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January 1960

International Farm Crawlers: T-4, T-5, & TD 5

Nebraska Tractor Test Lab

University of Nebraska-Lincoln, tractortestlab@unl.edu

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NEW

3 MODELS
2 GASOLINE
1 DIESEL

INTERNATIONAL **Farm Crawlers**

T-4 Gasoline

34.0 Flywheel—26.3 Drawbar
Horsepower*

T-5 Gasoline

40.0 Flywheel—30.9 Drawbar
Horsepower*

TD-5 Diesel

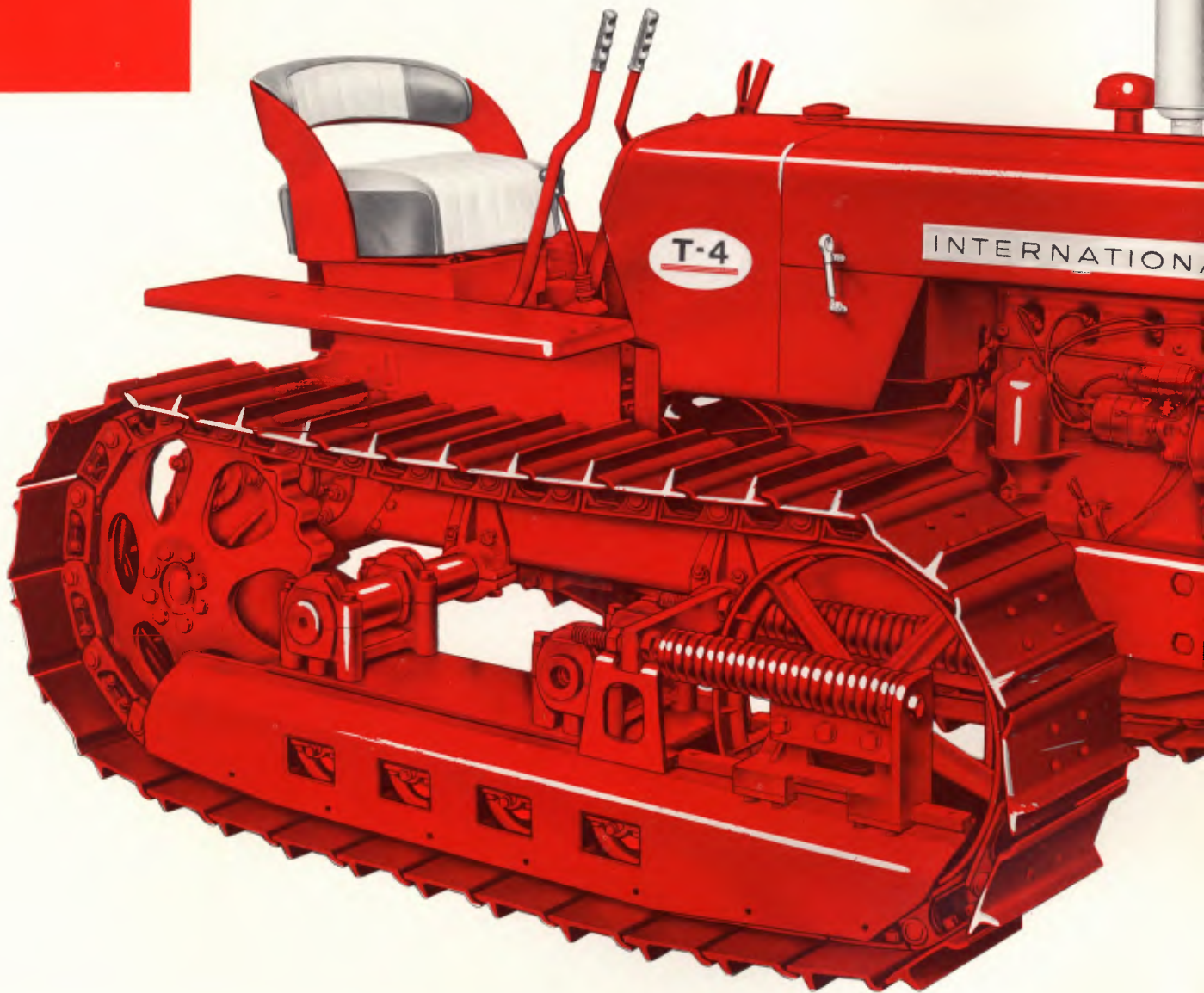
37.0 Flywheel—28.5 Drawbar
Horsepower*

*Estimated



For Every Farm Use

Sure Footed **POWER**



New Crawlers *That Give*

**in new,
compact
cost cutting
sizes**



CRAWLER DESIGNED for CRAWLER PERFORMANCE

Each of these three new IH models has been specifically designed as a crawler for the special performance expected of a crawler—without compromise to wheel tractor manufacture. Heavy-duty engineered throughout, with low centre of gravity and excellent balance. There's a crawler with just the right drawbar horsepower*—26.3 30.9—in gasoline or 28.5 diesel—to give you all-job, all-season usefulness on your farm.

- Traditional IH crawler work-ability, economy, maneuverability and convenience.
- Positive traction on slippery cover, slick crop residues, soft loose sand, muck soil, mud, snow, underbrush or hilly land.
- IH Exclusive—Clean, High Clearance from track to track.
- Torque Amplifier to increase pull power on the go.
- Choice of Speeds to fit your needs... 5 forward—10 with Torque Amplifier.
- Three track gauges — 38", 48" or 68" . 10" shoes only for 38" gauge while 10", 12" or 14" shoes are available for the 48" and 68" gauge.
- Big operator comfort. Easy-chair type adjustable seat. High-level visibility. Full-view, close-grouped instrument panel with convenient operating controls. 3-point or swinging drawbar hitch. Complete hydraulic implement control.

Here are but a few of the wide variety of equipment you may use with these new IH Crawlers.

Big trail-behind farm implements • Front-end loader • Rear mounted winch • Three-Point Hitch implements • Posthole digger (Three-Point Hitch) • Snow Plow • Dozer Blade • Brush-breaker plow.

Now you can have International crawler tractor sure-footed non-compacting traction, stability, and maneuverability in a size and price range never before available from International Harvester.

Compare these new crawlers with anything else on tracks, big or small. You'll soon see why it's your best buy in a compact farm crawler tractor.

**Estimated*

You Unmatched Economy

CHOOSE FROM 3 POWER SIZES CHOOSE DIESEL OR GASOLINE CHOOSE THE OPTIONS YOU NEED



Gasoline

Match Your Crawler To Your Jobs

Standard Transmission (Live)
Power Take-Off

Constant-running
Power Take-Off

Three-point hitch or
swinging drawbar

4 or 5-roller track frame

Torque Amplifier

10-, 12- or 14-inch
track shoes

38*, 48 or 68-inch
track gauge

* With 10" shoes only.

INTERNATIONAL T-4

26.3 Drawbar Horsepower*

Powered by the International C-123 gasoline engine you have 5 forward speed . . . 10 with Torque Amplifier . . . from 1.00 to 6.54 m.p.h. to handle with ease all the jobs in its power range.

Swinging drawbar is standard equipment with 3-point hitch available as an attachment. This latter will operate with all category 1 implements.

**Estimated*

**There's a model specialized to
your farm in this new compact
IH Crawler trio.**



New power and traction for plowing and tillage.



New low-profile power and pull for fruit-farming.

NEW POWER



New, flotation—regardless of soft ground conditions.



New push-and-pull power to move earth—dig ponds and trench silos.

**NOTHING SPARED TO
MATCH POWER
TO YOUR JOBS!**

INTERNATIONAL T-5

30.9 Drawbar Horsepower*

For the farmer who wants additional gasoline power the new International T-5 is built specially to meet his compact crawler requirements. All the outstanding IH features, torque amplifier, choice of track width, 6-volt starting and electrical system, standard swinging drawbar, 3-point hitch are available, and many others make the T-5 a top work producer.

Gasoline

ON TRACKS FOR YOUR FARM

INTERNATIONAL TD-5

There's top diesel economy plus tough lugging power in this new International TD-5. It is equipped with a more powerful version of the famous International engine that set a new standard of high efficiency in the B-275 tractor. This new crawler is a sure footed, power loaded tractor with speeds from 1 to 6.54 m.p.h. so you can select just the right speed for all jobs. Starts easily in any weather with its 12 volt electrical system.

**Estimated*

**28.5 Diesel
Drawbar Horsepower***



SPECIAL ENGINES FOR EVERY MODEL

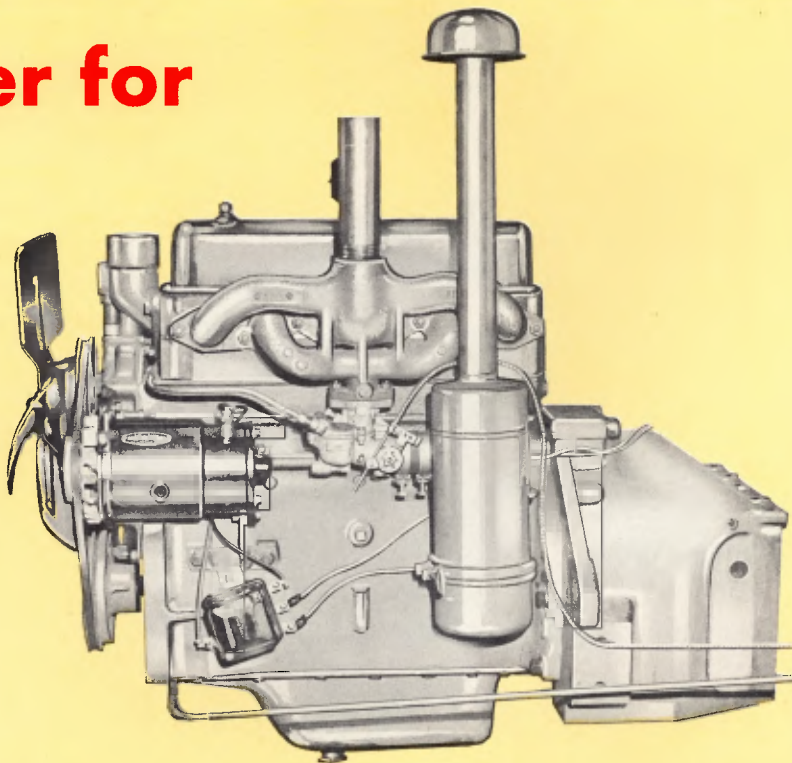
Gasoline Power for

T-4

IH Built C-123

Producing 26.3 horsepower* at the drawbar, here's the rugged 4 cylinder engine with a heavy block not regularly used in crawlers of this size. Big overhead valves high compression, three-ring aluminum pistons, battery ignition, pump circulation cooling—all combine to give you the responsive hard working power you need for crawler operation.

**Estimated*



Gasoline Power for

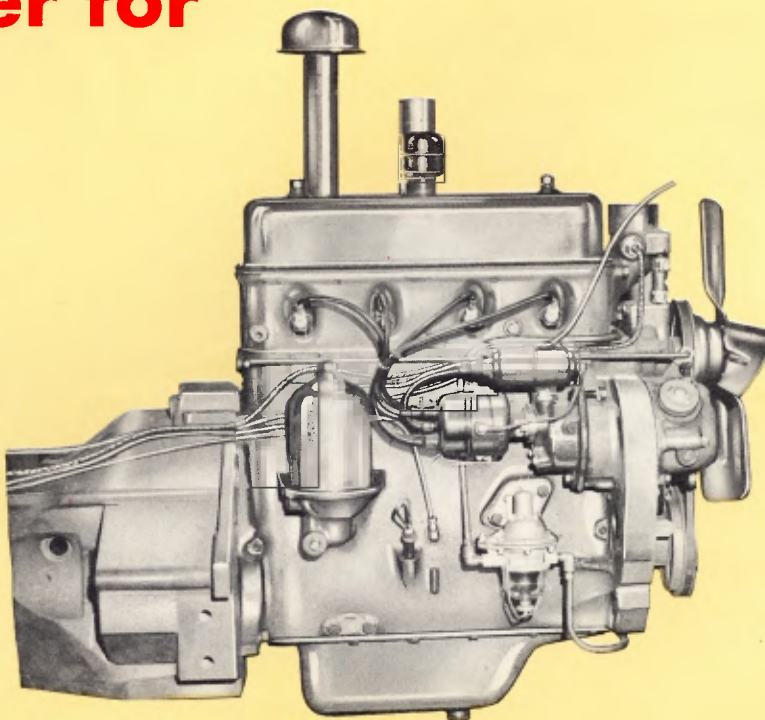
T-5

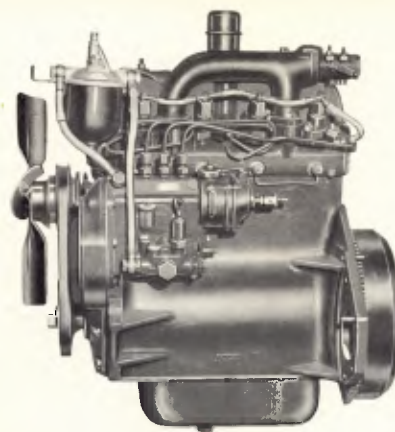
IH Built C-135

The T5 Crawler Tractor engine is designed and built to give you maximum power with outstanding fuel economy. Regular equipment includes: replaceable cylinder sleeves, precision type bearings, full pressure lubrication system and a heavy forged steel counter-balanced crankshaft. Aluminum alloy pistons and strong forged connecting rods deliver 30.9 horsepower* at the drawbar.

Compare . . . point by point . . . the quality built into this engine. You'll quickly see why IH dependable engine design and quality keeps you on the job.

**Estimated*



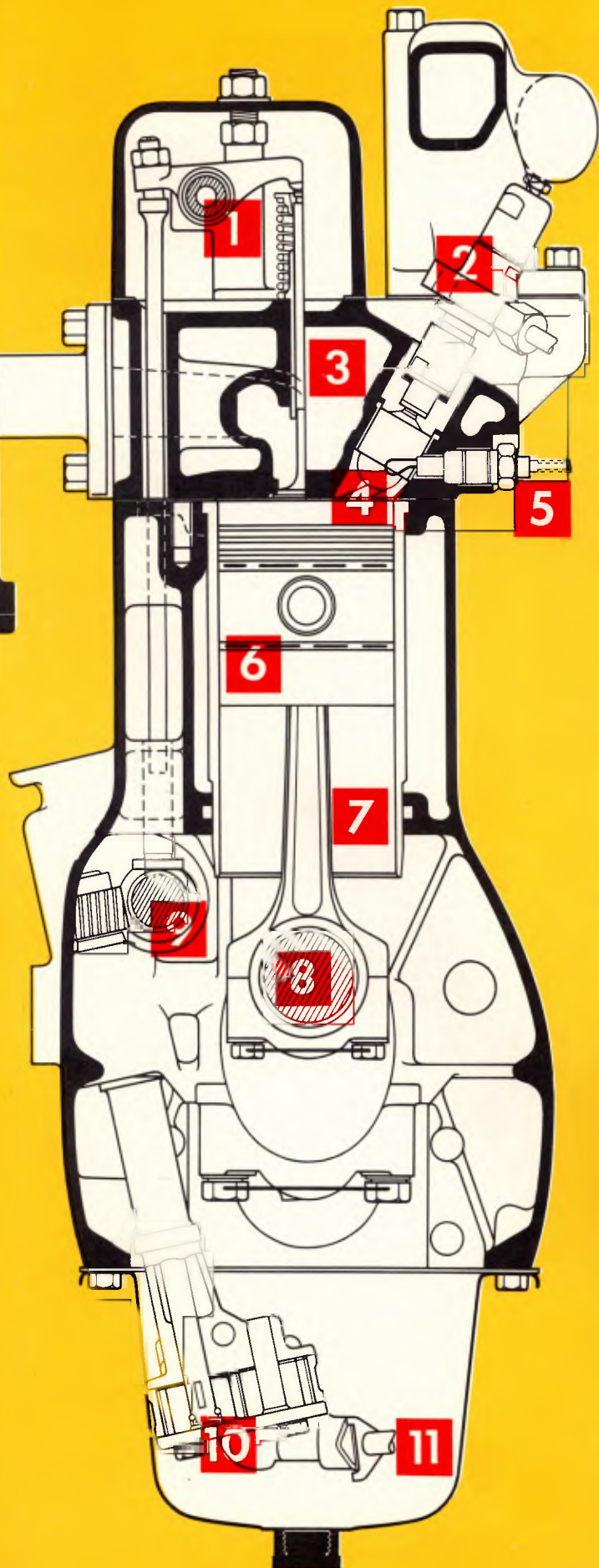


Diesel Power

FOR PERFORMANCE, ECONOMY,
DURABILITY IN THE

TD-5

It's a more powerful version of the famous International B-275 Diesel engine that powers the new TD-5. All-weather electric starting with battery-operated glow plugs makes starting easy—even in the coldest weather.



- 1 Pressure lubricated rocker arm for smooth performance and long life.
- 2 High operating pressure pintle-type nozzles slash maintenance costs by preventing carbon build-up.
- 3 Pressurized cooling system with forced positive circulation by belt driven pump. Thermostat assists fast warm-up and maintains ideal operating temperature.
- 4 International indirect injection type engine develops ample lugging power because pre-combustion chamber design gives complete fuel air mixing for clean, controlled and more complete combustion.
- 5 Pre-combustion chamber mounted glowplugs assist fuel atomisation for the surest all-weather starting.
- 6 Five-ring pistons provide combustion-tight seal for economical running. Top compression ring is chromed for long life.
- 7 Easily replaceable wet sleeves provide full-length water jacket for even dissipation of heat.
- 8 Five main bearing tocco-hardened crankshaft ensures long and dependable life. The shaft is dynamically balanced for vibration-free performance.
- 9 "Chill" hardened and ground cam faces provide long life and ensure silent operation for valve lifting mechanism at all engine operating speeds.
- 10 Oil pump provides continuous pressure to all shell bearings and rocker arm mechanism. "Full-flow" lubrication ensures clean filtered oil for circulation to bearings.
- 11 Floating gauze screen follows oil level to provide positive lubrication at whatever angle the tractor is working.

It's a rugged Crawler Power Train all the way

This simple, direct crawler designed power train is ruggedly built from the engine right through the final drive, to deliver profitable working horsepower at the tracks where you want it . . . need it. Gears, shafts, bearings and housings are all made to take the shocks and strains of hard going crawler operation.

Here's the efficient power train combined with 5 speed transmission (10 with TA) that gives you outstanding lugging ability plus more working horsepower on the drawbar for every ounce of fuel consumed.

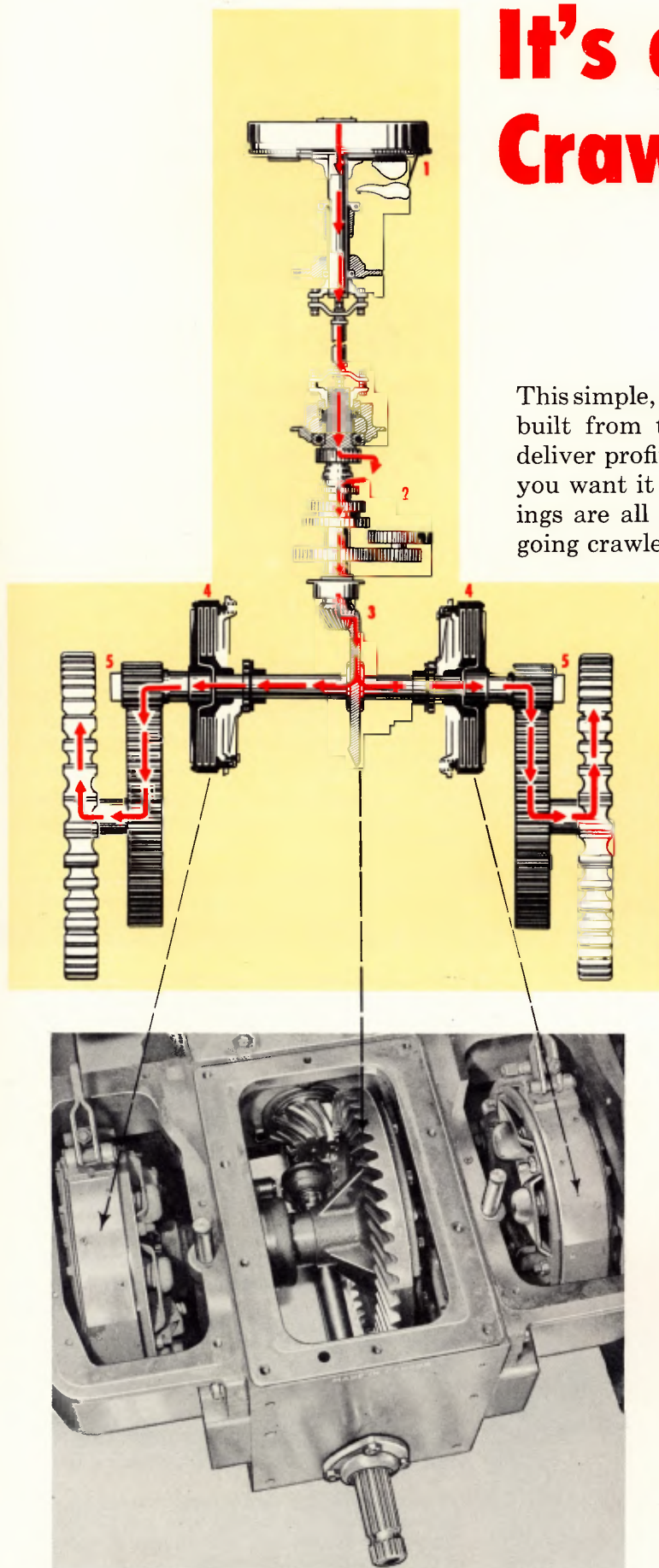
1 Single-disc, dry-type clutch has a 10 inch diameter and is pressurized by 9 tough and heavy springs. This clutch disengages with easy foot-pedal action and always engages smoothly. Adjusting yoke for free pedal travel is easily accessible on outside of housing.

2 Selective Sliding spur gear transmission with five forward and one reverse speeds permit you to match engine power to load and field conditions for maximum work output. All shafts in this transmission rotate on high capacity precision ball and roller bearings. A strong, one-piece case keeps gears in perfect alignment and also serves as a reservoir for the hydraulic oil. Gears are heat-treated and have a tough core for maximum shock resistance. Torque amplifier is available to double the number of speeds available and boost pull power up to 45%.

3 Smooth running drive pinion and ring gear teeth are spiral-cut to increase the area of tooth contact and assure ample strength to absorb shock loads. Tapered roller bearings carry the assembly for smooth power transmitting efficiency. In the lower picture note the sturdy pto drive mounted front and back in ball bearings.

4 Husky multiple disc steering clutches and steering brakes give you instant response for positive, accurate control plus those pivot turns every farmer needs in a crawler. No other crawler gives you such easy servicing accessibility . . . steering brakes can be adjusted in minutes while a complete unit may be changed and adjusted in less than an hour. It's another IH exclusive feature that makes these new crawlers more profitable to operate.

5 Tough heavy duty bull gears mounted on tapered roller bearings carry hard working power to the drive sprocket. This entire assembly is located inside the track frame for that **CLEAN** under-body clearance only a new IH crawler can give you.



An IH Exclusive Design

High Underbody Clearance— CLEAN *From Track to Track*

Just look under these new crawlers. Right through from front to back . . . from track to track there are no under-body obstructions. Final drive housing are built inside the track to give you side to side clearance not available from any other tractor. Then, of course, is that just right centre of gravity for unexcelled tractor stability.



Select the Track Width to Suit Your Operation

38" 48" 68"

Whether it's the 4 or 5 roller model, you can select the track gauge most suitable to your work. You may also select 10", 12" or 14" track shoes in a wide variety of designs. For 38" gauge crawler 10" shoes only are supplied.

Plenty of Crop Clearance

Clean, obstruction free under-body gives you the clearance you need to work above many crops or high trash yet still retain that low silhouette for orchard jobs.

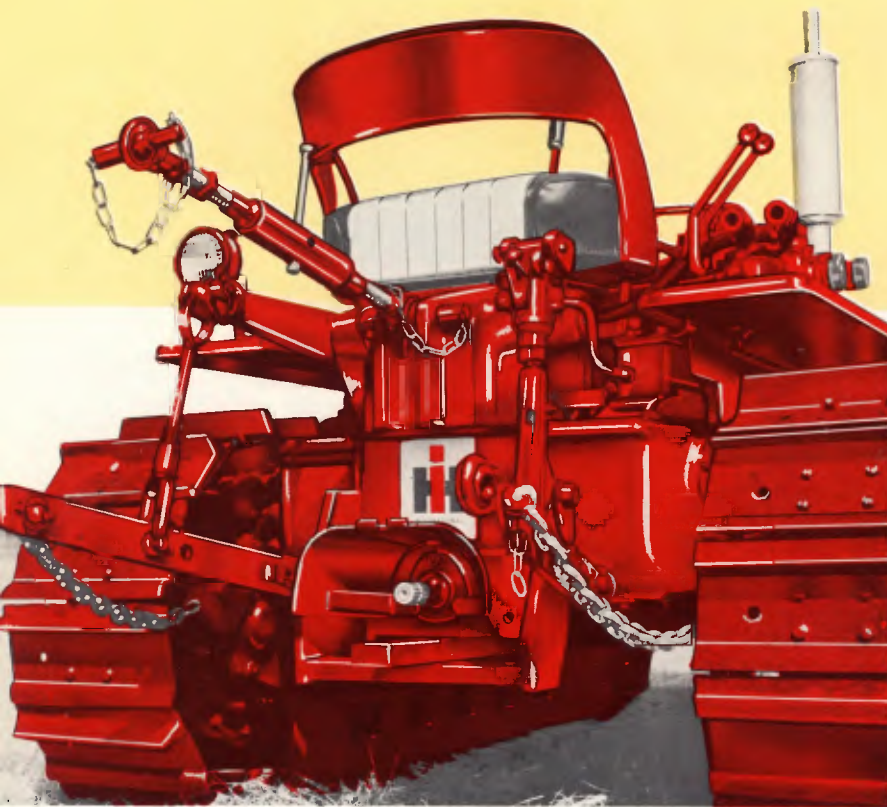
Four or Five Roller Track

Four roller tracks will handle just about all the work on your farm but where extra stability is required for heavy front loader jobs the tractor can be readily equipped with a five roller track frame.

Adjustable Frames

Rigid type track frames are bolted to the main frame in a way they may be moved back or forward from their normal position, making the tractor particularly adaptable to front or rear mounted equipment. The front idler may also be lowered from its normal position to give greater track contact with the ground.

NOW You Can Have **3-POINT HITCH** **or SWINGING** **DRAWBAR** **OR BOTH**



You'll hitch implements fast . . . maintain complete control for all kinds of work . . . when your IH Crawler Tractor is equipped with the hydraulically operated 3-point hitch. As optional equipment to the regular swinging drawbar it will handle all your category 1, 3-point implements. Both hitches may be mounted on the tractor at the same time without interfering with each other.

DRAWBAR EXTENSION

A swinging drawbar extension is available for the crawler tractor equipped with either the standard (live), or constant running power take-off.

Depth Control and Weight Transfer

International Harvester's specially designed 3-point linkage is telescopically designed with compensating springs that hold your ground working tools to a constant depth.



Here's the 7-foot 3-point hitch C-920 Harrow working with the TD-5. This hitch is also available for the T-4 and T-5 and will handle all Category 1 implements.



Made of the toughest steel to take the heavy and prolonged strains of rough field work, the swinging drawbar hitch is standard equipment.

Unmatched



TORQUE AMPLIFIER

Now On A Farm Crawler

• Boosts PULL POWER ON THE GO

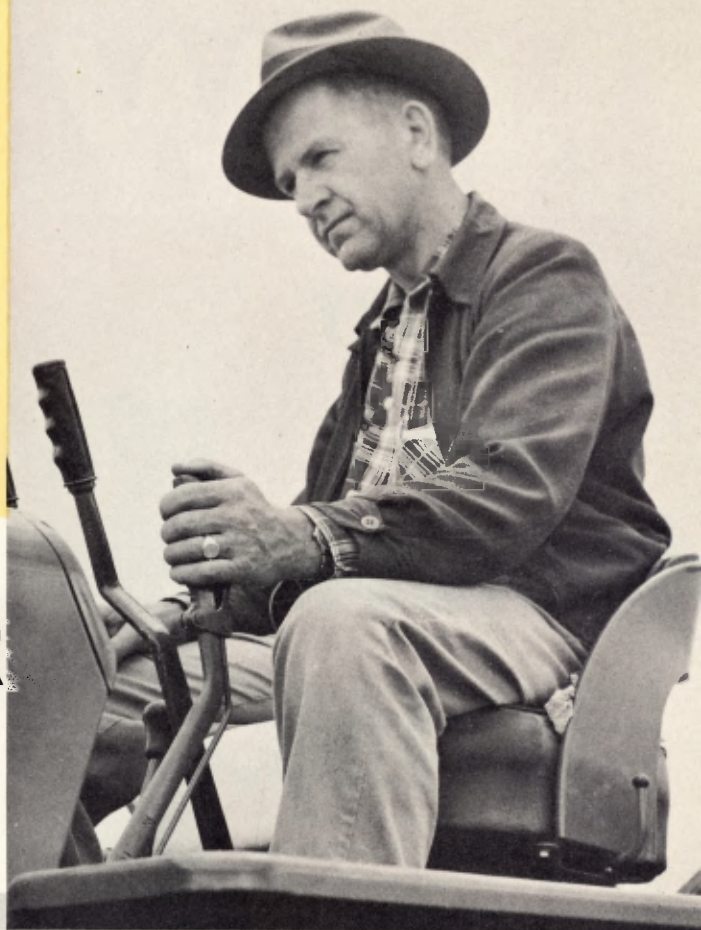
You get twice as many speeds with Torque Amplifier—10 forward and two reverse—to give you the just right pace for every job and condition. With this wide choice of speeds, and the on-the-go speed change, TA lets you work faster, do up to 15% more every day.

**TA
GIVES YOU
TEN
FORWARD
SPEEDS**

The More You Use TA—The More You Appreciate It

You'll use it on heavy work... save time and money with its on-the-go increase in pull-power. You'll find it invaluable with all power-driven machines—just pull the lever, slow down one-third to handle crops without slowing pto speed.

When you hit a tough spot and there's danger of stalling out or shifting down, just pull the TA lever. Pull power is increased up to 45%. You breeze through the heavy going without a pause. Release TA when you're past the tough going and you're back in regular gear. However you farm, TA helps you do more every hour, every day, easier than ever before.



Standard Transmission (Live) or Constant Running PTO

All your power take-off jobs can be easily handled by any of these three new tractors.

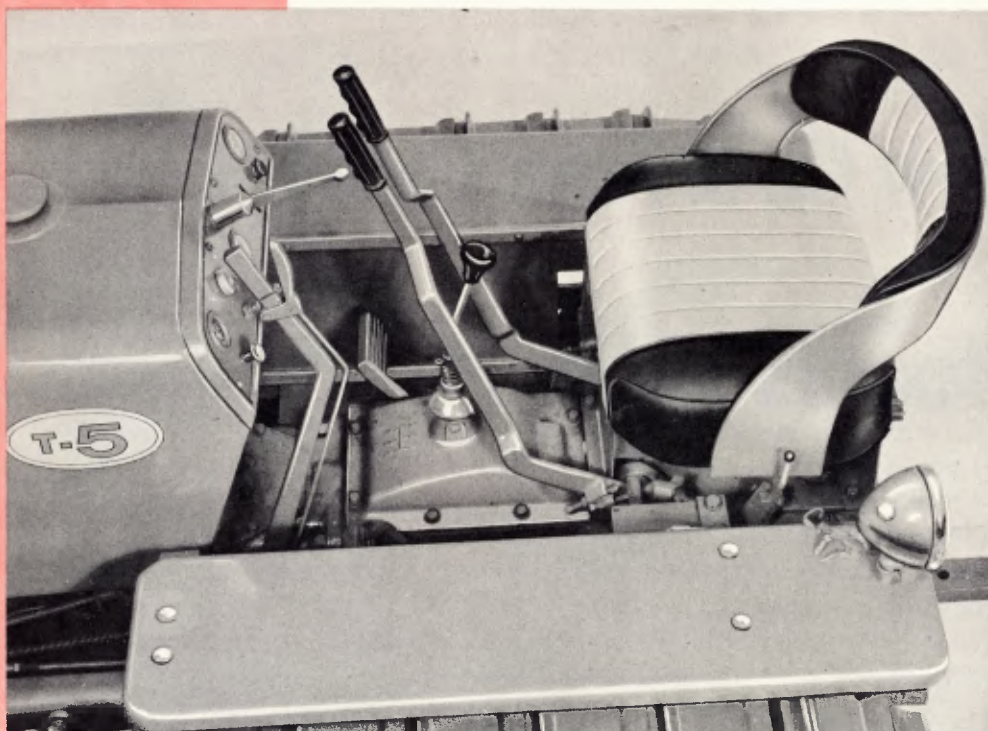
Standard five speed transmission tractors may be equipped with standard transmission (live) pto while TA models take either standard (live) or constant running pto. For baling, combining or any other pto operated equipment the constant running pto is controlled by a two position clutch. Partial depression of the clutch pedal cuts out tractor forward motion only to leave the pto in operation. Pushing the clutch pedal to the floor cuts out the pto.

NEW

HYDRAULIC POWER

COMFORT AND CONVENIENCE

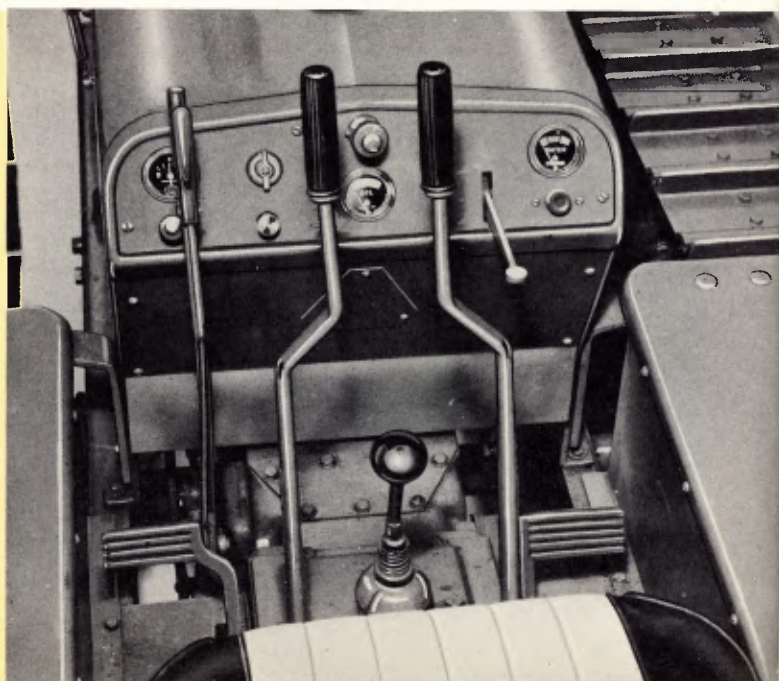
Every crawler model has an adjustable fore and aft easy-chair type foam rubber seat with curved back support — read at-a-glance instrument panel with easy-to-reach operating controls plus many built in features to make your farm work easier.



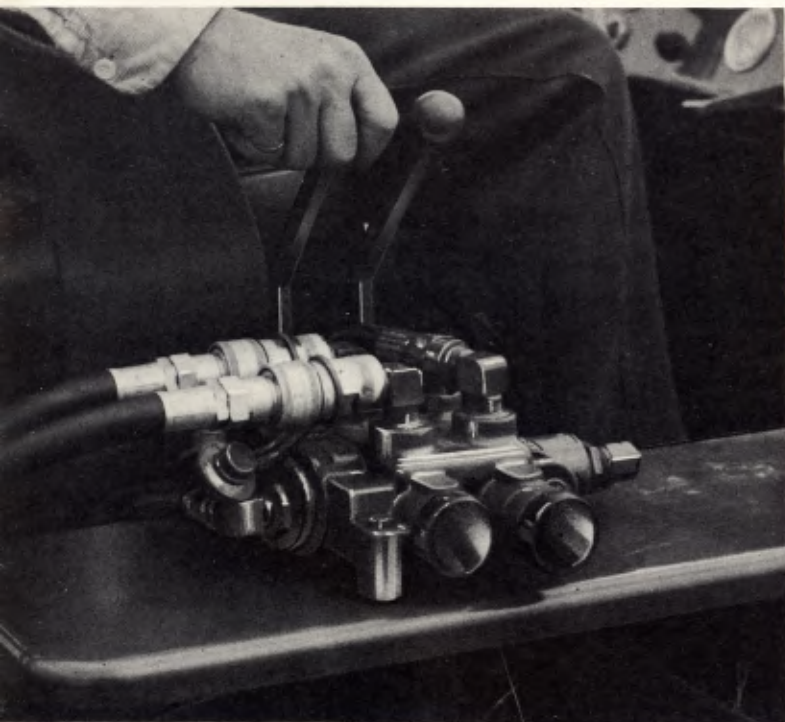
- Simple shifting pattern with gears arranged in progression saves you effort and time.
- Gasoline models have 6-volt electrical system—Diesel has 12 volt.
- Front and rear work lights throw a powerful beam up and down the field for safe, efficient night work. Dash light illuminates the panel.
- Steering linkage is conveniently located under the seat for rapid, accurate adjustment.
- Simple servicing of master clutch . . . in fact these new IH Crawlers cannot be equaled for servicing convenience . . . see your IH dealer and have him show you just how easy servicing is.

Production-Boosting Operator's Compartment

- All weather electric push button starting
- Instant "on-the-go" action from all controls
- Full view of centralized instrument panel
- Easy to reach Push-pull type ignition switch



Where You Want it for

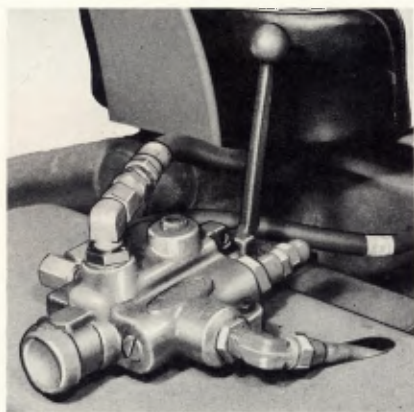


Complete Implement Control

There's no groping behind you, no unnatural operating pattern with the crawler hydraulics. Control levers are just to the right of the seat on the fender within easy arm's reach. Just push or pull the handy lever for the powerful, fast acting hydraulics that give instant, precise remote control for operating your trail-behind implements or three-point hitch tools. A pressure loaded gear type pump provides positive acting hydraulic power for raising, lowering and adjusting

working depth anytime the engine is running.

A four position valve with a single control lever is used in conjunction with the three point hitch system, whereas a three position valve, also with a single control lever is used when the tractor is equipped with the remote control system. A combination valve with two control levers is available for operating both the three-point hitch and the remote control systems from the same tractor.

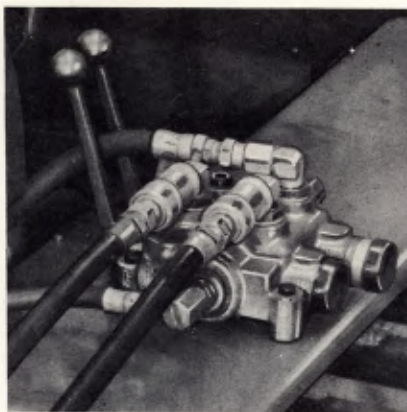


3-Point Hitch Control

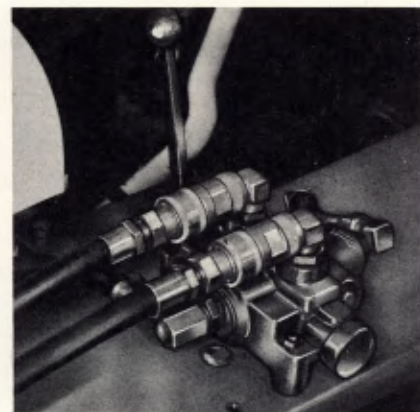
Either of these smooth, quick acting valves will raise lower and adjust 3 point hitch implements while the rear lever on the combination valve (right) operates remote control cylinder on trail-behind implements.

Ease the lever in and the implement raises, out lowers it. When the lever is released it automatically returns to hold position.

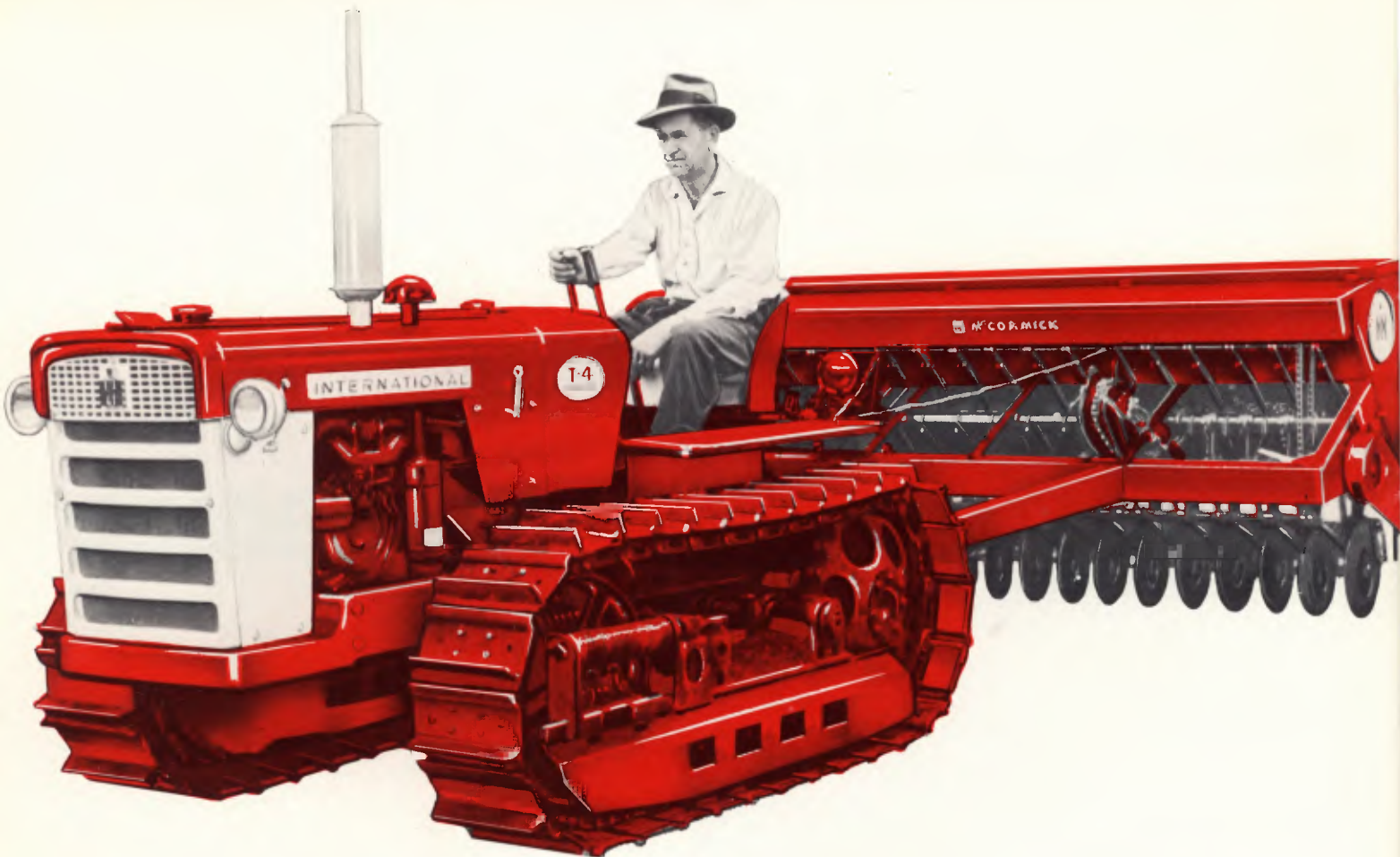
Mounted implements may be automatically locked in the float position to follow the ground contour.



3-Point Hitch and Remote Control



Here's the single hydraulic remote control valve to give instant and effortless control of pull-behind implements equipped with double acting cylinder.



NEW ECONOMY AND EFFICIENCY FOR ALL JOBS

- Plowing
- Digging Ponds
- Digging Trench Silos
- Tile Laying
- Ditching and Drainage
- Land Clearing
- Snow Removal
- Farm Road Building
- Tillage
- Brush Breaking
- Small Building Moving
- Hauling Wood
- Bush Work
- Working in Marsh Areas
- Custom Work
- Baling
- Ideal in Sugar Bush
- Manure Handling
- Posthole Digging
- Planting and Transplanting
- Orchard Spraying
- Irrigation Work
- Water Pumping



CHISEL PLOW

DISK HARROWING



SPECIFICATIONS

FLYWHEEL HORSEPOWER—From observed performance corrected to sea level barometric pressure (29.92 inches of Hg) and 60° F.

	T-4	T-5	TD-5
Flywheel*	34.0	40	37.0
Drawbar*	26.3	30.9	28.5

*Estimated Horsepower

SPEEDS

Gear	Std. Transmission	† Torque Amplifier
1st	1.48 M.P.H.	1.00 M.P.H.
2nd	2.26	1.53
3rd	3.58	2.42
4th	4.79	3.23
5th	6.54	4.31
Reverse	2.12	1.43

†TA optional equipment.

ENGINE	Type	T-4	T-5	TD-5
		C-123	C-135	BD-144
		Gasoline	Gasoline	Diesel
Number of Cylinders		4	4	4
Bore & Stroke		3 1/8 x 4	3 1/4 x 4 1/16	3 3/8 x 4
Piston Disp. Cu. Inches		123	135	144
Rated Governed Speed		2000	2000	2000
Electrical System		6 Volt	6 Volt	12 Volt

ELECTRICAL STARTING AND LIGHTING—Electric starting and lighting system with battery ignition includes starting motor, generator, batteries, two head lights, one rear light combination and dash light. Systems are 12 Volts on diesel and 6 Volts on gasoline.

ENGINE CLUTCH—Single-plate—spring loaded

Diameter..... 10 in.

TRANSMISSION—Selective sliding gear type.

Alloy steel heat treated gears: gear ratio..... 4.89:1

STEERING CLUTCHES—Multi-Disc—(one for each track)

Diameter..... 9 in.

Friction surfaces (each clutch)..... 14

Effective friction area (each clutch)..... 550 sq. in.

STEERING BRAKES (one for each track)

Diameter..... 10 3/4 in.

Friction area (each brake)..... 63 sq. in.

FINAL DRIVE—Speed reduction ratio, bull gears..... 4.46:1

TRACK DIMENSIONS

	4 Roller Frame	5 Roller Frame
Gauge (Centre to Centre of Tracks)	38, 48, 68"	38, 48, 68"
Length of Tracks on Ground	56"	68"
Track Shoe Width, Regular	10"	10"
Height of Grouser	2"	2"
Track Pin Diameter	1"	1"
Track Pin Bushing Diameter	1.47"	1.47"
Track Shoe Bolts (Heat Treated)	7/16"	7/16"
Track Driving Sprocket Pitch Diameter	24.047"	24.047"
Number of Track Rollers (1 side)	4	5
Number of Track Idlers (1 side)	0	1
Number of Track Shoes (1 side)	31	35
Area of Contact with 10" Shoes		
Total Sq. Inches	1120	1360

TRACTOR DIMENSIONS:

Length Overall	100.5"
Width—Std. Shoe—38" Gauge	49"
Height—Hood Top	47.5"
Minimum Ground Clearance	14.5"
Drawbar Height	17.0"
Drawbar, lateral movement at pin	13.5"

CAPACITIES (Imperial Gallons)

Cooling System	2.5 gallons
Fuel Tank	13.3 gallons
Engine lubrication, including filters	5 quarts
Transmission Case (including T.A.)	5 gallons
Final Drive (each)	1 quart
Air Cleaner	1 pint

Specifications are subject to change without notice.

OPTIONAL EQUIPMENT—Three-point or swinging drawbar hitch • Torque Amplifier • Constant-running Power Take-Off • Transmission Power Take-Off (Live) • 4- or 5-roller track frame • 10- 12- or 14-inch track shoes • 38", 48- or 68-inch track gauge

*With 10" shoes only

INTERNATIONAL HARVESTER COMPANY

180 NORTH MICHIGAN AVENUE • CHICAGO 1, ILLINOIS