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Rough Terrain Crane

Capacity: 20 Tons

Four Wheel Drive and Four Wheel Steer





LIFTING CAPACITY	20 Tonnes
ENGINE	Ashok Leyland 6 cylinder , Liquid cooled, Diesel engine developing 160 hp @2300 or equivalent engine
TRANSMISSION	Power shift with torque converter with 4 forward and 3 reverse speed maximum road speed 32 Kmph
HYDRAULIC SYSTEM	Tandem gear hydraulic pump mounted directly on power shift transmission supplying hydraulic oil to all circuits separate pump is provided for steering system
ELECTRICAL SYSTEM	24 V, DC Battery, 2X 180 AH,12V, Negative earth
SUPER STRUCTURE	Super structure is capable of unlimited slewing in either direction and is mounted to chassis with sealed slew gear ring
BOOM DERRICKING	Double acting hydraulic cylinder with counter balance safety valve
SLEWING	Slewing through planetary gear box with built in spring applied hydraulically released multi-disc brake and driven by hydraulic motor, Dual control balance is provided for smooth operation. Free slew run for aligning of boom during hosting provided by a foot switch in the cabin.
HOIST SYSTEM	Hydraulic motor driving grooved hoist barrel through a planetary gear box and equipped with spring applied hydraulically released multi disc brakes. Over-lowering switch is provided in winch to prevent over-lowering Counter balance is provided for controlled lowering
TELESCOPIC BOOM	Double acting hydraulic cylinder is provided for boom telescoping .Three part jib fabricated from high tensile steel is extendable from 8.8 Mtrs to 21.4 Mtrs
HOOK BLOCK	3 Sheave block is provided
HOIST ROPE	16 MM Diameter
CHASSIS	Fabricated from high tensile steel plates
OUTRIGGERS	Four hydraulically operated outrigger beam with vertical hydraulic jacks fitted with lock valves. Hydraulic operation is controlled from driver's cabin. Outrigger foot pad is removable and stow-able. Protected piston rods of outrigger jacks.
STEERING	Power steering with four mode (front wheel steer only, rear wheel steer only, 4 wheel steer-crab or coordinated.) Automotive reversable steering. Steering Column – Tiltable
DRIVE	4x4 / 4x2

FRONT mounted rigidly to chassis REAR Drive steer with planetary wheel hub a mounted on oscillating cradle CAPACITIES Hydraulic Tank Hydraulic Tank 300 Ltrs. TYRES 14.00 x 25 – 24 PR BRAKES Hydraulic brakes on all wheels OPERATOR'S Steel frame cabin with maximum all around vision is fitted with lockable sliding door. All controls for crane moti travel, outriggers, operation and electrical controls are provided in the cabin, Adjustable seats, sunvisor, Fan, cabin light provided SAFETY EQUIPMENT Safe load indicator provides boom angle, length, radius & lifted load with visual indication of approach to overlo Audible warning for overload and over hoist along with motion cut. Automatic braking of suspended load in case of power failure PERFORMANCE DATA Automatic braking of suspended load in case of power failure PERFORMANCE DATA 35-40 sec Derrick Angle Derrick In 35-40 sec 35-40 sec Derrick Out 30-35 sec 35-80 sec Jib Extension Jib Retraction 40-45 sec 35-40 sec Slewing Park A Unit TCD 2 wheeler steer 19 Mtrs. 4 wheeler steer 10 Mtrs. OUTRIGGERS Out 12 sec Down 17 sec 10 cond						
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OPTIONAL EQUIPMENT Air conditioning Heater / Demisting 8m side folding fly jib	GRADEABILITY	44 %				
EQUIPMENT • Heater / Demisting • 8m side folding fly jib	WADING DEPTH	1000 mm				
Dual speed winchSpare wheelCold starting kitWorkmen basket		 Heater / Demisting 8m side folding fly jib Dual speed winch Spare wheel Cold starting kit 				

Specifications

20XW

LOAD CHART (85 % DUTY), 20XW

	360° SLEW ON OUTRIGGER			FREE ON WHEEL (STATIC)						LIFT & MOVE				
Boom			360° SLEW			OVER THE FRONT & REAR				SPEED : ≤ 5 KMPH				
radius					BOOM LENGTH									
(Mtr.)	CLOSED	EXTENDED	EXTENDED	EXTENDED	CLOSED	EXTENDED		CLOSED EXTENDED		CLOS	CLOSED EXTEN		ENDED	
Ì	8.8 m	8.8 to 12.3m	12.3 to 16.3 m	16.3 to 21.4 m	8.8 m	8.8 to 16.3	3 m	8.8	m	8.8 to 16.3 m	m 8.8 m		8.8 to 16.3 m	
m	Kg	Kg	Kg	Kg	Kg	Kg		К	g	Kg	Kg Kg		Kg	
3.0	20,000	14,000			9,500	7,900		14,900		12,500	00 11,600		11,100	
3.5	17,600	14,000	9,000		7,600	6,600		12,600		11,000	10,100		9,550	
4.0	15,400	14,000	9,000		6,100	5,600		10,000		9,600	8,900		8,400	
4.5	13,400	13,000	9,000		5,100	4,800		8,800		8,500	7,900		7,400	
5.0	11,900	12,500	8,500	6,500	4,400	4,100		7,900		7,600	6,600)	6,500	
6.0	9,700	9,500	7,500	6,000	3,300	3,400		6,400		6,100	5,500)	5,100	
7.0	7,200	8,100	7,000	5,600	2,500	2,400		5,300		4,800	4,400		4,200	
8.0		7,000	6,500	5,300		1,650				3,700			3,300	
10.0			5,000	5,000		750				2,200	2,		,200	
12.0			4,000	3,500						1,200			1,200	
14.0	·			2,700	BOOM WITH 8M FLY JIB (ON OUTRIGGERS)									
16.0				2,100	Radius (M)	8	10	0	13	16	19	2	2	24
18.0				1,600	Load (Kg)	1400	130	00	1200	1000	900	70	00	600
19.0				800	For full length boom with 8 m fly jib in working the boom angle must not be less than 30.5°									

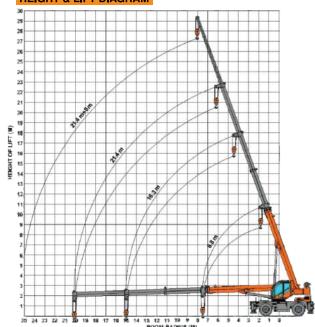
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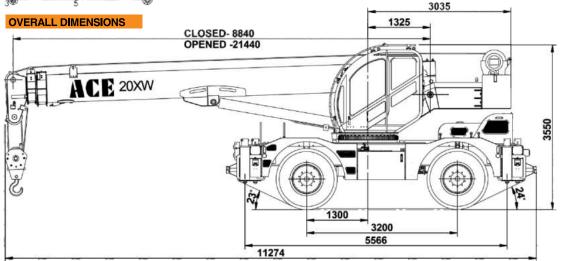
- 1 Lifting capacities are based on 85% duty as per IS 4573.
- 2 Max radius is based on boom angle not less than 18°. Derricking below 18° is not permitted for specified load.
- 3 Weight of slings or any lifting device must be considered as additional load.
- 4 Outrigger extension cylinders are fully extended and jack cylinders rested on firm ground during crane operation on outriggers.
- For free on wheel duties it must be ensured that all tyres are filled to specified air pressure and oscillating axle is locked. Crane should be on level and firm ground.
- 6. Crane should not be operated during high wind condition which affects stability.
- 7. For over front duty, slew must be locked by pin.
- 8. When fly jib is erected, the main boom capacities shall be reduced by 700 Kgs.

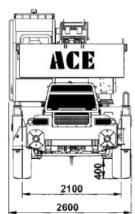
OUTREACH DIAGRAM FRONT REAR 8

OUTREACH OBTAINED BY DEDUCTION FROM RADIUS				
JIB POSITION				
1	2.94			
2	3.07			
3	3.96			
4	1.25			
5	2.75			
6	4.25			
7	3.44			
8	3.40			

HEIGHT & LIFT DIAGRAM







BUILT TO PERFORM















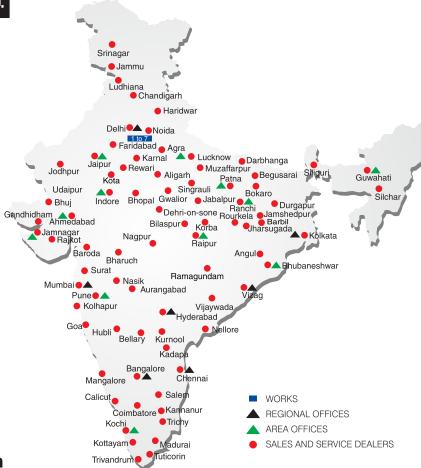




INDIA'S NO. 1 MOBILE & TOWER CRANE CO.

RELIABLE AND DEPENDABLE EFFICIENCY

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