

ZAHN® R300

 Ditch Witch®



POWER UTILITY

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The Ditch Witch® Zahn® R300 is the best compact trencher ever made—and also the best backhoe, tool carrier and vibratory plow. With an ordinary machine with attachments, you expect to give up a little performance. But the Zahn R300 is nowhere near ordinary. With its unique InterChange™ connection, the front end becomes the machine and performs like a dedicated unit. With the Zahn R300 you get more power, more speed and, best of all, more productivity.

WE'RE IN THIS TOGETHER.



ZAHN® TRENCHER SPECIFICATIONS CONTINUED

	4-WHEEL DRIVE		HEADSHAFT AUGER		INDEPENDENT AUGER	
	U.S.	METRIC	U.S.	METRIC	U.S.	METRIC
HEADSHAFT SPEEDS @ 3,600 RPM ENGINE						
Low speed/high torque	186 rpm		186 rpm		186 rpm	
Medium speed/medium torque	244 rpm		244 rpm		244 rpm	
High speed/low torque	282 rpm		282 rpm		282 rpm	
POWER TRAIN						
Digging chain drive	Hydraulic direct drive		Hydraulic direct drive		Hydraulic direct drive	
Digging chain	33,000 lb or 35,000 lb		33,000 lb or 35,000 lb		33,000 lb or 35,000 lb	
Spoils handling drive	Hydraulic, independent		Hydraulic, independent		Hydraulic, independent	
Chain drive sprocket	Forged and tempered		Forged and tempered		Forged and tempered	
OPERATION						
Digging chain speed						
Min	230 ft/min	70.1 m/min	290 ft/min	88.4 m/min	230 ft/min	70.1 m/min
Max	290 ft/min	88.4 m/min	364 ft/min	111 m/min	364 ft/min	111 m/min
Trench cleaner type, mechanical						
Min	4 in	102 mm	4 in	102 mm	4 in	102 mm
Max	12 in	305 mm	8 in	203 mm	8 in	203 mm
Spoils handling	Single open end auger		Single open end auger		Single open end auger	
Auger size	6.18-in OD x 2-in ID x 17.25-in long		18-in OD x 2-in ID x 8.7-in long		6.18-in OD x 2-in ID x 17.25-in long	
TIRES/PRESSURE						
Urethane-filled trail wheel	N/A	N/A	16 x 6.5-8, ply, bar lug		16 x 6.5-8, ply, bar lug	
Tire assembly mass	N/A	N/A	18 lb	8.16 kg	18 lb	8.16 kg

ZAHN R300 POWER UTILITY SPECIFICATIONS

	U.S.	METRIC
DIMENSIONS		
Mobile length	70 in	1.78 m
Wheelbase	34.2 in	869 mm
Tractor back to rear axle	26.8 in	681 mm
Rear axle to attachment mounting	19.2 in	488 mm
Attachment mounting to front axle	15 in	381 mm
Mobile height	53.5 in	1.36 m
Ground clearance	5.3 in	135 mm
Platform height	10.7 in	272 mm
Width	36 in	914 mm
Angle of departure	25°	
Weight w/tires	1,290 lb	585 kg
Weight w/tracks	1,629 lb	738 kg
Mass	1,290 lb	585 kg
Vehicle clearance circle (SAE) wall to wall		
Right turn, 18 x 9.5-8 tires	11.3 ft	3.44 m
Left turn, 18 x 9.5-8 tires	10.5 ft	3.2 m
Right turn, tracks	15.8 ft	4.80 m
Left turn, tracks	16.7 ft	5.08 m
OPERATION		
Ground drive speed, forward/reverse		
Low	3.5 mph	5.6 km/h
High	5 mph	8 km/h
HYDRAULIC SYSTEM		
Auxiliary: gear pump		
Flow rate	12 gpm	46 l/min
Pressure	3,000 psi	207 bar
Ground drive: hydrostat		
Flow rate	19.3 gpm	73 l/min
Pressure	3,500 psi	241 bar
Ground pressure		
18x9.5-8 tires	10 psi	.7 bar
20x10-8 tires	9 psi	.6 bar
Tracks, averaged	3.11 psi	.21 bar

	U.S.	METRIC
POWER		
Engine	Kohler® CH750S	
Fuel	Gasoline	
Cooling medium	Air	
Number of cylinders	2	
Displacement	45.6 in³	747 cm³
Bore	3.3 in	83 mm
Stroke	2.7 in	69 mm
Manufacturer's power rating	30 hp	22.4 kW
Rated speed	3,600 rpm	
POWER TRAIN		
Parking brake	Mechanical, hand operated	
Service brake	Ground drive speed/direction control brakes machine hydraulically when moved to neutral position	
FLUID CAPACITIES		
Fuel tank	9 gal	34.06 L
Engine oil, w/filter	2 qt	1.9 L
Hydraulic reservoir	7.7 gal	29.1 L
Total hydraulic system volume	8.5 gal	32.2 L
TIRES/PRESSURE		
18 x 9.5-8, 2 ply, bar lug	12 psi	82.7 kPa
Tire assembly mass	22 lb	9.98 kg
Urethane filled 18 x 9.5-8, 2 ply, bar lug	N/A	
Tire assembly mass	36 lb	16.33 kg
Urethane filled 20 x 10-8, 2 ply, bar lug	N/A	
Tire assembly mass	49 lb	22.23 kg
18 x 8.5-8, 2 ply, turf	22 psi	151.7 kPa
Tire assembly mass	20 lb	9.07 kg
BATTERY		
SAE reserve capacity rating	32 min	
SAE cold crank rating @ 0°F (-18°C)	200 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.