
Rock Removal Equipment Product Catalogue

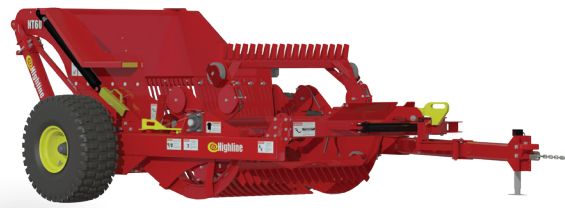


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RR 4300 Rock Rake The Perfect Partner to the NT Rock Picker.

OUR MISSION

Our mission is to design, manufacture and distribute the highest quality, most durable and reliable farm equipment in the world, which is affordable and meets or exceeds the expectations of our most demanding customers.

Highline Manufacturing is a division of Bourgault Industries Ltd. and as such shares a common standard of "pursuing perfection" in their business approach. Highline's shared approach is to develop relevant products of the highest quality that exceed the expectations of our most discerning customers.



NT 78/60 ROCK PICKER



THE NT ROCK PICKER

just hook up and GO!

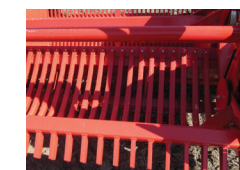
Spring Adjustment/Replacement

Exclusive to the industry, the Highline® coil spring provides uniform loading over the reel operating range combined with the most compact mounting. This ensures that the spring mechanism is protected from rock damage, resulting in years of service. Replacing the springs just got easier with a simple threaded bolt to apply or remove tension to the spring.



The Highline® Tine

The Highline® rock picker tine is designed to follow the reel; this aids in raising rocks while allowing dirt to fall through. As well, the tines are extremely durable as they are hard surfaced on both the top and bottom leading edges.



Drive System

Highline® uses an industry exclusive gearbox that stands the test of time. The hydraulically driven gear case ensures large oil bathed gears set the reel at the desired speed. The hydraulic drive provides the flexibility to turn on, turn off, and reverse the reel from your fingertips.



Why the Highline® Rock Picker is Better?

The Secret is in the Guided Reel:

It is as simple as 1, 2, 3!

1. The bogie wheels follow a special track to guide the reel for improved picking action. When the guided reel travels parallel to the ground surface, it pulls the rocks toward the apron rather than pushing down on the rocks.
2. The guided reel lifts the rocks onto the apron.
3. The guided reel delivers the rocks to the center of the bucket and because the reel is guided it follows the same contour as the apron.

Conventional Picker

Conventional round reels have only a few inches of positive picking action. When the round reel contacts a rock on the downward cycle, rather than sweep the rock towards the apron, it pushes down on the rock. 8" and smaller rocks are often missed because the round reel buries the rock.

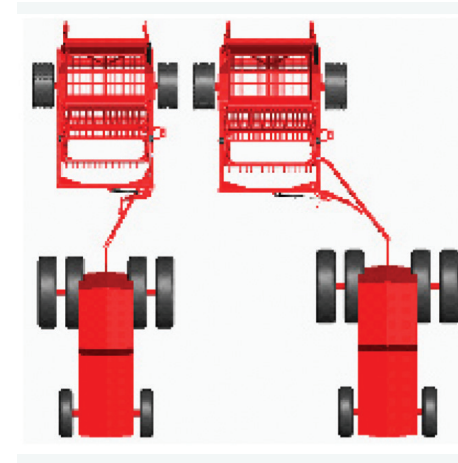


1 Large 8" Bogie Wheels



2 Guided Reel Track

3 Apron



Two Position Hitch

The Highline® hitch design moves the rock picker fully into view of the operator and the entire picking width is outside the tractor tracks. The hitch also advances the rock picker to a new level of transport convenience with a self-locking hitch. The self-locking design doesn't require any pins or wedges; when you get to the field, the transport lock is required to be opened manually, returning to transport position engages the lock.



Durable Box Frame Construction

Highline® is the only rock picker with a box frame construction. The front frame is built high to let rocks in, yet ensure the structure is strong enough to withstand the most difficult rocks that are removed from the field.

High-Lift Design

The High-Lift minimizes wasted space from low flat rock piles by allowing higher more compact piles, or rocks can be transferred directly to a trailer for removal. For fast and convenient rock removal, Highline® rock pickers (NT 78 and NT 60) have a standard dumping height of 84".





NT 78/60 SPECIFICATIONS

	NT 78	NT 60
Width (Picking)	78" (1.98 m)	60" (1.52 m)
Transport Width with tires (machine centered with tractor)	144 ½" (3.67 m)	121 ¾" (3.09 m)
Working Width: To center of tractor (machine is offset to right of tractor)		
Position 1 - Dual Tractor Tires	186 ½" (4.74 m)	165" (4.19 m)
Position 2 - Single Tractor Tires	167 ½" (4.25 m)	147 ¼" (3.74 m)
Transport Length	242" (6.15 m)	245 ¼" (6.23 m)
Operating Length		
Position 1 - Dual Tractor Tires	228" (5.79 m)	228" (5.79 m)
Position 2 - Single Tractor Tires	238" (6.05 m)	238" (6.05 m)
Height	71 ¼" (1.81 m)	71 ¼" (1.81 m)
Dumping Height	84" (2.13 m)	84" (2.13 m)
Weight	7850 lb (3533 kg)	6910 lb (3110 kg)
Tongue Weight	940 lb (423 kg)	820 lb (369 kg)
Bucket Capacity	3.35 yd3 (2.56 m3)	2.57 yd3 (1.97 m3)
Tire Size	21.5L-16.1	16.5L-16.1
Tire Pressure	24 psi (166 kPa)	24 psi (166 kPa)
Minimum Horsepower	90 hp (67 kW)	70 hp (52 kW)
Maximum Horsepower	150 hp (112 kW)	135 hp (101 kW)
Hydraulic Hitch	Yes	Yes
Hydraulic Drive	Yes	Yes

	NT 78	NT 60
Picking Style	Reel	Reel
Number of Bats	3	3
Minimum Rock Diameter	2" (51 mm)	2" (51 mm)
Maximum Rock Diameter	24" (.61 m)	24" (.61 m)
Lift Cylinder	3.5" x 34" (89 mm x 864 mm)	3.5" x 34" (89 mm x 864 mm)
Recommended Reel Speed	@2 mph (3 km) - 23 rpm @4 mph (6 km) - 47 rpm	@2 mph (3 km) - 23 rpm @4 mph (6 km) - 47 rpm
Hydraulic Outlets Required	3	3
Hydraulic Pressure	2500 psi (17238 kPa)	2500 psi (17238 kPa)
Flow Required	18 gpm (68 l/min)	18 gpm (68 l/min)
Frame Rectangular Tubing	6" x 4" x ¼" (152 mm x 102 mm x 6 mm)	
Replaceable Tines	Yes	Yes
Hard Surfacing	Reel Arm Teeth & Apron Tines (Standard)	
Bucket Bottom is Grated	Yes	Yes
Bucket Back is Grated	Yes	Yes
Clearance Lights	Yes	Yes

While every effort has been made to ensure that the information is accurate/current at the time of production, all specifications are subject to change.

For the latest product information, please visit: www.highlinemfg.com.

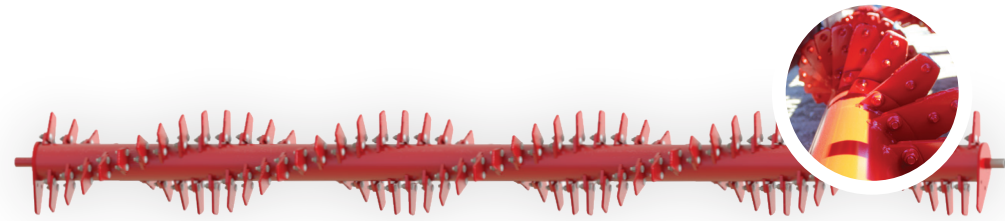
RR 4300 ROCK RAKE



THE RR 4300 ROCK RAKE clears rocks - SIMPLY!

The RR 4300 rock rake is the perfect partner to the NT 60 and NT 78 rock picker! The RR 4300 rock rake makes fast work of moving rocks into a narrow row that can then be picked with the NT 60 or NT 78 rock picker. The stand-alone rock rake can keep moving while the rock picker is stopped to unload, resulting in more rock removed from a larger area in less time.





The Rotor - the Heart of the Rock Rake

The RR4300 rock rake has an adjustable raking angle of 10 degrees to 30 degrees with up and down positioning for efficiency and convenience. The teeth of the rock rake have a hard surfaced face as well as being designed to be reversible and replaceable.



Transport and Work Mode

Hydraulically switch between transport and work mode with ease!



Transport



Work

RR 4300 SPECIFICATIONS

Raking Width (at 20 degrees working position)	160" (4.07 m)
Rotor Length	171" (4.34 m)
Rake Angle	10 degrees minimum 30 degrees maximum
Max. Rotor rpm	154
Transport Width	97" (2.48 m)
Working Width - 20 degrees	160" (4.06 m)
Transport Length	239" (6.07 m)
Operating Length - 20 degrees	252" (6.42 m)
Height	72" (1.84 m)
Weight	3990 lb (1810 kg)
Tongue Weight	Transport - 1256 lb (570 kg) Working - 1036 lb (470 kg)
Tire Size	11L - 15F

Tire Pressure (max.)	60 psi (413.7 kPa)
Hydraulic Drive	Yes
Minimum Horsepower	65 hp (49 kW)
Maximum Horsepower	75 hp (56 kW)
Hydraulic Outlets Required	3
Hydraulic Pressure (max. relieved)	3000 psi (20,684 kPa)
Hydraulic Flow Required	20 gpm (76 l/min)
Hydraulic Hitch	Yes
Hydraulic Drive	Yes
Raking Style	Rotor
Number of Replaceable Teeth	100
Replaceable and Reversible Teeth	Yes
Hard Surfacing	Rotor Teeth

Note: Right/left hand is determined by sitting in the tractor seat looking forward

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