama Canal, to movable bridges, Eaton has the product, global presence, application experience and resources to support existing and new installations.



Oil and Gas and Marine

To weather the harsh conditions of deepwater exploration for offshore drilling, Eaton's ABC-L1 cylinder coating (Eatonite) was specifically designed to improve service life of piston rods for direct acting riser tensioning systems in splash zone applications. Eaton also offers custom designs for wire line tensioners, top drives, and mooring systems.



Wave Energy

Eaton is constantly looking to develop pioneering technology to advance sustainable energy development. In addition to broad applications in hydropower dams and wind-power turbines, Eaton is designing solutions for tidal-power generation.



Primary Metals

Whether it is the control of arc furnace electrodes, slag doors, gantry swivels/ locks, ladle turrets, rolling mill tensioners, or chop gates, Eaton can provide robust and durable solutions with its comprehensive cylinder coating portfolio to excel in the rugged, demanding environment of Primary Metals.

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