

# RT80 RIDE-ON TRENCHER



## KEY FEATURES/BENEFITS

**TURBOCHARGED DEUTZ®, TIER 4 DIESEL ENGINE** with 74 gross hp (55.4 kW) utilizes only a simple after-treatment and offers low operational cost over machine life.

**VERSATILE MID-SIZE MACHINE** for heavy-duty trenching and vibratory plowing; backhoe and reel carrier attachments also available.

**TREMENDOUS AXLE CAPACITY** for a best-in-class static load rating of 39,000 lb (17,690 kg).

**SHIFT-ON-THE-FLY GROUND DRIVE**—three speeds in forward, three in reverse—provides the power you need, when you need it, to tackle any jobsite.

**ADVANCED CRUISE-CONTROL SYSTEM** senses engine load and automatically adjusts ground drive speed to changing soil conditions, for maximum production.

**NEW COLOR LCD ENGINE DISPLAY** provides all engine information and diagnostics.

INTRODUCING THE NEW

# RT80



# RT80 TRACTOR SPECIFICATIONS

	U.S.	METRIC
<b>DIMENSIONS</b>		
Height	108.5 in	2756 mm
Length, transport	139 in	3530 mm
Wheelbase	63 in	1600 mm
Width	71.5 in	1816 mm
Angle of approach	29.2°	
Tread	60 in	1524 mm
Rear axle to attachment mount holes	16.8 in	427 mm

	U.S.	METRIC
<b>POWER PLANT</b>		
Engine	Deutz® TD3.6 L4	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged	
Number of cylinders	4	
Displacement	221 in <sup>3</sup>	3.6 L
Bore	3.86 in	98 mm
Stroke	4.72 in	120 mm
Engine manufacturer's gross power rating (SAE J1995)	74 hp	55.4 kW
Rated speed	2,500 rpm	
Emissions compliance	EPA Tier 4	EU Stage IIIB

	U.S.	METRIC
<b>POWER TRAIN</b>		
Ground drive transmission	Hydrostatic	
Differentials	Planetary front and rear w/standard rear steering	
Parking brake	Manual lever disc brake	
Tires		
355 x 55 - 625, 14 ply	75 psi	517 kPa
355 x 55 - 625, 14 ply (urethane)	N/A	N/A
31 x 10 (solid)	N/A	N/A
Attachment drive transmission	Hydrostatic, electric rotary knob, speed infinitely variable from zero to maximum	

	U.S.	METRIC
<b>OPERATION</b>		
Forward speed		
Low	1.82 mph	2.93 km/h
Medium	3.68 mph	5.92 km/h
High	6.77 mph	10.9 km/h
Reverse speed		
Low	1.77 mph	2.85 km/h
Medium	3.17 mph	5.1 km/h
High	3.36 mph	5.41 km/h
Vehicle clearance circle (SAE) wall to wall w/backfill blade		
Front steer only	32 ft	9.75 m
Front and rear steer	20.8 ft	6.34 m
Ground clearance	12 in	305 mm
Basic unit weight	7,655 lb	3835 kg
Allowable tractor weight, max, 2 post/4 post	19,100 lb	8864 kg
Front counterweight (optional)	1,650 lb	750 kg

	U.S.	METRIC
<b>HYDRAULIC SYSTEM @ 2,500 RPM</b>		
Ground drive pump capacity	35 gpm	132 l/min
Ground drive pump relief pressure	6,000 psi (gauge)	414 bar (gauge)
Attachment pump capacity, (2500 rpm)	30 gpm	114 l/min
Attachment pump relief pressure, (2500 rpm)		
Forward/reverse	5,500 psi	380 bar
Auxiliary pump capacity		
Front pump (steering)	7.1 gpm	27 l/min
Rear pump (auxiliary)	6.2 gpm	23 l/min
Auxiliary pump relief pressure, (2500 rpm)	3,000 psi	207 bar

	U.S.	METRIC
<b>FLUID CAPACITIES</b>		
Fuel tank	30 gal	114 L
Engine oil	8.4 qt	8 L
Hydraulic reservoir	12 gal	45 L
Hydraulic system	19 gal	72 L
Coolant	3 gal	11.4 L

	U.S.	METRIC
<b>NOISE LEVEL</b>		
Operator	92 dBA sound pressure per ISO 6394	
Exterior	107 dBA sound power per ISO 6394	

	U.S.	METRIC
<b>BACKFILL BLADE</b>		
Blade width	72 in	1829 mm
Blade height	14 in	355 mm
Lift height above ground	25.2 in	640 mm
Blade drop below ground	10.9 in	276 mm
Swing angle, max		
Left/right	30°	
Tilt angle		
Up/down	16°	

	U.S.	METRIC
<b>VIBRATION LEVEL (WHILE PLOWING)</b>		
Hand/arm	7.56 m/sec <sup>3</sup>	
Feet/seat	1.61 m/sec <sup>3</sup>	

	U.S.	METRIC
<b>BATTERY</b>		
Group	78U	
SAE reserve capacity rating	110 min	
SAE cold crank @ 0°F (-18°C)	800 amps	
Auxiliary power outlet	12V, 10 amps	

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 shown.

