

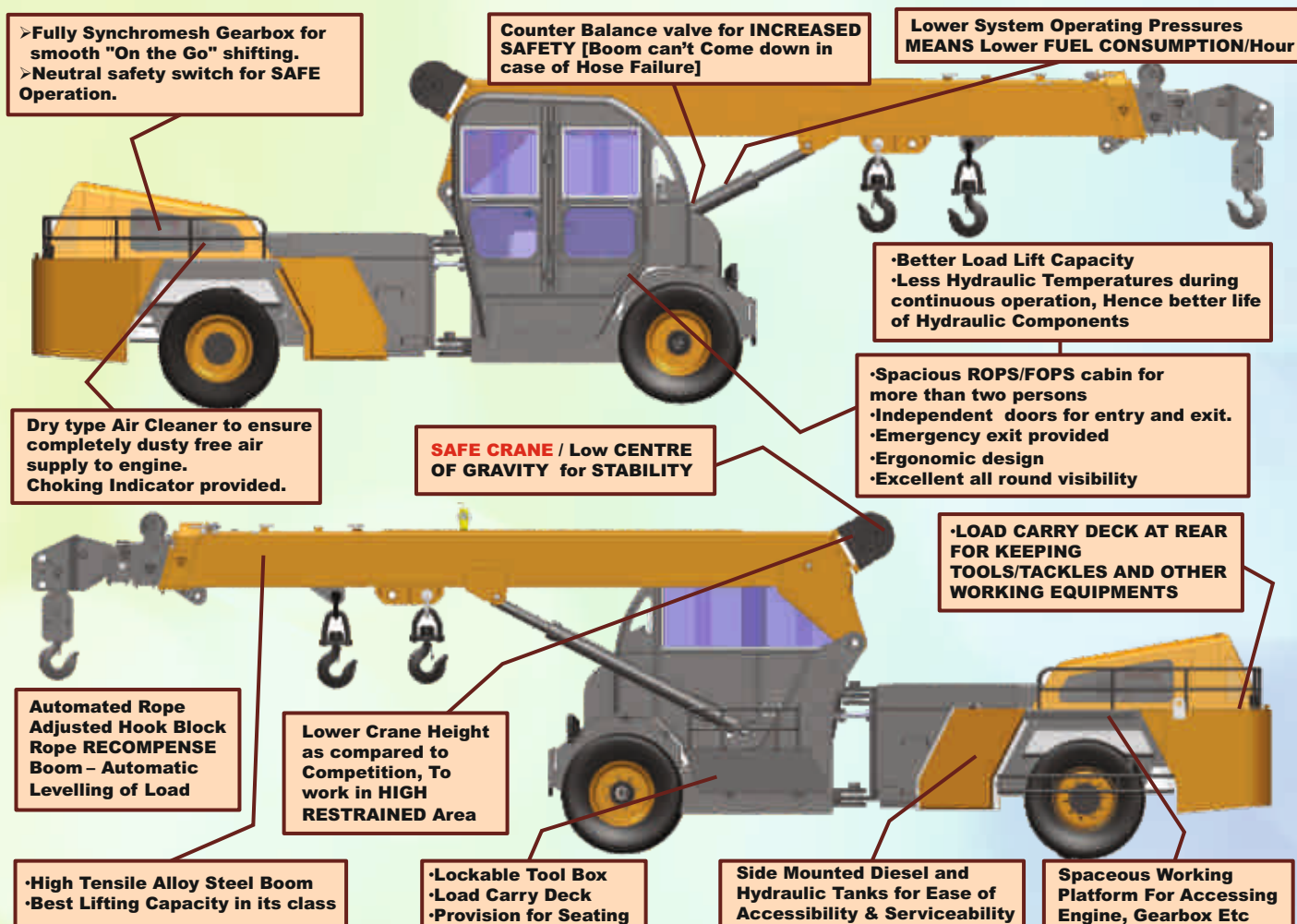


FT 17

LOAD STAR (17 TONNE)
Hydraulic Mobile Crane

- ✓ Maximum craning height and reach
- ✓ Lifts maximum load at larger radius
- ✓ Synchromesh gear box
- ✓ Smooth 'On the Go' gear shifting
- ✓ Best stability during craning / roading operation – low centre of gravity
- ✓ Best fuel economy
- ✓ Best safety features
- ✓ 'Fail Safe' fully pneumatic service & parking brakes

**The 21st Century
Articulated Crane**



RNG has two modern manufacturing facilities which are equipped with following facilities :

- | | | | |
|--|--|---|---|
| <ul style="list-style-type: none"> CNC vertical machining centre CNC turning centre SPM for mast machining Multi head drilling machines CNC press brake CNC shearing press 1200T and 300T hydraulic press | <ul style="list-style-type: none"> Inverter based synergic MIG/MAG welding machines Submerged Arc welding machines CNC plasma / Oxy-acetylene cutting machines Induction hardening machine Heat treatment plant | <ul style="list-style-type: none"> Coordinate measuring machine Spectrometer Universal testing machines Hardness tester - Brinell & Rockwell Impact testing machines Magnetic particle testing machines Ultrasonic testing machine | <ul style="list-style-type: none"> 7 tank surface treatment plant Air less shot ballasting machine with 8 ballasting head to short blast assembly size of 2700mm x 3000mm Modern paint shop with component paint baking facility |
|--|--|---|---|



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Dealer

The information contained in this leaflet is intended to be of a general nature only. RNG reserves the right to change/specifications without notice. All dimensions and weights are variable within ±5%.

May 2015 / FT17/Ver.001/1000

Future Technology / Forward Thinking

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FT 17 Load Star (17 Tonne) Specifications

ENGINE

- TATA 497NA, Four Cylinder, Water Cooled Diesel Engine meeting BS-III CEV emission norms
- Rated power 49Ps @ 2100 RPM.
- Max Torque 222 Nm @ 1200-1500 RPM
- Dry type Air Cleaner to ensure completely dust free air supply to the engine. Choking indicator provided

TRANSMISSION

- Fully Synchro Mesh Gearbox for smooth "On the Go" shifting.
- 10 forward, 2 reverse speeds with high and low selector lever. Neutral safety switch available.
- 2 Speed Constant Mesh Auxiliary Gearbox provided. Hi-Lo gear shifting is Pneumatic.
- Heavy duty Diaphragm type Hydraulic Clutch with Cerametallic liner provided
- Max Speed
 - 46 KMPH with 86 Ps engine.
 - 34KMPH with 49 Ps engine.

TYRES

- Front : 11.00x20 - 16 PR (4 nos)
- Rear : 11.00x20 - 16 PR (4 Nos)

HYDRAULICS

- Vane/Gear type hydraulic pump.
- 3 spool control valve with built in pressure relief valve for trouble free operation.
- 3 in 1 Hydraulic Filter top tank mounted having 25 micron Strainer
- Suction line has a 100 mesh inline strainer.

FLUID CAPACITIES

- Engine : 9 Liters
- Gearbox : 6.5 Liters
- Auxiliary Gearbox : 3 Liters
- Axle : 7.5-8 Liters
- Fuel Tank : 100 Liters
- Hydraulic tank : 125 Liters

OPERATIONAL TIMINGS

- (No Load, at rated engine RPM)
- Steering (lock to lock) : 6 sec.
 - Boom Raising : 27 sec.
 - Boom Lowering : 25 sec.
 - Telescoping Extension In : 10 sec.
 - Telescoping Extension Out : 12 sec.
 - Hoist Line Speed : 40 m/min

BRAKES

- Front Wheel - Pneumatically actuated 'S' cam FAIL SAFE Air Brakes
- Rear Wheel - Pneumatically actuated 'S' cam FAIL SAFE Air Brakes
- Parking Brake - Air operated spring actuated fail safe Parking Brakes like trucks & buses

BOOM

- Telescoping Three part, box type, hydraulically operated with one hydraulic cylinder & rope mechanism in 38 Feet & 44 Feet Boom Design (Std)
- Telescoping Four part, box type, 2 sections hydraulically operated with one hydraulic cylinder & rope mechanism and Fourth section semi powered in 54/58/62 Feet Boom (OPTIONAL)
- Derricking Through two double acting cylinders.
- 5 tonne lift capacity at 30 meters below ground level in case of short drum & 60 meter below ground level in case of longer drum

HOIST

- 2.5 tonne line pull hydraulic winch is provided with rope tensioner for uniform rope laying on drum
- Winch for shorter drum [70 meters wire rope] as well as with longer drum [100 meters wire rope] option is available
- 13mm dia anti twist steel core rope
- Lift Capacity 12 Tonne (with 6 Fall)
- 4 Fall is Standard, 6 Fall is Optional.

SAFETY ITEMS

- Overload Audio-Visual alarm
- Fail safe brakes on hoist
- Counter Balance Valve in 'LUFF' circuit for Hose failure protection
- Audio-Visual alarm against loss of pressure in pneumatic circuit for brakes
- Visual warning to indicate Parking Brakes are applied
- Neutral Safety Switch [M/c will not start in gear]
- Reverse Buzzer
- Heavy duty Front Bumpers
- Larger Rear view mirrors outside cabin for full rear visibility
- Audio Over hoisting alarm

- Self Adjusting Hook Block

STANDARD ACCESSORIES

- Fully enclosed, all weather wider & spacious cabin having all round excellent visibility
- Cabin has separate seating provision for operator & co-operator. Independent doors for entry and exist are provided.
- Tool Kit
- Front & Rear Lights
- Reflectors & Side Indicators
- Mobile Charger
- Engine RPM, Digital Hour meter, Oil pressure and water temperature gauge, Air Pressure gauge & Speedometer

STEERING

- Articulated power steering with steering wheel provided like car
- Steering is hydraulically controlled through two double acting hydraulic cylinders.
- Priority valve provided which ensures steering always gets hydraulic oil first.
- Emergency steering provision is available
- Articulation upto 40° either side.

ELECTRICALS

- 12V Single battery, 88 Amp-Hr
- Negative earth System.

TURNING RADIUS

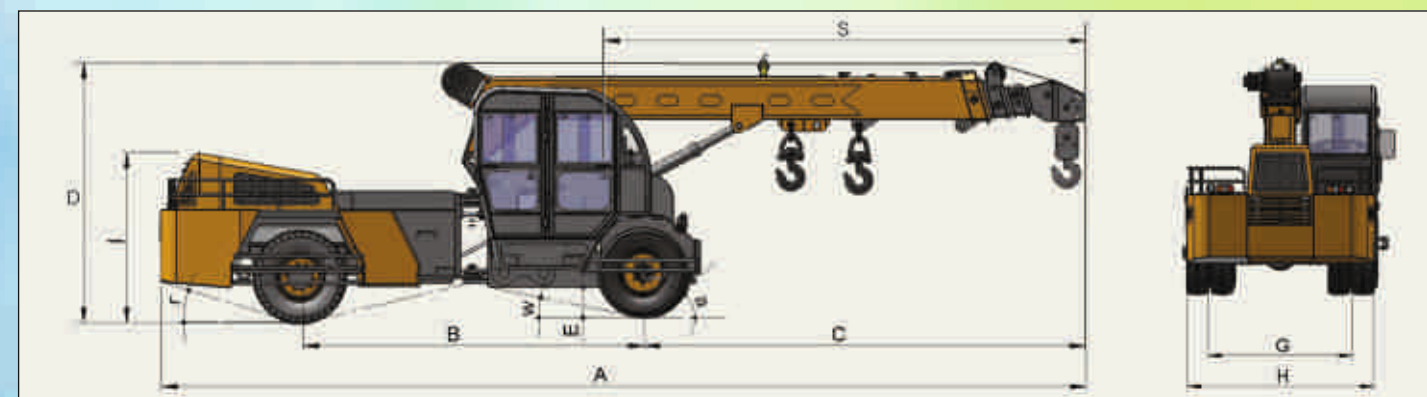
- 7.5 meters

OPERATING WEIGHT

- 16500 Kg (Unladen)

OPTIONAL ACCESSORIES

- Safe load indicator (SLI)
- Load Moment Indicator (LMI)
- Over Hoist hydraulic cut-off
- Fire extinguisher
- Beacon Light
- Rear View Camera with LCD Display
- Proximity sensor
- Drag Winch
- Front Outriggers
- Tyre Guard in Front & Rear
- Man basket, Rhino hook, Forks
- Flyjib 2.3meters OR 4.3 meters
- Emergency wind-off system
- TATA 497 TC IC water cooled diesel engine (BS-III CEV), rated power 86Ps @ 2200 RPM
- GPS based telematics monitoring system



Symbol	Parameter	Dimension (in mm)
A	Travel Order Length	10810
B	Wheel Base	4100
C	Overhang	5165
D	Overall Height	3000
E	Min. Ground Clearance	380
G	Front & Rear Track	1850
H	Overall Width	2500

Symbol	Parameter	Dimension (in mm)
I	Height of Bonnet	1890
S	Steering Wheel Centre from Boom Front End	5300
a°	Angle of Approach	42 Deg.
r°	Angle of Repose	22 Deg.
w°	Angle at Centre	12 Deg.

