

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 ³	2050 cm ³
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 @ 20 psi	807 kg @ 1.4 bar
Optional 29 x 12.5 - 15, 4-ply bar lug	2255 lb @ 20 psi	1022 kg @ 1.4 bar
		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 26/26R70; 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.

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