

Degelman

PRO-TILL[®]
HIGH PERFORMANCE TILLAGE

33/40

PRO-TILL[®] 40

and CULTIVATION

33/40



WE'VE CREATED

A Revolution in Tillage. Pure and Simple.

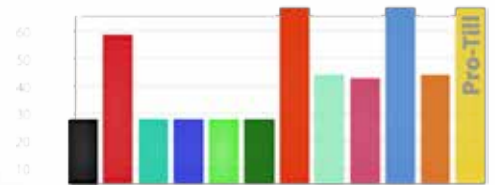
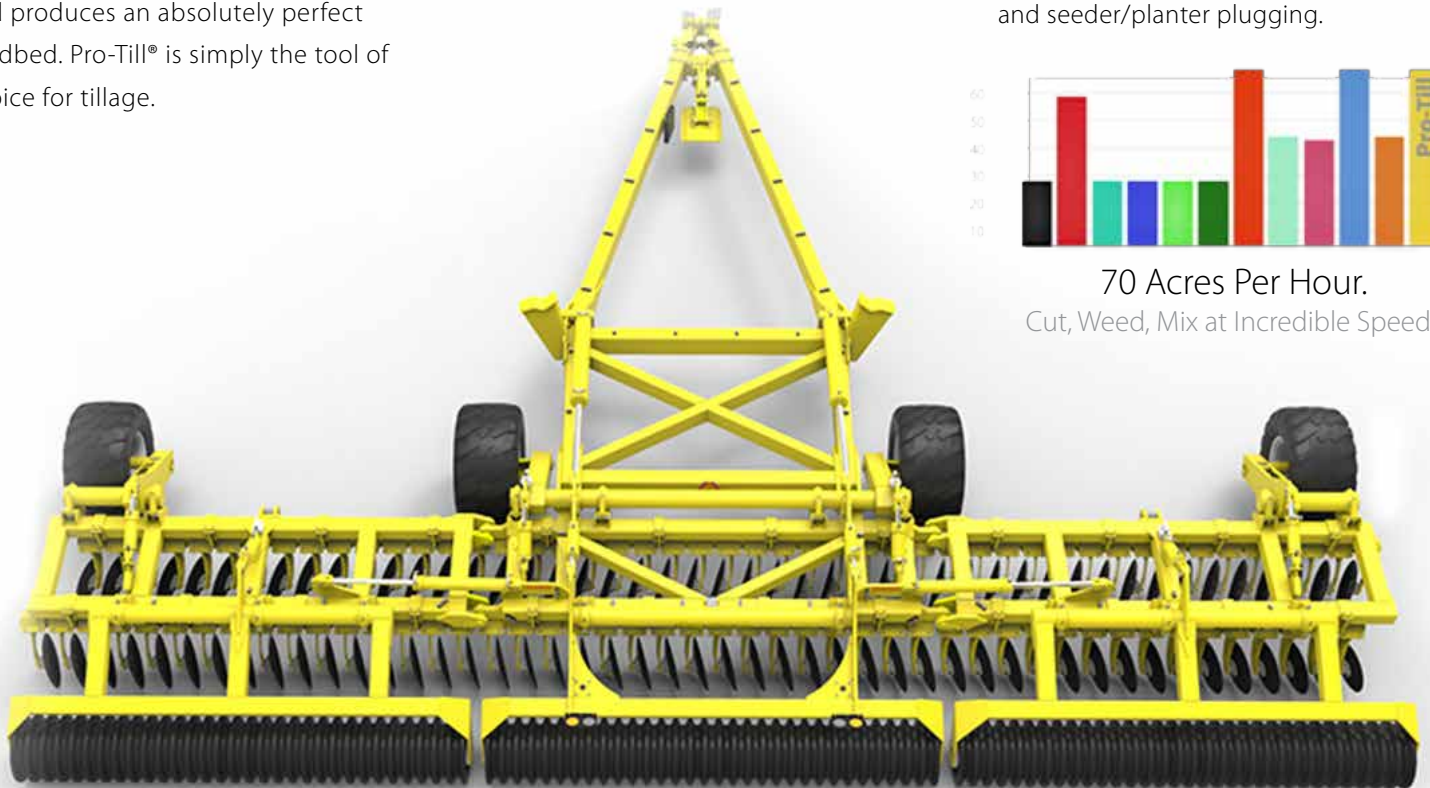
Introducing Pro-Till® by Degelman. The fastest and most versatile piece of tillage equipment you will ever own. Pro-Till® shreds heavy fall residue, opens up spring fields, levels ruts, destroys clods and produces an absolutely perfect seedbed. Pro-Till® is simply the tool of choice for tillage.

Degelman Simplicity

Degelman designers are passionate about getting it right. Farm tools with the least amount of moving parts will simply last longer. Degelman is renowned for building overbuilt and under complicated equipment. Less is always more.

Control Residue

The Pro-Till shreds residue at speeds over 10 mph, up to three times the speed of a traditional cultivator, while ensuring uniform distribution of residue to eliminate problems such as uneven and delayed emergence, hair pinning, erosion and seeder/planter plugging.



70 Acres Per Hour.
Cut, Weed, Mix at Incredible Speeds



Leading Edge

Conventional discs are limited by their ability to process residue and level properly. They plug quickly during wet seasons, are limited in speed, cannot resist rocks and with deeper tillage, have a tendency to bring clay soil to the surface. Most importantly, they fail to leave a field ready to seed. Pro-Till combines high-speed, aggressive tillage action with micro-ridge rollers to not only process residue but to create a seedbed quality field finish. In a single pass, you're ready to plant.

Degelman Tough

Pro-Till is built strong and heavy to handle the most difficult crop residues in the toughest of field conditions. Our patent pending design combines strength and simplicity with independent disc arms, small diameter shallow disc, maintenance-free rubber suspension, a sturdy frame and consolidating rollers, Pro-Till slices through residue as never seen before and will cut, weed, throw, mix and level soils at incredible speeds, usually in one pass.

Level Ruts, Instantly

Today's heavy tractors, trucks and sprayers, create deep, compacted ruts that restrict yields and damage expensive equipment. The Degelman Pro-Till has just the right amount of dirt carrying capacity to level almost any field in one pass, making Pro-Till your single spring and fall solution to tillage needs.





Independent Disc Technology

The Pro-Till Disc system replaces the traditional gang with independent disc arms that slice and mix soil at speeds never before achieved. This high speed, aggressive tillage, combined with more room between the discs, maximizes trash flow and eliminates plugging.

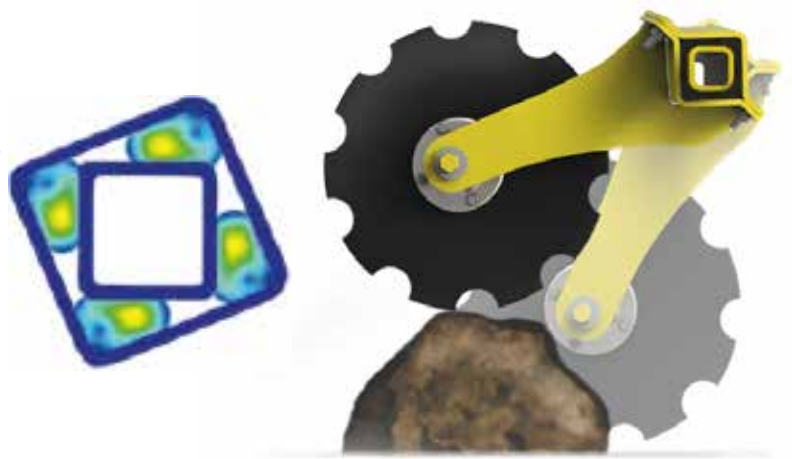


Prepare your Seedbed Fast.

Pro-Till's cultivation design creates a superior field finish in one pass by combining an aggressive till action with an exclusive furrow roller system. The shallow high-speed discs cut and mix residue to ensure a healthy soil structure. The ridged shape of the roller crushes clods and creates a corrugated soil profile and an ideal seedbed.

Rubber Suspension

Pro-Till® disc arms are preloaded using four natural rubber spring elements that allow the disc to skate over severe stones, yet perfectly follow the contours of the land. When a stone is encountered, the rubber elements compress automatically dampening the impact and providing protection while immediately springing the disc back into operation.



Maximum Trash Flow

Pro-Till discs have a shallow face to eliminate compaction layers, and the high tensile strength steel arms provide maximum flow through with three times the spring back of normal mild steel.



Weight is Inherent in the Overbuilt Frame

Other machines require extra weight stacks, but the 32,000 lb. Pro-Till cultivator carries this weight in the frame where it should be. As the heavy weight in the industry, the Pro-Till has the downward force to handle the most extreme soil and trash conditions.

Wet or Dry. Work in the Most Challenging Conditions

The Pro-Till cultivator has the unique ability to cultivate and warm the soil during cold wet conditions when all other forms of tillage plug and fail. In as little as one day and after one pass, frigid heavy residue soil is cut, turned, mixed, firmed and ready for seeding. Pro-Till in the spring can mean the difference between success and failure.



Roll Forward Frame

A unique benefit of the Pro-Till[®] cultivator is the roll forward frame design which gives operators the ability to completely rotate the frame and rear disc sections off the ground, making it easy to maneuver out of trouble in wet conditions. This design, together with the impressive weight distribution of the four oversized high flotation tires, lets operator back up, drive forward, unplug, or simply drive away from any difficulty.

Floating Self-Contour Technology

Degelman's self-contour frame allows Pro-Till to follow the curvature of varying terrains while maintaining a consistent depth. The independent wing sections and a shallow floating frame give Pro-Till the flexibility to handle steep inclines or downward slopes. This floating, self-contouring design, coupled with Pro-Till's independent discs help produce a flawless, uniform field.





Maintenance Free Disc Bearings

Real world conditions can be harsh. Our unique Pro-Till® bearings withstand constant vibration, high shock and severe loads. They are maintenance free. These long life double-row angular contact ball bearings are designed to provide years of reliable operation in every kind of soil condition - from cold and wet to dry and dusty.

Our bearings are capable of supporting heavy loads, are double sealed on both sides. The machined housing is coated for extra anti-corrosion protection and an additional high-performance triple lipped cassette seal is designed to prevent contamination. To further prevent damage, a machined protective washer is positioned to create an additional seal.

Two grease reservoirs located between the seals ensure that the seal lips are permanently lubricated and therefore prevent dry running. After extensive use the bearing housing itself can be changed quickly and easily with one bolt.

Maintenance Free Roller Bearings

Proven through years of research, development and rigorous testing in both lab and field, the advanced sealing technology ensures optimal performance for the customer. TILLXTREME™ offers a one of a kind, exclusive high-performance solution designed to eliminate the need for relubrication, saving precious hours needed for field work.

PEER's patented seal design provides significantly improved contamination exclusion than the conventional triple lip seal design. PEER's TILLXTREME™ engineered assemblies are more reliable, maintenance-free, and simplify installation. As an environmentally friendly solution, there is no grease purge to contaminate the soil.



Maintenance Free Rock Shaft Bushings

These Devol composite bushings are no maintenance and greaseless. They are shock, abrasion and wear resistant. The bushings are very low friction making them durable and hard wearing. They will not corrode.



Perfect Seedbed for Seeding and Planting

A uniform, slightly consolidated yet corrugated surface is a perfect seedbed. Clods and bigger elements are broken and consolidated into the soil with the finer loose elements. The soil is now evenly distributed and sized allowing seeders, planters, drilling discs or coulters to get in and do their job. Uniform seedbed packing provides uniform placement and seed depth. Planting and seeding speed and positioning will be greatly improved due to the vertical and horizontal even structure of the soil. The ridged shape of the rollers creates highly consolidated valleys and less consolidated ridges creating the perfect bed for seed propagation.

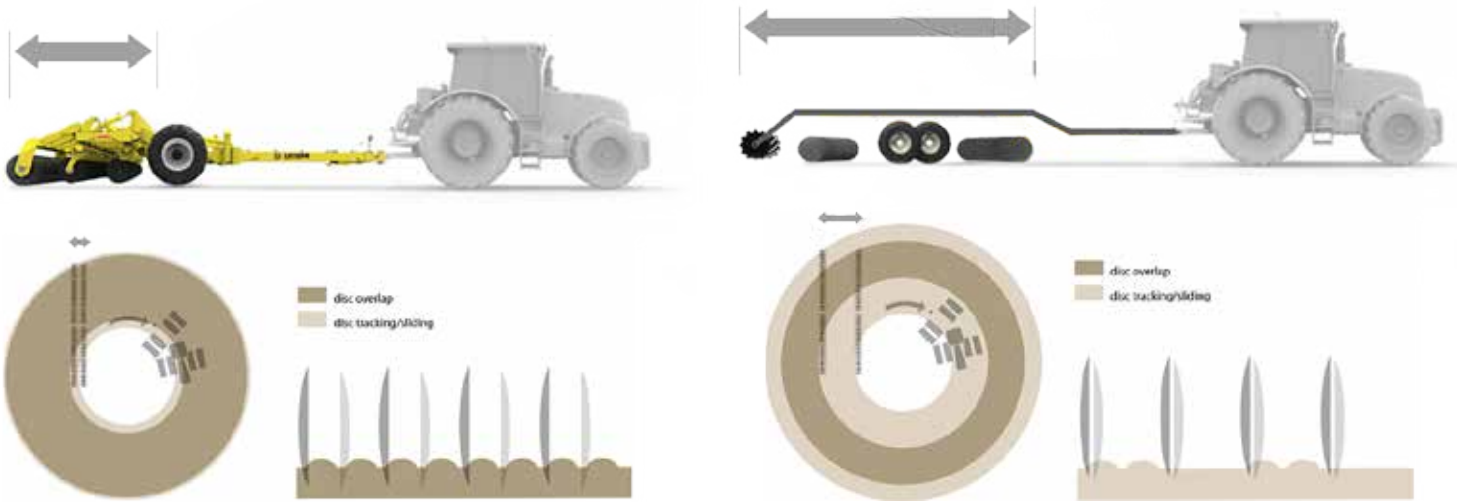


Pro-Till Compact disc vs. Conventional long frame

Pro-Till floating self contour technology and short front to back distance virtually eliminates tracking or sliding when turning.

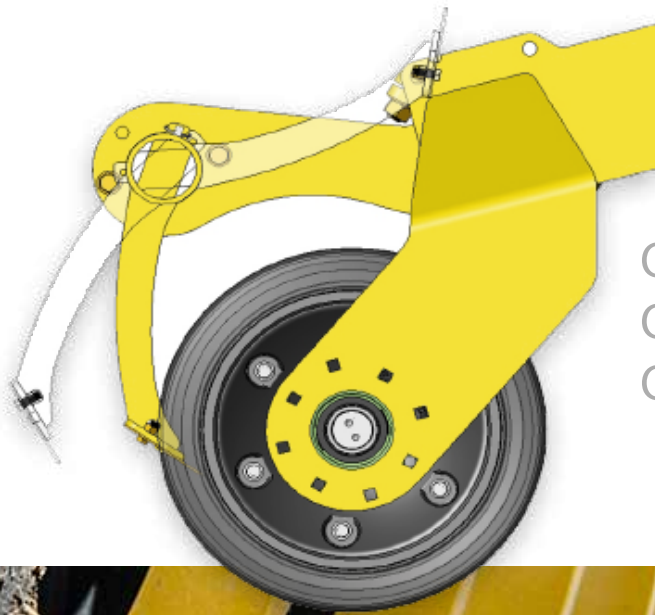


Conventional Disc



Simple. Strong. Clean.

The minimalist approach to these scrapers leave long arms which create great trash flow. The scrapers are easy to adjust, easy to clean and are removed with the pull of a pin. The Hardox wear plates are the same as those used in mining, construction, quarries and excavation and are 8 x more abrasion resistant to that of mild steel.



Quick Adjust.
Quick Clean.
Quick Removal.



Mechanical Depth Control

Adjusting the front and rear cutting depth on Pro-Till is easy and accurate. Mechanical plates swivel in or out to adjust cutting depth in 1/2 inch intervals, making this a simple, organized and reliable system.





100% Wider.

Degelman Pro-Till uses BKT FL-630 Plus High Flotation radial tires, offering an extremely wide footprint area for maximum performance in wet soil conditions.

30% Taller.

With a 30% taller tire, Degelman Pro-Till minimizes rolling resistance while reducing the impact on soil structure.

Lugged Tread Pattern

Pro-Tills' BKT FL 630 tires use a non-directional lugged tread designed to shed mud; ideal for wet conditions. These tires wear longer and save you fuel and time in the field when compared to traditional ribbed tires.



Safe and Sound

The Alliance high volume radial flotation tire series was designed to optimize the efficiency of agriculture transportation. The 382 series includes all steel construction and a deep non-directional block pattern which enables high mobility in the field as well as comfortable high-speed transportation.



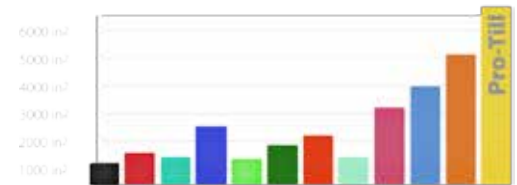
Alliance FLOTRUCK

700% More Flotation

Degelman Pro-Till® uses BKT FL-630 Plus High Flotation radial tires, offering an extremely wide footprint area for maximum performance in wet soil conditions. The shape of the contact area is specially designed to minimize the impact on soil structure. A non-directional tread design enables higher traction and the same performance in both drive directions.



BKT FL-630





Exclusive **OTICO** Furrow Rollers

Pro-Till's exclusive Otico rollers are an excellent all-around packer with a unique corrugated ridge profile, which leaves a field finish designed to manage moisture and prevent soil erosion. Pro-Till's furrow rollers out-perform any typical cage roller, regardless of soil type or soil conditions. Proven effective in clay, sand, gumbo, and rocky soil, the furrow rollers performs especially well in wet fields. Unlike a cage roller, the furrow roller is designed to shed soil to prevent plugging and reduce maintenance.



Plain Concave Disc

20" concave disc does an excellent job of tilling and inverting the soil. The action of the disc depends on the size and depth of the disc, the concavity and the speed. These discs have been sized, tested, and selected for the best all-purpose results.



Notched Concave Disc

20" notched concave discs provide a very aggressive cutting edge that is well suited for soil penetration and incorporating large amounts of straw. Particularly in dry, hard soil and heavy vegetation, these discs are a good choice for residue management.

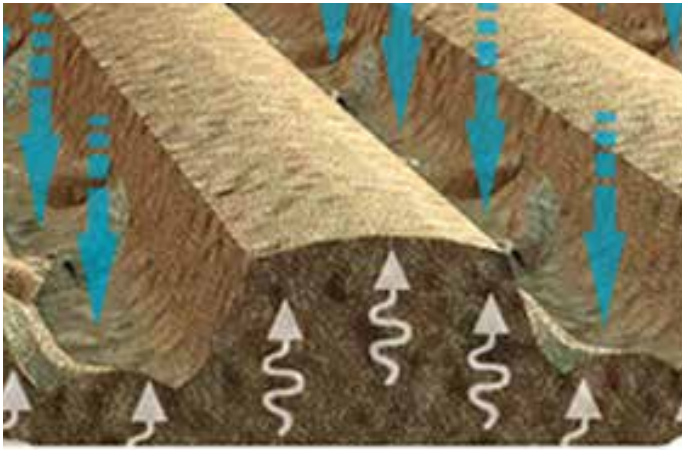


Why Furrow Rollers?

Improved Gas Exchange



Healthy soil must be allowed to breathe and tillage can drastically change the configuration, continuity and size of soil pores. A highly compacted zone beside a less compacted zone set in ridges is the optimum method to allow a rapid exchange of carbon dioxide and oxygen between the soil pores.



Enriched Soil Structure



After residue has been cut and mixed, our exclusive corrugated rollers finish the field to perfection. The hollow corrugated rubber design sheds soil, breaks up the larger clods and consolidates the soil to bring fine earth in contact with residue to optimize decomposition.

Faster Germination



Corrugated rollers are central to breaking down straw and encouraging seeds to germinate and grow in the shortest possible time. Effective soil to seed/root contact enables an efficient transfer of nutrients combined with minimal moisture loss, especially important during dry years.

Effective Erosion Control



The Pro-Till® rollers are key. The rollers consolidate the soils, provide valleys for water storage, prevent capping due to heavy rainfalls and create ridges to reduce wind erosion. The soil is protected against heavy rainfalls, helping water stored in the soil to come up to the topsoil layers.



Degelman Tested

Degelman equipment is tested to the limit in severe operating conditions. Any unforeseen problems were analyzed and further improved. As a result of years of development and field testing Pro-Till® is a piece of equipment without compromise.



Safely Transport to and from the Field

Pro-Till is user-friendly, allowing the operator to engage the transport position from the safety of the tractor seat. The wing-forward design is incredibly compact and stable for road transport. It incorporates an ultra-low profile - under 13' (3.9m) - which is ideal for clearing bridges and power-lines. The hitch weight is positive, creating a safe and highly maneuverable machine.



Oversized Hydraulic Jack

Pro-Till's® oversized, self-leveling hydraulic jack is centred on the machine for perfect balance in any soil condition. With its large range of motion the jack is easily controlled by one operator from any vehicle height.



Organized and Ergonomic Hydraulic Bank

From start to finish Pro-Till was designed with a user experience in mind. Our Kennfixx knurled grip couplers are ergonomic and color coordinated to organize your tractor's hydraulics. When not in use, the hydraulic hoses tuck away neatly in each of their own color coded slots. The user manual is easily accessible and safe from damage.





TECHNICAL SPECIFICATIONS

Width Available	33' (10m)	40' (12m)
Transport Height	12'-6" (3.8m)	13'-0" (4m)
Transport Width	20'-0" (6m)	20'-0" (6m)
Weight (Est.)	29,000 lbs (13,200kg)	32,000 lbs (14550kg)
Number of Discs (center)	32	32
Number of Discs (wing)	23	31
Disc Options	20" Diameter Concave x 1/4" Thick or 20" Diameter Notched Concave x 1/4" Thick	
Disc Arm Mounting	Rubber Torsion - 4 Elements per Arm	
Disc Spacing	5" Spacing (10" Spacing per Row)	
Hitch Frame	6" x 10" x 3/8"	
Main Frame	6" x 10" x 3/8"	
Centre Frame	6" x 6" x 3/8"	
Wing Frame	6" x 6" x 3/8"	
Tires	Wing - BKT 600/50R22.5 FL630 Plus	Center - Alliance 382 FLOTRUCK 600/50R22 MPT
Hubs (center & wing)	CTD H1010-9 (10 bolt)	
Roller Bearings	2-7/16" Double Row Spherical Roller	
Wheel/Roller Hydraulics	Rephasing Circuit 4-1/4" Masters, 3-3/4" Slaves	
Transport Lift Hydraulics	5-1/2" x 42"	
Wing Forward Hydraulics	4" x 28"	
Engine HP Required	10 to 15HP per foot at 3" working depth to achieve 8 to 12 MPH (will vary by soil type)	
Roller Options	Rubber Roller or Cage Roller	
Roller Size (center)	13'-2" (4m)	13'-2" (4m)
Roller Size (wings)	9'-10" (3m)	13'-2" (4m)
Scrapers (rubber roller only)	Standard	
Hydraulic Jack	Standard	
Safety Lights	Standard	



NOTICE
PATENTED
United States Patent:
US D706,835 S
Canadian Industrial Design:
Registration 153588
Other Patents Pending



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Patents Pending.
Degelman Industries Ltd. is constantly striving to improve its products and reserves the right to change design, material and specifications without notice.

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