

Falls® IceBreaker™ Underchassis Scraper



- Moldboard: $\frac{3}{4}$ " x 20" x 10 ft., 17" radius.
- AASHO & Carbide Punch.
- Two (2), $\frac{1}{2}$ " x 6" DBC Cutting Edges.
- May Be Installed In Combination With Plow and Wing.
- $1\frac{1}{2}$ " Cold Rolled Steel Hinge Shaft.
- Hydraulic Accumulator System for Consistent Pressure.
- High-Visibility End Markings.
- 3" Diameter Cushioned Hydraulic Cylinder.
- 500 PSI Pressure Reducing Valve Included.
- Heavy-Duty Construction Throughout.
- Compact Design For Easier Installation and Better Blade Contact Angle.

Specifications

IceBreaker™

Underchassis Scraper

The following specifications are designed to assist you in acquiring a Falls® Underchassis Snow and Ice Scraper or its equal. The dimension within the specifications are intended to indicate the size, type, and quality of unit desired.

Moldboard: Shall be minimum ¾" thick x 20" SEF 40/50 carbon steel smooth rolled to a 17" radius. Moldboard shall be formed to accept double bevel curved cutting edges. Moldboard shall be punched to accept AASHO standard cutting edges as well as standard carbide punching. Moldboard shall come supplied with two (2) ½" x 6" cutting edges. Moldboard shall be drilled to allow mounting the lift cylinder on the left or right side of the chassis frame. Moldboard ends to be clearly marked with reflective tape.

Hydraulic Cylinder: Shall be minimum 3" diameter double acting with 11½" stroke. The cylinder shaft shall be minimum 1½" diameter and shall be coated with minimum 36 hour salt spray chrome. Hydraulic cylinder shall have an operating pressure of 2500 psi and shall be tested for a minimum 7500 psi burst strength. Hydraulic cylinder shall have urethane Poly-pack seals and urethane wiper.

Hydraulic Accumulator: The hydraulic lift cylinder shall be protected with a nitrogen-charged hydraulic piston-type accumulator, 116 cu. in. capacity, to allow scraper moldboard movement due to road surface irregularities. Accumulator shall be precharged to 375 psi. Coil springs for shock abatement are not acceptable.

Pressure Reducing Valve: A pressure reducing valve shall be provided for installation in the accumulator circuit and shall not allow "bleed out" or dumping of oil in the circuit. Maximum pressure not to exceed 500 psi. A liquid-filled pressure gauge, 0-1000 psi, shall be installed in the cab for monitoring.

Mounting Assembly: Hinge shaft shall be minimum 1½" cold-rolled steel. Hanger arms shall be minimum 2¾" OD x 1¹³/₁₆" ID DOM tubing.

Paint: Shall be black.

ID & Warranty: Unit shall be identified with a metal plate riveted to the moldboard. ID tag shall include model, serial number, and manufacturer. 12 month limited warranty.

Options: 10, 11, & 12 ft. moldboard lengths. 1" thick moldboard.

Approved models include Falls IceBreaker Model IB-10A or equal. Non-approved makes and models must contact procurement office or bidding agency a minimum of two (2) weeks prior to bid opening for evaluation.

Specifications are subject to change without notice.

The policy and promise of Little Falls Machine, Inc. is continuing product improvement. Design change and structural alterations may occur without prior notice. Such changes will not sacrifice quality or product integrity.

YOUR DEALER IS:



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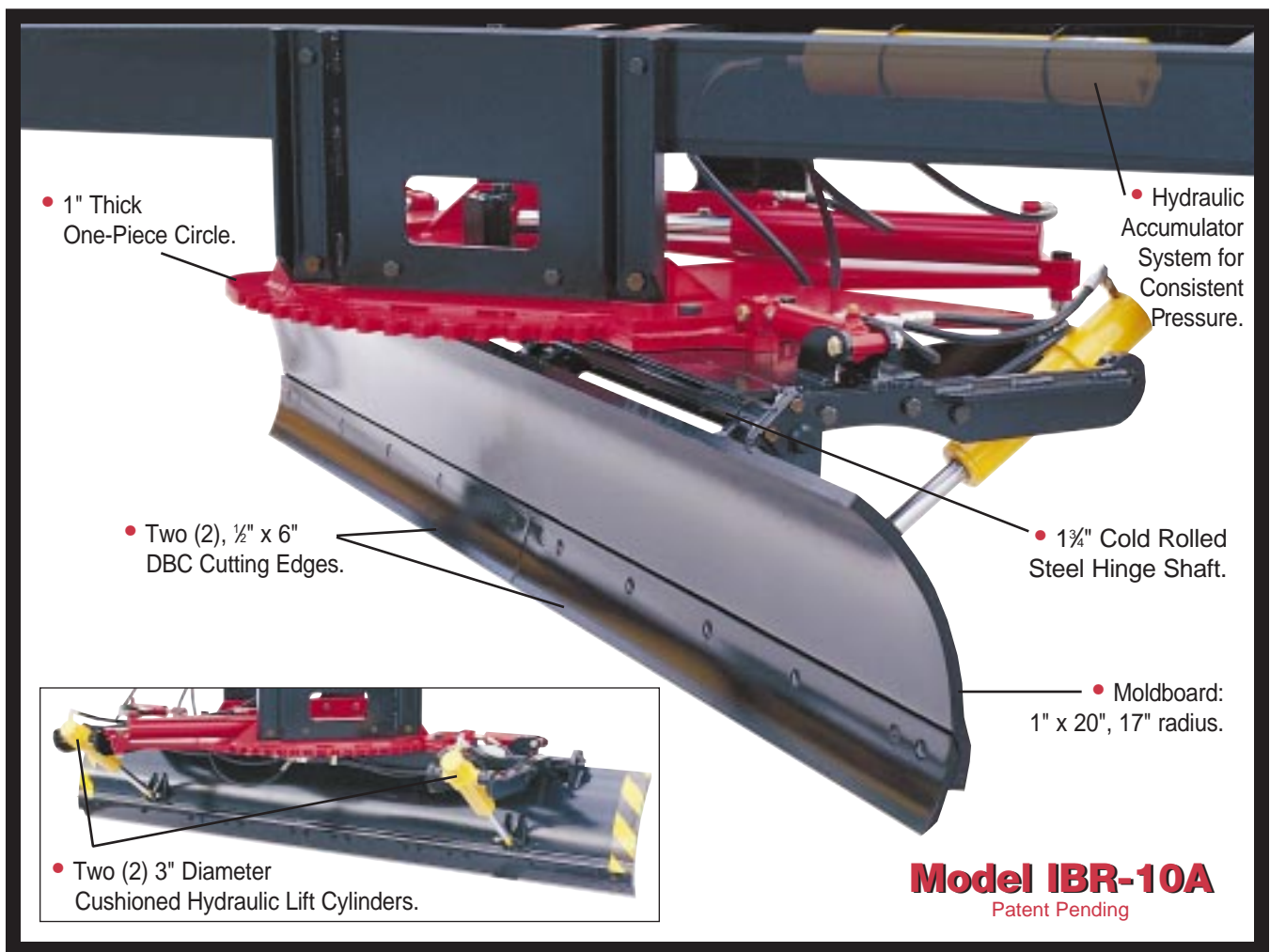
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Falls® IceBreaker™ Reversible Underchassis Scraper



- AASHO & Carbide Punch
- 500 PSI Pressure Reducing Valve Included
- Two (2) Double-Acting 3 1/2" Diameter Reversible Cylinders

- Optional Power Lock Pins Available with Monoblock Sequence Valve
- Compact Design For Easier Installation and Better Blade Contact Angle

Specifications

IceBreaker™ Reversible Underchassis Scraper

The following specifications are designed to assist you in acquiring a Falls® IceBreaker™ Reversible Underchassis Snow and Ice Scraper or its equal. The dimension within the specifications are intended to indicate the size, type, and quality of unit desired.

Moldboard: Shall be minimum 1" thick x 20" SEF heat-treated 40/50 carbon steel smooth rolled to a 17" radius. Moldboard shall be formed to accept double bevel curved cutting edges. Moldboard shall be punched to accept AASHO standard cutting edges as well as standard carbide punched blades. Moldboard shall come supplied with two (2) ½" x 6" cutting edges. Moldboard ends to be clearly marked with reflective tape.

Hydraulic Cylinders: Shall be two (2) minimum double acting 3" diameter ID x 11½" stroke. The cylinder shafts shall be minimum 1½" diameter and shall be coated with minimum 36 hour salt spray chrome. Hydraulic cylinders shall have an operating pressure of 2500 psi and shall be tested for a minimum 7500 psi burst strength. Hydraulic cylinders shall have urethane Poly-pack seals and urethane wiper.

Hydraulic Accumulator: The hydraulic lift cylinder shall be protected with a nitrogen-charged hydraulic piston-type accumulator, 231 cu. in. capacity, to allow scraper moldboard movement due to road surface irregularities. Accumulator shall be precharged to 375 psi. Coil springs for shock abatement are not acceptable. Very important - No exceptions!

Pressure Reducing Valve: A pressure reducing valve shall be provided for installation in the accumulator circuit and shall not allow "bleed out" or dumping of oil in the circuit. Maximum pressure not to exceed 500 psi. A liquid-filled pressure gauge, 0-1000 psi, shall be installed in the cab for monitoring. Very important - No exceptions!

Power Reverse Assembly: Reversing circle shall be minimum 1" thick A-36 steel plate. Circle shall be one (1) piece and shall provide for 45 degrees rotation left or right. Circle shall be equipped with two (2) double-acting hydraulic cylinders minimum 3½" diameter ID x 18" stroke. The cylinder shafts shall be minimum 2" diameter and shall be coated with minimum 36 hour salt spray chrome. Hydraulic cylinders shall have an operating pressure of 2500 psi and shall be tested for a minimum 7500 psi burst strength. Hydraulic cylinders shall have urethane Poly-pack seals and urethane wiper. Hydraulic cushion valve shall be provided.

Mounting Assembly: Hinge shaft shall be minimum 1¼" cold-rolled round steel. Hanger assembly shall consist of ½" A-36 plate steel and 4" x 13.8 lb. car & ship channel.

Paint: Shall be black.

ID & Warranty: Unit shall be identified with a metal plate riveted to the moldboard. ID tag shall include model, serial number, and manufacturer. 12 month limited warranty.

Approved models: Include Falls® IceBreaker™ Model IBR-10A or equal. Non-approved makes and models must contact procurement office or bidding agency a minimum of two (2) weeks prior to bid opening for evaluation.

Options: 10, 11, & 12 ft. moldboard lengths. ¾" thick moldboard. Power locking pins. (see following sample spec)

Power Locking Pins: Shall consist of two (2) spring-loaded, single-acting hydraulic cylinders, 1¼" diameter ID x 1¼" stroke. The cylinder shaft shall be minimum 1" diameter and shall be coated with minimum 36 hour salt spray chrome. Hydraulic cylinders shall have an operating pressure of 2500 psi and shall be tested for a minimum 7500 psi burst strength. Hydraulic cylinders shall have urethane Poly-pack seals and urethane wiper. Hydraulic circuit shall include a mono-block shuttle/selector valve for the smooth operation of the locking pins and to reduce the number of hydraulic connections and potential leaking problems. Reversing circle shall permit no less than twelve (12) lockable positions. No exceptions!

Note: With power locking pins, hydraulic reverse mechanism will be accomplished with one (1) hydraulic cylinder instead of two (2) unless otherwise specified.

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