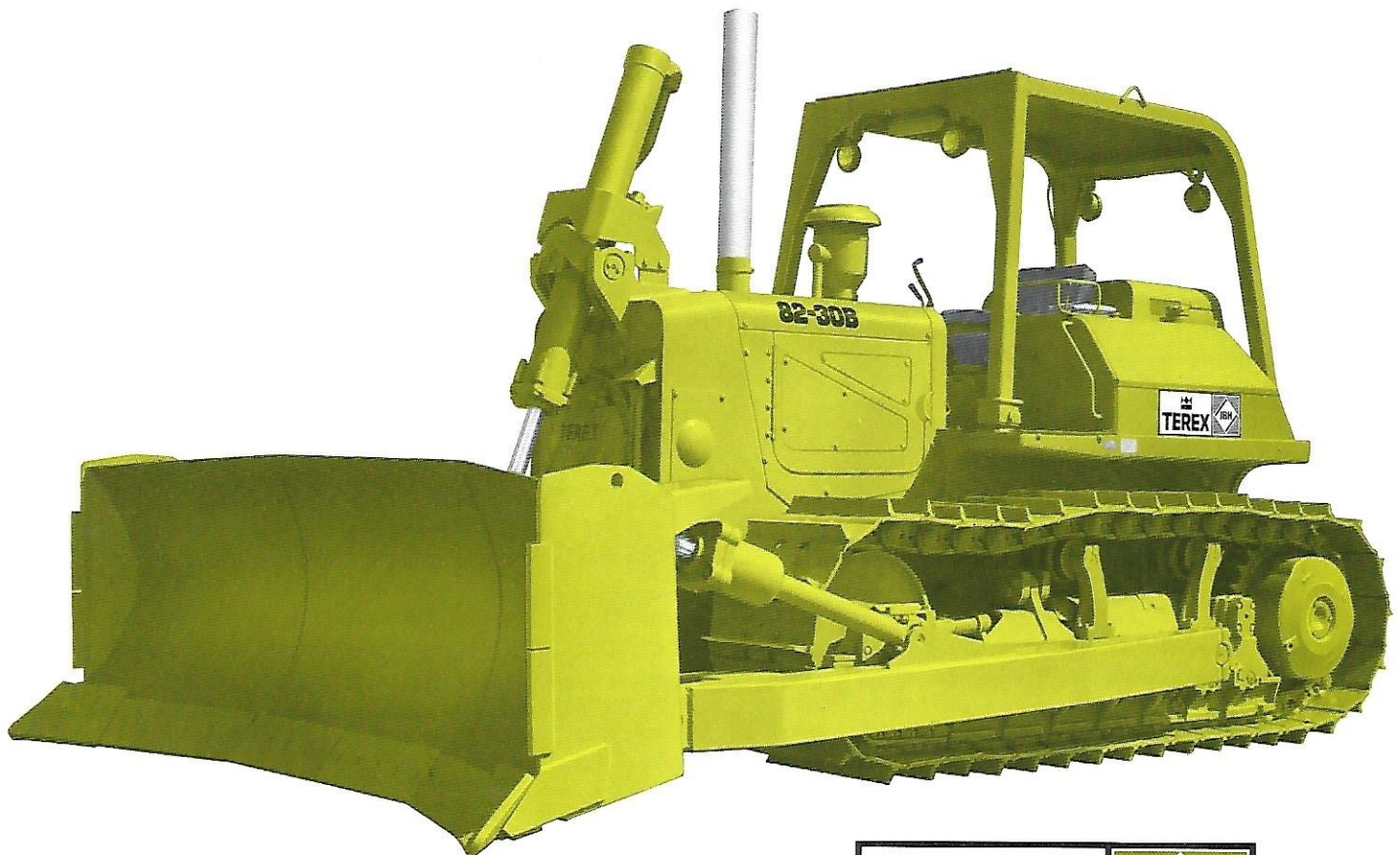


# TEREX 82-30B CRAWLER TRACTOR



- 8V-71T Diesel Engine
- 260HP (194 kW) Flywheel Power
- Fingertip Steering
- Rear Mounted Radiator

# TEREX 82-30B CRAWLER TRACTOR

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

## ENGINE

### Detroit Diesel 8V-71T, 2 Cycle Turbocharged Diesel

Flywheel Power @ 2100 RPM .....260HP (194 kW)

NOTE: Flywheel power is the net power available to the transmission torque converter after deductions for standard engine equipment (water pump, fuel pump, lubricating oil pump, muffler, fan, alternator, air cleaner.) The flywheel power is rated at S.A.E. standard ambient temperature and barometric conditions; 85°F (29°C) and 29.38 in. hg. (746 mm hg), using 34.4 API gravity fuel oil at 60°F (15.6°C). The flywheel power rating is maintained to an altitude of 10,000 feet (3000 m).

Number of Cylinders .....8  
Bore and Stroke .....4¼ in. x 5 in. (108 mm x 127 mm)  
Piston Displacement .....568 in.<sup>3</sup> (9.3 litres)  
Fuel — Commercial Grades .....No. 2 Diesel Fuel  
RPM Governed at Full Load .....2100 RPM  
Piston Speed @  
Governed RPM .....1750 Ft./Min. (53 340 cm/min.)  
Speed Control .....Hand Throttle & Foot Decelerator  
Lubrication .....Full Pressure  
Air Cleaner .....Dry Type

## TRANSMISSION—Allison CRT-6031

Hydraulically controlled planetary gearing, 3 speeds forward and reverse, full power shifting in both forward and reverse .....Allison-GM  
FCB 670 Bevel Gear, steering clutch and brake assembly.  
Total gear reduction behind transmission .....32.4:1

## TORQUE CONVERTER—Allison TC-550-3E

Hydraulic torque converter with fixed stator.

## SPEEDS AND TRANSMISSION RATIOS

|           | Maximum Speed         |                       | Transmission Gear Ratio |              |
|-----------|-----------------------|-----------------------|-------------------------|--------------|
|           | Forward<br>mph (km/h) | Reverse<br>mph (km/h) | For-<br>ward            | Re-<br>verse |
| Low       | 2.3 ( 3.7)            | 2.8 ( 4.5)            | 3.04:1                  | 2.52:1       |
| Intermed. | 4.2 ( 6.7)            | 5.1 ( 8.2)            | 1.67:1                  | 1.38:1       |
| High      | 7.0 (11.2)            | 8.4 (13.5)            | 1.00:1                  | 0.83:1       |

## STEERING

Self adjusting, oil cooled, multiple disc clutches and brakes. Single lever control for each track.

## BRAKES

Self-adjusting oil cooled, multiple disc, full power modulated foot brake. Parking brake is automatically applied when engine is stopped.

## ELECTRICAL SYSTEM

Direct electric starting .....24 volt  
Batteries—Two heavy duty, 225 amp hrs. each, 12 volt in series  
Alternator—50 amp with sealed integral voltage regulator.

## UNDERCARRIAGE

Hydraulic Track Adjustment with Nitrogen Recoil Cylinder  
Number of Track Rollers (each side) ..... 7  
Number of Shoes (each side) .....40  
Width of Standard Track Shoes ..... 22 in. ( 558 mm)

Height of Grouser .....3.12 in. ( 79 mm)  
Length of Tracks on Ground ..... 124 in. (3 149 mm)  
Ground Contact Area with  
22 in. (559 mm) Shoes .....5456 in.<sup>2</sup> (3.52 m<sup>2</sup>)  
Track Gauge ..... 78 in. (1 981 mm)  
Link Pitch ..... 9 in. ( 229 mm)  
Type of Rollers .....Fixed Shaft  
Type of Idler .....Heavy Duty

## SERVICE DATA

U.S. Gals. (litres)  
Cooling System ..... 36 gals. (136)  
Fuel Tank .....125 gals. (473)  
Engine Crankcase, Including Filters .....11.5 gals. ( 43)  
Final Drive (Planetary and Bull Gears -  
6.5 gal. each side) ..... 13 gals. ( 46)  
Torque Converter, Transmission, and FCB  
Assembly, Common Oil System, Includes  
Filters ..... 42 gals. (159)

## DIMENSIONS

Overall Length (Incl. Drawbar) .....15 ft. 4 in. (4 673 mm)  
Overall Width (Std. 22 in. shoes) .... 8 ft. 6½ in. (2 603 mm)  
Height (Exclusive of Exhaust Stack  
& Lift Cylinder) ..... 8 ft. 7 in. (2 623 mm)  
Minimum Ground Clearance ..... 18.25 in. ( 463 mm)  
Height of Drawbar Above Ground .... 22.38 in. ( 568 mm)  
Operating Weight (Includes Std. Equip.,  
Full Fuel Tank, Semi-U Blade &  
175 lb. Operator) .....61,872 lbs. (28 065 kg)

## STANDARD EQUIPMENT

Adaptors, Fast Fueling  
Air Cleaner (includes pre-cleaner)  
Alternator, 50 amp  
Brake, Parking  
Brake, Power  
Decelerator  
Dipstick, Drivecase  
Drawbar  
Foot Rest  
Gauges  
Air Cleaner Restriction  
Ammeter  
Converter Oil Temperature  
Engine Oil Pressure  
Engine Coolant Temperature  
Fuel  
Hourmeter  
Transmission Oil Pressure  
Guards  
Crankcase, Hinged  
Lower Engine Side  
Track Retention, Front and Rear  
Transmission, Hinged  
Horn, Manually Operated  
Hydraulics—Dozer and Tilt: Lift Cylinder, Lift and Tilt  
Valve, Tank, Plumbing and Controls  
Idlers, Heavy Duty  
Instrument Panel Light  
Lights (2 Front, 2 Rear)  
Lubrication Plate  
Muffler  
Pull Hook, Front  
Reverse Alarm, Audible (SAE J994)  
ROPS Canopy w/Mirror (SAE J395)  
Seat, Adjustable and Hinged  
Seat Belt  
Security Kit (Includes Fuel, Radiator, Hydraulic, Transmission  
and Engine Fill Caps, Instrument Panel Cover)  
Shoes, 22 in. (558 mm)  
Switch, Battery Disconnect  
Tool Box (Integral with Armrest)

## OPTIONAL EQUIPMENT

|   | Approximate Weight                          |         |
|---|---|---------|
| Alarm, Hi Coolant Temp and Low Flow .....   | 2 lbs. (                                    | .9 kg)  |
| Cab, Environmental ROPS (SAE J395)<br>Includes Acoustical Treatment,<br>Wipers, Heater, Swing Out<br>Windows, and Pressurizer. .... | 3100 lbs. (1 406 kg)                        |         |
| Air Conditioning for Environmental Cab ....   | 100 lbs. (                                  | 45 kg)  |
| Counterweight, Cast w/Short<br>Drawbar .....  | 3500 lbs. (1 587 kg) & 5000 lbs. (2 268 kg) |         |
| Drawbar, Long .....   | 235 lbs. (                                  | 107 kg) |
| Fan, Reversible Pitch .....   | 43 lbs. (                                   | 19 kg)  |
| Filter, Coolant .....   | 4 lbs. (                                    | 2 kg)   |
| Guards, Final Drive .....   | 120 lbs. (                                  | 54 kg)  |
| Track Roller .....  | 660 lbs. (                                  | 299 kg) |
| Hoodsides, Engine (screened or solid) .....   | 200 lbs. (                                  | 91 kg)  |
| Landclearing Kit .....  | 250 lbs. (                                  | 114 kg) |
| —Hoodsides  |   |         |
| —Screened Air Inlets  |   |         |
| —Perforated Hood  |   |         |
| —Sealing Guards   |   |         |
| —Manual Fuel Shut-Off   |   |         |
| Lights, 2, Cab Front .....  | 12 lbs. (                                   | 5 kg)   |
| 2, Canopy Front .....   | 12 lbs. (                                   | 5 kg)   |
| Lubrication Kit   |   |         |
| Screens, Rear Canopy .....  | 90 lbs. (                                   | 41 kg)  |
| Sandblast .....   | 45 lbs. (                                   | 20 kg)  |
| Seat-Suspended .....  | 64 lbs. (                                   | 29 kg)  |
| Shoes:  |   |         |
| 24 in. (610 mm) Std. Section .....  | * 360 lbs. (                                | 163 kg) |
| 26 in. (660 mm) Std. Section .....  | * 720 lbs. (                                | 326 kg) |
| 28 in. (711 mm) Std. Section .....  | * 1240 lbs. (                               | 562 kg) |
| 22 in. (559 mm) Heavy Section .....   | * 720 lbs. (                                | 326 kg) |
| 24 in. (610 mm) Heavy Section .....   | * 1240 lbs. (                               | 562 kg) |
| Sprocket, Self-cleaning .....   | * -10 lbs. (                                | -5 kg)  |
| Sweeps, Front Canopy .....  | 380 lbs. (                                  | 172 kg) |

\*Denotes Weight in Addition to Standard Unit Weight w/Standard Shoes.

## ATTACHMENTS

|   | Approximate Weight     |         |
|---|------------------------|---------|
| Blades, complete, including tilt cylinder & hoses         |                        |         |
| Angle .....   | 11,660 lbs. (5 289 kg) |         |
| Full "U" .....  | 10,665 lbs. (4 838 kg) |         |
| Semi-U (Straight) .....                                   | 9,350 lbs. (4 241 kg)  |         |
| Push Plate, Weld-On:                                      |                        |         |
| Semi-U Blade .....  | 600 lbs. (             | 272 kg) |
| Full Liner Plate:   |                        |         |
| Angle Blade .....   | 865 lbs. (             | 392 kg) |
| Full "U" Blade .....                                      | 830 lbs. (             | 376 kg) |
| Semi-U Blade .....  | 675 lbs. (             | 306 kg) |
| Hydraulics: Ripper Valve,<br>Plumbing, and Controls ..... | 125 lbs. (             | 57 kg)  |
| Tilt Strut, Single Hydraulic .....                        | 390 lbs. (             | 177 kg) |
| Push Beams .....  | 3,000 lbs. (1 360 kg)  |         |
| C-Frame .....   | 5,190 lbs. (2 354 kg)  |         |
| Reversible End Bits (ea.) .....                           | 52 lbs. (              | 23 kg)  |
| Heavy Duty End Bits (ea.) .....                           | 79 lbs. (              | 36 kg)  |
| Tilt Strut, Single Mechanical .....                       | 220 lbs. (             | 100 kg) |
| Trunnion Group .....                                      | 210 lbs. (             | 95 kg)  |

## MODEL 300 HYDRAULIC CONTROL SYSTEM

### Dozer Cylinder

|                           |                                       |
|---------------------------|---------------------------------------|
| Type .....                | Double Action, Direct Lift            |
| Bore and Stroke .....     | 7 in. x 58.00 in. (178 mm x 1 473 mm) |
| Piston Rod Diameter ..... | 3.5 in. (89 mm)                       |

### Pump

|                                  |  |
|----------------------------------|--|
| Type .....                       | Tandem, Gear                             |
| Drive .....                      | Driveline off front of engine crankshaft |
| Mounting .....                   | Inside Hydraulic Oil Tank                |
| Capacities @ 2100 RPM @ 1000 psi |  |
| High Output Side .....           | 71.5 GPM (4.50 lit./sec.)                |
| Low Output Side .....            | 26.0 GPM (1.638 lit./sec.)               |

## Valves

|                                  |   |
|----------------------------------|---|
| Main Valve, mounting .....       | Inside hydraulic tank                         |
| Operating positions .....        | Raise, Hold, Power Down, Quick Drop and Float |
| Tilt Strut Valve, mounting ..... | Left exterior on hydraulic tank               |
| Operating positions .....        | Tilt Left, Hold, Tilt Right                   |
| Ripper Valve, mounting .....     | Right exterior on hydraulic tank              |
| Operating positions .....        | Raise, Hold, Power Down                       |

## Relief Settings

|                        |                       |
|------------------------|-----------------------|
| Dozer and Ripper ..... | 1750 psi (12 070 kPa) |
| Tilt Strut .....       | 2100 psi (14 483 kPa) |

## Hydraulic System

|                     |                                   |
|---------------------|-----------------------------------|
| Piping .....        | Steel Tubing                      |
| Hoses .....         | High Pressure w/reusable fittings |
| Tank Capacity ..... | 30 gals. (114 lit.)               |

## Oil Type

|   |                                    |
|---|------------------------------------|
| -65°F to 130°F<br>(-54°C to 54°C) ..... | MIL-H-5606A                        |
| -20°F to 165°F<br>(-29°C to 74°C) ..... | ATF                                |
| 0°F to 180°F<br>(-18°C to 82°C) .....   | MIL-L-2104B; SAE 10W Engine Oil    |
| 32°F to 210°F<br>(0°C to 99°C) .....    | MIL-L-2104B; SAE 20W-20 Engine Oil |

Filter .....

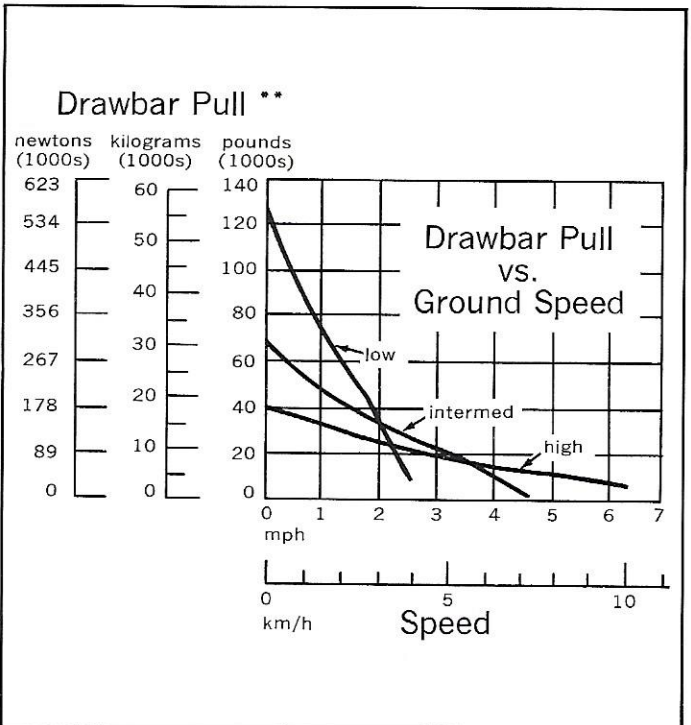
## HYDRAULIC TILT ATTACHMENT

|                               |                                 |
|-------------------------------|---------------------------------|
| Type .....                    | Double Acting                   |
| Cylinder Bore and Stroke..... | 8 in. x 7 in. (203 mm x 178 mm) |
| Rod Diameter .....            | 3.5 in. (89 mm)                 |

## REAR CUSHIONED PUSH BLOCK

### Block Dimensions

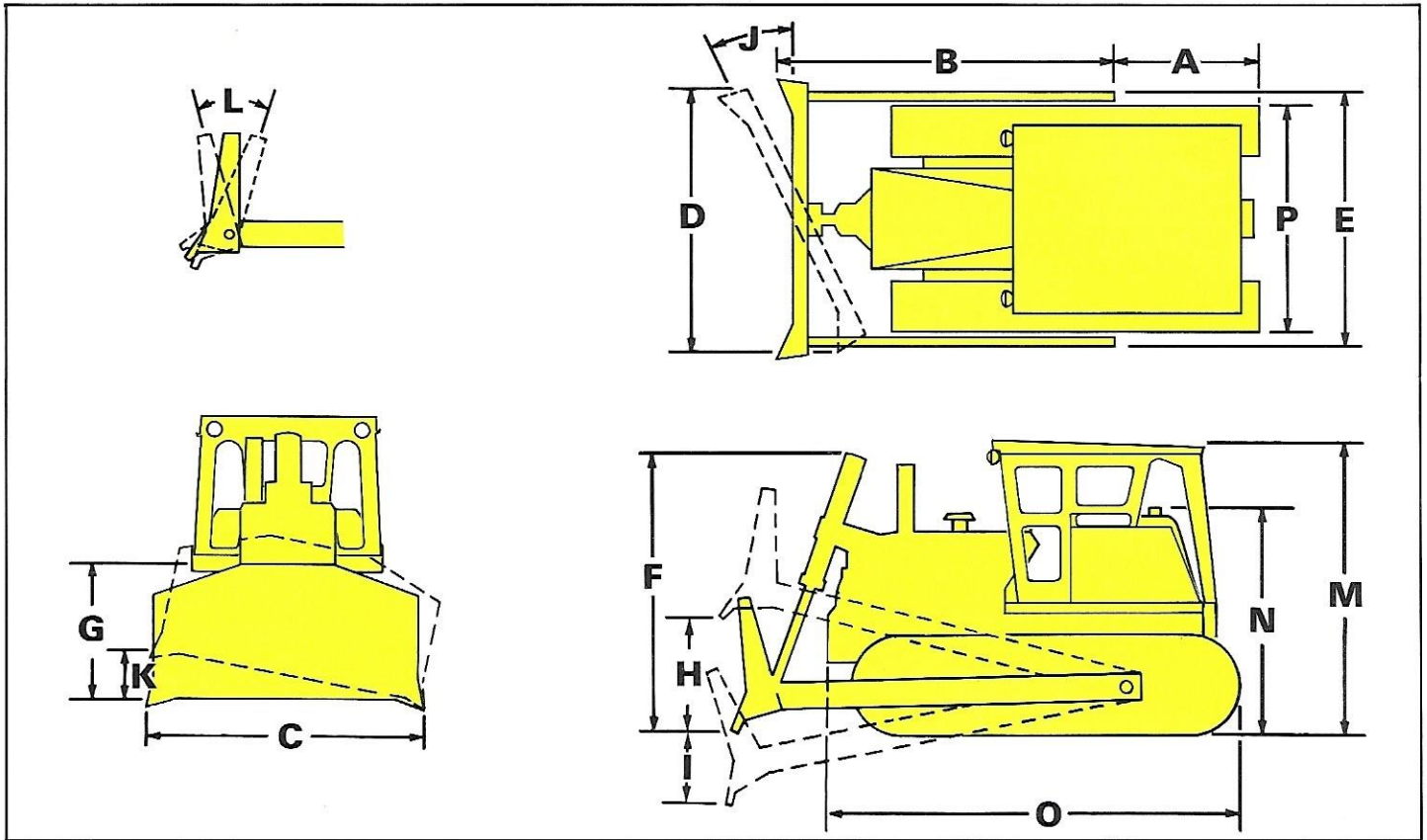
|              |                        |
|--------------|------------------------|
| Length ..... | 3 ft. 8 in. (1 118 mm) |
| Width .....  | 4 ft. 2 in. (1 270 mm) |
| Weight ..... | 2100 lbs. (953 kg)     |



\*\* Drawbar Pull depends on weight and traction of equipped tractor.

## CONVERSION CHART

|             |                     |                    |                                  |
|-------------|---------------------|--------------------|----------------------------------|
| 1 mile      | =1.609 kilometres   | 1 lb.              | =4.448 newtons                   |
| 1 foot      | =.3048 metres       | 1 lb.              | =0.4536 kilograms                |
| 1 inch      | =25.4 millimetres   | 1 ft. lb.          | =1.356 newton-metres             |
| 1 U.S. Gal. | =3.785 litres       | 1 PSI              | =6.8948 kPa                      |
| 1 U.S. Gal. | =0.833 imp. gals.   | 1 in. <sup>2</sup> | =6.452 centimetres <sup>2</sup>  |
| 1 U.S. Gal. | =.0164 litres       | 1 in. <sup>3</sup> | =0.0164 metres <sup>3</sup>      |
| diesel fuel | =7.3 lbs. (approx.) | 1 in. <sup>3</sup> | =16.387 millimetres <sup>3</sup> |
| 1 U.S. Gal. | =.0164 litres       | 1 ft. <sup>2</sup> | =929 centimetres <sup>2</sup>    |
| coolant     | =8.3 lbs. (approx.) | 1 yd. <sup>2</sup> | =0.836 metres <sup>2</sup>       |
| 1 HP        | =0.746 kW           | 1 yd. <sup>3</sup> | =0.7646 metres <sup>3</sup>      |



### BULLDOZERS FOR THE 82-30B CRAWLER

| Tractor Dimensions with Blade  | ANGLE           |            | SEMI-U          |            | FULL "U"        |            |
|--|-----------------|------------|-----------------|------------|-----------------|------------|
|  |                 | (mm)       |                 | (mm)       |                 | (mm)       |
| Trunnion to rear of tractor .....(A)   | 5 ft. 5 in.     | (1 651)    | 5 ft. 5 in.     | (1 651)    | 5 ft. 5 in.     | (1 651)    |
| Trunnion to front of blade (Straight).....(B)                                    | 14 ft. 7 in.    | (4 445)    | 14 ft. 7 in.    | (4 445)    | 15 ft. 8 in.    | (4 775)    |
| Width (Blade Straight) .....(C)  | 15 ft. 7 in.    | (4 750)    | 12 ft. 3 in.    | (3 734)    | 13 ft. 3 in.    | (4 039)    |
| Width (Blade Angled) .....(D)  | 14 ft. 2 in.    | (4 318)    | —               | —          | —               | —          |
| Width of Machine with<br>Push Beams/C-Frame .....(E)                             | 10 ft. 5.75 in. | (3 194)    | 11 ft. 9 in.    | (3 581)    | 11 ft. 9 in.    | (3 581)    |
| Width of Machine with<br>Standard Track .....(P)                                 | 8 ft. 4 in.     | (2 540)    | 8 ft. 4 in.     | (2 540)    | 8 ft. 4 in.     | (2 540)    |
| Height (Top of Dozer Cylinder) .....(F)  | 10 ft. 11 in.   | (3 327)    | 10 ft. 11 in.   | (3 327)    | 10 ft. 11 in.   | (3 327)    |
| Height (Top of Env. ROPS Cab) .....(M)   | 10 ft. 10.5 in. | (3 314)    | 10 ft. 10.5 in. | (3 314)    | 10 ft. 10.5 in. | (3 314)    |
| Height (Top of ROPS Canopy) .....(M)   | 10 ft. 9 in.    | (3 277)    | 10 ft. 9 in.    | (3 277)    | 10 ft. 9 in.    | (3 277)    |
| Height (Basic Machine Less Stack) .....(N)                                       | 8 ft. 7 in.     | (2 623)    | 8 ft. 7 in.     | (2 623)    | 8 ft. 7 in.     | (2 623)    |
| Length (Basic Machine Less<br>Hyd. Cylinder & Drawbar) .....(O)                  | 15 ft. 4 in.    | (4 674)    | 15 ft. 4 in.    | (4 674)    | 15 ft. 4 in.    | (4 674)    |
| <b>Moldboard Dimensions</b>  |                 |            |                 |            |                 |            |
| Moldboard Material—High Strength Carbon Alloy Abrasion Resistant Steel           |                 |            |                 |            |                 |            |
| Length (Corner bit to corner bit) .....(C)                                       | 15 ft. 7 in.    | (4 750)    | 12 ft. 3 in.    | (3 734)    | 13 ft. 3 in.    | (4 039)    |
| Height .....(G)  | 4 ft. 1 in.     | (1 245)    | 4 ft. 6 in.     | (1 372)    | 4 ft. 6 in.     | (1 372)    |
| Max. Lift Above Ground (Hydraulic).....(H)                                       | 4 ft. 5 in.     | (1 346)    | 4 ft. 5 in.     | (1 346)    | 4 ft. 4 in.     | (1 321)    |
| Max. Drop Below Ground (Hydraulic).....(I)                                       | 22 in.          | ( 559)     | 20 in.          | ( 508)     | 20 in.          | ( 508)     |
| Max. Angle (Either Direction).....(J)  | 25°             | —          | —               | —          | —               | —          |
| Max. Tilt .....(K)   | 23 in.          | ( 584)     | 18½ in.         | ( 470)     | 20 in.          | ( 508)     |
| Max. Pitch .....(L)  | 15°             | —          | 15°             | —          | 15°             | —          |
| Max. Allowable Track Shoe Width .....  | 28 in.          | ( 711)     | 28 in.          | ( 711)     | 28 in.          | ( 711)     |
| Approximate Weight of complete Blade<br>Assembly & Hydraulic Tilt Cylinder ..... | 9,585 lbs.      | (4 348 kg) | 9,350 lbs.      | (4 241 kg) | 9,835 lbs.      | (4 461 kg) |



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