

RD20 XC SPECIFICATIONS

BASIC RIG SPECIFICATIONS

RIG PERFORMANCE

Hookload	120,000 lb	54.4 tonnes	Torque	8,000 lbf-ft	10.8 kNm
Pulldown	30,000 lbf	13 636 kg	Speed	0 – 120 rpm	0 – 120 rpm
Fast feed up	106 ft/min	32.3 m/min	Spindle	3 in	76.2 mm
Fast feed down	180 ft/min	54.9 m/min	Swivel type	multi chevron packings	
Drill feed	29 ft/min	8.8 m/min	Opening	2 ½ in	63.5 mm

CARRIER

Twin H-beam main frame – reinforced	16 in	406.4 mm
5-axle, custom carrier	380 HP	283 kW diesel engine
8 – speed transmission	manual with lo – lo and reverse	
Tridem rear axles with lockers	23,000 lb	10 433 kg each
Tandem front steering axles	22,000 lb	9 979 kg each

DERRICK

Length	61 ft 11 ½ in	18.88 m	Table to ground		
Width	48 ½ in	1.23 m	(rig sitting on tires)	44 in	1 118 mm
Depth	41 in	1.04 m	Table to ground		
Top of table to Spindle	51 ft 6 in	15.70 m	(jacks fully extended)	92 in	2 337 mm

RIG DIMENSIONS

Height Derrick Down	13 ft. 10 in	4.22 m
Height Derrick Up	62 ft 6 in	19.05 m
Width	8 ft 4 in	2.54 m
Shipping Weight		
(less tooling)	≈ 88,000 lb	≈ 40 000 kg

RD20 XC UNIQUE SPECIFICATIONS

TIP-OUT LINKS

Forged steel	150 ton	136 tonnes
Length	60 in	1 524 mm
Tip out	hydraulic cylinder on each link	
Angle	0 – 90° from vertical	
Control	driller's console	

TABLE & MASTER BUSHING

Design	folding with twin jacks	
Max opening	26 in	660 mm
API split master bushing	17 ½ in	445 mm
Capacity	60 ton	54.4 tonnes

MAKE UP & BREAK OUT WRENCHES

Type	petol chain wrenches	
.....	hydraulic cylinder actuated	
.....	flip-over wrench heads	
Torque Capacity		
Wrench Torque	20,000 lbf-ft	27.1 kNm
Cylinder Torque	40,000 lbf-ft	54.2 kNm
Adjustable size range	3 to 8 ¼ in	76 – 210 mm
Height adj. BO	13 in	330 mm
Height adj. MU	13 in	330 mm
Control	driller's console	

CIRCULATION MANIFOLD – MUD

Capacity	3,000 psi	206.8 bar
Diameter	3 in	76.2 mm
Main valve	manually actuated	
Mixer line	manually actuated	
Pressure gauge in line		
Air / Mud hose	3 in	76.2 mm
Capacity	3,000 psi	206.8 bar

CIRCULATION MANIFOLD – AIR

Capacity	1,500 psi	103.4 bar
Diameter	2 ½ in	63.5 mm
Main valve	hydraulically actuated	
Blow down	electrically actuated	
Isolation valve	manually actuated	
Aux. comp. in	2 ½ in	63.5 mm
To Booster	3 in	76.2 mm
From Booster	2 ½ in	63.5 mm
Air / Mud hose	3 in	76.2 mm
Capacity	3,000 psi	206.8 bar

ELEVATORS

Forged steel	100 ton	90.7 tonnes
Size	2 7/8 – 5 in	73 – 127 mm
Actuation	hyd cylinders open/close & lock	
Control	driller's console	

SLIPS (OPTIONAL)

Type	hydraulically actuated	
Size	2 7/8 – 4 in	73 – 102 mm
Control	operator's console	
Capacity	60 ton	54.55 tonnes

PIPE HANDLING HOIST

Pull-single line	4,000 lb	1 814 kg
Speed – 1st wrap	225 ft/min	68.6 m/min
Control	driller's console	

AUXILIARY HOIST

Pull-single line	7,500 lbf	3 402 kg
Speed – 1st wrap	106 ft/min	32.3 m/min
Control	driller's console	