ZX180LC

Telescopic Crane

CRANE SPECIFICATIONS

	9 Ton Telescopic Crawler Crane ZX180LC			
	9,000kg			
	0 000ks at 1 50M Padius (6 Parts Line) Statio			
	9,000kg at 1.50M Radius (6 Parts-Line) Static			
	3,000kg at 2.70M Radius (6 Parts-Line) Mobile			
	6,050kg at 3.50M Radius (6 Parts-Line) Static			
	2,450kg at 4.00M Radius (6 Parts-Line) Mobile			
	4,050kg at 5.00M Radius (4 Parts-Line) Static			
	1,850kg at 5.00M Radius (2 Parts-Line) Mobile			
	3,100kg at 6.00M Radius (2 Parts-Line) Static			
	13.70 Meters Max			
	Max 18.00 Meters with 4 part line			
	4 Section box beam type telescoping boom			
	4.60 Metres to 13.00 Metres			
	8.4/14M/S			
	`-3 degrees ~ 76 degrees / 10s			
	Hydraulic Motor driven planetary gear reduction, with automatic mechanical			
	brake and counterbalance valve			
	16.66kN (1,698kgf)			
	High 97 / Low 66			
	10mm x 111Meters (Construction IWRC 6xP.Fi(29)			
	83.5kN (8,510kgf)			
	9,000 kg Capacity, 3 Sheaves with Safety latch			
The state of the s	5,000 kg Supusky, 5 Sheaves with Suisty later			
min-1 rpm	2.0 (2.0)			
	3.0			
KIII/II	3.0			
	ISUZU AA-4BG1TCG			
(kM/DC)/mm)	90.2/2200 (87.4 / 2000)			
The second secon	4.329			
(IU.)				
	105mm x 125mm			
	2 x 12V / 55Ah			
	2 variable displacement axial piston pumps			
	2 x 150 L/min			
	1 Gear Pump			
	24.2 L/min			
	2 variable displacement axial piston motors			
	1 axial piston motor			
	34.3 MPa (350 kgf/cm²)			
	33.3 MPa (340 kgf/cm²)			
	34.3 MPa (350 kgf/cm²)			
	3.9 MPa (40 kgf/cm²)			
	Hydraulic circuits use high-quality filters. A suction filter is incorporated in the			
	suction line, and full-flow filters in the return line and swing/travel motor			
	drain lines.			
	Pilot Controls. Hitachi's original shockless valve. Implement Levers 2			
	Travel Levers with pedals 2.			
	Welded sturdy box construction, using heavy-gauge steel plates for			
	ruggedness. D-Section frame for resistance to deformation.			
	Axial piston motor with planetary reduction gear bathed in oil. Swing circle is			
	single-row shear type hall bearing with induction bardened internal gear			
	single-row, shear type ball bearing with induction-hardened internal gear.			
	Internal gear and pinion gear are immersed in lubricant. Swing parking			
	min-1 rpm km/h (kW(PS)/rpm) (ltr.)			

Operator's Cab		Independent spacious cab, 1005mm wide by 1675mm high, conforming to
		ISO * Standards. Reinforced glass windows on 4 sides for visibility.
		Front windows (upper and lower) can be opened. Reclining seat with
		armrests; adjustable with or without control levers.
		* International Standardisation Organisation
UNDERCARRIAGE		
Tracks		Tractor-type undercarriage. Welded track frame using selected materials.
		Side frame welded to track frame. Lubricated track rollers, idlers and
		sprockets with floating seals.
		Track shoes with triple grousers made of induction-hardened rolled alloy.
		Heat-treated connecting pins with dirt seals. Hydraulic (grease) track
N (D. II 10)		adjusters with shock-absorbing recoil springs.
Numbers of Rollers and Shoes	on each side	
Upper Rollers Lower Rollers		7
Track Shoes		46
Track Guard		140
Travel Device		Each track driven by 2-speed axial piston motor through planetary reduction
Traver Device	~	gear for counter rotation of the tracks. Sprockets are replaceable.
		Parking brake is spring-set/hydraulic release disc type. Travel shockless
		relief valve built in travel motor absorbs shocks when stopping travel.
Travel Speeds	***************************************	Low: 0 to 3km/h / High: 0 to 5 km/h
Maximum traction force		153kN (15600 kgf)
SERVICE REFILL CAPACITIES	3	
Fuel Tank	Litres	280
Engine Coolant	Litres	19.2
Engine Oil	Litres	15.8
Swing Device	Litres	6.2
Travel Device (each side)	Litres	6.8
Hydraulic System	Litres	180
Hydraulic Oil Tank	Litres	100
Safety Devices		Wylie w2245 Safe Load Indicator (EN13000 Compliant) complete with
		Data Logger
3		Boom Upper Angle Limit Cut Out Switch
		Boom Lower Angle Limit Cut Out Switch
		Winch Motor 3rd round end of rope Cut out Switch
		Overwinding alarm and automatic stop
		External Light Tower
		External Beacon Sounder
		Rear Camera
		Motion Alarm
***************************************		Spirit Level
		Manual Angle Indicator fitted to Boom
		Counterbalance valves for Boom Raising and Boom Telescoping cylinders and Winch Motor
		Automatic mechanical brake for winch motor Sprung Winch drum roller
		Steel Roof Window Guard
		Lower Front Window Guard
		Derrick Ram Steel Guard
STANDARD EQUIPMENT		Somethin Stori Saula
Engine		50 A Alternator
		Dry-type air filter with evacuator valve (with air filter restriction indicator)
***************************************		Cartridge-type engine oil filter
		Cartridge-type fuel double filters
		Air cleaner double filters
		Radiator, oil cooler and intercooler with dust protective net
		Radiator reserve tank
		Fan guard
		Isolation-mounted engine
		Auto idle system
		Fuel Cooler
		Electrical fuel feed pump
		Engine oil drain coupler
Hydraulic System		Control valve with main relief valve
		Extra port for control valve
		Suction filter
		Full-flow filter

	Pilot filter
	Swing dampener valve
Cab	CRES II (Centre pillar reinforced structure) cab
	OPG top guard fitted Level I (ISO 10262) compliant cab
	All-weather sound suppressed steel cab
	Equipped with reinforced, tinted glass windows
	4 fluid-filled elastic mounts
	Front windows on upper, lower and left side can be opened
	Intermitted windshield wipers
	Front window washer
	Adjustable reclining seat with adjustable armrests
	Footrest
	Spirit level
	Electric double horn
	AM-FM radio with digital clock
	Seat belt
	Drink holder
	Cigarette lighter
	Ashtray
	Storage Box
	Glove compartment
	Fire extinguisher bracket
	Floor mat
	Short wrist control lever
	Engine shut-off switch
	Auto control air conditioner
	Transparent roof with slide curtain
	Mechanical suspension seat with heater
Upper Structure	Undercover
	3000kg counterweight
	Fuel Level float
	Electric fuel refilling pump with auto stop
	Rear view camera
	Hydraulic oil level gauge
	Tool box
	Utility space
	Rear view mirror
	Swing parking brake
Undercarriage	Travel parking brake
bildercarriage	Travel motor covers
	1 track guard (each side) and hydraulic track adjuster
	Bolt on sprocket
	Upper and lower rollers
	Reinforced track links with pin seals
AA'U	4 tie down hooks
Miscellaneous	Standard tool kit
	Lockable machine covers
	Lockable fuel refilling cap
	Skid-resistant tapes, plates and handrails
	Travel direction mark on frame
	Onboard information controller
Optional Equipment	Bolt on Rubber Blocks
	160Meter Hoist Rope (for underground applications greater than Meters)

HITACHI

CRANE RATINGS ZX180LC

Unit: ka

IIIIAOI		CITAIA	Offic. Kg							
		Boom Length (Metres)								
	4.60m	Boom	7.80m Boom		10.40	10.40m Boom		Boom		
	STATIC	MOBILE	STATIC	MOBILE	STATIC	MOBILE	STATIC	MOBILE		
Working										
Radius (M)										
1.50	9000*	3000								
2.00	8000	3000								
2.50	8000	3000								
2.70	8000	3000	7700	3000						
3.00	7700	3000	7700	3000						
3.50	6050	2750	6050	2750	5390	not allowed				
4.00	5390	2450	5390	2450	5390	not allowed	4290	not allowed		
4.50	4565	2075	4675	2125	4730	not allowed	4290	not allowed		
4.80	4155	1885								
5.00			4015	1825	4015	not allowed	4015	not allowed		
6.00			3100	1410	3100	not allowed	3100	not allowed		
6.50			2750	1250	2750	not allowed	2750	not allowed		
7.00			2475	1125	2475	not allowed	2475	not allowed		
8.00			2000	910	2000	not allowed	2000	not allowed		
9.00					1700	not allowed	1700	not allowed		
10.00					1450	not allowed	1450	not allowed		
10.60					1340	not allowed	1340	not allowed		
11.00							1280	not allowed		
12.00							1120	not allowed		
13.00							1000	not allowed		
13.20							950	not allowed		

Hoo	ks	Number of hoist reeving and max. rated loads (kg)						
Сар.	Weight	6	5	4	3	2	1	
8.0 ton	75kg	9000	8000	6400**	4800**	3200	1600	

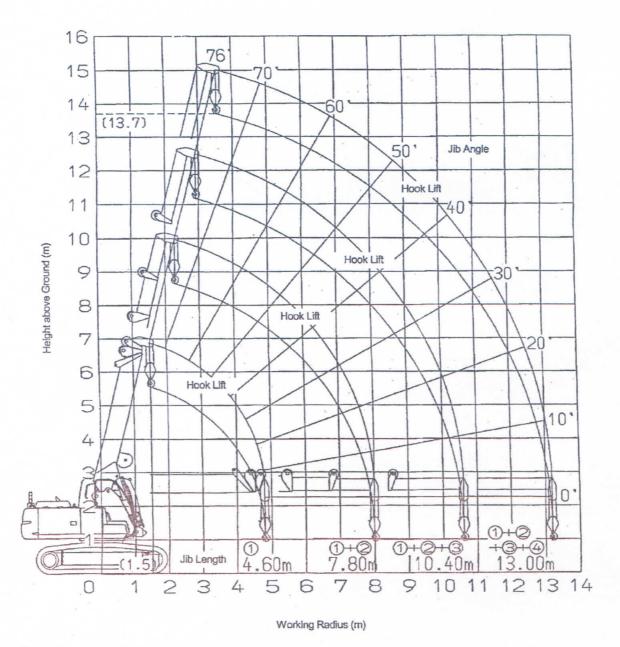
1. The rated loads are determined according to DIN 15018 part 3(lifting class H2, loading group B2). The stability is according to EN13000 (2004).

The rated loads listed are based on the condition that the machine is stationed on firm, level ground.

The rated loads are available over 360 degrees. The rated loads shown include the weight of all lifting attachments. such as hook and bucket. The load to be actually lifted is the rated load minus the weight of all lifting attachments.

- 2. Counterweight is 3300kg fixed to crane.
- 3. Travelling is allowed according and provided that:
- surface must be firm and level
- the boom is in travelling direction
- speed is not above 0.4m/s (on a firm level ground)
- the load is near the ground (0.5m) and secured against swaying
- no other movements are allowed
- 4. * Denotes use of Additional Lifting Equipment
- 5. ** Standard reeving for working 1-2 or 5 reeving, for special cases 3 and 4 reevings possible to work.
- 6. At windforce of 14m/s or more the operation must be stopped. By windforce of 15m/s or more the boom must be retracted to the minimum and lowered to the ground.
- 7. For the wind load area of the rated load is 1,2m² per 1000kg calculated.

Working Range Diagram



NOTE: The working ranges shown are determined with the machine under no-load condition, excluding jib deflection.

In crane operation with lifted load, jig angle range is restricted to 0° to 76°.

