

RECIPROCATING PRODUCTS**BDC-12H****Reciprocating Process Compressor**

The Dresser-Rand business BDC reciprocating process compressor has earned a reputation for superior reliability. With more than 1,200 units shipped worldwide, the BDC process compressor is an excellent choice for a variety of process gas applications.

**Rugged Performer**

The BDC-12H is capable of up to 8,225 horsepower (6133 kW), offering a sizeable solution to many process requirements. Designed to API-618 specifications, the BDC-12H is available in standard stroke sizes of 8.5 to 12 inches (216 to 305 mm) with two, four, or six throws.

For long-lasting reliability, the BDC-12H frame is engineered to our highest standards. The fine-grain, cast iron frame provides maximum stability through the use of heavily ribbed walls and bearing saddles. The frame's rigid design is further enhanced with precision spacer blocks and tie rods above each bearing saddle. This greatly reduces distortion caused by gas and inertia forces. To ensure precise bearing alignment, the bearing saddles are bored in a single set-up.

Designed and Built with Precision

Every BDC is built with a fixed crank design, which reduces couples. The balanced-opposed design provides for as many as six cylinders, requiring a relatively small foundation. The crankshaft is forged from high tensile strength steel alloy, which is fully

stress-relieved and heat-treated. All journals and crankpins are precision ground and polished to exacting tolerances.

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

The standard crossheads are nodular iron, equipped with adjustable aluminum shoes at both the top and bottom. Cast steel crossheads are also available.

All frame and distance piece inspection and service openings are large enough to permit easy access. The frame-to-frame extension, frame-extension-to-distance piece, and distance-piece-to-cylinder bolting are external, making bolt tensioning easy and accurate.

Outstanding Cylinder Design and Selection

Each cylinder is designed with the capability of loading to the frame's maximum allowable continuous rod load. All cylinder bolting, piston nut, and valve differential pressures meet these design criteria. This permits future flexibility if process conditions change or the compressor is reapplied for another application.

Our engineering expertise ensures that each cylinder built for your application will provide maximum performance and reliability with minimum maintenance cost. Cylinder materials include cast iron, nodular iron, cast steel, fabricated carbon steel, stainless steel, and forged steel. Most cylinders are available for either lubricated or non-lubricated service.

Dimensions

Dimensions provided are typical, basis API Type B distance pieces. For API Type C & D distance pieces add 34 inches (86 cm) to the width dimension and 17 inches (43 cm) to the rod removal distance.

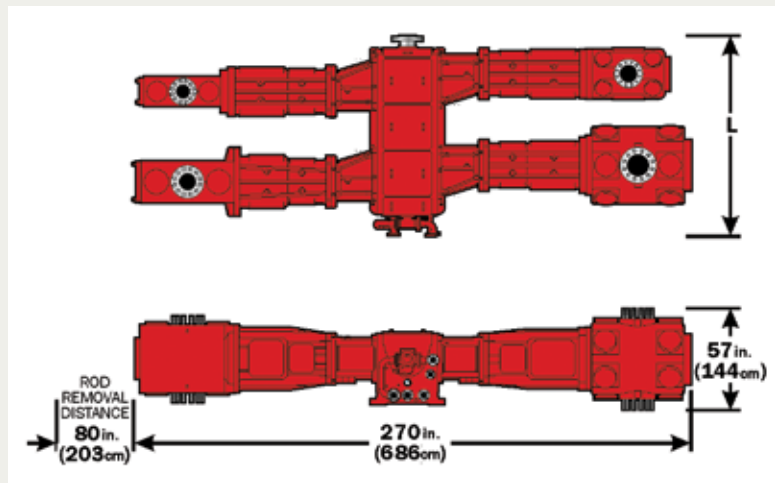
- Average width: 270 inches (686 mm)
- Average height: 57 inches (144 mm)
- Average piston removal distance: 80 inches (203 mm)

Specifications

Maximum HP	8,225 (6133 kW)
Standard Strokes	8.5 to 12 inch (216 to 305 mm)
Number of Throws	2, 4, or 6
Cylinder Bore Range	5 to 38.5 inches (127 to 902 mm)

BDC-12H Typical Length (L) Dimension

Throws	2	4	6
Inches	77	132	187
Centimeters	196	335	475



For a complete list of products and services, visit dresser-rand.com or contact the following:

Corporate Headquarters

Dresser-Rand business

West Memorial Place 1
15375 Memorial Drive, Suite 700
Houston, Texas 77079 USA
Tel: (Int'l +1) 713-354-6100
Fax: (Int'l +1) 713-354-5822

Regional Headquarters

The Americas

West Memorial Place 1
15375 Memorial Drive, Suite 700
Houston, Texas 77079 USA
Tel: (Int'l +1) 713-354-6100
Fax: (Int'l +1) 713-354-5822

EMEA

(Europe, Middle East & Africa)
Dresser-Rand S.A.
31 Boulevard Winston Churchill
Cedex 7013
Le Havre 76080, France
Tel: (Int'l +33) 2-35-25-5225
Fax: (Int'l +33) 2-35-25-5366/5367

Asia-Pacific

Dresser-Rand Asia Pacific Sdn Bhd
Unit 9-4, 9th Floor
Bangunan Malaysian Re
17 Lorong Dungun
Damansara Heights
50490 Kuala Lumpur, Malaysia
Tel: (Int'l +60) 3-2093-6633
Fax: (Int'l +60) 3-2093-2622

This brochure comprises a general overview of the Dresser-Rand business products described herein. It is solely for informational purposes, does not represent a warranty or guarantee of the information contained herein, and is not to be construed as an offer to sell or solicitation to buy. Contact Dresser-Rand business for detailed design and engineering information suitable to your specific applications. Dresser-Rand business reserves the right to modify its products and related product information at any time without prior notice.