

# S P E C S

## 3700



| Dimensions:                                | U.S.     | Metric     |
|--|----------|------------|
| Trench depth (max)                         | 63 in    | 1.6 m      |
| Angle of approach                          | 20°      | 20°        |
| Angle of departure                         | 17°      | 17°        |
| Trench width (min to max)                  | 6-12 in  | 150-300 mm |
| Boom travel down                           | 58°      | 58°        |
| Boom travel up                             | 50°      | 50°        |
| Centerline of trench to left outside edge  | 35 in    | 890 mm     |
| Centerline of trench to right outside edge | 29 in    | 740 mm     |
| Headshaft height - digging chain           | 17 in    | 430 mm     |
| Overhang beyond tire                       | 3.5 in   | 90 mm      |
| H-Height                                   | 86 in    | 2.2 m      |
| Headshaft overhang                         | 24.5 in  | 620 mm     |
| L-Transport length                         | 155 in   | 3.9 m      |
| Wheelbase                                  | 48 in    | 1.2 m      |
| Spoil discharge reach (min to max)         | 17-20 in | 435-510 mm |
| Width                                      | 64 in    | 1.6 m      |
| Tread                                      | 46 in    | 1.8 m      |
| Ground clearance (min w/standard tire)     | 7 in     | 180 mm     |
| Ground clearance (min w/optional tire)     | 8.5 in   | 215 mm     |

Dimensions based on H313 attachment and shortest roller boom length, 26X12-12 standard tire and wheel, and 12 in (305 mm) pivot.

### Backfill Blade:

|                            |       |        |
|----------------------------|-------|--------|
| Width                      | 64 in | 1.6 m  |
| Height                     | 14 in | 356 mm |
| Lift height above ground * | 12 in | 300 mm |
| Blade drop below ground *  | 8 in  | 203 mm |
| Swing angle                | 28°   | 28°    |
| Tilt angle                 | 11°   | 11°    |

\* when equipped with 64-in (1.6 m) backfill blade and 31 x 15.50 - 15 tires

### General:

Ditch Witch model 3700, 4-wheel drive, rigid frame, hydrostatic ground drive through rubber tires, conventional two-wheel power steering, hydrostatic attachment drive riding tractor.

### Operation:

|  |         |           |
|--|---------|-----------|
| Maximum forward speed                                  | 4.3 mph | 7.2 km/h  |
| Maximum reverse speed                                  | 1.7 mph | 2.8 km/h  |
| Maximum digging chain speed                            |         |           |
| @ 2500 engine rpm                                      | 420 fpm | 128 m/min |
| Vehicle clearance circle                               |         |           |
| with front wheel steer                                 | 28 ft   | 8.5 m     |
| with rear wheel steer                                  | 20 ft   | 6.1 m     |
| Maximum headshaft speed                                |         |           |
| @ 2500 engine rpm                                      | 210 rpm | 210 rpm   |
| Auger: single, tapered, with outboard support bearing. |         |           |
| maximum diameter                                       | 24 in   | 610 mm    |
| minimum diameter                                       | 18 in   | 460 mm    |
| length   | 13 in   | 330 mm    |
| Operating weight **                                    | 4200 lb | 1910 kg   |

\*\* operating weight based on H313 attachment and on shortest boom with 6 in (152 mm) wide chain and 175 lb (79 kg) operator.

### Power Plant:

|  |                     |                      |
|--|---------------------|----------------------|
| Deutz F3L1011F, air-cooled, diesel, direct injection with individual cylinder injection pumps. |                     |                      |
| Displacement   | 125 in <sup>3</sup> | 2050 cm <sup>3</sup> |
| Bore   | 3.58 in             | 90 mm                |
| Stroke   | 4.13 in             | 105 mm               |
| Engine manufacturer's gross power rating   |                     |                      |
| @ 3000 rpm   | 45 hp               | 33 kW                |
| Maximum governed speed as  |                     |                      |
| installed (no load)  | 2650 rpm            | 2650 rpm             |
| SAE net power at 2500 rpm  | 37.5 hp             | 28 kW                |

### POWER TRAIN

U.S.

METRIC

#### Ground drive transmission:

Hydrostatic drive, infinitely variable from zero to maximum, foot pedal and hand lever operated speed/direction control.

#### Differentials:

Dana model 44 (Dana model 60 optional)

#### Service brake:

Ground drive speed/direction control brakes machine hydraulically when moved to neutral position.

#### Parking brake:

Disc, hand-operated.

Attachment drive transmission:

Hydrostatic, lever-operated, speed infinitely variable from zero to maximum forward with limited stroke reverse.

#### Tires:

|  |           |           |
|--|-----------|-----------|
| Load rating at recommended pressure at 10 mph (16 kph) |           |           |
| Standard 26 x 12 - 12, 4-ply bar lug                   | 1780 lb @ | 807 kg @  |
|  | 20 psi    | 1.4 bar   |
| Optional 29 x 12.5 - 15, 4-ply bar lug                 | 2255 lb @ | 1022 kg @ |
|  | 30 psi    | 2.1 bar   |

### HYDRAULIC SYSTEM:

|  |          |           |
|--|----------|-----------|
| Ground drive pump capacity at 2650 rpm                       | 28.4 gpm | 107 L/min |
| Ground drive pump relief pressure                            | 3750 psi | 258 bar   |
| Attachment drive pump capacity at 2650 rpm                   | 28.4 gpm | 107 L/min |
| Attachment drive pump relief pressure                        |          |           |
| Trencher   | 5000 psi | 345 bar   |
| Plow/saw   | 3750 psi | 259 bar   |
| Auxiliary pump capacity at 2650 rpm (engine)                 | 11 gpm   | 42 L/min  |
| Auxiliary pump relief pressure                               | 2500 psi | 172 bar   |
| Filtration:  |          |           |
| Return/charge pump: 15 psi (1 bar) bypass, 10 micron nominal |          |           |

### FLUID CAPACITIES:

|                  |         |       |
|------------------|---------|-------|
| Fuel tank        | 13 gal  | 49 L  |
| Engine oil       |         |       |
| Initial fill     | 8 qt    | 7.5 L |
| Refill           | 6 qt    | 5.5 L |
| Hydraulic system |         |       |
| Initial fill     | 13 gal  | 49 L  |
| Reservoir        | 9.5 gal | 36 L  |

**Battery:** Group 26/26R/70; cold crank amps = 500 at 0°F (-18°C); crank amps = 700 @ 32°F (0°C); SAE reserve capacity = 80 minutes

Specifications are called out according to SAE recommended procedures. Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that described.

### Call Before You Dig!



### ISO-9001 Quality System Certified

### AUTHORIZED DEALER:

**Ditch Witch®**  
THE UNDERGROUND AUTHORITY  
WORLDWIDE.

### The Charles Machine Works, Inc.

Ditch Witch® Worldwide Headquarters  
Perry, OK 73077-0066 U.S.A. • (800) 654-6481 • (580) 336-4402  
Fax: (580) 336-3458 • International Fax: (580) 336-0617  
Internet: www.ditchwitch.com  
E-mail: info@ditchwitch.com

F 7012755

Code L-3700 CMW-260 Printed in U.S.A.