

# DITCH WITCH® RT80 TRENCHER



## KEY FEATURES

*(Photograph A)* Ditch Witch® engineers packed maximum muscle into every square inch of the compact RT80 so you can do big work in small places.

With four combinations of torque and speed, you'll get the power you need, when you need it, to slice through all kinds of terrain.

Whether you pick the powerful traversing trencher attachment or the rock-solid saw attachment, Ditch Witch design ensures you're getting the most power possible to the business end of your machine . . . and to the bottom line of your business.

*(Photograph B)* The RT80 may be small, but it's got a big-tractor attitude, with heavy-duty components and operator comforts like a 90° swivel seat and easy-to-read gauge panel.

Because you're too busy moving dirt to worry about changing your speed, the RT80 comes standard with cruise control to maintain optimal digging performance regardless of ground conditions.

When you take the RT80 to the jobsite, you can leave the fuel truck at the shop. The RT80's 30-gallon (114-L) fuel tank is big enough to let you run all day, so you can fuel it and forget it.

As if its compact size weren't enough, the RT80 can be equipped with rear steering, so your turn radius is tighter and your maneuverability is better . . . even when your jobsite is smaller.

Ditch Witch trenchers—including the RT80—are the only trenchers in the world that come standard with genuine Ditch Witch chain, teeth, and sprockets; they dig harder and last longer than any other digging system on the market.

**SPECIFICATION**

**RT80**

<b>SPECIFICATION</b>	<b>U.S.</b>	<b>METRIC</b>
<b>DIMENSIONS</b>		
A2 ANGLE OF APPROACH	22°	22
H1 HEIGHT	97 IN	2.46 M
L1 LENGTH, NOSE TO REAR MOUNT	114 IN	2.90 M
L2 LENGTH, TRANSPORT	129 IN	3.28 M
L4 WHEELBASE	60 IN	1.53 M
W2 WIDTH	76 IN	1.93 M
W4 TREAD	58 IN	1.46 M
L5 REAR AXLE TO ATTACHMENT MOUNT HOLES	14.7 IN	373 MM
<b>OPERATION</b>		
<b>FORWARD SPEEDS</b>		
LOW GEARBOX/LOW MOTOR	2.4 MPH	3.9 KM/HR
LOW GEARBOX/HIGH MOTOR	3.8 MPH	6.1 KM/HR
HIGH GEARBOX/LOW MOTOR	6.8 MPH	10.9 KM/HR
HIGH GEARBOX/HIGH MOTOR	10.5 MPH	16.9 KM/HR
<b>REVERSE SPEEDS</b>		
LOW GEARBOX/LOW MOTOR	1.0 MPH	1.6 KM/HR
LOW GEARBOX/HIGH MOTOR	1.6 MPH	2.6 KM/HR
HIGH GEARBOX/LOW MOTOR	3.1 MPH	5.0 KM/HR
HIGH GEARBOX/HIGH MOTOR	4.5 MPH	7.2 KM/HR
<b>VEHICLE CLEARANCE CIRCLE (SAE) WALL TO WALL WITH BACKFILL BLADE</b>		
FRONT STEER ONLY	33.5 FT	10.2 M
FRONT AND REAR STEER	21.5 FT	6.5 M
GROUND CLEARANCE	11.6 IN	294 MM
BASIC UNIT WEIGHT (5-FT BOOM, 70,000K CHAIN)	10,710 LB	4858 KG
FRONT COUNTERWEIGHT	1,840 LB	835 KG
<b>BACKFILL BLADE</b>		
BLADE WIDTH	72 IN	1.83 M
BLADE HEIGHT	14 IN	355 MM
LIFT HEIGHT ABOVE GROUND	19 IN	480 MM
BLADE DROP BELOW GROUND	12 IN	305 MM
MAXIMUM SWING ANGLE (LEFT/RIGHT)	30°	30°
TILT ANGLE (UP/DOWN)	16°	16°
<b>POWER</b>		
ENGINE	DEUTZ TD2011L04W, DIESEL	
COOLING MEDIUM	LIQUID	
INJECTION	DIRECT	
ASPIRATION	TURBOCHARGED	
NUMBER OF CYLINDERS	4	
DISPLACEMENT	221 IN <sup>3</sup>	3.62 L
BORE	3.78 IN	96 MM
STROKE	4.92 IN	125 MM
ENGINE MANUFACTURER'S GROSS POWER RATING (SAE J1995)	83 HP	62 KW
ESTIMATED NET POWER RATING (SAE J1349)	78 HP	58.2 KW
RATED SPEED	2600 RPM	2600 RPM
EMISSIONS COMPLIANCE	EPA TIER 3, EU STAGE IIIA	
<b>POWER TRAIN</b>		
GROUND DRIVE TRANSMISSION	HYDROSTATIC	
DIFFERENTIALS	PLANETARY FRONT AND REAR WITH OPTIONAL REAR STEERING	
PARKING BRAKE	MANUAL LEVER DRUM BRAKE	
TIRES	31 X 15.50-15 8-PLY BAR LUG; INFLATE TO 40 PSI (2.8 BAR)	
	35 X 19-16.1 12-PLY BAR LUG; INFLATE TO 55 PSI (3.8 BAR)	
ATTACHMENT DRIVE TRANSMISSION	HYDROSTATIC, ELECTRIC LEVER-OPERATED SPEED. INFINITELY VARIABLE FROM ZERO TO MAXIMUM	
<b>HYDRAULIC SYSTEM</b>		
GROUND DRIVE PUMP CAPACITY @ 2600 RPM	31 GPM	117 L/MIN
GROUND DRIVE PUMP RELIEF PRESSURE @ 2600	5500 PSI	380 BAR
ATTACHMENT PUMP CAPACITY @ 2600 RPM	31 GPM	117 L/MIN
ATTACHMENT PUMP RELIEF PRESSURE @ 2600 RPM		
FORWARD	5500 PSI	380 BAR
REVERSE	3550 PSI	245 BAR
AUXILIARY PUMP CAPACITY @ 2600 RPM		
FRONT PUMP: STEERING	8 GPM	30 L/MIN
REAR PUMP: AUXILIARY	6 GPM	23 L/MIN
AUXILIARY PUMP RELIEF PRESSURE@ 2600 RPM	3000 PSI	207 BAR
<b>FLUID CAPACITIES</b>		
FUEL TANK	30 GAL	114 L
ENGINE OIL	16 QT	15 L
HYDRAULIC RESERVOIR	12 GAL	45 L
HYDRAULIC SYSTEM	20 GAL	76 L