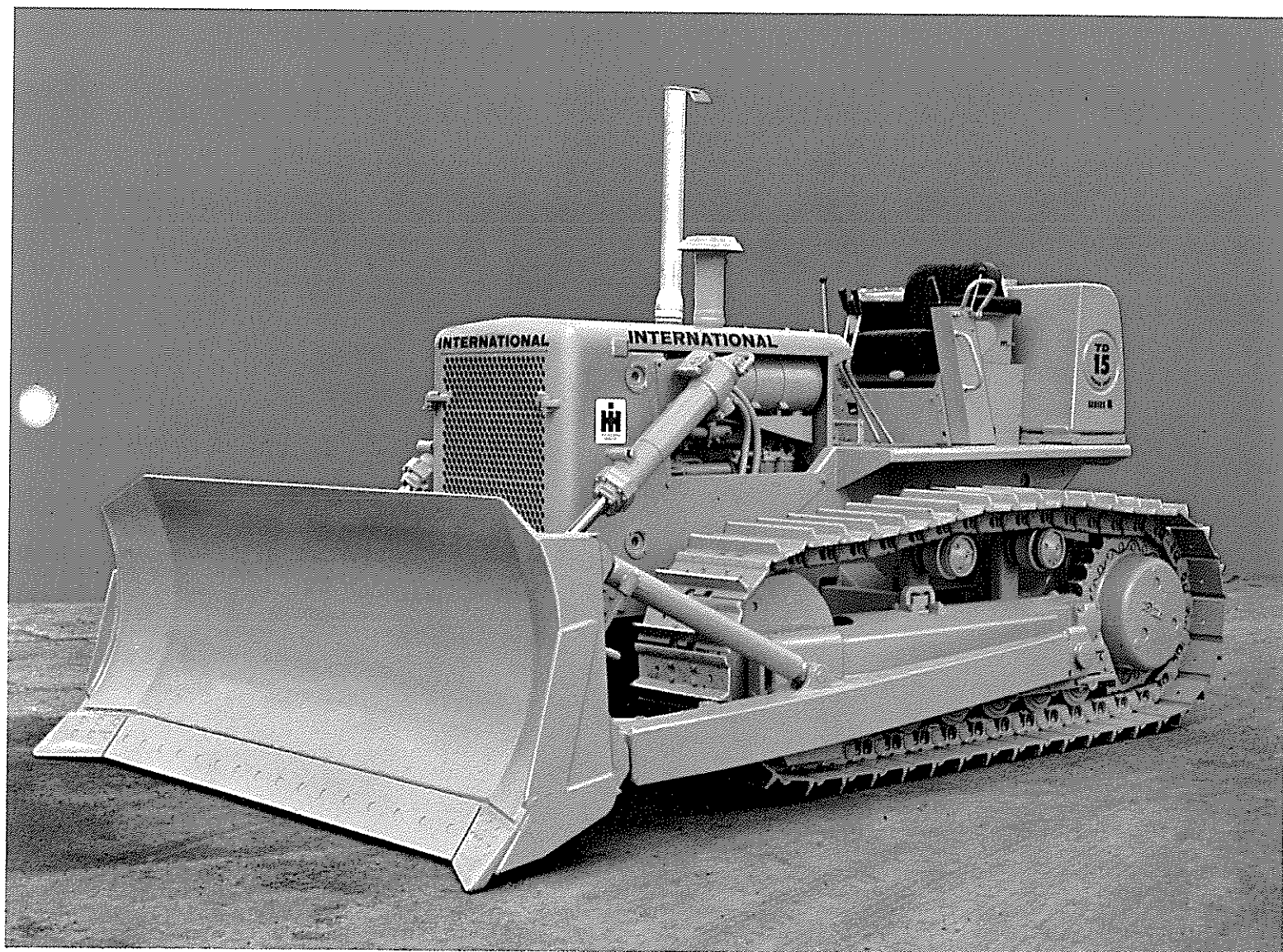


INTERNATIONAL®

TD-15B CRAWLER



INTERNATIONAL HARVESTER COMPANY

Construction Equipment Branch

1901 Broadway - P. O. Box 1715

Sacramento, California 95818

Phone: 443-1727

TD-15B PROVEN PERFORMANCE PAGE SETTER

IN THE 125 HP CLASS

The International TD-15B is a versatile crawler that's been proven to be economical to own and operate. It delivers high work-ability, dependability and easy transportability. Its long track frames put more than 94 inches of track on the ground for better stability, traction and flotation. **Here are some of the TD-15B features:**

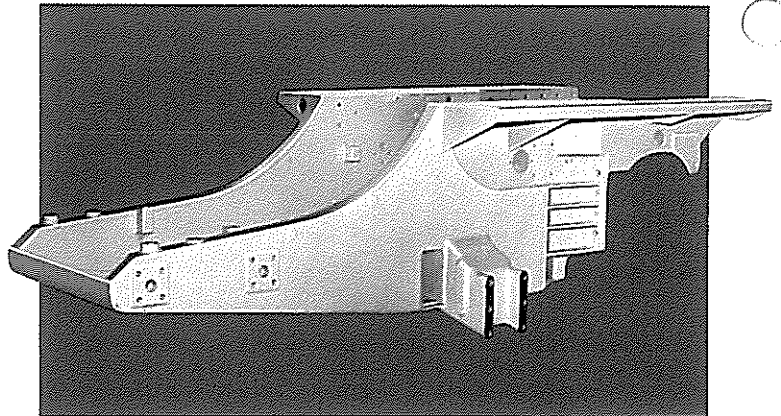
- Modern direct-injection, 6-cylinder, 125 net flywheel hp, turbocharged International diesel engine.
- Choice of transmissions to meet your job requirements—simplified, countershaft-type POWER SHIFT that is hydraulically controlled and actuated... or a selective sliding GEAR DRIVE, with a heavy-duty oil clutch and 5 speeds forward, 4 speeds reverse.
- Smooth, effortless, single-stage PLANETARY POWER STEERING.
- Double-reduction planetary final drives which distribute heaviest loads over a three gear mesh for more lasting, efficient power application.
- The strongest undercarriage in the class.
- Exceptionally high-strength front and rear main frames to maintain alignment and protect engine and power train components.

PROVEN POWER

On the job, the TD-15B delivers more usable power, provides faster response to load demands. The reason—it's tough, dependable and economical International DT-407 diesel with these advantages:

- Short stroke, (4 $\frac{5}{8}$ ") design; conservative piston speed; 407 cubic inch displacement.
- Direct injection for fast starts and maximum fuel efficiency and economy.
- Oil jet cooled, aluminum alloy pistons and full-length, dry-type sleeves for better wear life.
- Fully counter-balanced, 7-bearing crankshaft with special process, induction-hardened fillets and journals for added life and high-speed performance.
- Dry-type air cleaner provides superior engine protection. *Engine mounting* eliminates cross-vibration assuring positive air intake seals on all connections. Filter service indicator is on instrument panel.

Operator's compartment... features walk-through design with a clean deck for operator comfort and convenience. Four-way adjustable seat suits every operator. Instruments are grouped, easy to read. All controls are conveniently located for maximum operator efficiency with minimum effort... great all-around visibility... hands-only power steering... hydraulic power does the work of shifting, steering and operating attachments.

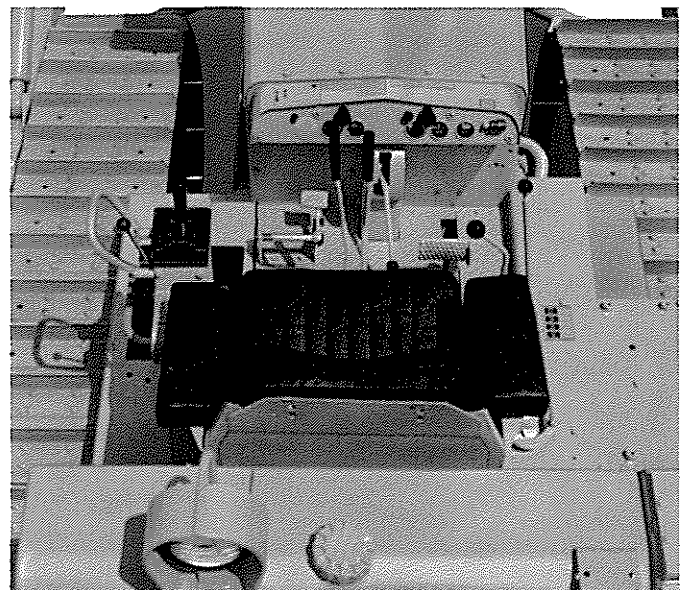


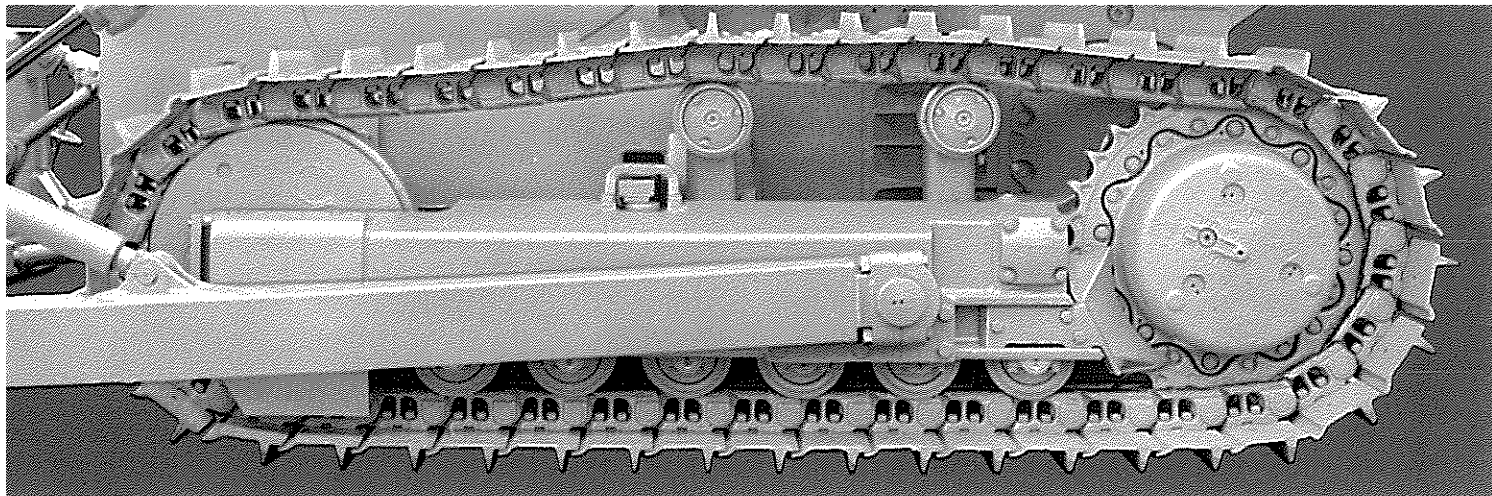
FRAMES DESIGNED FOR SUPERIOR STRENGTH AND STABILITY...

Massive carrier frame which extends from the radiator guard to the drawbar. This single frame of heavy-steel, reinforced and braced for additional rigidity, is unequalled in the tractor size range for strength and stability. Further, the power train cradles within it—engine, torque converter and transmission are protected from shock and misalignment.

An extra-heavy fabricated steel case carries the steering system. Bolted to the carrier frame, it becomes an integral part of the unit construction concept. Fabricated high-strength steel takes the strain of attached equipment such as a ripper. And adds to overall frame stability to maintain alignment of power train.

Simplified maintenance and service... Unit construction throughout permits quick accessibility to all major components, allows individual components removal. Routine preventive maintenance is fast and simple. Result? Higher availability, lower overall maintenance and service cost.





TD-15B UNDERCARRIAGE—MORE STABILITY, MORE TRACTION, LESS MAINTENANCE, LOWER COSTS

- Long track frames put 94.1 inches of track on the ground for greater stability, maximum traction, and improved flotation.
- Track frames are all-welded of heavy steel channel section. Oscillating type that pivots ahead of the drive sprockets. Integral track chain guards.
- Lifespan Lubricated Rollers provide maximum life with minimum maintenance. Large diameter shafts, built-in lube reservoirs. Bronze bushings provide larger bearing surfaces and greater load carrying capacities. Metal-to-metal, face-type seals, backed by rubber pressure rings have unequalled, permanent sealing qualities.
- Drum-type front idlers are cast steel with hardened rims for added life. Front and top idlers have "life-span" seals and permanently lubricated tapered roller bearings.
- Final drives are double-reduction with planetary finals which provide the greatest gear reduction at the working end of the power train. The heaviest torque loads are transmitted direct to each drive sprocket over a 3-gear mesh instead of the usual two-gear mesh. This permits higher speed and

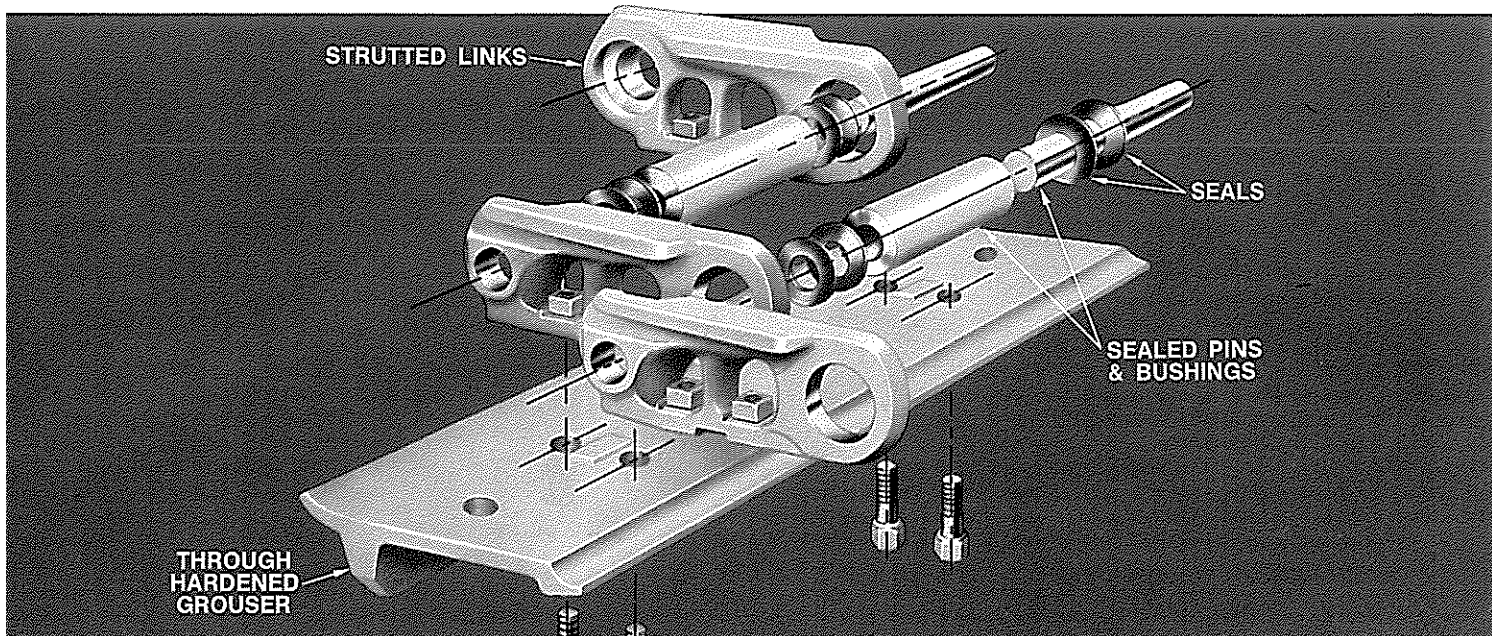
lower torque loads to flow through the gear train ...places the major torque loads outside the main frame.

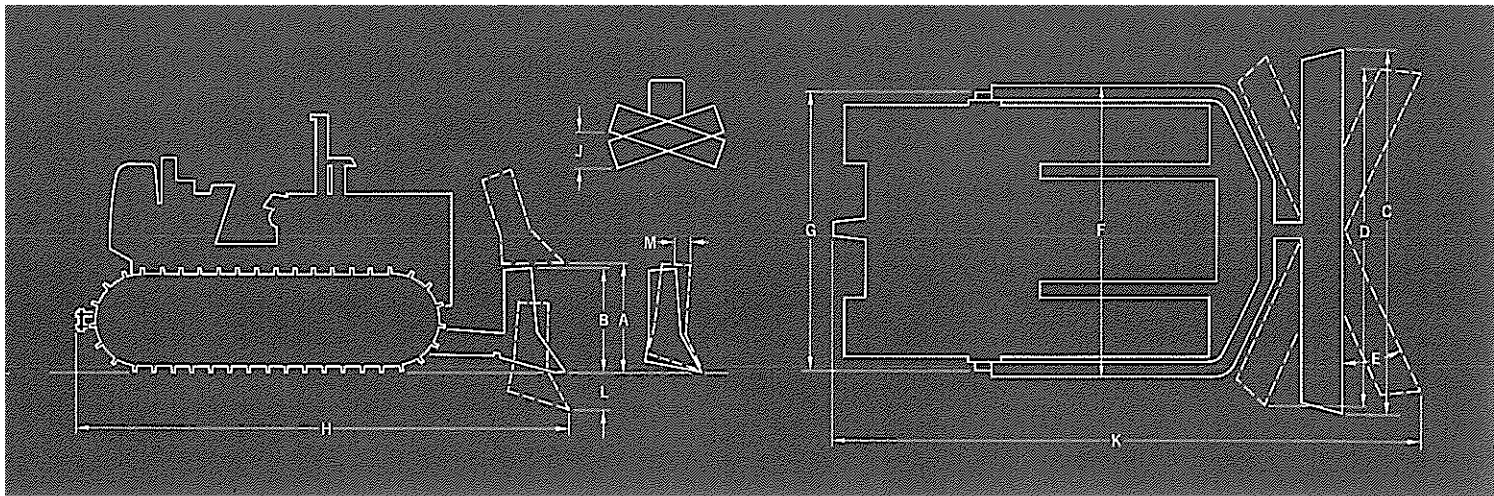
- Ring type sprockets are "hunting tooth" design... distribute wear evenly over track bushings. They are replaceable without removing track frame.
- Struted track links improve durability, upgrade rebuilding characteristics. Wide strut extends bushing life by reducing inherent twisting tendency of links. Track shoes are keyed to the link to relieve bolts of shear stress.
- Track chain seals are long lasting pairs of concave opposed steel discs—that form a metal-to-metal seal to block track wear at its source. They extend pin and bushing wear by as much as 30%.

Severe service undercarriage optional

Get up to 50% more service life...at only 25% more undercarriage investment...by equipping your International TD-15B with this optional severe service undercarriage attachment.

This package consists of severe service sprockets, track rollers, track chains, and shoes.





TD-15B BLADE SPECIFICATIONS

TYPE BLADE.....
 MODEL.....

MAX. USABLE TRACK SHOE WIDTH FOR MAX. TRACK OSCILLATION.....

BLADE DIMENSION

Length (over regular end bits)....."C"
 Height (struts centered)....."A"
 Max. Lift (struts centered) Blade Straight....."B"
 Blade Angled....."B"
 Max. Drop Below Ground Level....."L"
 Max. Manual Tilt Adjustment....."J"
 Blade Angle (either side)....."E"
 Max. Pitch Adjustment....."M"

MOLDBOARD: Material.....
 Construction.....

CUTTING EDGE (Reversible) Heat Treated
 High Carbon Steel.....

Length.....
 Width.....
 Thickness.....

END BITS (2) (Regular Heat Treated High Carbon Steel)

Length.....
 Width.....
 Thickness.....

END BITS (2) Length (Cast Alloy Steel) Optional.....

Width.....
 Thickness.....

BLADE LIFT SPEED, @rated engine rpm
 TD-15B Power Shift fps (cm/s) (Average).....

HYDRAULIC SYSTEM, with 1540B Hydraulic Control Unit

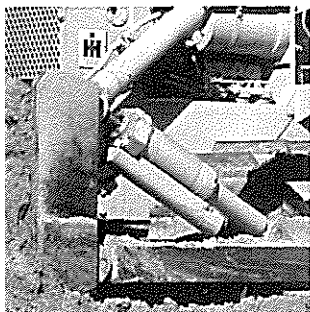
Oil Capacity gal & (lit).....
 Pump Capacity, gpm and (lit/m) at 1000 psi or
 70306 gm/cm² @ 1838 rpm.....
 Pump Type.....
 Relief Valve Pressure setting psi and (gm/cm²).....
 Cylinder (double acting) Bore & Stroke ins. and (cm).....

OVERALL DIMENSIONS OF TRACTOR WITH
 BLADE MOUNTED

Length, Blade Straight....."H"
 Blade Angled....."K"
 Width, Blade Straight....."C"
 Blade Angled....."D"
 Width over Trunnions....."G"
 Width of "C" Frame....."F"

NET WEIGHT WITHOUT PCU Approx. lbs. and (kg).....

Semi "U" Bulldozer Hydraulic 15D-2		Straight Bulldozer Hydraulic 15D-2		Bullgrader Hydraulic 15G-2	
ins.	(cm)	ins.	(cm)	ins.	(cm)
22	(56)	22	(56)	22	(56)
124.0	(315)	124.0	(315)	150.7	(383)
45.0	(114)	39.0	(99)	33.8	(86)
35.2	(89)	34.5	(88)	36.6	(93)
—	—	—	—	43.0	(109)
16.7	(42)	17.0	(43)	16.2	(41)
25.5	(65)	22.0	(56)	12.0	(30)
10°	10°	10°	10°	25°	25°
High-strength Manganese Alloy Abrasion Resistant Steel Boxed Frames		Boxed Frames		Boxed Frames	
ins.	(cm)	ins.	(cm)	ins.	(cm)
96.6	(245)	87.8	(223)	119.8	(304)
8	(20)	8	(20)	8	(20)
.75	(1.9)	.75	(1.9)	.88	(2.2)
—	—	15.4	(39)	15.3	(39)
—	—	8	(20)	8	(20)
—	—	.88	(2.2)	.88	(2.2)
16.1	(42)	17.5	(44)	16.0	(41)
9.2	(23)	9.3	(24)	9.1	(23)
.86	(2.1)	.75	(1.9)	.75	(1.9)
1.6	(40.6)	1.64	(41.6)	1.64	(41.6)
22	(83.2)	22	(83.2)	22	(83.2)
59.7	(152)	59.7	(152)	59.7	(152)
Gear	Gear	Gear	Gear	Gear	Gear
1850	(130067)	1850	(130067)	1850	(130067)
4.5x26	(11.4x66)	4.5x26	(11.4x66)	4.5x26	(11.4x66)
ins.	(cm)	ins.	(cm)	ins.	(cm)
193.4	(491)	192.1	(488)	199.8	(507)
—	—	—	—	232.4	(590)
124.0	(315)	124	(302)	150.75	(383)
—	—	—	—	136.62	(347)
107.62	(273)	107.62	(273)	107.62	(273)
—	—	—	—	111.6	(283)
4570	(2073)	4290	(1946)	4940	(2241)

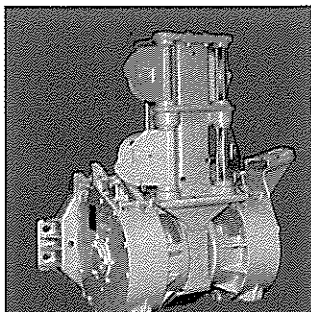


HYDRAULIC TILT CYLINDER ATTACHMENT

For use with Semi-U or Straight Bulldozer with Hydraulic Control Unit Model 1540B.

Maximum hydraulic tilt: ins. (cm)
 With Semi-U Bulldozer25.5 (65)
 With Straight Bulldozer22.0 (56)

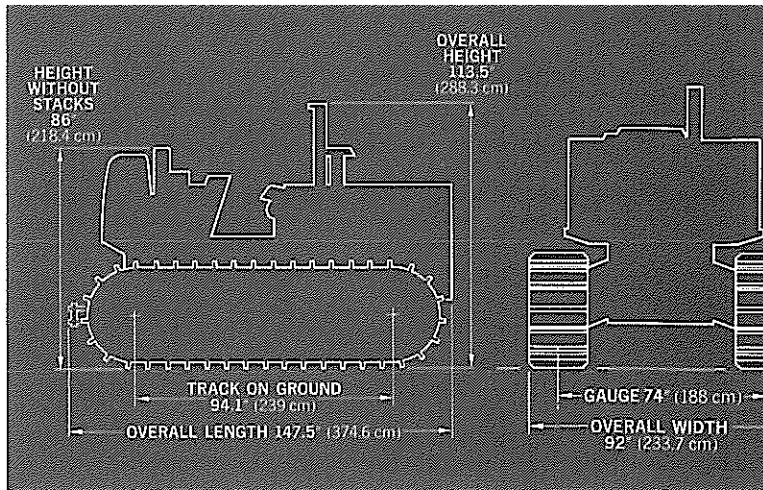
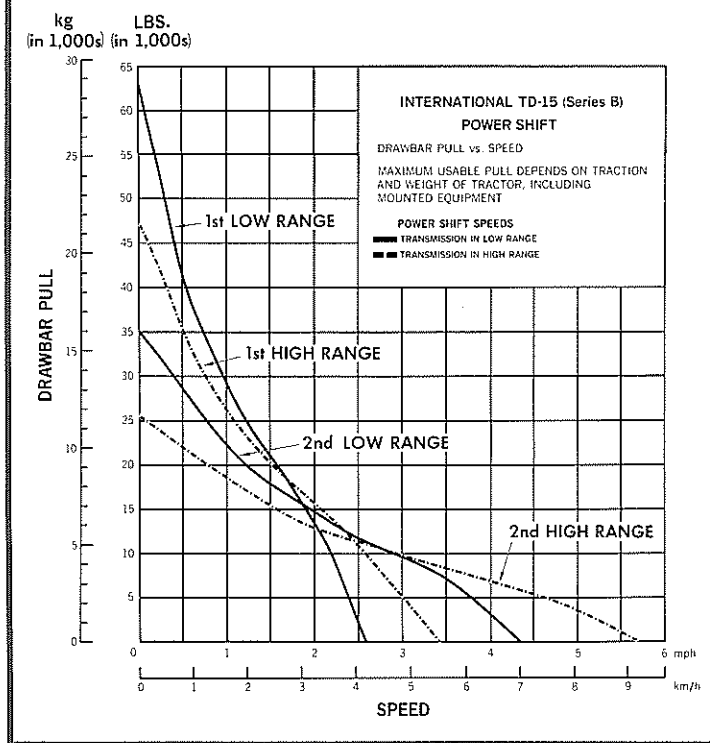
Shipping weight:
 Approx. lbs. 240 (109 kg.)



CABLE CONTROL UNITS

Single or double drum units with heavy-duty planetary drive...cool running, quick responding...power release of drum brake automatically prevents brake drag and load drop... simple, one-point adjustment for planetary clutch and for brake.

Weight: Approx. lbs., (kg)
 Model 260S, single drum . .1625 (737)
 Model 260, double drum . .2370 (1075)



SPECIFICATIONS: TD-15B POWER SHIFT AND GEAR DRIVE CRAWLER TRACTOR

ENGINE:

Make & Model.....International DT-407
Type—4-cycle diesel, turbocharged, direct start, direct injection.

*Net flywheel horsepower @ 2400 rated rpm.....125
RPM at maximum torque.....1200
No. of cylinders.....6
Displacement, cu. in. & (cc).....407 (6670)
Bore & stroke, ins. & (mm).....4.321 x 4.625 (109 x 106)
Lubrication, full flow filtering.....full pressure
Number of main bearings.....7
Electrical system.....24 Volts
Air cleaner.....Dry Type

*Net flywheel horsepower—horsepower output of standard engine complete with fan, air cleaner, generator, water pump, lubricating oil pump and fuel pump under SAE standard temperature and barometric conditions of 29.38" (746 mm) Hg. and 85° F. (29° C.). Engine will maintain full horsepower up to 10,000' (3048 m.) altitude.

POWER SHIFT

TRANSMISSION & TORQUE CONVERTER: Simplified, countershaft-type power shift... hydraulically controlled and actuated. Single stage 13-inch (33 cm) torque converter drives to transmission through a double universal joint.

TRAVELING SPEED RANGE

Gear Range	1st		2nd	
	mph	((km/h))	mph	((km/h))
Lo-forward.....	0-2.5	(0-4.0)	0-4.3	(0- 6.9)
Hi-forward.....	0-3.3	(0-5.3)	0-5.6	(0- 9.0)
Lo-reverse.....	0-3.0	(0-4.8)	0-5.1	(0- 8.2)
Hi-reverse.....	0-3.9	(0-6.2)	0-6.6	(0-10.6)

GEAR DRIVE

DRAWBAR HORSEPOWER.....99
TRANSMISSION & ENGINE CLUTCH—Independent unit. Selective sliding gear type with five forward and four reverse speeds. Gear shift lever and separate forward, reverse lever conveniently located to operator's right hand. Engine Clutch, 13½ inch, (34 cm) 3-plate, over-center oil cooled type, enclosed in separate housing mounted on engine. Double universal joint drive to transmission.

TRAVEL SPEEDS at rated engine RPM

Gear	Forward		Reverse	
	mph	((km/h))	mph	((km/h))
1.....	1.5	(2.4)	2.1	(3.4)
2.....	2.0	(3.2)	2.7	(4.3)
3.....	2.6	(4.2)	3.6	(5.8)
4.....	3.8	(6.1)	5.2	(8.3)
5.....	5.2	(8.3)	—	—

DRAWBAR PULL, LBS.

Gear	Rated Lbs.		**Maximum Lbs.	
	lbs.	(kg.)	lbs.	(kg.)
1.....	26,915	(12,209)	38,635	(17,525)
2.....	19,911	(9,032)	29,171	(13,232)
3.....	14,668	(6,653)	18,751	(8,505)
4.....	9,727	(4,412)	12,576	(5,704)
5.....	6,647	(3,015)	8,727	(3,959)

**At Engine Speed of Maximum Torque.

†With adequate weight and traction.

POWER SHIFT AND GEAR DRIVE

Steering: Single stage planetary and multiple disc brakes for feathered or pivot turns; controlled by hand lever for each track, with hydraulic boosted assist. Planetary includes 1.26:1 gear reduction ratio to tracks and runs in oil. Single foot pedal applies both track brakes for parking or down-hill speed control.

FINAL DRIVES—double-reduction with planetary finals provides greatest gear reduction at the working end of the power train. Ring-type sprocket... distributes wear evenly over track bushings letting every tooth ride free one-half of the time to reduce wear... replaceable without removing track frame.

TRACK FRAME—Drum Type Front Idlers... cast steel with hardened rims... front and top idlers have "lifespan" seals and permanently lubricated tapered roller bearings.

No. of track rollers (each side).....6
No. of top Idlers (each side).....2

TRACKS:

Track shoe width, standard, ins. & (cm).....18 (45.7)
No. of track shoes each side.....41
Ground contact area with std. 18" shoes, sq. in.....3388
45.7 cm shoes, cm². (21,859)

Height of grouser, ins. & (cm).....2.47 (6.27)

Track adjustment.....Full hydraulic

Ground clearance from bottom face of shoe, ins. & (cm).....16.5 (41.9)

Rigid drawbar—approx. height from ground to center line of 3.5" (8.9 cm)

clevs, ins. & (cm).....19 or 14 (48 or 36)

CAPACITIES

	(Power Shift) (Gear Drive)	
	gal.	(lit.)
Fuel tank.....	80	(303)
Cooling system.....	12	(45)
Engine Lubrication, incl. filters.....	5.75 (12.7)	5.75 (21.7)
Transmission & rear frame.....	35 (132)	32 (121)
Sprocket Drive Unit (each).....	5.50 (20.8)	5.50 (20.8)

WEIGHT (approximate shipping)

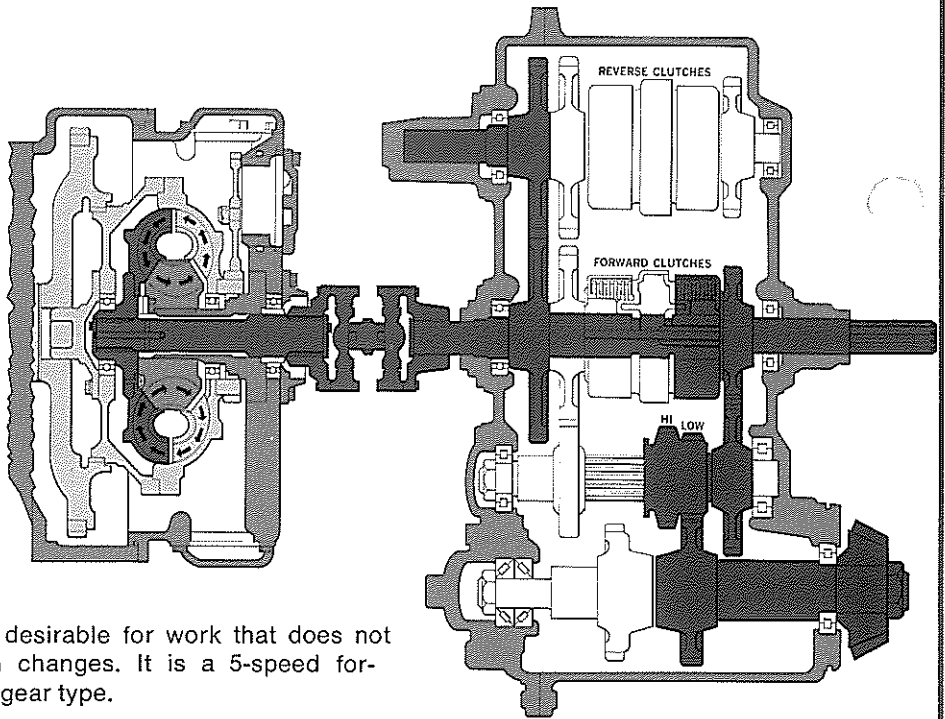
	lbs.	(kg.)
Power Shift, with regular equip.....	23,217	(10,531)
Gear Drive, with regular equip.....	23,093	(10,475)

COUNTERSHAFT-TYPE POWER SHIFT TRANSMISSION

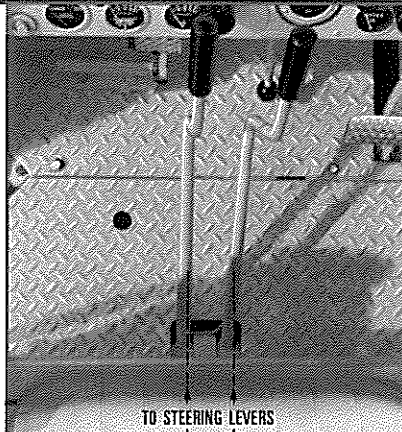
This transmission combines effortless control with simplicity of design and rugged construction for easier maintainability. Two dual clutch packs, 4 sturdy shafts and only 12 gears and 13 bearings...that's it. They're all assembled as an independent unit, driven through a double universal joint from a single-stage torque converter direct-mounted on the engine.

Optional Gear Drive Transmission

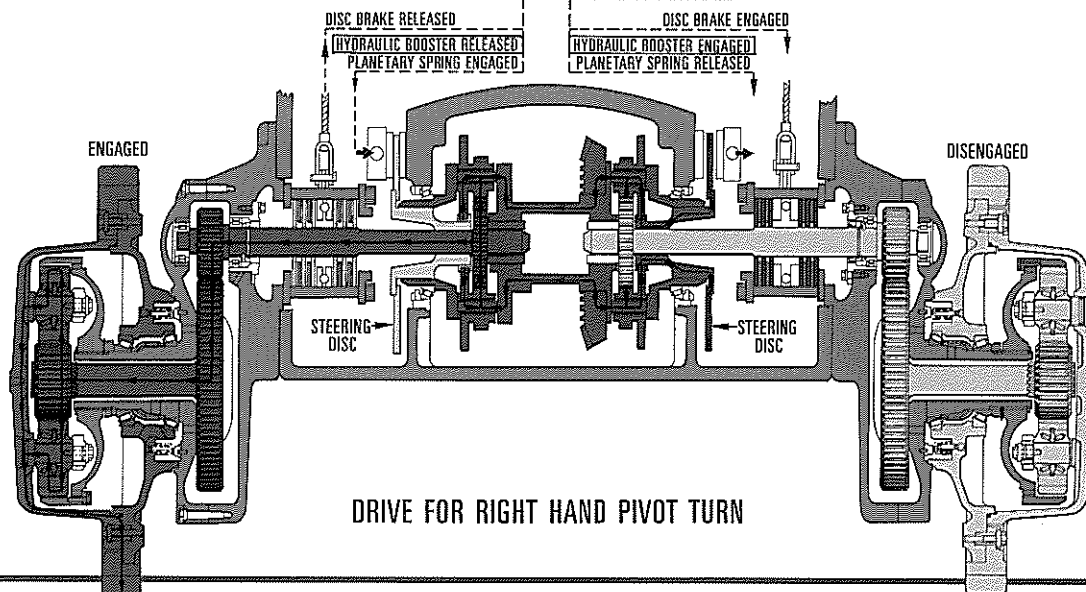
...has oil clutch...this transmission is desirable for work that does not require frequent speed and direction changes. It is a 5-speed forward, 4-speed reverse selective sliding gear type.



"HANDS ONLY" PLANETARY POWER STEERING



The exclusive International "hands only" planetary steering system leaves operator's feet free to decelerate engine speed whenever necessary for precise control, as well as to brake both tracks with a single pedal for quick stops and parking. Pull a steering lever part way back with "one-finger ease" to turn gradually—all the way back for a pivot turn. All parts run in oil for long life.



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CONSTRUCTION EQUIPMENT • INTERNATIONAL HARVESTER COMPANY • CHICAGO, ILLINOIS 60611