



# MR90

MUD RECYCLER



Ditch Witch<sup>®</sup>

# MR90

By reclaiming, recycling and reusing drilling mud, you retain profits that others are literally throwing away. You'll profit even more with the Ditch Witch® MR90, the most advanced, most productive mud recycler on the market. The MR90 can mix and recycle drilling mud as well as handle spoils for exceptionally cost-effective production. Some of its many exclusively cost-efficient features: It has the fastest setup time on the market, and it's the only mud recycler you can transport full of fluid.

24.8-hp (18.5-kW) Kubota® Tier 4 engine provides the power for recycling, supply to the drill and all hydraulic functions, including the shaker action.

Efficient Flowmax® pump controls fluid flow for mixing, cleaning and transfer of fluids to drill.

300-gallon (1135-L) fresh water tank provides extra drilling fluid capacity and support for equipment cleanup.

110-gallon (416-L) clean tank and 340-gallon (1287-L) first-pass mud tank have 3-inch (7.6-cm) ports for vacuuming out mud.

Two-screen system plus six hydrocyclones produce extra-clean mud for reuse; features best-in-class hydraulic leveling screens and variable shaker speed.

Single-point operation simplifies performance without the need to move the unit; controls accessible from ground level or onboard catwalk.

Rear onboard spoils hopper catches all screened spoils; integral mixer allows drying additives to be mixed into the spoils and discharged.

Hydraulic pit pump provides more than enough mud for recycling; automatic pit pump control (exclusive feature) prevents overflow.

Optional commercial-grade trailer (14,000 GVWR) has standard LED lights, hydraulic jack and tool storage for all operational components.



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## DIMENSIONS

	U.S.	METRIC
Length, T14R trailer	216 in	5.48 m
Height	109 in	2.77 m
Width	100 in	2.54 m
Screen angle	8°	
Screen level angle	±5°	
Weight, dry	6,385 lb	2987 kg
System weight, w/fluid	13,063 lb	5926 kg
Trailer GVWR	14,000 lb	6350 kg

## ENGINE

Engine	Kubota® D1105	
Fuel	Diesel	
Cooling medium	Water	
Injection	Indirect	
Aspiration	Natural	
Number of cylinders	3	
Displacement	68.5 in <sup>3</sup>	1.12 L
Bore	3.07 in	78 mm
Stroke	3.09 in	78.4 mm
Manufacturer's gross power (SAE J1995)	24.8 hp	18.5 kW
Rated speed	3,000 rpm	
Emissions compliance	EPA Tier 4	

## PERFORMANCE

Recycle flow rate, max	90 gpm	341 l/min
Supply to drill, max	225 gpm	852 l/min
Shaker speed	0-2,000 vpm	
Screen area (coarse)	1,218 in <sup>2</sup>	.786 m <sup>2</sup>
Screen area (fine)	1,218 in <sup>2</sup>	.786 m <sup>2</sup>
Coarse screen micron standard	165/225 microns	
Fine screen micron standard	70/88 microns	

## FLUID CAPACITIES

	U.S.	METRIC
Engine oil w/filter	4.2 qt	4 L
Fuel tank	9.2 gal	34.8 L
Tank total	445 gal	1685 L
Hydraulic reservoir	8 gal	30.2 L
Tank dirty side	340 gal	1287 L
Tank clean side	110 gal	416 L
Water tank	300 gal	1135 L

## WATER SYSTEM

Pressure, max	2,500 psi	207 bar
Flow	3 gpm	15.1 l/min
Hose reel capacity (locking)	50 ft	15.3 m
Antifreeze	50/50 water/antifreeze mix	

## HYDRAULIC SYSTEM

Pressure	2,500 psi	172 bar
Drive type	Gear pump	
Flow rate	8 gpm	30.2 l/min

## NOISE LEVEL

Sound power	101 dBA	
Sound pressure	88 dBA	

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.

