



Laser Scraper Portfolio



BMS Laser Scrapers

The unique features and robust construction of the BMS Laser Scraper provide the perfect package for every levelling application.

- Laser levelling field work
- 3D GPS field levelling
- Opti-Surface 3D levelling
- Channels and drains
- Headlands and roads
- Levee banks and pads

Match the BMS Laser Scraper with a Trimble Laser or GPS Control System to increase yield and solve your water management problems such as surface drainage and irrigation.

Large Sweep Apron

The apron sweeps up all the soil dragged in front of the cutting edge to maximise soil shift efficiency.

Positive Ejection Action

The direct push door ensures easy unloading of the scoop in any soil conditions.

Oscillating Wheels

The proven oscillating wheel assembly delivers smooth operation and precision grading.

Cross Leveller

Allows the scoop to be tilted left and right to maximise load and cut batters.

Max Cut With One Escort

This unique design offers a cutting width of 3.4 metres with an overall width less than 3.5 metres allowing transport with only one escort.

Rugged Reliability

The scoop is heavily constructed and well engineered, utilising quality components and best practices.

Level Lift Rippers

Loosens the soil in hard pan areas to allow easy loading in any situation including rip and load simultaneously.

Specifications



BMS Laser Scraper 3.5

Cutting Width	3.4 m
Overall Width	3.49 m
Carry Capacity	7.5 m³
Weight	8 ton



BMS Laser Scraper 4.0

Cutting Width	3.9 m
Overall Width	3.99 m
Carry Capacity	8.6 m³
Weight	10 ton



O'Bryan HD Ejektor

The new O'Bryan HD Ejektor series scraper has been developed to meet the requirements of all types of earthmoving and land forming operations

- Channel pads
- Levee banks
- Clay and sand spreading
- Drains and road construction

The HD Series with a greater carrying capacity, ease of loading and unloading, regardless of soil types and moisture content. Cushion hitch is standard on all models.

Simplicity of Operation

Compatible with all types of machine control equipment allowing full advantage of the latest LASER and Global Positioning System Technology.

Adjustable Pull Height

The pull has the capability to be adjusted in height to suit all makes of tractors regardless of pull types. Also a cushion hitch is now built into the front drawbar to smooth out that rough terrain.

Rear Rippers Level Lift

Increases productivity in areas where a hard surface exists. Ability to cut and rip at the same time. Shear pins on all rippers.

Reversible Cutting Blades

The cutting edge is made up in four sections each with the full capability of height adjustment and are also fully reversible for longer life.

Carry Apron

Enables the operator to pick up a load and carry it to positions for pad or road construction, it has also been enlarged for a greater capacity.

Quality Finish

Heavy duty all welded construction, which is field proven by contractors and farmers. New rounded and tapered surface design to reduce material build up. The laser mast overload can be removed to facilitate bucket loading.

Strong and Reliable

Cross leveller is standard on all models. Super strong rocker assembly compliments the 15 tonne removeable axles, which rotate a 25 x 17.3 pc wheel with 20.5 x 25 Hard Rock Lug tyres.

Specifications

Ejector HD Series 4.0		Ejector HD Series 4.5	
Overall Width	4.0 m	Overall Width	4.5 m
Overall Length	9.45 m	Overall Width	9.45 m
Overall Height	1.96 m	Carry Capacity	1.96 m
Weight	12.5 ton	Weight	13 ton
Cutting Width	3.66 m	Cutting Width	4.17 m
Carry Capacity	14.3 m ³	Carry Capacity	16.4 m ³



Horwood Bagshaw Grader Scraper

Professional land forming for improved profits from your irrigated land

Safer, Smoother, High Speed Operation

The Horwood Bagshaw Grader Scraper features staggered walking wheels which allow the Grader Scraper to follow ground contours whilst avoiding sudden dips into pot holes or gutters. The result - a smoother, faster ride giving you superb surface finish with reduced wear and tear.

A Frame Built to Last

The rear frame is fabricated from top quality, structural grade rectangular and square hollow sections with strengthening gussets fitted to the corners of the rear frame. Offering extreme resistance to deflections and twisting, this construction significantly increases machine life and enables you to work with greater accuracy. Transport is made easy by a high road crown clearance of 400mm in the middle.

Heavy Duty Bucket Construction

The bucket is constructed from a single plate of steel to support the side plates. This design offers improved strength, durability and deflection resistance for superior support, season after season. And unobstructed clearance to the bucket floor assists in keeping it fully filled.

Patented Apron for Greater Soil Carrying Capacity and Less Spillage

The unique, patented apron allows larger volumes of soil to be loaded into the bucket. Soil spillage is

eliminated by aligning the apron lip, cutting edge, and main machine height pivot points, so the apron lip remains closed even when the loaded machine is lifted to full height. The apron also incorporates features to increase durability and save you downtime and money.

The apron roller has a pair of flanged nylatron bushes which reduce the need for frequent lubrication. Skirt plates and corner nose pieces that protect the machine are replaceable. Bisalloy apron roller tracks are also replaceable, and apron top pivot pins are supported on double thickness clevis plates using longer pins.

Cutting Edges with Multiple Mounting Positions For Longer Life

Made from alloy steel for superior strength and durability, the sectioned cutting edges can be mounted in several positions to optimise material usage as each edge wears. And for maximum rigidity, the cutting edge support bar is braced diagonally from its middle to both corners.

Front Mounted Rippers Make the Job Easier

Whether grading, travelling between fields or conducting routine maintenance, your job will be easier with height controlled rippers. The main machine lifts rams control the front mounted rippers which are raised and lowered using their hydraulic

rams. For transport, manual safety lock pins are provided for securing the rippers in their retracting position.

Hardened Pivots

All pivots are filled with heavy duty (hardened or case hardened) replaceable bushes and feature readily accessible grease nipples. The central pivot is made from carbon steel and can be raised significantly for clearance and ease of maintenance.

Heavy Duty Pins

The pins used in construction are designed for greater strength and longer life. The central pivot pin is made from carbon steel. The outer pins are alloy steel.

Longer Bearing Life

The Grader Scraper's unique wheel hub assemblies use large, high grade taper roller bearings which are oil filled to reduce roller bearing temperatures. So you get more life from your wheel bearings and incur less maintenance and downtime.

Hydraulic Circuits For Minimum Pressure Loss, Maximum Durability

You can expect steady, reliable and easy movements from the Grader Scraper. Hydraulic circuits utilise large steel pipes and double wire braid hoses to ensure hydraulic oil is conveyed to each ram with a minimum of pressure loss and with maximum durability. So there's no jerking, no machinery failures caused by a sudden loss of pressure and no unnecessary wear and

tear.

Hydraulic hoses and pipes are located within the protected width of the machine frame to provide improved durability.

Harder working hydraulic rams with replaceable brushes

You can rely on your rams under all conditions. The heavy duty industrial construction is filled with hardened carbon steel pins. The pins are retained in the ram clevises and only rotate in the replaceable bushes in the mount lugs.

This extends the machine's life and allows simple, easy maintenance.

Greater control over gradients

When you're working on a sloping field you need more flexibility. The Grader Scraper's cross leveller allows you to either trim or cut a gradient.

Easy to operate

The bucket and apron are both operated in sequence by a pair of large diameter rams. To ensure correct operation and avoid operator error, the sequence is controlled by a pair of sequence/overcentre valves.

Move twice the load

4.2m and 4.8m models can be tandem towed by the one prime mover. This means you can move twice as much material per load; saving you time and operating costs.

Specifications

	12'	14'	16'	14' Tandem	16' Tandem
Cutting Width	3.66 m	4.27 m	4.88 m	4.27 m	4.88 m
Capacity Struck	6.1 m	9.5 m	10.8 m	19 m	21.6 m
Capacity Headed	9 m	14 m	16 m	28 m	32 m
Weight Unladen	7 ton	10.3 ton	11 ton	20 ton	21.4 ton
Weight Distribution					
Drawer Bar	40%	26%	26%	13%	13%
Scraper Wheels	60%	74%	74%	87%	87%
Wheel Equipment					
Type	9 x 20	9 x 20	9 x 20	9 x 20	9 x 20
Number	6	8	8	16	16
Ripper Equipment					
Number of Tynes	10	12	14	12	14
Width	3.8 m	4.6 m	5.2 m	4.6 m	5.2 m
Length	8 m	9 m	9.5 m	18 m	19 m
Height	1.7 m	1.7 m	1.7 m	1.5 m	1.5 m
Hydraulic Requirements	4 pairs	4 pairs	4 pairs	4 pairs	4 pairs
Min. Power Requirement	250 HP	300 HP	400 HP	360 HP	400 HP