

RT105M TRACTOR

 **Ditch Witch**[®]

RIDE-ON



RT105M TRACTOR



1 Accepts centerline or dual position trenching attachments plus a front-mounted backhoe for maximum versatility.

2 Standard tilt-frame configuration helps you dig a vertical trench on uneven ground.

3 Six-post Rollover Protection System (ROPS) with a canopy.

4 Powerful 107-hp (80-kW) turbocharged Tier 4 Deutz® diesel engine.

5 Removable side panels for easy access to service areas.

6 Solid backfill lift arms and cast blade pivot to increase overall structural strength of backfill components.

7 Standard four-wheel drive for ultimate traction and improved mobility in every jobsite condition.

10 Mechanically powered trencher for more efficient power transfer so more ditches can be opened each day.

9 Rubber isolators between the cab and frame reduce vibration to give the operator a smoother ride.

8 Durable, high-capacity hydraulic and fuel tanks make for a more efficient use of space and more time working.

The RT105M is the ultimate machine if you're looking for power, convenience and durability. The RT105M features a variety of incredible benefits from a 4-wheel drive, to power shift and a roomy operator's station with an ergonomically designed seat that will make every job run smoother and faster. The RT105M is the toughest tool you can find to help you get through your job with ease.

WE'RE IN THIS TOGETHER.





DRIVEN TO BE THE BEST. **ALWAYS.**

Long hours on the jobsite can take their toll. So we redesigned the operator's station on the RT105M to keep you productive and comfortable. With plenty of muscle to power through the toughest tasks, the RT105M also includes all-new comfort features from an ergonomic, high-back swivel operator seat and controls console to improved legroom and tiltable steering. Enjoy total productivity from your new trenching office.



1

Dial control design for more precise control of ground drive.

2

The ergonomic station features additional legroom to keep operators comfortable and productive during long hours on a job.

3

Updated foot pedal design, easy-to-read gauges and controls, and a tiltable steering column provide operator with the controls needed to get the job done efficiently.

4

5-inch color LCD display for easier operation and machine monitoring.

5

Industry-unique custom design backfill blade control with electronic float for ultimate operator control.

6

Rotating, ergonomically designed seat with controls console that rotates 120 degrees for improved operator comfort.

RT105M TRACTOR SPECIFICATIONS

| | U.S. | METRIC |
|--------------------------------|--------|----------|
| DIMENSIONS | | |
| Angle of approach (A2) | 25° | |
| Height (H1) | 115 in | 2,920 mm |
| Height (H2) | 105 in | 2,667 mm |
| Nose to rear mount length (L1) | 125 in | 3,175 mm |
| Length, transport (L2) | 154 in | 3,910 mm |
| Wheelbase (L4) | 79 in | 2,005 mm |
| Width (W2) | 82 in | 2,085 mm |
| Width (W4) | 64 in | 1,625 mm |

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| POWER PLANT | | |
| Engine | Deutz® TCD3.6L4 | |
| Fuel | Diesel | |
| Cooling medium | Liquid | |
| Injection | Direct | |
| Aspiration | Turbocharged, charge air cooled | |
| Number of cylinders | 4 | |
| Displacement | 221 in ³ | 3.6 L |
| Bore | 3.86 in | 98 mm |
| Stroke | 4.72 in | 120 mm |
| Manufacturer's gross power rating (SAE J1995) | 107 hp | 80 kW |
| Rated speed | 2,300 rpm | |
| Engine tilt angles, max | | |
| Longitudinal | 30° | |
| Lateral | 30° | |
| Emissions compliance (highly regulated countries) | EPA Tier 4 Final | EU Stage IV |

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| POWER TRAIN | | |
| Ground drive | (Driving) powershift | |
| Differentials | Planetary front and rear w/rear steering | |
| Service brake | Disc type, foot operated | |
| Parking brake | Disc type, SAHR | |

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| OPERATION | | |
| Forward speed | | |
| Crowd | 0.6 mph | 0.96 km/h |
| Low | 6.2 mph | 9.9 km/h |
| High | 9.2 mph | 14.9 km/h |
| Reverse speed | | |
| Crowd | 0.6 mph | 0.96 km/h |
| Low | 6.2 mph | 9.9 km/h |
| High | 9.2 mph | 14.9 km/h |
| Vehicle clearance circle (SAE) wall to wall w/backfill blade | | |
| Front steer only | 35 ft | 10.7 m |
| Front and rear steer | 21 ft | 6.4 m |
| Ground clearance | 14 in | 356 mm |
| Basic unit weight | 9,700 lb | 4400 kg |
| Allowable tractor weight, max | 22,000 lb | 9979 kg |
| Front counterweight | 1,300 lb | 590 kg |
| Side counterweight, each | 250 lb | 114 kg |

| | U.S. | METRIC |
|---|-----------|------------|
| HYDRAULIC SYSTEM @ 2,300 RPM | | |
| Crowd circuit drive/steer pump capacity | 11.5 gpm | 43 l/min |
| Pump relief pressure | 3,100 psi | 213 bar |
| Auxiliary pump capacity | 5.1 gpm | 19.3 l/min |
| Auxiliary pump relief pressure | 3,000 psi | 206 bar |

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| FLUID CAPACITIES | | |
| Fuel tank | 38 gal | 144 L |
| Engine oil | 8.5 qt | 8 L |
| Hydraulic reservoir | 25 gal | 95 L |
| Hydraulic system | 30 gal | 114 L |
| Cooling system | 4.25 gal | 16.1 L |
| DEF tank | 2.6 gal | 10 L |

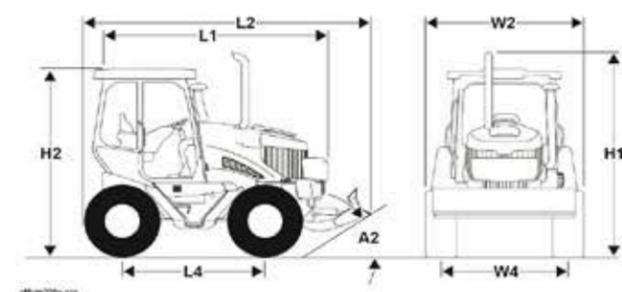
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| NOISE LEVEL | | |
| Operator | 91 dBA sound pressure per ISO 6394 | |
| Exterior | 107 dBA sound power per ISO 6393 | |

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| BACKFILL BLADE | | |
| Blade width | 80 in | 2030 mm |
| Blade height | 17 in | 430 mm |
| Lift height above ground | 26 in | 660 mm |
| Blade drop below ground | 10 in | 254 mm |
| Swing angle, max (left/right) | 30° | |
| Tilt angle, up/down | 12° | |

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| BATTERY (2 USED) | | |
| Group | 65 | |
| SAE reserve capacity | 165 min | |
| Auxiliary power outlet | 12 volt, 10 amps | |

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| VIBRATION LEVEL | | |
| Average vibration transmitted to the operator's hand during normal operation is 5.98 m/sec ² . | | |
| Average vibration transmitted to the operator's whole body during normal operation does not exceed 0.64 m/sec ² . | | |

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



RT105M ATTACHMENT SPECIFICATIONS

BH120 BACKHOE



| | U.S. | METRIC |
|-------------------------------|----------|------------|
| DIMENSIONS | | |
| Transport height | 118 in | 2997 mm |
| Ground clearance | 29 in | 736 mm |
| Digging depth, max | 112 in | 2844 mm |
| Reach from swing pivot | 158 in | 4013 mm |
| Bucket width | 12-24 in | 300-610 mm |
| Backhoe weight without bucket | 3,300 lb | 1497 kg |
| Swing arc | 180° | |

CT100M CENTERLINE TRENCHER



| | U.S. | METRIC |
|--------------------|----------|---------|
| DIMENSIONS | | |
| Angle of departure | 23.7° | |
| Trench depth, max | 97 in | 2463 mm |
| Trench width, max | 24 in | 610 mm |
| Transport height | 124 in | 3251 mm |
| Transport length | 115 in | 2921 mm |
| Attachment weight | 1,750 lb | 794 kg |

DT100M DUAL POSITION TRENCHER



| | U.S. | METRIC |
|-----------------------------------|----------|---------|
| DIMENSIONS | | |
| Angle of departure | 28° | |
| Trench depth, max | 97 in | 2464 mm |
| Trench width, center position max | 24 in | 610 mm |
| Trench width, offset position max | 12 in | 305 mm |
| Transport height | 124 in | 3251 mm |
| Transport length | 115 in | 2921 mm |
| Attachment weight | 1,750 lb | 794 kg |





FIND THE SUPPORT YOU NEED AT YOUR DITCH WITCH® DEALER, INCLUDING:



DIGGING SYSTEMS

Replacing worn digging system components is essential to maintaining maximum productivity from your trencher. See your dealer for genuine Ditch Witch chain, specially manufactured headshaft sprockets and digging teeth, which are designed to work together as a system to provide unparalleled trenching performance.



PARTS

Tires, rubber tracks, o-ring kits, decals, paint, filters, hydraulic cylinder kits, belts, and many other replacement parts and accessories are available at your local Ditch Witch dealership, where you'll also find expert advice that comes from years of experience in the underground construction industry.



SERVICE

Your Ditch Witch dealership offers professional service technicians who are extensively trained in every aspect of Ditch Witch equipment maintenance and repair. Ask a service representative about our Orange Armor® Planned Maintenance program to keep your equipment in peak operating condition.

