


Document No.: D40076 Reference: 160601 Revision:	STORM BRAKES DYNAMIC RAIL BRAKE-JACKING OPTION TECHNICAL DATA SHEET	 Storm Braking Solutions A Division of the Portal Crane Group
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Leading Features – DYNAMIC RAIL BRAKE - JACKING OPTION DRB-J

Item	Description
A. SAFETY	<ul style="list-style-type: none"> • BRELX rail brakes can be released manually by hydraulic pressure. • BRELX design allows for unrestricted spring movement for greater rail height fluctuation still ensuring braking force • Steel armor plate for protection of hoses and fittings from logs • Brake manufactured from good quality structural steel
B. MAINTENANCE ABILITY	<ul style="list-style-type: none"> • Maintenance friendly system • Unique design and spring selection allows for long spring life • Shoe replaceable in field without brake removal from the crane. • Crane jacking ability with nominal lift height 1-3/4" (45 mm)
C. QUALITY & PERFORMANCE	<ul style="list-style-type: none"> • All products are quality inspected as per BRELX standard quality policy. • All BRELX products are hydraulic proof-tested before shipment. • All BRELX products with CSA, UL approved components • Rail brake designed for rated braking force @ 0.79" (20 mm) clearance • Provides consistently greater braking forces at increased clearance • Simple switching from Braking to Jacking mode by electric switches

Standard Technical Design Data – Mechanical Parts

Item	Description
A. DRB-90J Rail Brake	<ul style="list-style-type: none"> • Spring set / hydraulic released rail brakes • Holding capacity : minimum 21,500 lbf (96kN) @ 0.79" (20mm) and $\mu=0.4$ • Brake jacking capacity: 214,000 lbf @ 2000psi, for 1.75" stroke max (950kN @ 14Mpa for ~45mm stroke max) <p><u>PRESSURE:</u></p> <ul style="list-style-type: none"> • Operating < 2320 psi (16 MPa) • Release time: 5 seconds • Set time: Adjustable by flow control valve (factory setting: 3-5 seconds at delivery)
B. CORROSION PROTECTION	<ul style="list-style-type: none"> • Non-structural pins & fasteners are stainless steel • All mechanical parts are zinc plated, powder coated or painted • Standard painting system good for five year warranty <p><u>Frame painting specification:</u></p> <ul style="list-style-type: none"> • Sand blasting, Top Coat: Zinc rich primer: 2-3 mils • 2'nd coat: High Build Epoxy: 4-5 mils • 3'rd coat: Acrylic Urethane: 2-3 mils • Total paint thickness: (min. 8-11 mils) • Standard finished color: <u>Pure Orange (RAL 2004)</u> • Customized finish color: <u>Upon Request (extra charges may apply)</u>
C. DYNAMIC BRAKE SHOE	<ul style="list-style-type: none"> • Dynamic friction material brake lining • Plated bolts
D. SPRING	<ul style="list-style-type: none"> • Springs designed for over 935,000 cycles @ 0.79" (20mm) Stroke
E. RAIL SWEEPER	<ul style="list-style-type: none"> • 304 Stainless Steel bracket
F. SHIELD	<ul style="list-style-type: none"> • 304 Stainless Steel