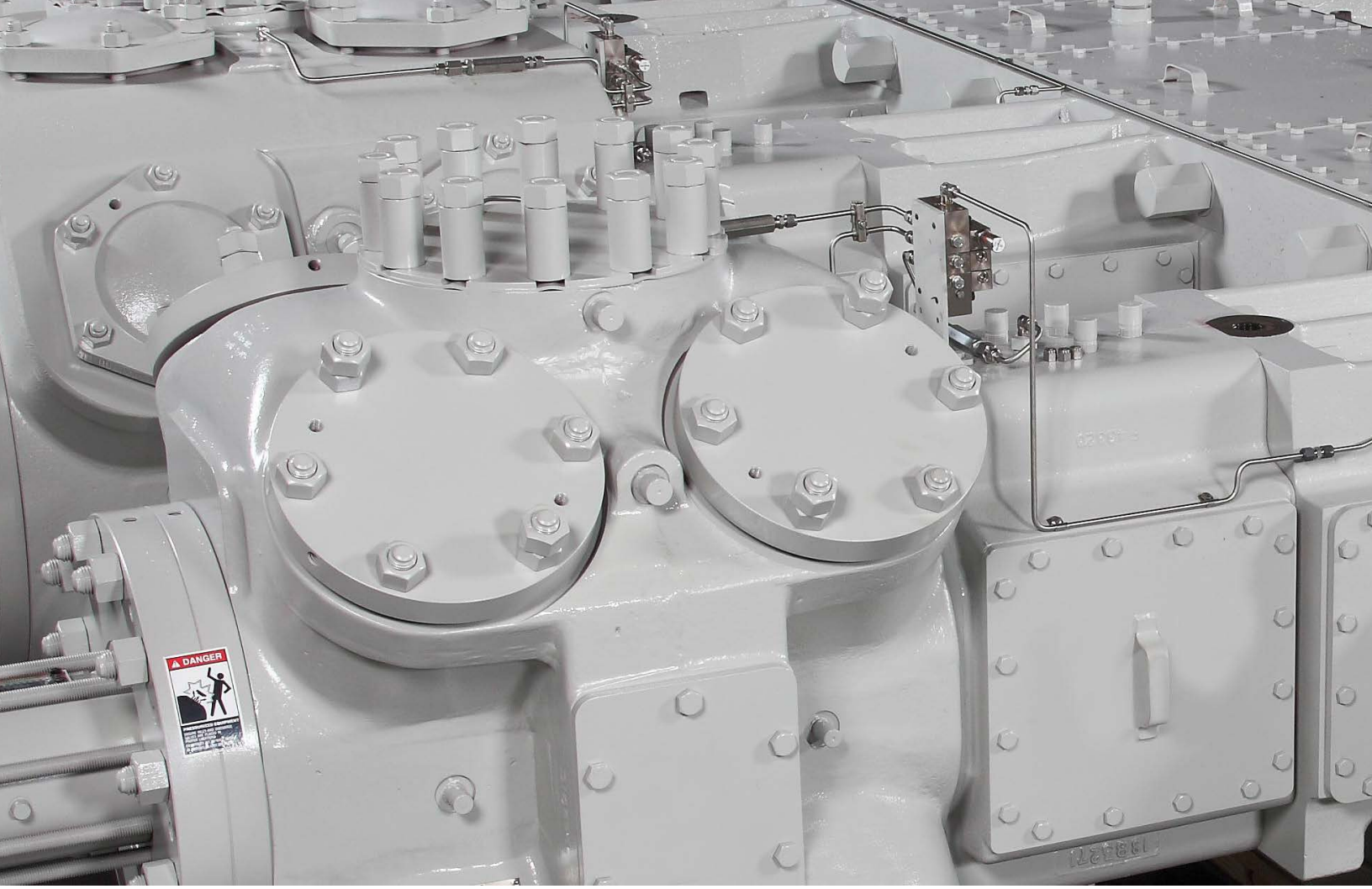

Dresser-Rand HHE-FB

Reciprocating Process Compressor

Our first HHE-class compressor was installed more than 50 years ago. Continuous advancements in technology have allowed Siemens to enhance the HHE's reputation as a highly reliable, heavy-duty process compressor. With more than 3,000 units serving in applications around the world, the HHE process compressor has proven to be an outstanding choice for a variety of applications.

Rugged Performer

Designed to API-618 specifications, the HHE-FB is available in standard stroke sizes of 8.5, 10, 11, or 12 inches (216, 254, 279, or 305 mm) and in both two and four crank-throw configurations.

For long-lasting reliability, the HHE-FB frame is engineered to the highest standards. The fine-grain, cast iron frame provides maximum stability through the use of internally ribbed walls and integral cross-member bearing saddle supports. The frame's rigid design is further enhanced with precision spacer blocks and tie rods at each bearing point. This greatly reduces unwanted distortion that may be caused by horizontal gas and inertia forces. To ensure precise bearing alignment, the bearing saddles are bored in a single set-up.

Optimized Design, Precision-Built

Every HHE-FB is built with a fixed-crank design which reduces couples. Available with either two or four throws, the HHE-FB frame is designed with integral frame extension/ crosshead guides. The result of this design is a compressor that requires minimum foundation size and expense, reduced drive-train torsional stresses, and reduced motor current pulsation and power costs. The crankshaft is forged from high tensile strength alloy steel that is fully stress-relieved and heat-treated. All journals and crankpins are precision-ground and polished to exacting tolerances.

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Rugged, precision-machined aluminum main and crankpin bearings are generously sized for long-lasting service. Bearings are provided on both sides of each pair of crankthrows. All bearings are forced-lubricated per API-618 specifications. Connecting rods are die-forged steel with rifle-drilled passages for positive lubrication of the crosshead pin and bearings.

The nodular iron crosshead is equipped with adjustable top and bottom aluminum shoes. To reduce unbalanced primary forces, balance weights can be added. The crosshead utilizes a multi-bolt torque nut to properly tension the piston rod to the crosshead. This permits tightening without the need for large slug wrenches. All frame and distance piece inspection and service openings are large enough to permit easy access.

Outstanding Cylinder Design and Selection

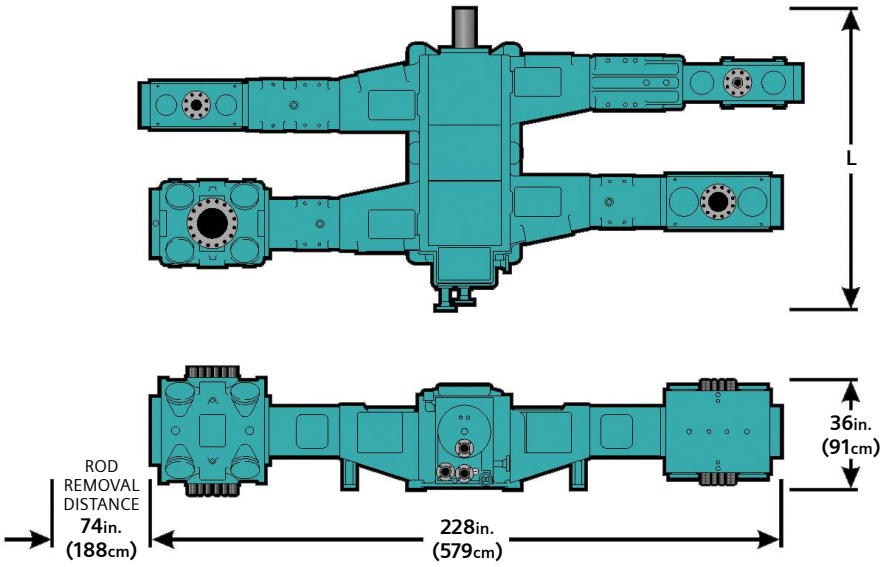
With experience in virtually every type of service, Dresser-Rand business cylinders provide outstanding service and reliability. Our engineering expertise will ensure that each cylinder built for your application will provide maximum performance and reliability with minimum maintenance cost. Cylinder materials include nodular iron, cast iron, cast steel, fabricated carbon or stainless steel, and forged steel. Most cylinders are available for either lubricated or non-lubricated service.

Dimensions

Dimensions provided are typical, and are basis API Type B distance pieces. For API Types C & D distance pieces, add 24 inches (61 cm) to the width dimension and 12 inches (30.5 cm) to the rod removal distance.

Specifications

Maximum HP	2,250 (1,678kW)
Standard strokes	8.5, 10, 11, or 12 inch (216, 254, 279, or 305mm)
Number of throws	2 or 4
Cylinder bore range	3.5 to 28.0 inch (89 to 711mm)



HHE-FB Typical Length (L) Dimension

2 Throw Units:	60 (152)
4 Throw Units:	101 (257)

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