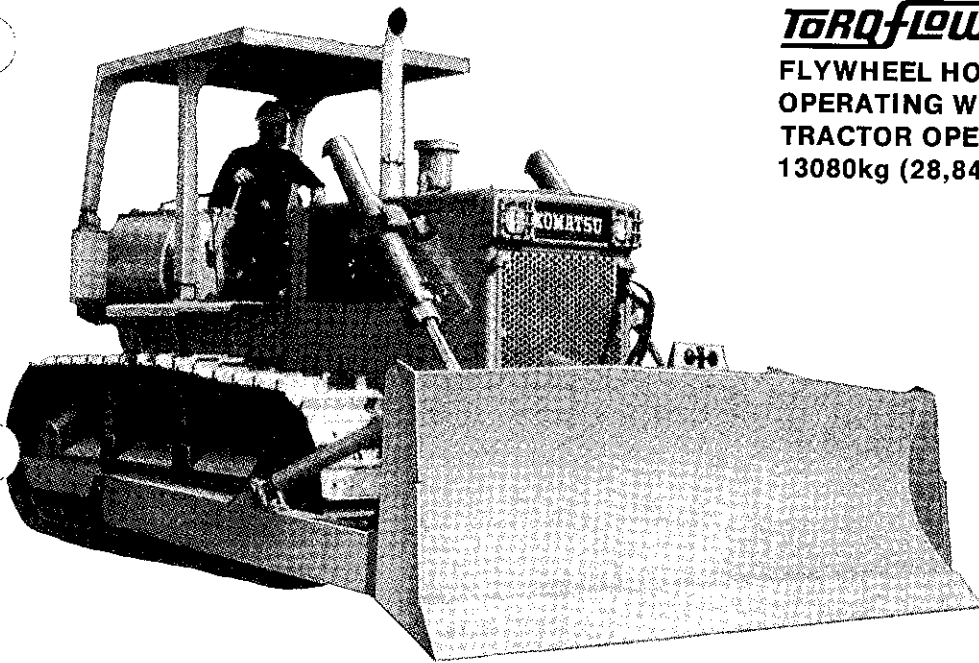


# D65E-6

## STRAIGHT-TILT DOZER

### **TORQFLOW** TRANSMISSION

**FLYWHEEL HORSEPOWER: 155 HP/1850 RPM**  
**OPERATING WEIGHT: 16140kg (35,580 lb)**  
**TRACTOR OPERATING WEIGHT:**  
**13080kg (28,840 lb)**



### TRACTOR

#### ENGINE:

Model ..... CUMMINS NH-220-CI  
Type ..... Water-cooled, 4-cycle, overhead valve,  
direct-injection, diesel  
No. of cylinders—bore x stroke ..... 6—5.125" x 6"  
(130.2 mm x 152.4 mm)  
Cylinder displacement ..... 743 cu.in. (12170 cc)  
Performance:  
Flywheel horsepower ..... 155 HP/1850 RPM  
Max. torque ..... 75 kg.m (545 ft.lb)/1000 RPM  
Fuel consumption ratio ..... 185 g (0.41 lb)/HP.h  
Fuel system:  
Fuel oil ..... Diesel gas oil, ASTM Specification  
D975-60T, No. 2D  
Governor ..... Mechanical, all-speed control  
Lubrication system:  
Lubrication method ..... Gear pump, forced lubrication  
Filter ..... Full-flow and bypass  
Oil cooler ..... Water-cooled

Cooling system ..... Forced circulation by centrifugal  
water pump, pusher-type fan  
Air cleaner ..... Dry type with pre-cleaner  
Starting method ..... By electric starting motor  
Starting motor ..... 24 V, 7.4 KW  
Generator ..... 24 V, 0.3 KW  
Battery ..... 24 V (12V x 2)—200 Ah

#### PERFORMANCE:

Travel speed and rated drawbar pull (see chart)  
Travel speed:  
Forward 1st ..... 0~3.7 km/h (2.3 MPH)  
2nd ..... 0~6.5 km/h (4.0 MPH)  
3rd ..... 0~10.7 km/h (6.6 MPH)  
Reverse 1st ..... 0~4.7 km/h (2.9 MPH)  
2nd ..... 0~8.4 km/h (5.2 MPH)  
3rd ..... 0~13.6 km/h (8.5 MPH)  
Gradeability ..... 30°

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# D65E-6 SPECIFICATIONS

## POWER TRANSMITTING SYSTEM:

|                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
| Torque converter | 4-element, single-stage and 3-phase                                                 |
| Oil cooler       | Water-cooled                                                                        |
| Transmission:    |                                                                                     |
| Type             | Planetary gear and multiple disc clutch hydraulically actuated, forced lubrication  |
| Gear shift       | 3 forward and 3 reverse speeds                                                      |
| Bevel gear       | Spiral bevel gear                                                                   |
| Steering system: |                                                                                     |
| Steering clutch  | Wet, multiple disc, coned disc spring-loaded, hydraulically actuated, hand-operated |
| Steering brake   | Wet, contracting band, foot-operated                                                |
| Final drive      | Spur gear, double reduction                                                         |

## UNDERCARRIAGE:

|                        |                                   |
|------------------------|-----------------------------------|
| Suspension             | Oscillation type, equalizer bar   |
| No. of carrier rollers | 2 (each side)                     |
| No. of track rollers   | 7 (each side)                     |
| Shoe:                  |                                   |
| Type                   | Assembled, single grouser         |
| Grouser height         | 60 mm (2.4")                      |
| No. of shoes           | 39 (each side)                    |
| Pitch                  | 203.2 mm (8.0")                   |
| Width                  | 560 mm (22")                      |
| Optional               | 510 mm (20") Extreme service shoe |
|                        | 610 mm (24.0")                    |
|                        | 660 mm (26.0")                    |

## STRAIGHT-TILTDOZER

### DIMENSIONS:

|                 |                                    |
|-----------------|------------------------------------|
| Overall length  | 5390 mm (212.2")                   |
| Overall width   | 3415 mm (134.4")                   |
| Overall height  | 3015 mm (118.7")                   |
| Ground pressure | 0.55 kg/cm <sup>2</sup> (7.80 PSI) |

### DOZER EQUIPMENT:

|                        |                                                             |
|------------------------|-------------------------------------------------------------|
| Type                   | Straight blade and hydraulically tilting                    |
| Weight                 | 2660 kg (5,860 lb), includes cylinder support 40 kg (90 lb) |
| Blade:                 |                                                             |
| Length x height        | 3415 mm x 1150 mm (134.4" x 45.3")                          |
| Digging angle          | 55°                                                         |
| Max. lift above ground | 1130 mm (44.5")                                             |
| Max. drop below ground | 585 mm (23.0")                                              |
| Max. tilt adjustment   | 860 mm (33.9")                                              |

### HYDRAULIC CONTROL UNIT:

|                   |                                    |
|-------------------|------------------------------------|
| Weight            | 500 kg (1,100 lb)                  |
| Max. oil pressure | 140 kg/cm <sup>2</sup> (2,000 PSI) |

## ANGLEDZOZER EQUIPMENT

### DIMENSIONS:

|                 |                                    |
|-----------------|------------------------------------|
| Overall length  | 5515 mm (217.1")                   |
| Overall width   | 3970 mm (156.3")                   |
| Ground pressure | 0.69 kg/cm <sup>2</sup> (9.81 PSI) |

### DOZER EQUIPMENT:

|                         |                                                             |
|-------------------------|-------------------------------------------------------------|
| Type                    | Angling and tilting blade, hydraulically controlled         |
| Weight                  | 2640 kg (5,820 lb), includes cylinder support 40 kg (90 lb) |
| Length x height         | 3970 mm x 1050 mm (156.3" x 41.3")                          |
| Digging angle           | 55°                                                         |
| Max. lift above ground  | 1250 mm (49.2")                                             |
| Max. drop below ground  | 540 mm (21.3")                                              |
| Max. tilting adjustment | 400 mm (15.7")                                              |

### HYDRAULIC CONTROL UNIT:

|        |                 |
|--------|-----------------|
| Weight | 400 kg (880 lb) |
|--------|-----------------|

## DIMENSIONS (Tractor):

|                           |                                     |
|---------------------------|-------------------------------------|
| Overall length            | 4170 mm (164.2")                    |
| Overall width             | 2440 mm (96.1")                     |
| Overall height            | 3015 mm (118.7")                    |
| Track gauge               | 1880 mm (74.0")                     |
| Length of track on ground | 2635 mm (103.7")                    |
| Ground contact area       | 29512 cm <sup>2</sup> (4563 sq.in.) |
| Ground pressure           | 0.44 kg/cm <sup>2</sup> (6.32 PSI)  |
| Ground clearance          | 400 mm (15.7")                      |

## DRAWBAR:

|                                |                |
|--------------------------------|----------------|
| Type                           | Pin, fixed     |
| Height of drawbar above ground | 510 mm (20.1") |

## POWER TAKE-OFF:

|                                            |                                                                      |
|--------------------------------------------|----------------------------------------------------------------------|
| Location                                   | Rear of flywheel housing                                             |
| Shaft revolutions and rotational direction | 2170 RPM at engine 1850 RPM<br>Clockwise (as viewed from drive side) |

## CAPACITY:

|                         |                       |
|-------------------------|-----------------------|
| Coolant                 | 55 ltr (15 U.S. Gal)  |
| Fuel tank               | 280 ltr (74 U.S. Gal) |
| Lubricating oil:        |                       |
| Engine                  | 43 ltr (11 U.S. Gal)  |
| Torque converter        | 52 ltr (14 U.S. Gal)  |
| Transmission            |                       |
| Bevel gear              | 70 ltr (18 U.S. Gal)  |
| Steering system         |                       |
| Final drive (each side) | 23 ltr (6.1 U.S. Gal) |

## OPERATING WEIGHT (Tractor): 13080 kg (28,840 lb)

### Hydraulic pump:

|                           |                                              |
|---------------------------|----------------------------------------------|
| Type                      | Gear pump                                    |
| Capacity (discharge flow) | 287 ltr (75 U.S. Gal)/min at engine 1700 RPM |
| Location                  | Rear of engine                               |
| Control valve:            | 3 valves standard                            |
| Type                      | Spool type                                   |
| Position:                 |                                              |
| Lifting                   | Raise, hold, lower and float                 |
| Tilting                   | Left, hold and right                         |

### Hydraulic cylinder:

|                        |                            |
|------------------------|----------------------------|
| Type                   | Double action, piston type |
| No. of cylinders—bore: |                            |
| Lift cylinder          | 2-110 mm (4.33")           |
| Tilt cylinder          | 1-160 mm (6.30")           |

### Hydraulic tank:

|               |                                      |
|---------------|--------------------------------------|
| Type          | Equipped with built-in control valve |
| Location      | Right side of operator's seat        |
| Filter        | Full flow type                       |
| Hydraulic oil | 100 ltr (26 U.S. Gal)                |

## OPERATING WEIGHT: 16140kg (35,580 lb)

### Max. oil pressure 140 kg/cm<sup>2</sup> (2000 PSI)

### Hydraulic cylinder:

|                       |                      |
|-----------------------|----------------------|
| Type                  | Double-action piston |
| No. of cylinders—bore | 2—110mm (4.33")      |

### Oil pump:

|                           |                                              |
|---------------------------|----------------------------------------------|
| Type                      | Gear pump                                    |
| Capacity (discharge flow) | 250 ltr (66 U.S. Gal)/min at engine 1850 RPM |

### Location Rear of engine

### Control valve: 3 valves standard

### Type Spool type

### Position: Raise, hold, lower and float

### Hydraulic oil tank:

### Type Equipped with built-in control valve

### Location Right side of operator's seat

### Filter Full-flow type

### Hydraulic oil 112 ltr (30 U.S. Gal)

## OPERATING WEIGHT: 16120 kg (35,540 lb)

(Specifications are subject to change without notice)

