

Specifications F-230

ENGINE  Whose Extent (CEV Stage N) Deset Engine Model Estads CRD14, 4 priviled. Water Cooled, Turbo Changed Engine with Electronic Control Unit (ECU)  Rated Power  101 HP at 2200 RPM  TRANSMISSION  Heavy Duty Synchromesh with 10 Forward and 2 reverse speeds. Auxiliary Gear Box with 2704-Was selector.  Avides  Front and is rigidily mounted on the chassis. Read rivine add is mounted with 2 nos. Leaf springs.  Drive  1 10 A Wheel drive.  Clutch  Heavy duty, single, dry friction type hydraulic double acting polymoras and 40° anticulation on either side  Turning Radius  8 15 Mirs. on outer rear wheels.  Parato vineeds.  Parato vineeds.  Parato power orditrol with twin hydraulic double acting polymoras and 40° anticulation on either side  Parato power orditrol with twin hydraulic double acting polymoras and 40° anticulation on either side  Parato power orditrol with twin hydraulic double acting polymoras and 40° anticulation on either side  Parato power orditrol with twin hydraulic double acting polymoras and 40° anticulation on either side  Parato power orditrol with twin hydraulic double acting polymoras and 40° anticulation on either side  Parato provide formum line is fitted with 25 micron filter.  Parator wheels.  Parator vineeds.  Par				
TRANSMISSION  Heavy Duty Synchromesh with 10 Forward and 2 reverse speeds. Auxiliary Gaer Box with 27MCMV/D selector.  Axles  Front and 2 reverse speeds. Auxiliary Gaer Box with 27MCMV/D selector.  Front and is a rigidly mounted on the chasels. Pear drive axie is mounted with 2 nos. Leaf springs.  Drive  4 Wheel drive.  Citutch  Heavy duty, single, dry friction type hydraulic clutch.  Creep Speed  1.3 KMPH  Top Speed  37 KMPH on even metaled Road (without load)  Gradeability  40 % (unladen)  STEERING  Full power orbitrol with twin hydraulic double acting cylinders and 40° articulation on eithers side  Turning Radius  8.15 Mirs. on outer rear wheels.  Parking brake is pneumatically operated, fail safe type  File spools control valve with built in Relief Valve (Heavy duty)  STEERING  File spools control valve with built in Relief Valve (Heavy duty)  System  File 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 filer.  Trund double acting stering cylinders and one double acting		Volvo Eicher (CEV Stage IV) Diesel Engine Model E483 CRDi, 4 cylinder, Water Cooled, Turbo Charged Engine with		hydraulic motor and fitted with rope tensioner. Hoisting is provided through self adjusting hook block employing 6 falls of 13mm dia. Rope.
Axides Auxiliary Gear Box with ZWD/4WD selector.  Axides Front axide is rigidly mounted on the chassis. Rear drive axide is mounted with 2 nos. Leaf springs.  Drive 4 Wheel drive.  Clutch Heavy duty, single, dry friction type typitratic dutch.  Creep Speed 1.3 KMPH  Top Speed 37 KMPH on even metaled Road (without load)  Gradeability 40 % (unladen)  STEERING Full power orbitrol with twin hydraulic double acting oylinders and 40° articulation on either side  Turning Radius 8.15 Mrs. on outer rear wheels.  BRAKES C Dual Circuit Brakes  Final pressure gauge  C) Dit pressu	Rated Power	101 HP at 2200 RPM		12v, Negative Earth (100 AH Battery)
chassis. Rear drive axle is mounted with 2 nos. Leaf springs.  Drive 4 Wheel drive.  Clutch Heavy duty, single, dry friction type hydraulic clutch.  Creep Speed 1.3 KMPH  Top Speed 37 KMPH on even metaled Road (without load)  Gradeability 40 % (unladen)  STEERING Full power orbitrol with twin hydraulic double acting cylinders and 40° articulation on either side  Turning Radius 8.15 Mirs. on outer rear wheels.  BRAKES Dual Circuit Brakes  Parking brake is pneumatically operated, fail safe type  Parking brake is pneumatically operated, fail safe type  Five spools control valve with built in Relief Valve (Heavy duty)  System  Pypraulic System  Gear/Intra Vane type main pump  System  Full power orbitrol 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 steering cylinders, we double acting steering cylinders and one double acting steering cylinders and one double acting steering cylinders and one double acting steering cylinders. We double acting steering cylinders and one double acting activenoized and 4th part  PELESCOPIC  A part stated boom, 2 part hydraulically operated & synchronized and 4th part  PERMONE SAFETY  SAFETY  SAMPH On ever hoisting indication SAFETY  SAFETY  SABODAM  Front and rear wheels.  STANDARD  FRONDAR  FRONDARD  FRONDAR  SPOR fully penciosed wide view cabin effort work mirror  Front Autienting hock sign and rar view mirror		10 Forward and 2 reverse speeds. Auxiliary Gear Box with 2WD/4WD selector.	Front Rear Wheel Base	12.00x24-18 PR (4 NOS.) 4900 mm
Drive 4 Wheel drive.  Clutch Heavy duty, single, dry friction type hydraulic clutch.  Creep Speed 1.3 KMPH  Top Speed 37 KMPH on even metaled Road (without load)  Gradeability 40 % (unladen)  STEERING Full power orbitrol with twin hydraulic double acting cylinders and 40° articulation on either side  Turning Radius 8.15 Mrs. on outer rear wheels.  BRAKES Dual Circuit Brakes  Full preumatic brakes on front and rear wheels.  Parking brake is pneumatically operated, fail safe type  Five spools control valve with built in Relief Valve (Heavy duty)  SYSTEM  Five spools control valve with built in Relief Valve (Heavy duty)  Suction line has 100 mehs size strainer while return line is fitted with 25 micron filter.  Trow double acting its return line is fitted with 25 micron filter.  Five spools control valve with one double acting steering cylinders, two double acting steering cylinders and one double acting steering cylinders and one double acting steering cylinders.  FILESCOPIC  A part slotted boom, 2 part hydraulically operated & synchronized and 4th part operated & synchronized and 4th part  OPERATING  STANDARD  EQUIPMENT  STANDARD  EQUIPMENT  Finot Quilogade  Front vork lights  Reflectors and rear view mirror  Finot leave (Leave and 4th part  A Where motor  Finot permotor  Finot Quilogers  Park and tachment  Finot Quilogers  Park and tachment  Finot Quilogers  Fi				
Clutch Heavy duty, single, dry friction type hydraulic clutch.  Creep Speed 1.3 KMPH Top Speed 37 KMPH on even metaled Read (without load) Gradeability 40 % (unladen)  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.  BRAKES Parking brake is pneumatic brakes on front and rear wheels.  Parking brake is pneumatically operated, fail safe type  PYDRAULC SYSTEM  PYDRAULC SYSTEM  Caparintra 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.  TELESCOPIC 4 part slotted boom, 2 part hydraulically operated & synchronized and 4m part  DOM  PERATING  STANDARD ENDERS Front work lights Reflectors and rear view division in Front work lights Reflectors and rear view mirror Fortout wit lights Reflectors and rear view mirror Fortout work lights Reflectors and rear view mirror Fortout work lights Reflectors and rear view mirror Fortoutok lights Reflectors and rear view mirror Fortout with part Fortout work lights Reflectors and rear view mirror Fortout with part Fortout of Instrument Cluster: Fort Aller or instrument Cluster: Fort All	Drive	. 0	SAFETY	<ul> <li>Audio over hoisting Indication</li> </ul>
Top Speed 37 KMPH on even metaled Road (without load)  Gradeability 40 % (unladen)  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.  BRAKES Pual Circuit Brakes  Fully Pneumatic brakes on front and rear wheels.  Parking brake is pneumatically operated, fall safe type  Five spools control valve with built in Relief Valve (Heavy duty)  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 exteering cylinders and one double acting exteension cylinder.  TELESCOPIC BOOM  STANDARD EROUIPMENT  STANDARD  Foul vew (lights  Front work lights  Cabin fan  Wyper motor  Instrument Cluster:  a) Fuel level gauge  c) Oil pressure gauge  d) Coolant temp  e) Engine RbM  f) Speedometer  g) Odo meter  h) Engline Hour Recorder  h) Engline Hour Recorde	Clutch			<ul> <li>Self-adjusting hook block</li> </ul>
Gradeability  Gradeability  40 % (unladen)  Full power orbitrol with twin hydraulic double acting cylinders and 40° articulation on either side  Turning Radius  8.15 Mtrs. on outer rear wheels.  BRAKES  Dual Circuit Brakes  Fully Pneumatic brakes on front and rear wheels.  Parking brake is pneumatically operated, fail safe type  Fyora poerated, fail safe type  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 isteering cylinders and one double acting extension cylinder.  TELESCOPIC BOOM  Tarrison Radius  Front work lights  Reflectors and rear view mirror  Tool kit  Cabin fan  Wiper motor  Instrument Cluster:  a) Fuel level gauge  b) Air pressure gauge  c) Colant temp  e) Engine RPM  f) Speedometer  g) Odo meter  h) Engine Hour Recorder  h) Engine Hour	Creep Speed	1.3 KMPH		DODG fully analysis of vide view salein
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.  BRAKES  Dual Circuit Brakes  Fully Pneumatic brakes on front and rear wheels.  Parking brake is pneumatically operated, fail safe type  Five spools control valve with built in Relief Valve (Heavy duty)  System  Five spools control filter.  Suction line has 100 mesh size strainer while return line is fitted with 25 micron filter.  Two double acting steering cylinders and one double acting steering cylinders and one double acting extension cylinder.  TELESCOPIC BOOM  Parking of the twin hydraulic with twin hydraulic double acting steering cylinders and one double acting extension cylinder.  Full power orbitrol with twin hydraulic advo at 4 part slotted boom, 2 part hydraulically operated & synchronized and 4th part person with a company to the proper orbitrol with 25 micron form.  Full Develoration on either side of history and 40° and	Top Speed			<ul> <li>Front work lights</li> </ul>
Full power orbitrol with twin hydraulic double acting cylinders and 40° articulation on either side  Turning Radius  8.15 Mtrs. on outer rear wheels.  BRAKES  Dual Circuit Brakes  Fully Pneumatic brakes on front and rear whoels.  Parking brake is pneumatically operated, fail safe type  Parking brake is pneumatically operated, fail safe type  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.  Telescopic  Telescopic  A part slotted boom, 2 part hydraulically operated & synchronized and 4th part revere readed.  Park slotted boom, 2 part hydraulically operated & synchronized and 4th part revere readed.  Park level gauge  b. Air pressure gauge  c) Oil pressure gauge  c) Oil pressure gauge  d) Coolant temp  e) Engine RPM  f) Speedometer  g) Odo meter  h) Engine Hour Recorder  l) Fault Detector Codes (P-Codes)  Rear view camera  Front Outriggers  Beacon Rotating Light  OPTIONAL  EQUIPMENT  Fly jib (1.25 Tonnes Max. Capacity)  Safe load indicator/ LMI  Over Hoist hydraulic cutoff  Fire extinguisher  Cabin Front Class Protector  Helper / Slinger Seat  Drag Winch  Spark arrestor  3 part slotted boom (11.5 mtrs height)  Front & Side Proximity Sensor  Man Basket Attachment  Fork Attachment  Fork Attachment  Ram Attachment	Gradeability	40 % (unladen)		<ul><li>Tool kit</li><li>Cabin fan</li></ul>
BRAKES  Dual Circuit Brakes  Fully Pneumatic brakes on front and rear wheels.  Parking brake is pneumatically operated, fail safe type  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.  Towodouble acting steering cylinders, two double acting steering cylinders and one double acting extension cylinder.  Description  Deferating  d) Coolant temp  e) Engine RPM  f) Speedometer  g) Odo meter h) Engine Hour Recorder l) Fault Detector Codes (P-Codes) e Rear view camera Front Outriggers Beacon Rotating Light  Fly jib (1.25 Tonnes Max. Capacity) e Safe load indicator/ LMI e Over Hoist hydraulic cutoff Fire extinguisher c Cabin Front Glass Protector Helper / Slinger Seat Drag Winch Spark arrestor 3 part slotted boom (11.5 mtrs height) Front & Side Proximity Sensor Man Basket Attachment Fork Attachment Fork Attachment Ram Attachment  Person RPM  f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM f) Speedometer g) Odo meter h) Engine RPM for Outer Action Codes for	STEERING	double acting cylinders and 40°		<ul><li>Instrument Cluster :-</li><li>a) Fuel level gauge</li><li>b) Air pressure gauge</li></ul>
### BRAKES    Dual Circuit Brakes	Turning Radius	8.15 Mtrs. on outer rear wheels.		d) Coolant temp
HYDRAULIC SYSTEM  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  Pront Outriggers Beacon Rotating Light  Fly jib (1.25 Tonnes Max. Capacity) Safe load indicator/ LMI Over Hoist hydraulic cutoff Fire extinguisher Cabin Front Glass Protector Helper / Slinger Seat Drag Winch Spark arrestor 3 part slotted boom (11.5 mtrs height) Front & Side Proximity Sensor Man Basket Attachment Fork Attachment Ram Attachment Ram Attachment  OPERATING	BRAKES	<ul> <li>Fully Pneumatic brakes on front and rear wheels.</li> </ul>		g) Odo meter h) Engine Hour Recorder l) Fault Detector Codes (P-Codes)
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  Prive spools control valve with built in Relief Valve (Heavy duty)  Safe load indicator/ LMI  Over Hoist hydraulic cutoff  Fire extinguisher  Cabin Front Glass Protector  Helper / Slinger Seat  Drag Winch  Spark arrestor  3 part slotted boom (11.5 mtrs height)  Front & Side Proximity Sensor  Man Basket Attachment  Fork Attachment  Poperated & synchronized and 4th part		, ,		
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  Five extinguisher  Cabin Front Glass Protector  Helper / Slinger Seat  Drag Winch  Spark arrestor  3 part slotted boom (11.5 mtrs height)  Front & Side Proximity Sensor  Man Basket Attachment  Fork Attachment  Ram Attachment  POPERATING  OPERATING		Gear/Intra Vane type main pump		
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 4 part slotted boom, 2 part hydraulically operated & synchronized and 4th part power extended.  OPERATING  Helper / Slinger Seat  Drag Winch  Spark arrestor  3 part slotted boom (11.5 mtrs height)  Front & Side Proximity Sensor  Man Basket Attachment  Fork Attachment  Ram Attachment	0.012			<ul> <li>Fire extinguisher</li> </ul>
TELESCOPIC 4 part slotted boom, 2 part hydraulically operated & synchronized and 4th part OPERATING 20340 Kgs		strainer while return line is fitted with 25 micron filter.  Two double acting lift cylinders, two double acting steering cylinders and		<ul> <li>Helper / Slinger Seat</li> <li>Drag Winch</li> <li>Spark arrestor</li> <li>3 part slotted boom (11.5 mtrs height)</li> <li>Front &amp; Side Proximity Sensor</li> <li>Man Basket Attachment</li> </ul>
		operated & synchronized and 4th part		





**ENGINE** Volvo Eicher (CEV Stage IV) CRDi Diesel Èngine Model É483 with nation wide service support and



STEERING WHEEL & CONROLS

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



**ECU** Electronic control unit for better fuel economy and diagnostic trouble shooting



**GROUND CLEARANCE** Ground clearance of 300mm for easier rough terrain operation.



**OUTRIGGERS** Front Outriggers for added safety during high lift

operations



**ELECTRONIC CLUSTER** Digital Electronic Cluster with advanced features.



**OPTIMIZED KINEMATICS** AND LOW C.G.

F230 crane has been designed for operational safety with low Center of Gravity (C.G.) providing best in class . stability



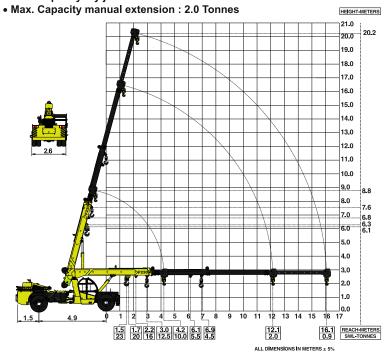
**ROPS CABIN** Front mounted, ergonomically designed Cabin for better visibility and driveability.



After treatment system for Emission Control

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

• Max. Capacity Fly jib: 1.25 Tonnes



NOTE: • Rated loads are on the basis of operation on firm and level surface.
• Full rated lifting capacity available in articulated / steered condition.

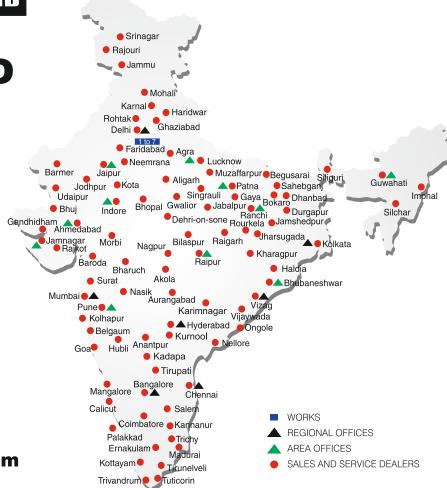
# **BUILT TO PERFORM**





## NETWORK

## RELIABLE AND DEPENDABLE **EFFICIENCY**





#### MARKETING H.O.

4th Floor, Pinnacle Surajkund, NCR-121009 Ph.: +91-129-4550000 Fax: +91-129-4550022

E-mail: marketing@ace-cranes.com

#### **REGISTERED OFFICE**

Dudhola Link Road, Dudhola Palwal-121102, Haryana Ph.: +91-1275-280111 Fax: +91-1275-280133 CIN: L74899HR1995PLC053860

#### **MUMBAI OFFICE**

31, "Kalpataru Court" Chembur, Mumbai - 400074 Ph.: +91-22-25206846, 25207070 Fax: +91-22-25207071 E-mail: acemumbai@ace-cranes.com

#### **KOLKATA OFFICE**

"Forma Towers" 84-A, Second Floor AJC Bose Road, Kolkata - 700014 Ph.: +91-9038070630 E-mail: acekolkata@ace-cranes.com

### **CHENNAI OFFICE**

1st Floor, "Alsa Regency", 165 Eldams Road, Alwar Pet Chennai - 600018 Ph.: +91-44-24314253 Fax: +91-44-24314252

E-mail: acechennai@ace-cranes.com

### HERE TO SERVE YOU.

#### SPARE PARTS & SERVICE

ACE has all India Sales and Service network operating out of all the major cities. These outlets are fully equipped to provide genuine spare parts and services by company trained engineers. These outlets are further supported by company officials based at Delhi, Mumbai, Chennai, Kolkata, Ahmedabad, Surat, Pune, Jaipur, Chandigarh, Ranchi, Raipur, Indore, Bhubaneswar, Lucknow, Jamnagar, Hyderabad, Bangalore, Guwahati, Patna, Vizag & Kochi.



**Action Construction Equipment Ltd.** 

Contact:

