

INTERNATIONAL

CRAWLERS

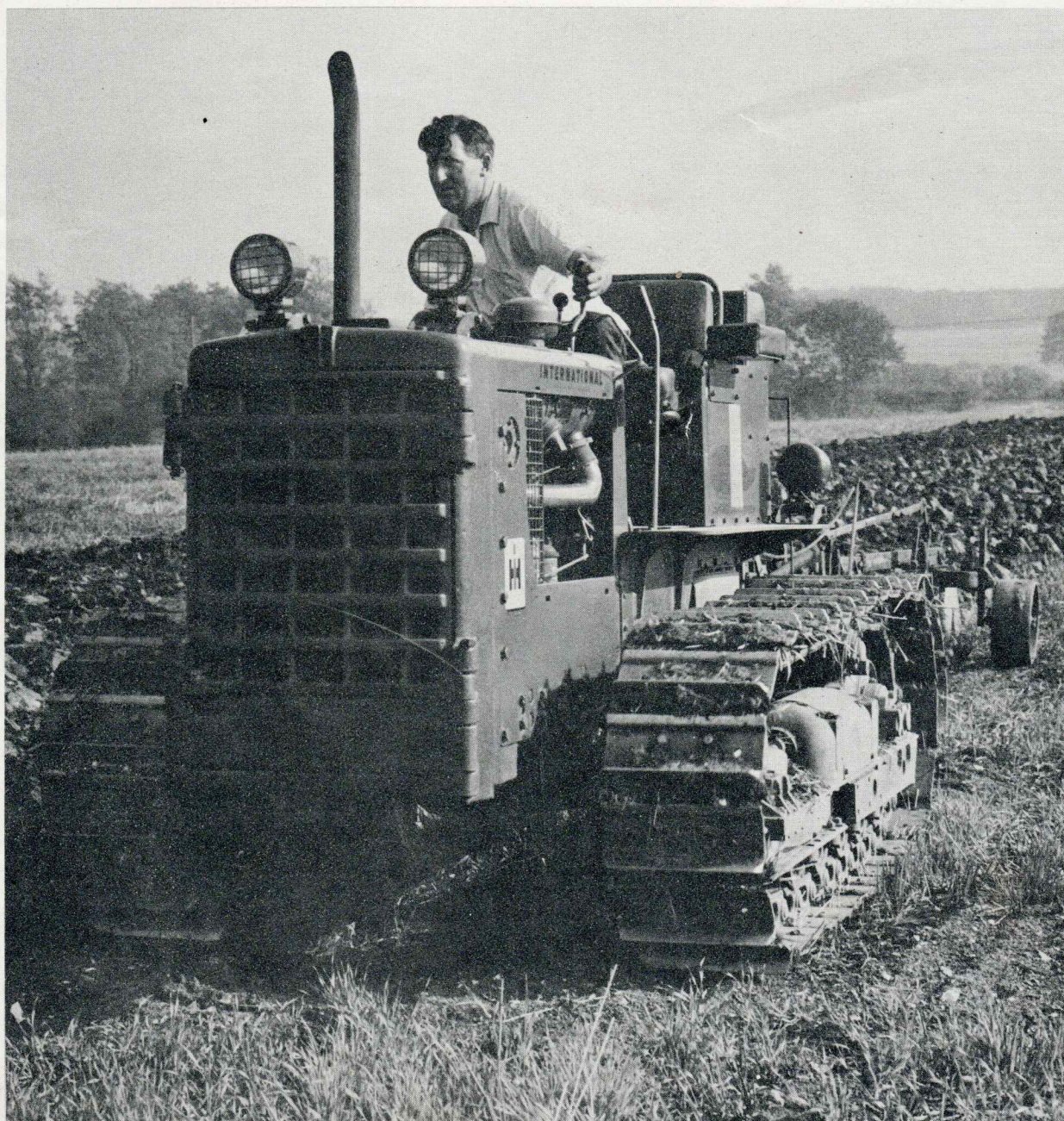
BTD-6

TD-8

BTD-20 Farm Crawlers



**INTERNATIONAL
HARVESTER**



CRAWLERS

| | BTD-6 | | TD-8 | | BTD-20 | |
|--|-------------------------------|--------------------|-----------------------------------|--------------------|--------------------------------|----------------------|
| ENGINE Four-stroke naturally aspirated, all weather starting, diesel. | | | | | | |
| Model | International BD-264 | | International BD-281 | | RR C6N.F.R. - 148D | |
| No. of cylinders | 4 | | 4 | | 6 | |
| Bore and stroke | 101.6 x 133.4mm 4 x 5.25in | | 104.8 x 133.4mm 4.125 x 5.25in | | 130.2 x 152.4mm 5.125 x 6in | |
| Piston displacement | 4.326 ltr | 264in ³ | 4.602 ltr | 281in ³ | 12.172 ltr | 742.6in ³ |
| Rated governed engine speed | 1600 rev/min | | 1600 rev/min | | 1550 rev/min | |
| Max. torque (Gross) | 28.95 kg m | 210 lb ft | 30.5 kg m | 220 lb ft | N/A | |
| Max torque (Nett) | 28 kg m | 203 lb ft | 29.25 kg m | 212 lb ft | 66.3 kg m | 480 lb ft |
| Erpm at max torque | 1100 rev/min | | 1200 rev/min | | 1150 rev/min | |

Horsepower

| | | | |
|-----------------------------------|------|------------------|-------------------|
| Horsepower B.H.P. (Gross) | 55 | 62.5 | N/A |
| Engine horsepower (nett) flywheel | 50.5 | 58 | 135 |
| Belt horsepower | 47.9 | 55.6 | N/A |
| Drawbar horsepower | 40.6 | 51.2 (estimated) | 112.5 (estimated) |

Drawbar Pull

Drawbar pull at rated engine governed speed: (calculated)

| | kg | | lb | | kg | | lb | |
|-----------|------|-------|------|-------|-------|-------|----|--|
| Gears 1st | 5045 | 11130 | 5965 | 13180 | 12280 | 27050 | | |
| 2nd | 3330 | 7350 | 4325 | 9550 | 9300 | 20550 | | |
| 3rd | 2170 | 4790 | 3155 | 6960 | 7560 | 16700 | | |
| 4th | 1630 | 3600 | 2240 | 4940 | 5345 | 11800 | | |
| 5th | 997 | 2200 | 1337 | 2945 | 3570 | 7870 | | |
| 6th | | | | | 2030 | 4480 | | |

Drawbar pull at max torque: (calculated)

| | | | | | | |
|-----------|------|-------|------|-------|-------|-------|
| Gears 1st | 6300 | 13900 | 6750 | 14900 | 12890 | 28400 |
| 2nd | 4260 | 9400 | 4940 | 10900 | 9870 | 21800 |
| 3rd | 2885 | 6370 | 3640 | 8030 | 8060 | 17800 |
| 4th | 2265 | 5000 | 2640 | 5820 | 5770 | 12750 |
| 5th | 1433 | 3160 | 1655 | 3650 | 3965 | 8750 |
| 6th | | | | | 2260 | 4980 |

Calculated maximum sustained pull 1st gear forward (assuming adequate weight and traction).

| | | | | | | |
|----|------|-------|------|-------|-------|-------|
| kg | 6655 | 14700 | 7500 | 16550 | 14500 | 32000 |
|----|------|-------|------|-------|-------|-------|

Ground Speeds

Forward speeds computed at rated engine speed

| | km/h | | mile/h | | km/h | | mile/h | |
|-----------|-------|------|--------|------|-------|------|--------|--|
| Gears 1st | 2.31 | 1.44 | 2.33 | 1.45 | 2.52 | 1.57 | | |
| 2nd | 3.36 | 2.09 | 3.12 | 1.94 | 3.30 | 2.05 | | |
| 3rd | *4.76 | 2.96 | *4.10 | 2.55 | 4.02 | 2.50 | | |
| 4th | 5.85 | 3.63 | 5.39 | 3.35 | 5.49 | 3.41 | | |
| 5th | 8.25 | 5.13 | 7.65 | 4.75 | 7.63 | 4.74 | | |
| 6th | | | | | 11.80 | 7.32 | | |

Reverse speeds computed at rated engine speed

| | | | | | | |
|-----------|-------|------|-------|------|-------|------|
| Gears 1st | 2.64 | 1.64 | 2.75 | 1.71 | 3.02 | 1.88 |
| 2nd | *5.33 | 3.31 | *4.52 | 2.81 | 3.94 | 2.45 |
| 3rd | | | | | 4.81 | 2.99 |
| 4th | | | | | 6.56 | 4.08 |
| 5th | | | | | 9.13 | 5.67 |
| 6th | | | | | 14.10 | 8.76 |

*High reverse is available in the BTD-6 and TD-8 as an attachment in place of the third forward speed.

Starting and lighting

12 volt electric starting and lighting. Safety key isolation switch. Starter motor. Glow plugs. Resistance indicator. Generator. Batteries. 2 headlights and rear light.

24 volt starting. 12 volt lighting. Starter motor. Generator. Batteries. 2 headlights and rear lights.

Engine Clutch - over centre with automatic clutch brake.

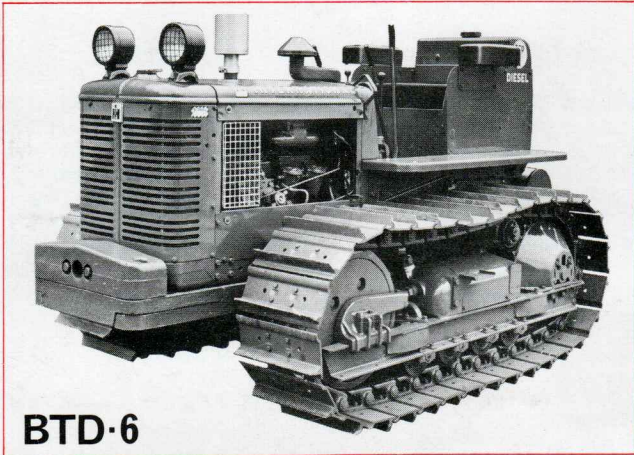
| Type | Single plate | | Single plate | | Double plate | |
|----------|--------------|------|--------------|------|--------------|------|
| Diameter | 330mm | 13in | 330mm | 13in | 406mm | 16in |

CRAWLERS

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|---|---|----------------------|--|----------------------|--|-----------------------|
| Transmission | Spiral bevel gears, tapered roller bearings, threaded spacer. | | | | | |
| Type | Selective sliding gear type, carburised alloy steel gears. | | Selective sliding gear type, carburised alloy steel gears. | | Fully reversible with gear selection lever and directional lever - oil pump and filter. | |
| Tooth angle | 20° | | 30° | | 30° | |
| Ratio | 4.22:1 | | 4.20:1 | | 4.22:1 | |
| Steering Clutches | | | | | | |
| Diameter | 276mm | 10.875in | 276mm | 10.875in | 381mm | 15in |
| Effective friction surfaces (each clutch) | 20 | | 20 | | 30 | |
| Effective friction area (each clutch) | 5701cm ² | 883.6in ² | 5701cm ² | 883.6in ² | 11387cm ² | 1765.5in ² |
| Steering Brakes | | | | | | |
| Diameter | 307mm | 12.125in | 307mm | 12.125in | 431mm | 17in |
| Swept friction area (each brake) | 614.6cm ² | 95.25in ² | 614.6cm ² | 95.25in ² | 1377cm ² | 213.6in ² |
| Final Drive | | | | | | |
| Type | Mounted on tapered roller bearings | | Double reduction Planetary final drive | | Mounted on ball and roller bearings crown shaved pinion | |
| Speed reduction ratio, bullgears | 4.916:1 | | 6.983:1 | | 6.27:1 | |
| Track Dimensions | | | | | | |
| No. of track rollers (each side) | 4 | | 4 | | 6 | |
| No. of track idlers (each side) | 1 | | 1 | | 2 | |
| No. of track shoes (each side) | 32 | | 31 | | 40 | |
| Gauge; centre to centre to track | 1270mm | 50in | 1372mm | 54in | 1880mm | 74in |
| Length of track on ground | 1488mm | 58.6in | 1613mm | 63.5in | 2388mm | 94in |
| Height of grouser | 49mm | 1.94in | 53.3mm | 2.1in | 57mm | 2.25in |
| Track pin diameter | 31.7mm | 1.25in | 35mm | 1.375in | 44mm | 1.75in |
| Track pin bushing diameter | 45.7mm | 1.8in | 52mm | 2.05in | 66mm | 2.6in |
| Track shoe bolt diameter | 11.2mm | 0.44in | 12.7mm | 0.5in | 16mm | 0.62in |
| Track driving sprocket pitch diameter | 615mm | 24.19in | 609mm | 24in | 884mm | 34.8in |
| Standard track shoe width | 356mm | 14in | 356mm | 14in | 508mm | 20in |
| Area of ground contact | 10600cm ² | 1643in ² | 11468cm ² | 1778in ² | 24258cm ² | 3760in ² |
| Pull bracing grouser area | 3510cm ² | 543in ² | 4192cm ² | 650in ² | 7613cm ² | 1180in ² |
| Tractor Dimensions | | | | | | |
| Length overall | 2641mm | 104in | 2940mm | 115.8in | 4195mm | 165.12in |
| Width overall | 1625mm | 64in | 1730mm | 68in | 2388mm | 94in |
| Height - less exhaust pipe from soft ground line | 1530mm | 60.25in | 1714mm | 67.5in | 2280mm | 89.7in |
| Turning radius calculated | 1880mm | 74in | 2006mm | 79in | 2769mm | 109in |
| Ground clearance at equalizer spring | 185mm | 7.3in | 220mm | 8.6in | 355mm | 14in |
| Drawbar height from centre line of clevis | 311mm | 12.25in | 318mm | 12.5in | 400mm | 15.75in |
| Drawbar lateral movement at pin | 501mm | 19.75in | 501mm | 19.75in | 794mm | 31.25in |
| Capacities | | | | | | |
| Cooling system | 43 ltr | 9.5 gal | 24.4 ltr | 5.37 gal | 40.9 ltr | 9 gal |
| Fuel tank | 76 ltr | 16.75 gal | 116 ltr | 25.5 gal | 268.2 ltr | 59 gal |
| Engine lubrication | 9.1 ltr | 2 gal | 9.1 ltr | 2 gal | 31.8 ltr | 7 gal |
| Transmission | 18.2 ltr | 4 gal | 13.6 ltr | 3 gal | 40.5 ltr | 8.9 gal |
| Final drive cases | 1.13 ltr | 0.25 gal | 2.2 ltr | 0.5 gal | 9.55 ltr | 2.1 gal |
| Steering clutch control unit | Mechanical linkage | | Mechanical linkage | | 5.68 ltr | 1.25 gal |
| Air cleaner cup | 1.13 ltr | 0.25 gal | Dry type | | Dry type | |
| Operating Weight - Tractor standard equipment including fuel, oil and water. | | | | | | |
| Total | 4129 kg | 9100 lb | 5227 kg | 11500 lb | 13744 kg | 30300 lb |

INTERNATIONAL

FARM CRAWLERS



BTD-6

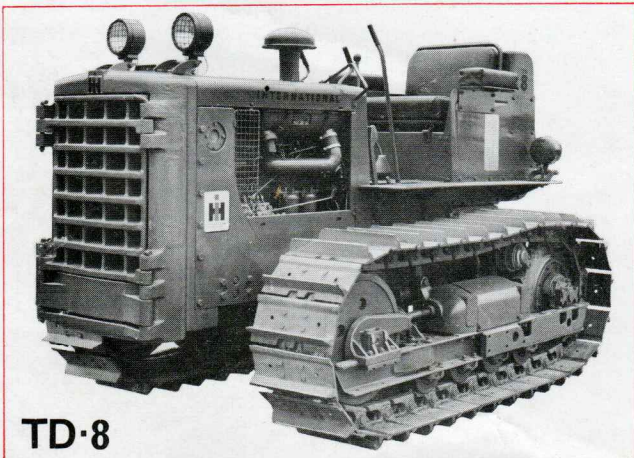
International 50.5 nett hp BD-264 diesel. 330mm (13in) overcentre clutch. 5 forward, 1 reverse speed. Swinging drawbar. 12 volt electrical system. 2 x 6 volt batteries. Head, rear and dash lights. Service meter. Lubrication oils. Wide upholstered seat. 76 ltr (16.75 gal) fuel tank. Heavy duty all purpose front idlers. Front idler weight. Sprocket drive housing rock shield. Equaliser spring. 4 roller oscillating track frame and 356mm (14in) clipped corner track shoes.

Alternative Track Equipment

5 roller extended oscillating track frame. 305, 406, 457 and 508mm (12, 16, 18 and 20in) clipped corner track shoes. 305, 356, 406, 457 and 508 mm (12, 14, 16, 18 and 20in) square corner track shoes. Double flange track roller. Heavy duty track roller shield.

Attachments

Crank case guard. Front pull hook for use with crankcase guard. Rear pto. Reduced speed pto with drawbar extension. Hood side doors. Headlamp brush guards. Belt pulley and rear pto. Radiator shutter. Front pto coupling. Air pipe extension. Radiator guard and front bumper. Radiator guard only. Front end weights, 181.4 and 317.5 kg (400 lbs and 700 lbs) not available when crankcase guard is fitted. Exhaust rain cap. Front end hydraulic pump. Front pto drive and hydraulic pump. Standard toolkit. De-luxe toolkit.



TD-8

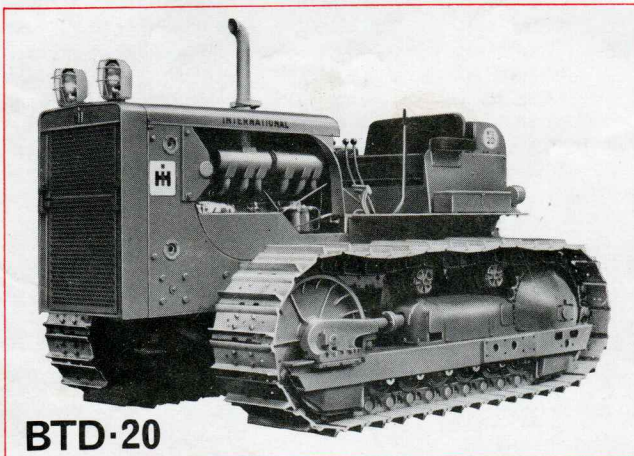
International 58 nett hp BD-281 diesel. 330mm (13in) overcentre clutch. 5 forward, 1 reverse speed. Swinging drawbar. 12 volt electrical system. 2 x 6 volt batteries. Head, rear and dash lights. Service meter. Lubricating oils. Wide upholstered seat. 116 ltr (25.5 gal) fuel tank. Heavy duty all purpose front idler. Front idler weights. Sprocket drive housing rock shield. Front end weight. Equaliser spring. Planetary final drive. Donalclone dry type air cleaner. Twin fuel filters. Vertical exhaust with underhood muffler. 4 roller oscillating track frame and 356mm (14in) clipped corner track shoes.

Alternative Track Equipment

5 roller extended oscillating track frame. 406, 457, 508 and 610 mm (16, 18, 20 and 24 in) clipped corner track shoes. 356, 406, 457, 508 and 610mm (14, 16, 18, 20 and 24in) square corner track shoes. 305 and 356mm (12 and 14in) three bar low grouser track shoes. Heavy duty track roller shield. Double flange track roller.

Attachments

Crank case guard. Front pull hook (for use with crankcase guard). Rear pto. Hoodside doors. Headlamp brush guard. Belt pulley and rear pto. Standard toolkit. De-luxe toolkit.



BTD-20

Rolls Royce 135 nett hp diesel. 406mm (16in) double plate overcentre clutch. 6 forward, 6 reverse speeds. Swinging drawbar. 12 volt lighting and 24 volt starting system. 4 x 6 volt batteries. Head, rear and dash lights. Service meter. Lubricating oils. Adjustable wide upholstered seat. 268.2 ltr (59 gal) fuel tank. Open type front idlers. Sprocket drive housing rock shield. Equaliser spring. Donalclone dry type air cleaner. Vertical exhaust with underhood muffler. 6 roller oscillating track frame with 508 mm (20 in) clipped corner track shoes.

Alternative Track Equipment

Heavy duty enclosed front idler. Large diameter front idler. Cut-away sprocket. Heavy duty sprocket drive housing rock shield. 599 and 813mm (22 and 32in) clipped corner track shoes.

Attachments

Radiator shutter. Track roller shield. Crankcase guard. Front pull hook (for use with crankcase guard). Headlamp brush guards. Fuel strainer. Standard radiator guard. Decelerator. 686mm (27in) toolbox. Standard toolkit. De-luxe toolkit.

The Company's policy is one of continuous improvement and development, therefore specifications are subject to change without notice. Illustrations may include optional equipment and accessories and may not include all standard equipment.

YOUR IH DEALER IS

**INTERNATIONAL HARVESTER COMPANY OF GREAT BRITAIN LIMITED,
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