



Paratills®



Break up deep soil compaction and increase yields



Work in Conventional, MinTill and NoTill Systems



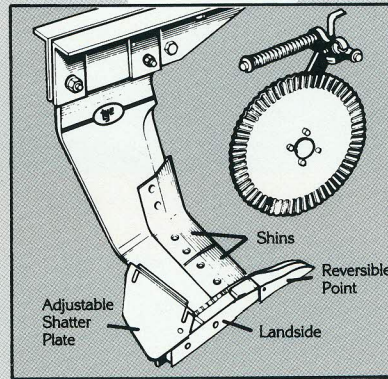
Coulter Chisels

Coulter Chisels are unable to break up existing plow pans. They ride on the pan. . . adding to the compaction problem. Soil pans restrict healthy root development and prevent vertical movement of soil moisture.



"V" Rippers

"V" Rippers with straight shanks can penetrate the plow pan; however, they do not loosen soil between the shanks. The ripper shanks mix subsoil and top soil, create a rough cloddy finish and bury a great amount of precious residue which prevents soil erosion.



Paratill

Paratill breaks up soil compaction and pans in a single pass. The unique angled leg completely loosens the soil profile without creating clods, bringing up subsoil or burying residue. Paratill produces a ready-to-plant, level seed bed for modern conservation drills and planters.

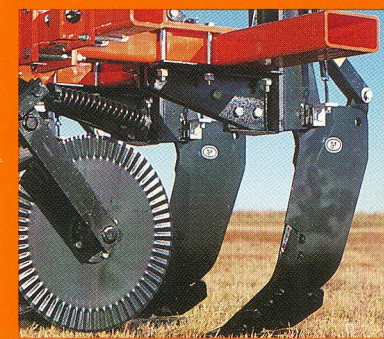
The Field Proven Angled Leg

The field proven angled leg lifts and bends the soil allowing it to fracture along natural planes of weakness down to the full working depth. Paratill total loosening improves water infiltration, soil drainage and allows deep root growth to withstand drought stress.

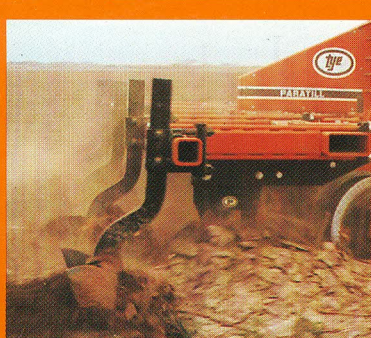




Proven HD Mechanical Toggle Trip
provides leg protection in stony soils. HD hinge points provide long hours of trouble-free operation. Shearbolt models also available.



HD Spring Loaded Coulters
with Duraflute blades slice through crop residues. 600 lb. spring pressure assures continuous cutting, yet flexes to clear obstacles.



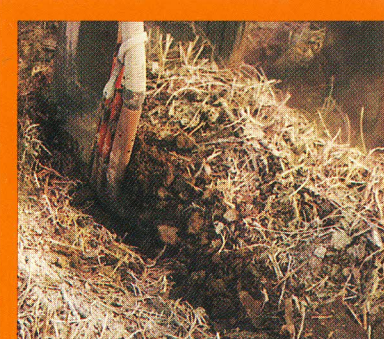
Optional 3rd Bar
and accessory tools provide full versatility to reshape beds and ridges, and to deep-place nutrients in a single pass.



Gauge Wheels
with easy single-pin adjustment provide uniform depth control in variable field conditions.



Rolling Treaders
and other attachments offer soil finishing and residue mixing in a single pass for the conservation minded operator.



Deep Fertilizer Placement
with the Paratill improves nutrient uptake by the root system. Deep placement maximizes fertilizer utilization.

3-point and Pulltype Paratills

Standard Equipment

- HD 4x4 and 4x8 tubular frame
- Choice of HD Cat II/III hitch
- HD spring loaded coulters
- Parking stands
- High clearance trash legs
- Two 8x20x10 gauge wheels, (four on 8 leg units)
- Choice of shearbolt or mechanical trip legs

Specifications:

Models	Shear	210	410	411	610	611	810	811
	Trip	220	420	421	620	621	820	821
Number of Legs		2	4	4	6	6	8	8
Beam Length		7.5'	11.5'	13.0'	17.5'	19.2'	19.2'	23.5'
Pull Package Option		_____yes_____						
3rd Bar Option		_____4x4 tube w/mount_____						
Weight		_____consult manual_____						
Horsepower		_____30-35 hp/leg_____						

Row Crop Paratills

Standard Equipment

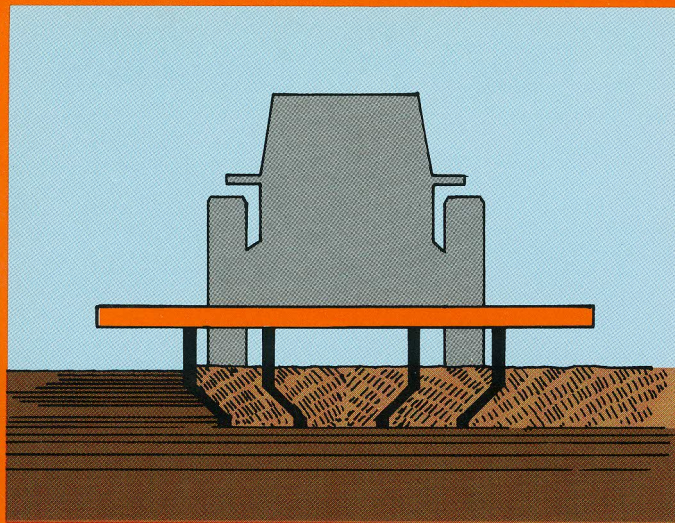
- 3-bar welded frame with HD 4x4 diamond mast
- HD Cat III hitch
- HD 20" coulters (optional)
- Parking stands
- High clearance trash legs
- Two 8x20x10 gauge wheels
- Shearbolt legs only (mechanical trip not available)

Specifications:

Models	Shear	412	612
Number of Legs (rows)		4	6
Row Spacing		_____30" to 40"_____	
Beam Length		14.5'	18.0'
Pull Package Option		_____yes_____	
3rd Bar		_____standard_____	
Weight		_____consult manual_____	
Horsepower		_____30-35 hp/leg_____	

Specifications and design subject to change without notice.



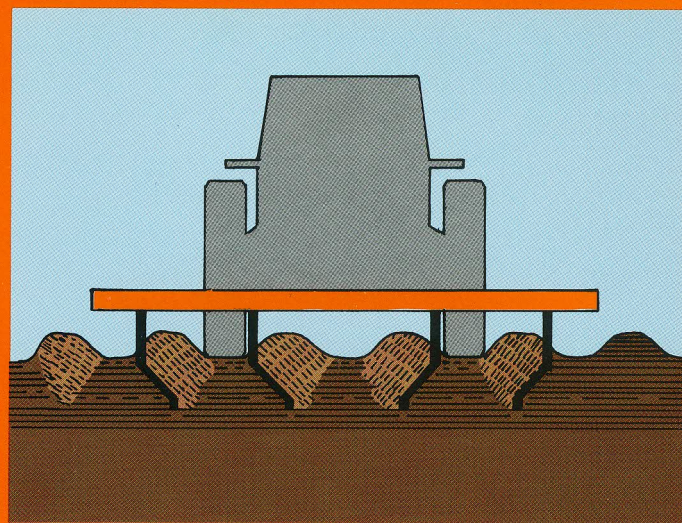


Total Loosening

A leg spacing of 26" or less insures complete soil loosening from one leg to the next, fracturing the soil profile across the full working width in a single pass. The soil surface remains level and clod free; secondary tillage operations are cut to a minimum or eliminated. In University and Experiment Station field tests, Paratill consistently leaves more residue on the surface than any other deep tillage tool, keeping your conservation plan in compliance, while protecting your soil from wind and water erosion.

Paratill also helps you get the most from your moisture by helping water get down to the roots fast. During periods of drought, Paratill prepared soil does not restrict the upward movement of water. Use Paratill for total loosening in any cropping practice from small grain to row crops. Producers are successfully using Paratill on corn, cotton, soybeans, wheat, milo, vine and berry crops and more. Hay and grasslands increase production through deep soil loosening during dormant seasons.

Paratill in pasture



Zone Loosening

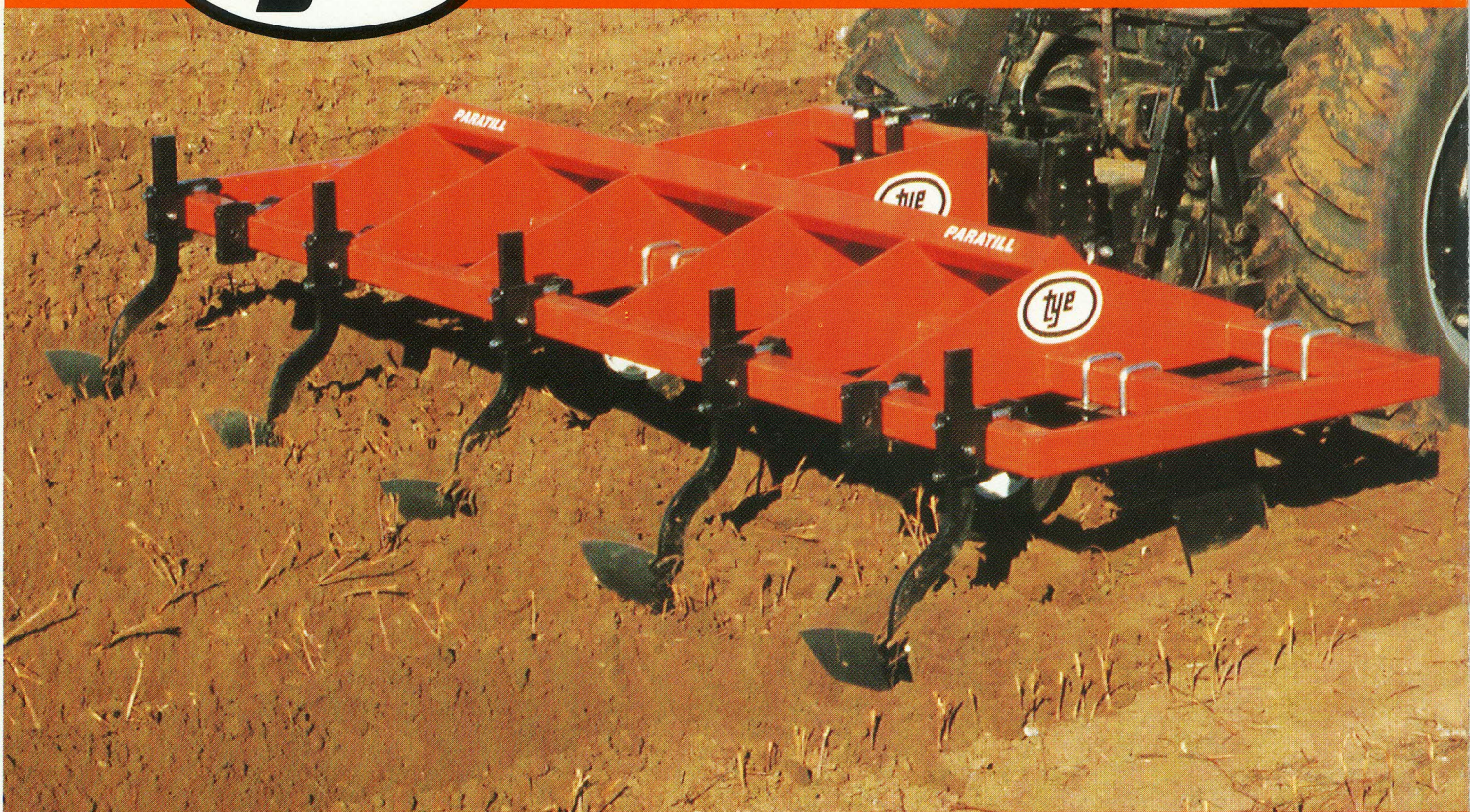
In row crops you can selectively loosen the zone of soil where the crop will be planted whether it is flat, on ridges or beds. Paratill breaks up deep soil compaction while leaving firm furrow bottoms and traffic lanes. Paratill is the only tillage tool that can loosen under ridges or beds without destroying them. Use Paratill for zone loosening in any 30" to 40" row crop: whether flat, on ridges or beds. Producers are successfully using the Paratill in corn, cotton, soybeans, potatoes, sugar cane, tomatoes, vegetable crops, strawberries, fruit, and more.

Paratill in cotton





Row Crop Paratills®



Single Pass, Under the Row Deep Soil Loosening



Produce a Ready-to-Plant Seedbed



Pulltype Paratills®



Leave residue on the surface and reduce erosion



Proven Leg Design Offers True Tillage Versatility