



## ROCK REMOVAL EQUIPMENT



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**WARINGA** 



# NT 78/60 ROCK PICKER

for all your rock picking needs.



## JUST HOOK UP & GO!

### Spring Adjustment/Replacement

Exclusive to the industry, the Highline coil spring provides uniform loading over the reel operating range combined with compact mounting. This ensures that the spring mechanism is protected from rock damage, resulting in years of service. Replacing the springs is 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 whilst allowing dirt to fall through. The tines are also 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.







For over 60 years, the Highline Rock Picker has proven itself as a machine that delivers year in, year out. Designed with few moving parts, as well as extremely durable components, the Highline Rock Picker remains rock solid.

## WHY IS THE HIGHLINE ROCK PICKER BETTER?

### The Guided Reel

1 Large 8" Bogie Wheels

2 Guided Reel Track

3 Apron



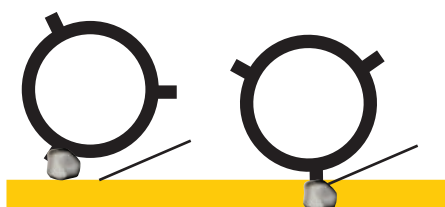
1 The bogie wheels follow a special track to guide the reel for improved picking action. When the guided reel travels parallel to the ground surface, it pulls the rocks toward the apron rather than pushing down on the rocks.

2 The guided reel lifts the rocks onto the apron.

3 The guided reel delivers the rocks to the centre 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.



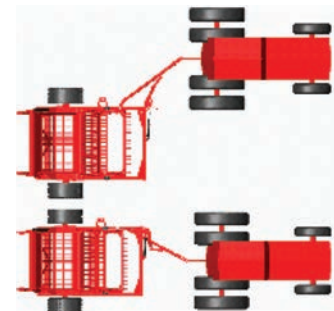




## EXCLUSIVE FEATURES

### 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 Construction

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



### High-Lift Design

The High-Lift design feature provides options for operators to get rocks out of the way or off the field. The High-Lift minimises 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 Picker has a standard dumping height of 2.13m.







## NT ROCK PICKER SPECIFICATIONS

MODEL	NT 78	NT 60		
Width (Picking)	1.98 m	1.52 m	Hydraulic Hitch	Yes
Transport Width with tyres (machine centred with tractor)	3.67 m	3.09 m	Hydraulic Drive	Yes
Working Width: To centre of tractor (machine is offset to right of tractor)			Picking Style	Reel
Position 1 - Dual Tractor Tyres	4.74 m	4.19 m	Number of Bats	3
Position 2 - Single Tractor Tyres	4.25 m	3.74 m	Minimum Rock Diameter	51 mm
Transport Length	6.15 m	6.23 m	Maximum Rock Diameter	0.61 m
Operating Length			Lift Cylinder	89 mm x 864 mm
Position 1 - Dual Tractor Tyres	5.79 m	5.79 m	Recommended Reel Speed	@2 mph-23 rpm @4 mph-47 rpm
Position 2 - Single Tractor Tyres	6.05 m	6.05 m	Hydraulic Outlets Required	3
Height	1.81 m	1.81 m	Hydraulic Pressure	2500 psi (17,238 kPa)
Dumping Height	2.13 m	2.13 m	Flow Required	68 l/min
Weight	3,533 kg	3,110 kg	Frame	152 mm x 102 mm x 6 mm
Tongue Weight	423 kg	369 kg	Rectangular Tubing	
Bucket Capacity	2.56 m <sup>3</sup>	1.97 m <sup>3</sup>	Replaceable Tines	Yes
Tyre Size	21.5L-16.1	16.5L-16.1	Hard Surfacing	Reel Arm Teeth & Apron Tines (Standard)
Tyre Pressure	24 psi (166 kPa)	24 psi (166 kPa)	Bucket Bottom is Grated	Yes
Minimum Horsepower	90 hp (67 kW)	70 hp (52 kW)	Bucket Back is Grated	Yes
Maximum Horsepower	150 hp (112 kW)	135 hp (101 kW)	Lights	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](http://www.highlinemfg.com).



# RR4300 ROCK RAKE

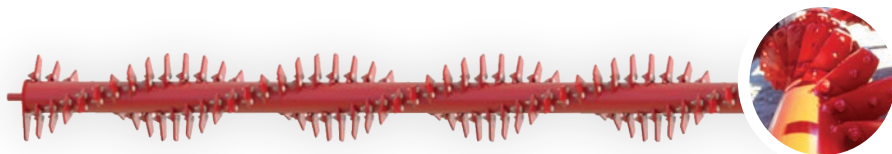
Clears rocks simply.



The RR4300 rock rake makes fast work of moving rocks into a narrow row that can then be picked with the NT 78/60 rock picker.

## PERFECT PARTNER TO THE NT 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!







## RR43000 ROCK RAKE SPECIFICATIONS

Raking Width (at 20 degrees working position)	4.1 m	Minimum Horsepower	65 hp (49 kW)
Rotor Length	4.3m	Maximum Horsepower	75 hp (56 kW)
Rake Angle	10 degrees minimum 30 degrees maximum	Hydraulic Outlets Required	3
Max. Rotor rpm	154	Hydraulic Pressure (max. relieved)	3000 psi (20,684 kPa)
Transport Width	2.5 m	Hydraulic Flow Required	49.2 l/min
Working Width - 20 degrees	5.0 m	Hydraulic Hitch	Yes
Transport Length	6.2 m	Hydraulic Drive	Yes
Operating Length - 20 degrees	6.4 m	Raking Style	Rotor
Height	1.8 m	Number of Replaceable Teeth	100
Weight	1,806 kg	Replaceable and Reversible Teeth	Yes
Tongue Weight	Transport - 569 kg Working - 469 kg	Hard Surfacing Rotor Teeth	Yes
Tyre Size	11L - 15F		
Tyre Pressure (max.)	60 psi (413.7 kPa)		
Hydraulic Drive	Yes		

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

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# HIGHLINE MANUFACTURING

**Highline's 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 their customers.**

Highline Manufacturing's early roots as a rock picker manufacturer began on a family farm near Saskatchewan, Canada. It was in the early 1960's that the concept of making a rugged and durable rock picker took shape on the Bussiere farm just east of Vonda, CA. Based on the rock picker concept, Highline Manufacturing was originally called Rock-O-Matic Industries. Today their facility is still located in Vonda, SK and is modernised with equipment and processes to produce world class equipment.

With domestic and international customers around the world, including a long history of providing product to the Australian market, Highline believes it is important to understand the demand of each region and adapt designs to fit those customers. This belief has built a reputation in the industry for building durable products based on innovation, capabilities, and the feedback from the end users.

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