

Pedestal Mounted, 360° Fully Revolving, Dynamic Offshore Crane

Principal Particulars

Built & Classification	
Built Year	2008
Country of Manufacture	Built in United States of America
Manufacturer	TechCrane International LLC, USA
Classification	1. American Bureau of Shipping Class approved for type, design and construction 2. Fully API 2C compliant 3. Man-riding compliant
Model No.	L500-120
Serial No.	L500120T753

Capacities		
Lifting Capacity	146 tons @ 25 ft, 81 deg.	
	25 tons @ 127 ft, 0 deg.	
Maximum Boom Point Elevation	130 feet from Main Deck	
Maximum Radius	127 ft - (38.7 m)	
Hydraulic Drive	CATERPILLAR C18	
Design Life	Min. 25 Years	As per API-2C

Dimensions & Load Chart

Dimensions		
Overall Height	47.8 ft - (14.57 m)	Excluding pedestal
Overall Length	146.6 ft - (44.68 m)	
Boom Length	120 ft - (36.58 m)	Can be extended
Boom Type	Open Throat Lattice Boom	High tensile strength

Load Line Chart (Please Refer Full Load & Curve Chart)		
Radius / Boom Angle (Ft) / (deg.)	On Board Lift (Kgs.)	Off Board Lift (Kgs)
25 / 81	217,226.7	146,133.4
50 / 69	140,671.2	94,428.0
75 / 55	90,124.7	60,373.1
100 / 39	65,031.5	43,450.1
127 / 0	37,492.1	24,994.8

Hoists & Features

Boom Hoist		
Make	Lantec Model LHS 330	Dual Drive Winch
Line Pull	44,000 Lbs	On the top layer
Reeved with	840 Ft of 1¼" Wire rope	
Boom Luffing	Approx. 0.15 degrees per second	Under full load
	Approx. 0.3 degrees per second	With approx. 50% of rated load
Max. Boom Angle	83 Degrees	With boom radius and angle indicator

Main Hoist		
Make	Lantec Model LWD 1600	Dual Drive Winch
Line Pull	50,000 Lbs	On the top layer
Wire Rope	2000 Ft 1½" Dyform 34 LR	
Hook Travel	180 ft / 55mtrs.	
Traveling Block Capacity	250 Tons	
Load Indicator	Electronic Load Indicator for Load Line	

Auxiliary Hoist		
Make	Lantec Model LHS 100	Dual Drive Winch
Line Pull	12,000 Lbs	On the top layer
Wire Rope	400 Ft 7/8" Dyform 18 LR	Single line
Traveling Block Capacity	10 Ton	

Rotation		
Rotation Direction	360 deg. continuous rotation in both directions via mechanical slew bearings	
Roation speed	180 deg. / min continuous rotation in both directions under max. load	
Gear Boxes	4, Eskridge, CHARLYNN MOTOR Model T4931-	Swing gear Motors

Safety Features	
Equiped with	Emergency load lowering system
	Failsafe hydraulic system
	4 high toe boards
Explosion Protection	Explosion Proof Sensors mounted on boom tip

Other Features		
Operator's Cabin	Airconditioned, Sealed, Marine grade, Ergonomic and Large with High Visibility	
Flood Lights	3 sets (Front, Middle of boom and Cabin)	400 W
Simultaneous Operation	Capable of two functions at full load and speed	
Anti-two blocking	Innovative and maintenance free.	(for Main and Aux. Hoist)

Certification & Accreditation

ABS	American Bureau of Shipping
API 2C	American Petroleum Institute
USCG	United States Coast Guard
AISC	American Institute of Steel Construction

ASTM	American Society for Testing and Materials
AWS	American Welding Society
NEC	National Electrical Code, USA
OSHA	Occupational Safety and Health Administration