

ACE F230

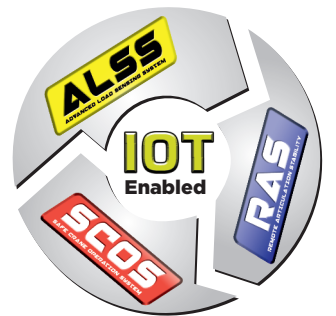
Nextgen Hydraulic Crane Capacity : 23 Tonnes

Rough terrain and rugged, 4x4 articulated NextGen Pick 'n' Carry crane

ACE INDIA'S NO. 1
CRANE BRAND

CEV 
STAGE

100%
Swadeshi 



Specifications

F-230

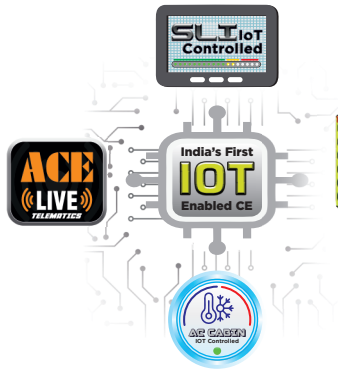
LIFTING CAPACITY ENGINE	23 Tonnes Tata (CEV V) Diesel Engine Model 497, 4 cylinder, Water Cooled, Turbo Charged Engine with Electronic Control Unit (ECU)
Rated Power	101 HP (74 kW) at 2200 RPM
TRANSMISSION	Heavy Duty Synchromesh Gearbox with 12 Forward and 2 reverse speeds. Auxiliary Gear Box with 2WD/4WD selector for High and Low speeds.
Axles	Front axle is rigidly mounted on the chassis. Rear drive axle is mounted with 2 nos. Leaf springs.
Drive	4 Wheel drive (4x4)
Clutch	Heavy duty, single, dry friction type pneumatic assisted hydraulic clutch.
Creep Speed	1.3 KMPH
Top Speed	37 KMPH on even metalled Road (without load)
Gradeability	40 % (unladen)
BRAKES	<ul style="list-style-type: none"> • Dual Circuit Brakes • Fully Pneumatic brakes on front and rear wheels. • Parking brake is pneumatically operated, fail safe type
STEERING	Full power orbitrol with twin hydraulic double acting cylinders and 40° articulation on either side
Turning Radius	8.15 Mtrs. on outer rear wheels.
HYDRAULIC SYSTEM	<ul style="list-style-type: none"> • Gear/Intra Vane type main pump • Five spools control valve with built in Relief Valve (Heavy duty) • Suction line has 100 mesh size strainer while return line is fitted with 25 micron filter. • Two double acting lift cylinders, two double acting steering cylinders and one double acting extension cylinder.
TELESCOPIC BOOM	4 part slotted boom, 2 part hydraulically operated & synchronized and 4th part power extended
HOIST	4 Tonnes Line Pull Winch is driven by hydraulic motor and fitted with rope tensioner. Hoisting is provided through self adjusting hook block employing 6 falls of 13mm dia. Rope.
Hoist Speed	35 Mtrs./Min (Line Speed)
ELECTRICAL SYSTEM	12v, Negative Earth (110 AH Battery)

TYRES	
Front	12.00x24-18 PR (4 NOS.)
Rear	12.00x24-18 PR (4 NOS.)
Wheel Base	4900 mm
Wheel Track	1880 mm
SAFETY	<ul style="list-style-type: none"> • Hose failure protection • Audio over hoisting Indication • Safety brakes on hoist • Self-adjusting hook block • Front and rear wheel guards
STANDARD EQUIPMENT	<ul style="list-style-type: none"> • Front work lights • Reflectors and rear view mirror • Tool kit • Cabin fan • Wiper motor • Digital Cluster with display indications for : <ul style="list-style-type: none"> a) Fuel Level b) Low Fuel c) Engine Oil Pressure d) Air Pressure e) Low Air Pressure f) Parking Brake g) Coolant Temperature h) Engine RPM i) Engine Hour Recorder j) Speedo Meter k) Odometer l) Urea Level m) Water in Fuel n) Battery Charging o) Neutral Position Safe Start p) 2W/4WD Drive q) Regeneration r) Fault Detector Codes (P Code) • Rear view Camera • Front Outriggers • Beacon Rotating Light • Regeneration Switch
OPTIONAL EQUIPMENT	<ul style="list-style-type: none"> • Air Conditioned (AC) cabin • SLI - Safe Load Indicator • Fly jib (1.25 Tonnes Max. Capacity) • Over Hoist hydraulic cutoff • Fire extinguisher • Cabin Front Glass Protector • Helper / Slinger Seat • Drag Winch • Front & Side Proximity Sensors • Man Basket Attachment • ALSS, SCOS and RAS features for Safe Crane Operations. • ACE Live (Telematics) : IOT Device for Monitoring, Diagnosis and Remote Trouble Shooting. • IOT Controlled SLI. • IOT Controlled AC.
OPERATING WEIGHT	20340 Kgs.

ULTRA
Features

ACE

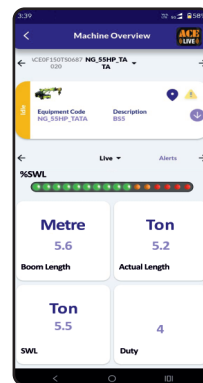
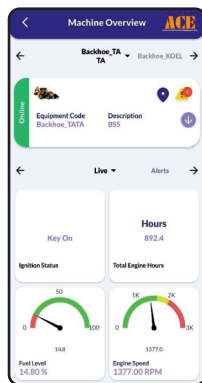
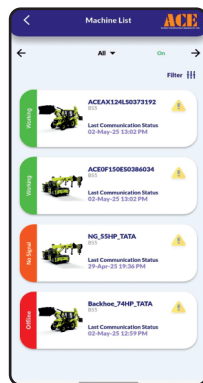
4x4



ACE LIVE : TELEMATICS

Smart connected machines with IOT Device for Live Monitoring and Diagnosis of various parameters and Remote Trouble Shooting

ULTRA



AC CABIN

IOT controlled Air Conditioned Cabin for Operator comfort

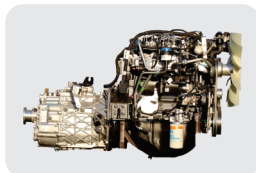
ULTRA



ALSS

ULTRA

Advanced Load Sensing System ensures low speed 4WD mode during movement with loads (1000 kgs Plus)



ENGINE

Tata Model 497 (CEV V) Diesel Engine with nation wide service support and spares availability



ACE LIVE : SLI

IOT connected and controlled SLI for safe load / operation monitoring and control, providing improved safety and working at sites

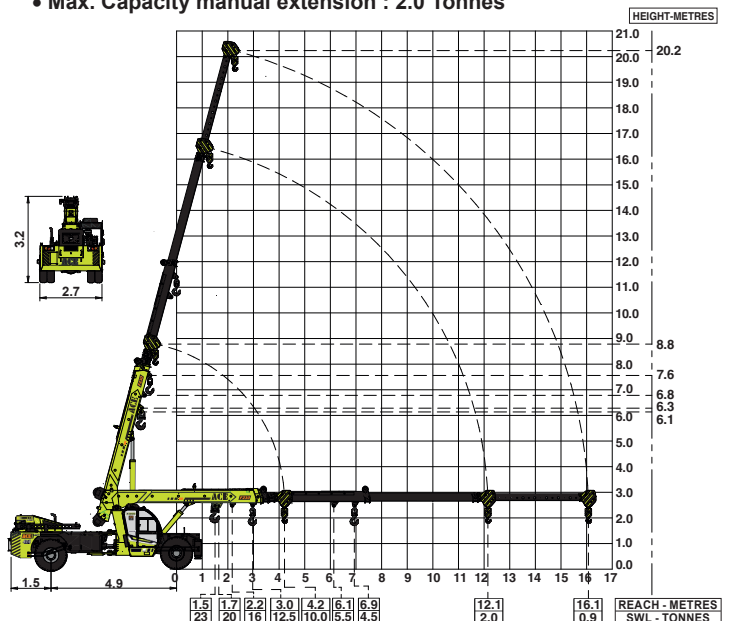
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OPTIMIZED KINEMATICS AND LOW C.G.

F 230 crane has been designed for operational safety with low Center of Gravity (C.G.) providing best in class stability

ACE F230 Model Crane fitted with 3 part slotted boom + 1 Manual (20.2 mtrs. height)

- Max. Capacity Fly jib : 1.25 Tonnes
- Max. Capacity manual extension : 2.0 Tonnes



NOTE - SWL are based on 85% stability & strength.
- Rated loads are on the basis of operation on firm and level surface.
- Full rated lifting capacity available in articulated / steered condition.

SCOS

ULTRA

Safe Crane Operation System is a Fail Safe System which ensures that the machine is not overloaded and only safe functions are permitted, minimizing operator fault.



ELECTRONIC CLUSTER

Digital Electronic Cluster with advanced features.

RAS

ULTRA

Remote Articulation Stability ensures safe operations during articulation including movement with loads.



STEERING WHEEL & CONTROLS

Ergonomically placed operator console and instrument cluster ensures ease of operation.

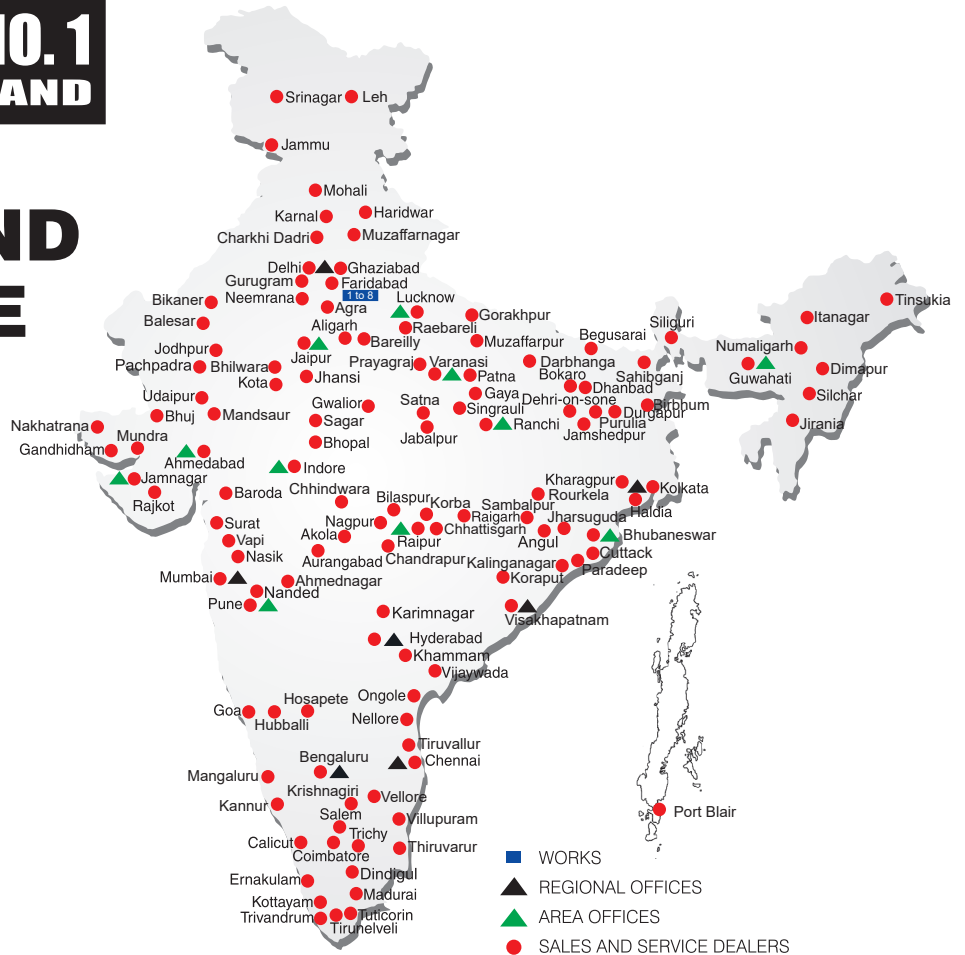
BUILT TO PERFORM



NETWORK



**RELIABLE AND
DEPENDABLE
EFFICIENCY**



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ACE reserves the right to alter any specifications without prior notice. Dimensions, weights & capacities mentioned herein are variable by $\pm 5\%$. Accessories if shown are not part of the Standard Equipment.