

Precision Grading Machine

**Quick and Easy
to Learn to Operate**

With Self-Leveling Assist

Saves Time, Money, and Man-Power

***NEW* technology**

Innovative design

JD Layton GradeMaker II



Built under US Patent # 8813864

JD Layton GradeMaker II

Setting a *New* Standard

In the Commercial Grading and Paving Industry.

Tractor Option

Feature

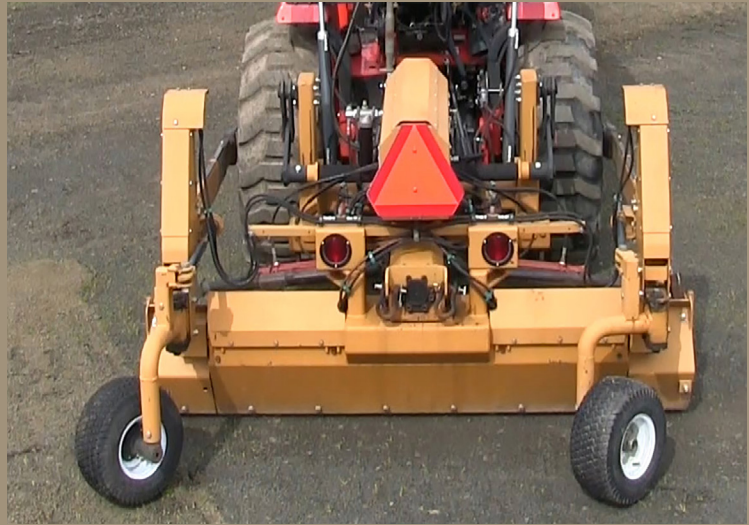
Can be installed on any Tractor with Cat 2 or Cat 3 Hitch System and 50-130 HP & WT 5000#-14000#.

Advantage

Tractor and Blade are not an integral unit allowing the Tractor to be purchased, leased or rented, from your choice of Type & Distributor.

Benefit

Low investment Tractors can be selected to fit your production needs and the financial options available, also will be easy to upgrade Tractors as your needs change.



Self Leveling Blade

Each Side independently

Feature

Self Leveling Blade Support System with easy depth adjustment by the operator or other control system.

Advantage

Easy to learn to operate. The operator can quickly develop a high degree of skill required for accurate precision surface grading.

Benefit

Multiple people in your company can become operators, allowing a backup for personnel emergencies and saving operator training cost.

Trailing Wheel In-Out

Feature

Rear Caster Trailing Wheels can be extended outside of the cutting bit allowing use of a Grade Reference previously established, (Curbs, Gutters, Slabs and previous passes.)

Advantage

Perfect matching to existing, established grade references, also curbs and gutters for precise exposure dimensions.

Benefit

Faster finishing time while maintaining accurate grade.



Transport Methods

One man, one machine, one move-in. Under 26,000#, requires a one ton dually preferred, or 3/4-1 ton single towing vehicle and a 17-20 thousand pound trailer (tilt preferred.) This method does not require a driver w/CDL in most states. (Check CDL requirements in your state.)

One man, two + machines, one move in Over 26,000# could be any size dump truck and multiple choice of trailers, including those which can transport multiple pieces of equipment including compactors. Drivers must have a CDL.



Blade Angle

Feature

Blade Angle can be set by the operator at the Control Console, while the **Blade Wings** will automatically maintain alignment with the centerline of the Tractor.

Advantage

While moving material from high's to low's, the material can also be moved sideways. During side slope grading the blade angle retards material from sliding down the hill.

Benefit

Reduces Tractor & Blade time for finishing the grade.

Blade Wings

Feature

Blade Side Wings are adjustable by the operator anytime either while the Tractor is stopped or in motion.

Advantage

Blade Wings can be moved independently, out or in, for grading close to and around obstacles. Can be adjusted for a grading width of 8-11 feet.

Benefit

Significant Hand Labor Savings by machine finishing close to job site obstructions. The blade can be set for grading driveways, 8-11 feet wide, with one pass. Multiple pass grading can be done with less passes by setting the blade width to match the job.



Scarifier System

Feature

Heavy Duty Scarifier unit is controlled by the operator and can be set for precise soil penetration, which is maintained by the self leveling system.

Advantage

By accurate control of the soil penetration only the soil which needs removed, needs to be disturbed.

Benefit

Saves re-grading and re-compaction time plus less wear on the equipment.



Gauges

Each side of the Blade has a reference gauge which illustrates the depth position of the Blade and is used by the Operator for setting the Blade depth for initial starting position even while the Tractor is moving back for making another pass forward. Or may also be used for the first start of forward tractor movement. Reference gauge may also be used by the Operator for minor adjustments of Blade depth while in the process of grading. Gauges are easy to see and have numbers for quick reference.



(Optional) Laser Targets Plus

When grading on a flat plane, targets can be quickly adjusted on towers, for one or both sides of the Blade and can be used by the Operator to maintain constant grade control, by observing the targets and making the adjustments necessary.

Hyd. Depth Control valves are pre-wired for adding computer equipment for automatic grade control.

(by Topcon or Trimble)

Estimated cost aprox. \$10,000+

GPS Control can be installed using the same laser pre-wired system but is very expensive and can be a serious problem when working around buildings and other obstacles, which will block GPS signals. Add a 300 ft range remote control for depth adjustment.





Electric Controls

12v Electric Toggle Switches

All switches are high quality and O Ring sealed for weather and longevity and are mounted conveniently for the operator. All toggle switches are identical and can be used in any of the switch positions.

Dual Control Panel (Boxes)

Are adjustable, for Operator comfort, by moving the left & right side independantly, by rotation, and for. and aft., and sideways movement. The Blade Angle Switches are rotary types so the switch rotation corresponds to the blade rotation.

12v. Relays & Solenoid Hydraulic Valves

12v. relays operate the solenoid hyd. control valves and are powered by the toggle & rotary switches using low amps for reliability & long life and are all the same (available at auto parts stores (IE. NAPA.) All hyd. valves are standard components by Vickers, Nache, and Hydraforce and manifold-mounted for easy replacement or can be moved from a non-vital function, like Scarifier, to a blade control for field replacement. All blade control components for field replacement can be provided in a package which could be stored in a container the size of a lunch pail and none are propriatory.



Removal

after installation

The blade can be removed in less than 30 minutes and then re-installed in about the same amount of time, allowing you to use your tractor for any other 3 pt hitch implement. (ie. snowblower, mower,etc.)

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SPECIFICATIONS

Working	Side Wings In 95 in.	Side Wings Out 132 in.
Transport	Side Wings In 97 in.	N.A.
Moldboard (Blade)	High Strength Steel	Pivot Mounted
Height	19 in.	Cutting bit Reversible
Thickness	5/16 in.	Re-enforced
Angle	Clockwise approx. 20 Degree	Counter Clockwise approx. 20 Degrees
Power	Hydraulic	Twin Cylinders
Support	Sliding Bridge Arm System	With Hydraulic Depth Cylinder
Side Wings	Hinge Mounted	Hydraulic Powered
Height	16 1/2 in.	Cutting Bit Reversible AR400
Thickness	15/16 in.	High Strength
Length	27 in.	In & Out Travel 45 Degrees
Sliding Bridge Arm (Front)	Tractor Wheels Attachment	1 15/16 in. Ball Bearing
(Rear)	Trailing Wheels (Caster mounted)	18x8.5x8 8 Ply Tires w/ Taper Roller Bearings
Scarifier	6 Shanks with Replaceable Teeth	Working Width 46 1/2" Hyd. Power. Cutting Depth 4 in.
Rear Wheel	Hyd. Power, Up & Down 11 in.	Hyd. Power, In & Out 16 in.
Control Console	Dual Controls for all Functions	Controls mounted on each side of the Operator
Blade Depth	12 Volt Electric Solenoids (Both Sides)	Remote Hand Held 300 ft. Range (Optional Accessory)
Tractor Hitch	Category 2 Standard	Category 3 Optional
Tractor Size	Min. HP 50, Max HP 130	Min. Wt. 5000#, Max Wt. 14000#
Tractor Hyd. Supply	Open or Closed Center System	Hyd. Oil Supply 1800 P.S.I. and 4 G.P.M. Min.
Shipping Weight	Tractor Blade Complete 3000#	Crated Weight By Request
Color	California Copper (Yellow)	Optional Colors Available with Custom Order

Contact the factory With the Make, Year and Tractor Model used for initial installation.

CALL Jack Layton TODAY! 503-781-8232
Learn how our GradeMaker II can make MONEY FOR YOU!

***JD Layton GradeMaker II* Perfecting The Grade**
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