

Max. Lifting Capacity 80 MT at 4 Mtrs

Max. Boom Length 58 Mtrs

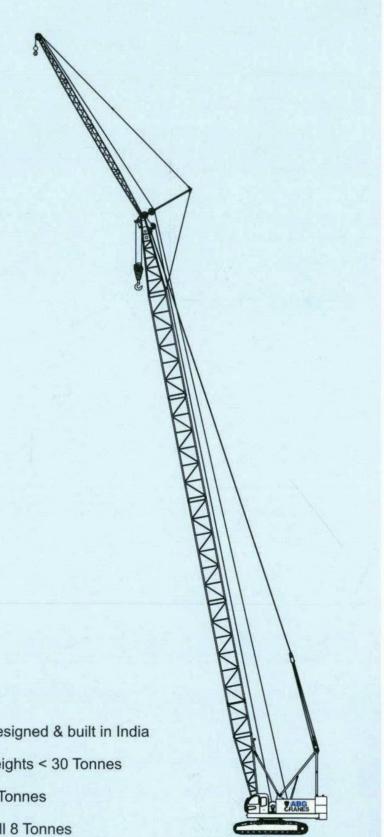
Boom and Jib Combination 52Mtrs + 13.5Mtrs/49 Mts+18Mtrs

1080

HYDRAULIC CRAWLER CRANE

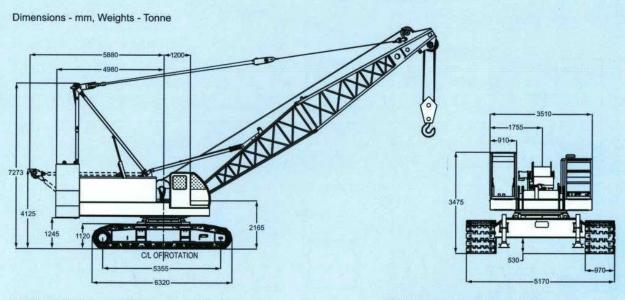


SITUTION



- > 80 T hydraulic crane designed & built in India
- Optimised transport weights < 30 Tonnes</p>
- High single linepull 15 Tonnes
- Allowable single linepull 8 Tonnes

Dimensions & Weights

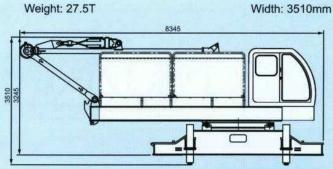


Total weight of crane with Lower structure + Super structure + Basic Boom + Hook Block

=77.5T

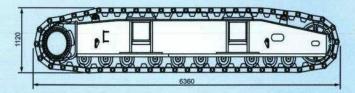
Weight of crane (Without Briddle, Main Boom & Hook Block)

Weight: 27.5T



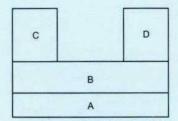
Weight: 2x10.63T

Width: 970mm

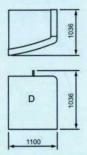


Total weight including counterweight, Main Boom & 80T Hook Block	77.5 T
Superstructure (with three winch drums, A- frame & all wire ropes, carbody with assembled jacks)	27.5 T
Crawler assembly with shoes	2 X10.63 T
Counter weight	24.3 T
Ground pressure based on 77.5 T (machine weight)	0.746 Kg/Sq.cm
Gradeability unladen	30 %

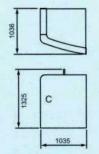
Dimensions - mm, Weights - Tonne



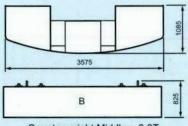
Counterweight Top RH, LH



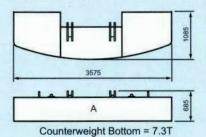
RH Weight = 4.75T



LH Weight = 3.45T

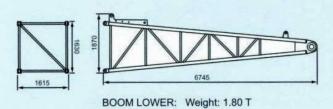


Counterweight Middle = 8.8T



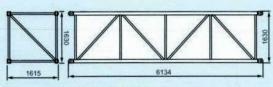
1615 6990

BOOM UPPER: Weight: 1.68 T

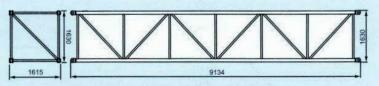


1615

3M BOOM INSERT: Weight: 0.52 T



6M BOOM INSERT: Weight: 0.84 T



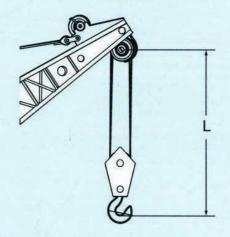
9M BOOM INSERT: Weight: 1.15 T

Dimensions & Weights

M - Meter

Hook Block (Shank type hook)

Туре	Rated lifting capacity	No. of sheave	Part Line	Weight	L
80 T	80 T	5	10	1.08T	4.5 M
50 T	50 T	3	7	0.8 T	3.85 M
25 T	25 T	1	3	0.6 T	3.74 M
8 T	8 T	Single line hook	1	0.25 T	3 M



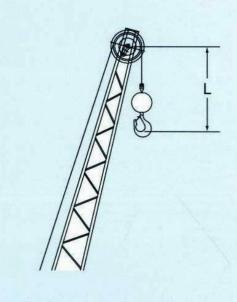
Configuration

Crane Boom Arrangements

Boom Length Boom Arrangements	
13M 🗘 👀	
16M 13 00	
19M 6	
22M L 9 0	10
25M	
28M (L 6 9 0	
31M L 9 9 0	
34M 🔠 3 9 9 🗩	
37M	
40M 9 9 9	
43M	
46M 6 9 9 9	
49M 9 9 9	
52M 1 3 9 9 9 9	
55M 6 9 9 9 9	•0
58M	>0



Symbols	Boom Length	Remarks
	6.5M	Boom Lower
D0	6.5M	Boom Upper
3	3M	Boom Insert
6	6M	Boom Insert
9	9M	Boom Insert



Fixed Jib & Boom Arrangements

Jib Lengtl	n Jib Arrangement	Crane Boom Length
9M	\bigcirc B \top	37M - 52M
13.5M	B 4.5 T	37M - 52M
18M	B 4.5 4.5 T	37M - 49M

Note

Symbols	Jib Length	Remarks
B	4.5M	Jib Base
	4.5M	Jib Top
4.5	4.5M	Jib Insert

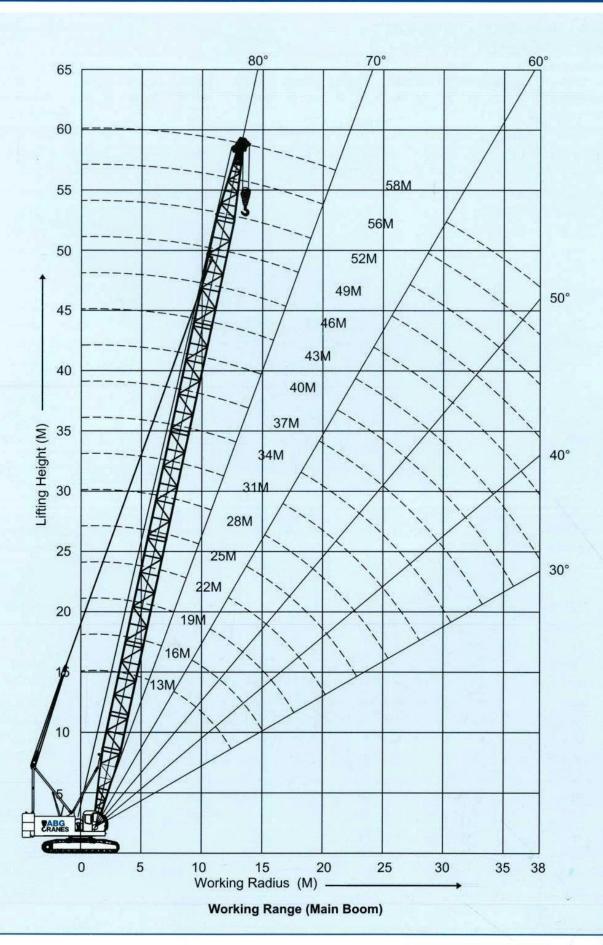
Rated Lifting Capacities On Main Boom

360° working area

Capacity- Tonne, m-meter

Boom length(m)	13	16	19	22	25	28	31	34	Boom length(m)
Working radius(m)									Working radius(m)
4.0	80.00	-	-	1	-		Ø * €55		4.0
4.5	75.12	75.05	(5.15m)	- 1				120	4.5
5.0	65.50	65.40	61.95	(5.77m)	10/1			HI III STATE	5.0
5.5	56.00	55.80	55.70	54.80	(6.40m)	-		-	5.5
6.0	47.80	47.61	47.55	47.46	47.35		180		6.0
6.5	42.80	42.60	42.55	42.50	42.30	- N	12"		6.5
7.0	38.22	38.08	38.00	37.90	37.80	37.70	(7.65m)		7.0
7.5	34.55	34.45	34.35	34.22	34.08	34.00	32.95	(8.27m)	7.5
8.0	31.50	31.35	31.25	31.15	31.00	30.90	30.85	29.25	8.0
8.5	28.95	28.80	28.70	28.60	28.45	28.35	28.25	28.10	8.5
9.0	26.72	26.60	26.50	26.40	26.15	26.10	26.00	25.90	9.0
10.0	23.20	22.92	22.90	22.80	22.65	22.55	22.46	22.35	10.0
11.0	20.42	20.30	20.15	20.10	19.95	19.85	19.75	19.60	11.0
12.0	18.25	18.10	18.00	17.90	17.75	17.65	17.60	17.40	12.0
13.0	16.50	16.30	16.20	16.10	15.95	15.85	15.80	15.60	13.0
14.0	(12.46m)	14.80	14.70	14.62	14.45	14.35	14.25	14.10	14.0
15.0	-	13.35	13.25	13.15	13.00	12.90	12.80	12.65	15.0
16.0			12.20	12.10	11.90	11.85	11.75	11.60	16.0
18.0	Tall Inch		10.75	10.40	10.25	10.15	10.05	9.90	18.0
20.0			(17.65m)	8.95	8.80	8.70	8.60	8.45	20.0
22.0		-	-	8.80	7.75	7.65	7.55	7.37	22.0
24.0				(20.25m)	7.35	6.80	6.70	6.52	24.0
26.0		-		(20.20)	(22.85m)	6.08	5.80	5.65	26.0
28.0		William St.		-	-	(25.45m)	5.25	5.05	28.0
30.0		-			7 12	(20.10.11)	-	4.58	30.0
32.0		-0.1			-			4.20	32.0
34.0	-	-	11.20	120	12:1	-		(30.64m)	34.0
36.0		-					1000	,00.0)	36.0
38.0			-	-				-	38.0

Boom length(m)	37	40	43	46	49	52	55	58	Boom length(m)
Working radius(m)									Working radius(m)
4.0				2	- 10 1000	4	(+:		4.0
4.5	140	1100			- 100	JULY 1		27	4.5
5.0				4 11			-		5.0
5.5		-	ALL DEPOSIT OF	-		2	12		5.5
6.0	11/2/	T. Dental		100		-			6.0
6.5		6-7-16	- 1	100		2			6.5
7.0		THE RESERVE	-1		-		-		7.0
7.5						-			7.5
8.0	(8.89m)				-	-	2		8.0
8.5	26.30	(9.52m)	-			-			8.5
9.0	25.80	23.75	(10.14m)	(10.76m)	-	_		10.00	9.0
10.0	22.25	22.12	21.55	19.80	(11.38m)		-		10.0
11.0	19.50	19.40	19.25	19.15	18.15	-	(12.64m)	-	11.0
12.0	17.30	17.20	17.05	16.95	16.85	16.68	15.40	(13.26m)	12.0
13.0	15.50	15.40	15.30	15.15	15.05	14.90	14.80	14.25	13.0
14.0	14.00	13.90	13.75	13.65	13.58	13.40	13.30	13.15	14.0
15.0	12.55	12.45	12.30	12.20	12.10	11.95	11.85	11.70	15.0
16.0	11.50	11.40	11.25	11.15	11.05	10.90	10.80	10.65	16.0
18.0	9.80	9.70	9.55	9.45	9.35	9.20	9.10	8.90	18.0
20.0	8.35	8.25	8.08	7.98	7.90	7.75	7.60	7.45	20.0
22.0	7.27	7.20	7.05	6.95	6.85	6.66	6.56	6.40	22.0
24.0	6.42	6.35	6.20	6.07	6.00	5.85	5.75	5.55	24.0
26.0	5.55	5.45	5.30	5.20	5.10	4.95	4.85	4.70	26.0
28.0	5.00	4.90	4.70	4.60	4.50	4.40	4.30	4.10	28.0
30.0	4.48	4.38	4.20	4.12	4.05	3.88	3.78	3.60	30.0
32.0	3.85	3.75	3.60	3.50	3.42	3.28	3.20	3.05	32.0
34.0	3.65	3.40	3.25	3.15	3.05	2.90	2.80	2.65	34.0
36.0	(33.24m)	3.00	2.80	2.75	2.65	2.50	2.40	2.25	36.0
38.0	-	(35.84m)	2.55	2.45	2.38	2.25	2.15	2.00	38.0



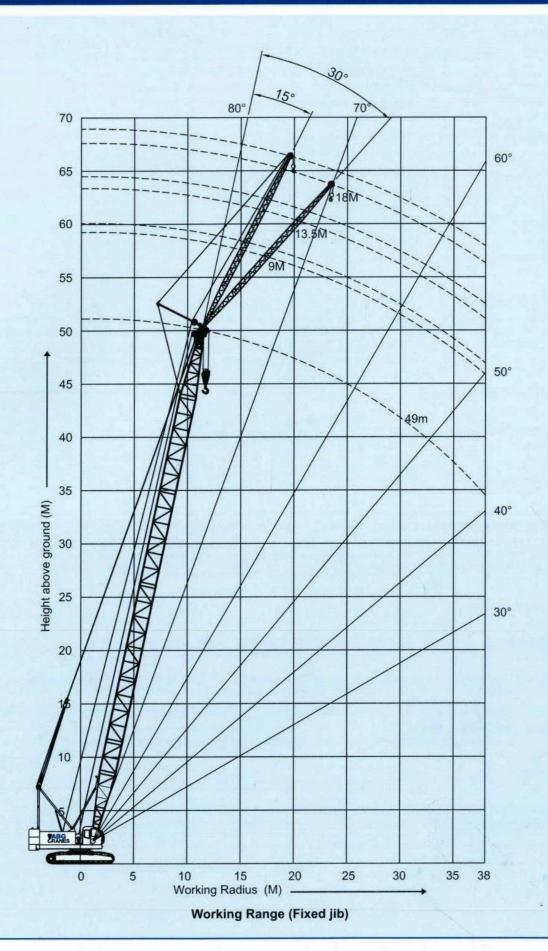
Rated Lifting Capacities On Fixed Jib

Jib offset angle of 15° and 30° - 360° working area

Capacity- Tonne, m-meter

Boom length(m) →			37	m					40	m					43	3 m			← Boom length(m
Jib length(m)→	9.0	m	13.	5 m	18.	0 m	9.0) m	13.	5 m	18.	0 m	9.0) m	13.	5 m	18.	0 m	→ Jib length(m
lib offset angle	15"	30	15°	30°	15	30°	15"	30	15"	30°	15°	30.	15"	30°	15"	30°	15"	30°	Jib offset angle
Working radius(m)																			Working radius(m)
13 m	8.0							**		-	-		-						13 m
14 m	8.0	-	-	-	*	-	8.0		-	-	*	-	8.0			5.75	177/	-	14 m
15 m	8.0	5.6	7.0	+		31 4	8.0				-		8.0	7/-				-	15 m
16 m	8.0	5.5	7.0	*	-	*	8.0	5.6	7.0				8.0	5.5	7.0	14	-	-	16 m
17 m	8.0	5.5	7.0	-	5.1	No. 12	8.0	5.5	7.0				8.0	5.5	7.0			*	17 m
18 m	8.0	5.5	7.0	4.0	5.0	*	8.0	5.5	7.0	4.0	5.0	-	8.0	5.5	7.0	*	5.0	**	18 m
20 m	8.0	5.4	7.0	4.0	5.0	-	8.0	5.5	7.0	4.0	5.0	-	8.0	5.5	7.0	4.0	5.0	100	20 m
22 m	7.6	5.4	7.0	4.0	5.0	3.2	7.3	5.5	7.0	4.0	5.0	3.2	7.5	5.5	7.0	4.0	5.0	3.2	22 m
24 m	6.7	5.4	6.9	4.0	5.0	3.2	6.5	5.4	6.5	4.0	5.0	3.2	6.4	5.4	6.7	4.0	5.0	3.2	24 m
26 m	5.7	5.4	6.1	4.0	5.0	3.2	5.8	5.4	6.0	4.0	5.0	3.2	5.7	5.3	5.8	4.0	5.0	3.2	26 m
28 m	*	5.3	5.5	4.0	4.8	3.2	5.2	5.2	5.6	4.0	5.0	3.2	4.9	5.2	5.0	4.0	5.0	3.2	28 m
30 m			4.9	4.0	4.8	3.2	2	4.6	4.8	3.9	4.5	3.2	4.2	4.6	4.6	4.0	4.7	3.2	30 m
32 m	-	+		3.9	4.5	3.1		V41:	4.2	3.9	4.3	3.2	268	4.0	4.1	4.0	4.4	3.2	32 m
34 m	-	-			4.0	3.1		*	=(=)	3.9	3.9	3.1	3.70	-	3.6	3.4	3.8	3.2	34 m
36 m	-	-	3*5	*		3.1	-				3.5	3.1			-	3.4	3.3	3.2	36 m
38 m	+	0+_	H(#)		1.00	*		173	150	7		3.1	12		-	2	-	3.1	38 m
40 m	-		100 K		50					1000	-		-	-	200	#	-	3.0	40 m
42 m		-				*	-	-	-	-	===1		100	-	*				42 m

Boom length(m) →			10000	46 m	612100	States a			49		1000	200000		m	← Boom length(m)
lib length(m)→	9.0) m	13.	5 m	18.	0 m	9.0	m	13.	5 m	18.	0 m	25'44	5 m	← Jib length(m)
lib offset angle Norking radius(m)↓	15"	30°	15"	30°	15"	30.	15°	30°	15	30.	15"	30°	15'	30°	Jib offset angle Working radius(m)
13 m		*		125	-		H#K	-	*		100	*	-	-	13 m
14 m	4.5	-		-	120			-		-		-			14 m
15 m	8.0	-	-	141	-					-					15 m
16 m	8.0		-		-	7.	8.0		170	. 7			-	-	16 m
17 m	8.0	5.5	7.0	-		-	8.0	5.5		-		-		120	17 m
18 m	8.0	5.5	7.0		-		8.0	5.5	7.0	-	-	-	-		18 m
20 m	8.0	5.5	7.0	4.0	5.0	-	8.0	5.5	7.0	4.0		-	7.0	-	20 m
22 m	7.2	5.5	7.0	4.0	5.0	-	7.3	5.5	7.0	4.0	5.1	-	7.0	4.0	22 m
24 m	6.3	5.5	7.0	4.0	5.0	3.2	6.3	5.4	6.5	4.0	5.1	3.5	7.0	4.0	24 m
26 m	5.0	5.5	5.8	4.0	5.0	3.2	5.6	5.3	6.0	4.0	5.1	3.5	6.0	4.0	26 m
28 m	4.9	5.1	5.1	4.0	5.0	3.2	4.8	5.1	5.1	4.0	5.1	3.5	5.0	3.9	28 m
30 m	4.3	4.5	4.5	4.0	4.7	3.2	4.4	4.5	4.6	4.0	4.6	3.5	4.3	3.9	30 m
32 m	3.6	4.0	3.8	4.0	4.3	3.2	3.9	4.0	4.3	3.9	4.2	3.5	3.5	3.8	32 m
34 m	-	3.5	3.5	4.0	3.8	3.2	3.4	3.5	3.6	3.8	3.7	3.4	3.3	3.6	34 m
36 m		100	3.0	3.5	3.5	3.1	-	-	3.3	3.5	3.3	3.2	3.0	3.2	36 m
38 m				3.0	3.1	3.0			ilians.	3.1	2.9	3.2	2.5	2.8	38 m
40 m		-	15%	-	-	2.8	*		3% * 6	1.#3	2.7	2.8	y e	2.5	40 m
42 m		-	E SE	116	*	2.6	*		-	-		2.8	-		42 m



Rated Lifting Capacity for Clamshell



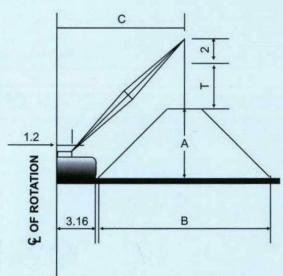


Unit: Metric Tonne

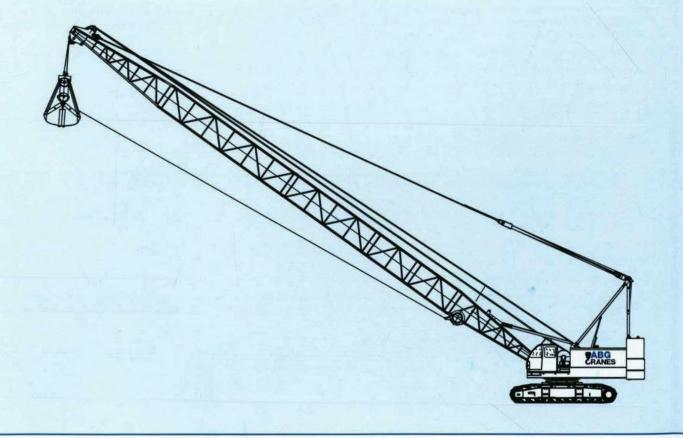
Boom	length (m)	10	3	16	5	19	9	2	2	2	5	21	3	3	1	3	4
		Boom Angle (°)	Lifting Cap.														
	7.0	65	7.5	- 700							ATU.	77	70 15		THE R		(Inches)
	7.5	61	7.5														
	8.0	59	7.5	65	7.5												
	8.5	56	7.5	63	7.5												
	9.0	53	7.5	60	7.5	66	7.5										
	10.0	48	7.5	55	7.5	62	7.5										
40	11.0	41	7.5	52	7.5	59	7.5	64	7.5								
working radius	12.0	32	7.5	47	7.5	56	7.5	60	7.5	64	7.5						
D F	13.0			42	7.5	51	7.5	58	7.5	62	7.5	65	7.5				
orkii	14.0			36	7.5	48	7.5	54	7.5	59	7.5	63	7.5	65	7.5		
3	15.0					43	7.5	51	7.5	56	7.5	60	7.5	63	7.5	66	7.5
	16.0					39	7.5	47	7.5	54	7.5	58	7.5	61	7.5	64	7.5
	18.0							40	7.5	48	7.5	56	7.5	57	7.5	60	7.5
	20.0							31	7.5	42	7.5	48	7.5	53	7.5	56	7.5
	22.0									33	6.9	42	6.8	48	6.7	52	6.6
	24.0											35	6	43	6.1	48	5.8
	26.0													38	5.2	43	5.1
	28.0															38	4.5

NOTES:

- 1. Ratings according to IS-4573-1982. Rated lifting capacity is 75% of tipping load.
- 2. Ratings are in metric tonnes for 360 degree working area.
- 3. Operating radius is the horizontal distance from center of rotation to vertical line through the center of gravity of Hook Block.
- Weight of Hook Block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- 6. Ratings are operation on a firm and level surface, up to 1% gradient.
- 7. For all radii and boom lengths where no ratings are shown on chart, operation is neither intended nor approved.
- 8. Boom/jib inserts and guy lines must be arranged as shown in the "Operator's Manual".
- 9. Boom hoist reeving is 12 part line.
- 10. Gantry must be in raised position for all conditions.
- 11. Boom backstops are required for all boom lengths.
- 12. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
- 13. Crane boom ratings with fixed jib: Deduct the weight of Hook Block, slings and all other load handling accessories from crane boom ratings with fixed jib. When jib is used, load lifting capacity of Main Boom will be deducted as mentioned. (a) For 9m jib- 750kgs (b) For 13.5m jib- 1000kgs (c) For 18m jib- 1300kgs.
- 14. Ratings shown are determined by the strength of the boom or other structural components. Tipping of crane should not be taken as guidelines for lifting of load.
- 15. Working radius is the horizontal distance between center line of rotation and vertical line through C.G. of bucket.
- 16. Weight of bucket is included in the rating.
- 17. Maximum lifting capacity of clamshell is 7.5 MT including Bucket weight.
- 18. Ratings shown are based on freely suspended loads and make no allowance for wind effect, ground conditions, out of level surface, operating speeds or any other conditions that could be detrimental to the safe working conditions of the equipment. Operator, therefore has the responsibility to judge the existing conditions and reduce the lifting load.
- 19. Bucket capacity 1.8 Cu.m. and approx. bucket weight is 3.6 MT.



BOOM LENGTH	1	13	1	16		19	22		25		28		31		34	
HT. &	A	В	A	В	A	В	A	В	A	В	A	В	A	В	A	В
STOCK PILE	1	14.02	7.78	18.26	9.9	22.5	12.02	26.74	14.14	30.98	16.26	35.22	18.39	39.48	20.51	43.72
OPERATING RADIUS 'C'	10).39	12.51		14	1.64	16.76		18.	88	2	1	23.	12	25.	24



Specifications

POWER PLANT

Model:

Caterpillar Diesel Engine 3306B

Type:

Water cooled, direct fuel injection with turbo charger

Displacement:

10.5 Ltrs (638 Cu.in)

Rated Power:

242 KW (325 HP) at 2000 rpm

Maximum Torque:

1100 NM @ 1500 rpm

Cooling System:

Water re-circulating type

Starter:

24 V / 5 KW

Radiator:

Thermostatically controlled corrugated core

Air Cleaner:

Dry type with service indicator Manual (Hand & Foot) controlled

Throttle: Fuel Filter:

Replaceable element paper type

Batteries:

2 Nos. 12 V, 180 Ah/20 hrs. series connected

Fuel Tank Capacity:

300 Liters

HYDRAULIC SYSTEM

Three variable displacement piston pumps are driven by heavy duty pump drive. Two of the variable displacement pumps are used in the main hook hoist circuit, boom hoist circuit, auxiliary hoist circuit and each propel circuit. The other pump is used in the swing circuit.

Control:

Full-flow hydraulic control system for infinitely variable pressure to front and rear drums, boom hoist brakes. Controls respond instantly to the touch delivering smooth operation

Cooling:

Oil-To-Air Cooler (Fin Type)

Maximum Relief Valve Pressure:

Main and Aux. Hoist:

250 bar

Boom Hoist and Propel system:

250 bar

Swing System:

210 bar

Control System:

30 bar

Reservoir Capacity:

550 Liters

BOOM HOISTING SYSTEM

Powered by a hydraulic motor through a planetary reducer. Fail Safe Manifold Brakes: Spring-applied, hydraulically released multiple-disc brake is mounted on the gear box and operated through counter-balance valve provided for additional safety.

Drum Lock:

External ratchet for locking drum and release by hydraulic cylinder

Drum:

Single drum grooved for 20 mm dia wire rope

Diameter of Wire Ropes:

Boom Guy Line:

40 mm dia.

Boom Hoist Reeving:

12 parts of 20 mm dia high strength wire rope

Boom Back Stops:

For safety

Drum Lock:

External latchet on locking drum and release through hydraulic cylinder

UPPER STRUCTURE

Structure with high tensile plate machined upper frame. All components are easily accessible for service.

Engine with low noise level.

Counter Weight:

24.3 MT

SWING SYSTEM

Swing Unit is powered by hydraulic motor, driven by spur gear through planetary reducer, the swing system provides 360 degree rotation.

Swing Parking System:

Spring-applied, hydraulically released multiple disc brake is mounted on the

swing gear box

Swing Circle:

Ball bearing with and integral internally cut swing gear

Swing Lock:

Manual, four position lock for transport

Specifications

LOAD HOIST SYSTEM

Front and rear drums for load hoist powered by hydraulic variable piston motors, driven through planetary reducers.

Fail Safe Brakes:

Spring-applied, hydraulically released multiple disc brake is mounted on the hoist gear box and

operated through manifold. Counter balance valve is provided for additional safety.

Drum Lock:

External ratchet for locking drum and release through hydraulic cylinder

Drums

Front Drum (Main Hoist):

568mm PDC x 600 mm width grooved for 26 mm wire rope

Rope Capacity

Working Length: Storage Length:

180 Mtr 229 Mtr

Max. Storage Length Drum

Main Hoist:

10 parts- 26mm dia.

Aux Hoist:

26mm dia.

CAB AND CONTROL

Totally enclosed, full vision cabin with safety glass, fully adjustable high backed seat with head-rests, arm-rests and wiper.

Cab Fittings:

Air conditioner, convenient compartment for tools & floor mat with glass

Controls:

Joystick for front drum, rear drum, boom drum and swing controls. Travels with hand lever

and foot pedals

LOWER STRUCTURE

Steel welded car body mounted on fabricated beam. Crawler can be hydraulically retracted/extended for crawler side frame assembly/dismantling. Crawler belt tension is maintained by hydraulic jack-force on the track and inserting shims with bearing blocks.

Car Body Weight:

Crawler Drive:

Independent hydraulic propelled drive is built into each crawler side frame. Each drive consists of hydraulic motor, propelling or driving tumbler, through a planetary gear box Hydraulic motor and gear box are bolted to crawler side frame within the shoe-width

Crawler Brakes:

Spring-applied, hydraulically released propel drive

Steering Mechanism:

A hydraulic propel system provides both skid steering and counter rotating steering in

opposite directions

Track Rollers:

Sealed track rollers for maintenance free operation

Shoes:

52 on each Crawler Side Frame

Gradeability:

30%

SPEEDS

Mechanism	Speeds	Maximum single line pull	Rated allowable single line pull	Rope size	Length of rope
Main Hoist	97 M/Min	15 T	8 T	26MM	220M
Auxiliary Hoist	97 M/Min	15 T	8 T	26MM	180M
Boom Hoist	52 M/Min			20MM	180M
Swing	1.53 RPM				
Propel(Unladen)	1kmph				

Maximum single line pull available on 1st layer of winch drum. Rope reeving effect not considered.
Speed may vary according to load.

Speeds at 1st layer of winch drum.
Raising & lowering speeds are same.

SAFETY DEVICE

- Safe load indicator (with overload protection/ cut off function)
- · Boom over-hoist prevention device
- LCD multi display
- Ultimate stop function for boom over-hoist
- Function lock lever

- Mechanical drum lock pawl (main, aux. and boom hoist)
- Swing parking brake
- Mechanical swing lock pin (four position)
- External lamp for over-load alarm
- Counter balance valves in all functions



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