RT80 RIDE-ON TRENCHER



FEATURES & BENEFITS

SUPERIOR AXLE CAPACITY

Featuring a best-in-class static-load rating of 35,407 lbs, the RT80 is a workhorse for every job.

POWERFUL PLOWING

When equipped with a plow, the machine has a best-in-class 35,215 lbs of breakout force for greater power on plowing applications.

EASIER MANEUVERABILITY

Equipped with a push-button and active management system that returns the rear axle to center, the RT80 helps you maneuver without constant steering adjustments.

SPEED CONTROL

A three-speed, shift-on-the-fly ground drive system allows operators the ability to select the correct range, without stopping work, to maximize performance.

ADVANCED CRUISE CONTROL

The RT80 uses a cruise-control system to sense engine load and adjust speed to changing soil conditions, giving you better traction in rough terrain and weather.

MODULAR DESIGN

With the simplest modular track-frame design in the industry, you can quickly interchange tracks and tires for added versatility and utilization.

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DIMENSIONS

DIMENSIONS	U.S.	METRIC
Height		
Tracks	118 in	2997 mm
Tire, 355 x 55 - 625	115 in	2921 mm
Tire, 500 x 45 - 20	116 in	2946 mm
Width		
Tracks, wide axle	90 in	2286 mm
Tracks, narrow HD axle	81 in	2057 mm
Tire, 355 x 55 - 625	71.5 in	1816 mm
Tire, 500 x 45 - 20	76 in	1930 mm
Angle of approach	29.2°	
Tread		
Tracks, wide axle	70 in	1778 mm
Tracks, narrow HD axle	62.5 in	1588 mm
Tire, 355 x 55 - 625	60 in	1524 mm
Tire, 500 x 45 - 20	60 in	1524 mm
Rear axle to attachment mount holes	16.8 in	427 mm
Length, transport	139 in	3530 mm
Wheelbase	63 in	1600 mm

POWER PLANT

Engine	Deutz® TD3.6 L4	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged	
Number of cylinders	4	
Displacement	221 in^3	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 kW
Rated speed	2,500 rpm	
Emissions compliance	EPA Tier 4	EU Stage IIIB

POWER TRAIN

Ground drive transmission	Hydrostatic	
Differentials	Planetary front and rear w/standard rear steering	
Parking brake	Manual lever disc brake	
Tracks	450x86x36, rubber track, chevron pattern	
Tires		
355 x 55 - 625, 14 ply	75 psi	5.2 bar
500 x 45 - 20 TR-12, TL	87 psi	6.0 bar
31 x 10 (solid)	N/A	N/A
Attachment drive transmission	Hydrostatic, electric rotary knob, speed infinitely variable from zero to maximum	

HYDRAULIC SYSTEM @ 2,500 RPM

Ground drive pump capacity	30 gpm	114 l/min
Ground drive pump relief pressure	6,000 psi	414 bar
Attachment pump capacity	35 gpm	132 l/min
Attachment pump relief pressure		
Forward/reverse	5,500 psi	380 bar
Auxiliary pump capacity		
Front pump (steering)	7.1 gpm	27 l/min
Rear pump (auxilary)	6.2 gpm	23 l/min
Auxiliary pump relief pressure	3,000 psi	207 bar

OPERATION

OPERATION	U.S.	METRIC
Forward speed		
Tracks, low	1.24 mph	2.00 km/h
Tracks, high	4.06 mph	6.53 km/h
Tires, low	0.83 mph	1.34 km/h
Tires, high	8.45 mph	13.60 km/h
Reverse speed		
Tracks, low	1.21 mph	1.95 km/h
Tracks, high	2.06 mph	3.32 km/h
Tires, low	0.81 mph	1.30 km/h
Tires, high	5.19 mph	8.35 km/h
Vehicle clearance circle (SAE) wall-to-wall w/backfill blade		
Front steer only, tracks, narrow HD axle	44.3 ft	13.50 m
Front steer only, tires, narrow standard axle	32 ft	9.75 m
Front and rear steer, tracks, narrow HD axle	26.8 ft	8.17 m
Front and rear steer, tires, narrow standard axle	21.5 ft	6.55 m
Ground clearance		
Tracks	15 in	381 mm
Tires	12 in	305 mm
Basic unit weight		
Tracks, wide axle	11,202 lb	5081 kg
Tracks, narrow HD axle	11,832 lb	5367 kg
Tires, 355 x 55 - 625	7,701 lb	3493 kg
Tires, 500 x 45 - 20	7,721 lb	3502 kg
Allowable tractor weight, max, tracks, 2 post	19,100 lb	8664 kg
Allowable tractor weight, max, tracks, 4 post	21,340 lb	9860 kg
Allowable tractor weight, max, tires, 2 post / 4 post	19,100 lb	8864 kg
Front counterweight (optional)	1,650 lb	748 kg

FLUID CAPACITIES

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

NOISE LEVEL

Operator	92 dBA sound pressure per ISO 6394
Exterior	107 dBA sound power per ISO 6393

BACKFILL BLADE

Blade width		
Tracks	80 in	2032 mm
Tires	72 in	1829 mm
Blade height	14 in	355 mm

VIBRATION LEVEL (WHILE PLOWING)

Tracks	
Hand/arm	5.15 m/sec^2
Feet/seat	0.58 m/sec^2
Tires	
Hand/arm	7.56 m/sec^2
Feet/seat	1.61 m/sec^2

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.

For full specifications visit Ditchwitch.com

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