



Escorts Kubota Limited

Construction Equipment

**LIFT WITH POWER
MOVE WITH PRECISION**

F23



Capacity
23 t
High Performance



Axle
40 t
High Performance



Boom Height
22.3 (With Fly Jib)
High Performance



Hoist
15 t
High Performance



Service Interval
(Engine) 500 Hrs
Low Maintenance



Max Speed
40 km/h
High Performance



Creep Speed
1.3 km/h
Performance & Safety

**CEV
STAGE V**

About Us

Experience. Engineering. Excellence.

Escorts Kubota Limited is committed to building a lasting legacy through a transformative mission of global excellence. We lead in farm mechanization, smart agriculture, advanced construction equipment solution. Dedicated to a brighter future for our customers, nation, and the world, we focus on continuous innovation and value creation.

Our Belief

At Escorts Kubota Limited our journey is deeply connected to the aspirations of our stakeholders, focusing on building a sustainable ecosystem founded on transparency, trust, and respect. We deliver exceptional product quality and innovation for customers, nurture employee growth, and contribute positively to the communities we serve.

Our Journey

1944



Escorts was founded

1971



Escorts pioneered the first HYDRA crane in India

1985



Rough Terrain - RT30 & RT40 were introduced

1999



Pioneered High-End crane model K10 was introduced

2002



High-End crane model F15 was introduced, which become our flagship model

2009



Design & developed M1000 crane Loader

2014



Launched F15 2WD affordable High-End crane

2015-16



Launched High-End crane F20

2018



Launched new models - Hydra 13/15, TRX15/2319, High-End F17 & NXT13

2025



Launched the entire CEV Stage V range & resetting industry with all new Hydra 12

Explore Our Range



HYDRA CRANES	HIGH END CRANES	MINI EXCAVATORS	BACKHOE LOADERS	TANDEM COMPACTORS	SOIL COMPACTORS	ROUGH TERRAIN CRANES
12 t - 15 t	14 t - 30 t	1.8 t - 4.9 t	7.8 t	3.3 t - 9.4 t	10 t - 12 t	20 t - 40 t
9.6 m (27 ft) - 19 m (65 ft)	18.2 m (60 ft) - 20.1 m (66 ft)	12 kW (16.1 HP) - 28.8 kW (38.6 HP)	54.5 kW (74 HP)	33.5 kW (45 HP) - 54.5 kW (74 HP)	82 kW (110 HP)	23 m (75 ft) - 36 m (118 ft)

F23

A 23 t High-End Crane with 4 section 20.1 m boom height. Key components come from reliable and trusted brands. Operator comfort with safety is provided by new cabin design with better visibility.

 Superior Lifting Capacity 23 t

 Operator's Cabin
Ergonomically Designed Cabin with Safety & Comfort

 VECV Engine & Transmission, TATA Axles



 Unmatched Durability & Strength
Built with a rugged chassis and high-strength materials, ensuring longevity and reliability in demanding work environments.

 Enhanced Visibility for Maximum Control
Thoughtfully designed operator cabin with a wide field of vision for precision handling and improved safety.

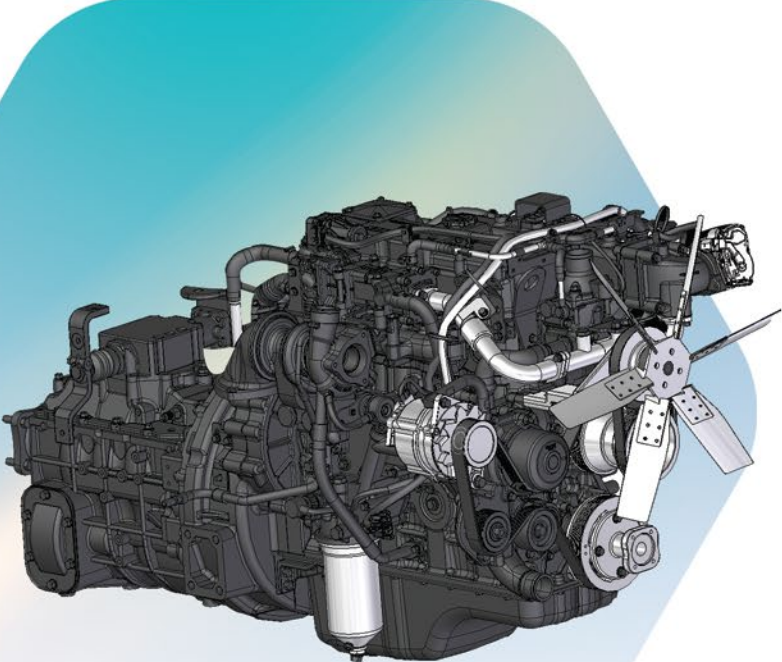
 Power-Packed Performance
Powerful and reliable fuel efficient VECV Engine & Transmission and Heavy duty TATA Axle.

 Ultimate Safety & Stability
Equipped with reinforced structure and fail safe braking system with additional operating weight for secure operation

 Superior Operator Comfort
Spacious and ergonomically designed operator cabin with easy controls for fatigue-free operation.

 No. 1 Choice in High-End Crane
Proven track record of reliability and efficiency, making it the top choice for material handling and construction applications.

Unmatched Performance



74 kW (101 HP) Volvo Eicher CEV Stage V Engine

VECV E494, CEV Stage V, diesel engine, high pressure common rail system (HPCR) technology, turbo charged, water cooled, ECU for engine management system, developing 74 kW/ 101 HP @ 2 200 RPM



DOC + DPF + SCR



Service interval



HPCR System

High Pressure Common Rail System(HPCR) provides cleaner exhaust, delivers more horsepower and fuel efficiency per displacement



10F + 2R Speed Synchromesh Transmission

Engine is coupled with VECV Synchromesh transmission gear box and auxiliary gear box with high/low & 2WD/4WD mode selector.



40 t capacity TATA Heavy Duty Front Axle

Heavy-duty rigidly mounted hub reduction drive axle for heavy load application



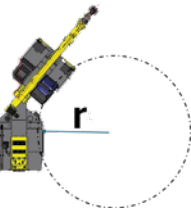
ECU EMS

Electronic Control Unit for Engine Management System for engine diagnosis and troubleshoot



High performance Clutch

Cerametallic clutch for smooth power transmission, better service life and low maintenance cost.



Shorter Turning Radius of 8.25 m

Better maneuverability in tight space and difficult working sites



Faster Travel, Steady Loading

- 40km/h Top Speed, fastest in the Industry Approved by ARAI
- 1.3 km/h Creep speed, Better control of load while working



6 Falls, 15 t Hoist Winch with Auto Leveling Hook Block

Provide precision handling & auto leveling of hook block during boom extension and retraction

Load chart F23

	Ⓐ						
RADIUS (M)	BOOM LENGTH(L) IN METERS MANUAL EXTENSION RETRACTED					MANUAL EXT. EXTENDED	FLY JIB
	6.4	8	10	12	13.85	17.75	
1.5	15000						
2	15000	11200	11000				
3	12500	10500	9600	7300			
4	10000	8900	7200	6200	5500	1850	
5		6800	6350	5600	4800	2000	1000
6			5500	4700	4300		
7			5000	3900	3800		
8				3500	3100	1500	
9				2700	2500		
10					2400		
11					2200		
12					2100		
13					1900		
							500
15						1200	
16						1000	
17						900	
18							
19							

- Rated Loads are calculated for operation on levelled surface.
- Rated Load lifting capacity in full articulation condition.
- S.W.L based on 85% stability & strength as per IS: 4573.
- Travel speed with rated load not to exceed 2 KMPH. Auxiliary Gear Box (AGB) shall be set to 4WD mode (Low).
- Use Outrigger for erection work.
- Use 6 Falls rope while Manual Extension "IN" &Use 4 Falls rope while Manual Extension "OUT".
- Area enclosed by red double line denotes structural limitations.

HEAVY DUTY AXLE

40 Ton capacity Front axle for heavy load applications



*Image for reference purpose only

RADIUS (M)	B		
	SLIDING LUG-FIRST EXTENSION (MANUAL EXTN. RETRACTED)		
	5.6	8	10
1.5			
2			
3	12500	11000	10200
4		9000	7800
5		7000	6600
6			5500
7			5000

23T, 20T, 17T	
BOOM FULLY RETRACTED	
RADIUS (M)	S.W.L (KG)
1.5	23000
1.8	20000
2.1	17000

23T SAFE CRANE

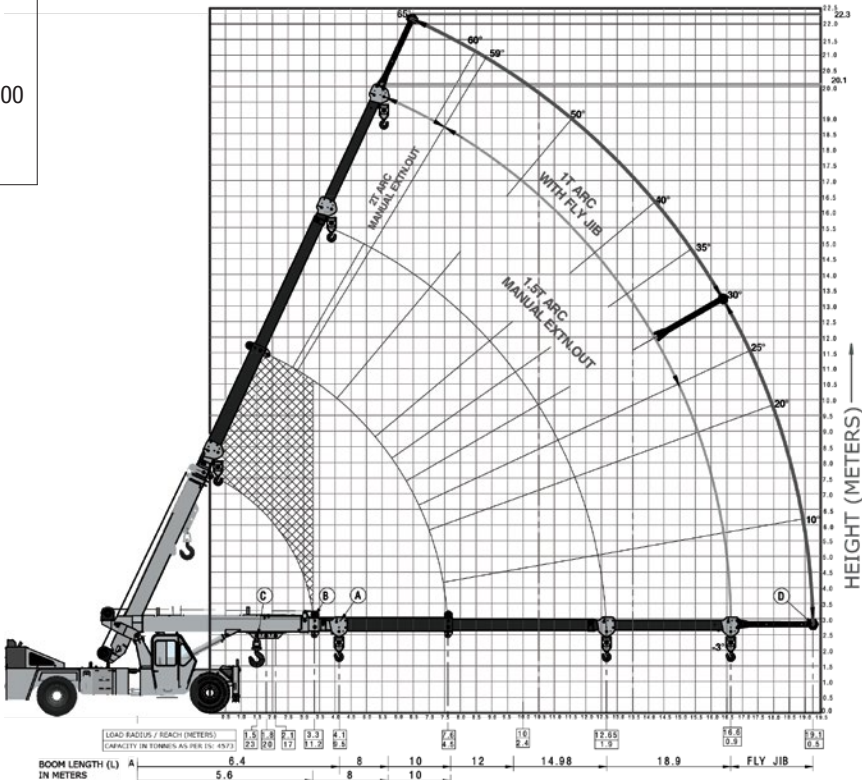
4P BOOM, 20.1 mtrs.

FRONT/REAR TYRE (DUAL)

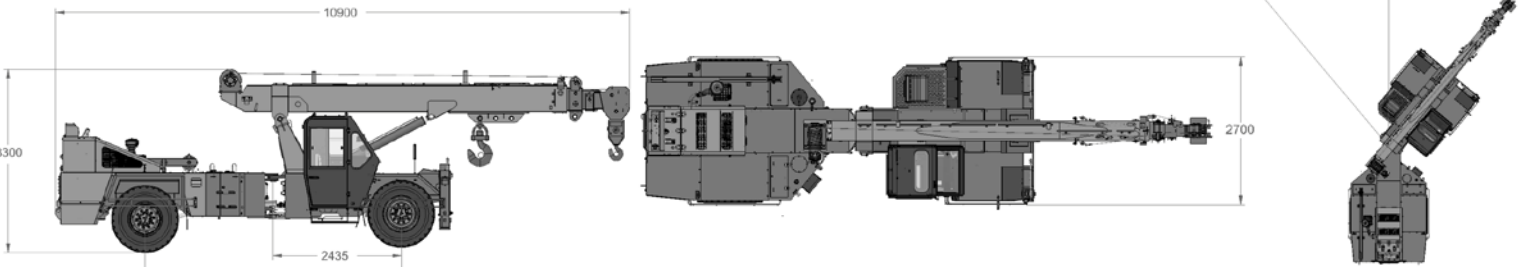
TYRE SIZE: 12X24-20PR

AIR PRESSURE - 120 PSI MAX.

S.W.L in Kgs, Length & Radius in Meters



F23 – Dimensions (Ref.) & Area Of Operation



NOTE:- Technical modification reserved. All dimensions, Speeds & weights are variable within ± 5% over indicated values.

Unmatched Comfort



Digital Display
Bright and easy-to-read, Single digital cluster with all gauges, fault code detection for engine system. Regeneration text pop-up flashed on display for operator convenience & actions



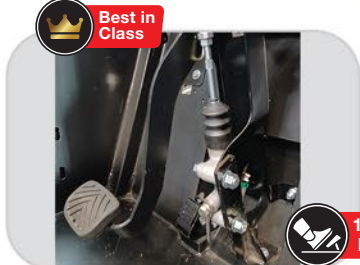
Rocker Switches
Reliable and low effort Rocker Switch with better aesthetic appearance.



17.8 cm (7 inch) TFT Display for Rear Camera
Allow operator an unobstructed view ensures machines & surrounding safety



All new weatherproof cabin with better visibility, comfortable operator seat with safety seatbelt, and EMI & EMC compliant electronics for reliable performance.



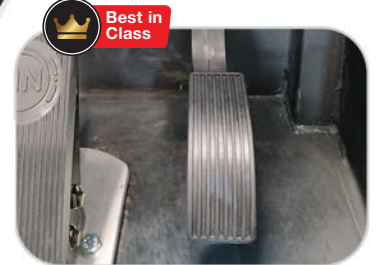
Hydro Pneumatic Clutch
51% reduction in operating effort to significantly reduce operator fatigue



Diesel Particulate Filter (DPF) Switch
Regeneration Switch on the dashboard



Wider Operator Seat
Comfortable operator seat with safety seat belt



Electronic Accelerator Pedal
Low effort electronic accelerator pedal to reduce operator fatigue

Unmatched Safety



Safe Load Indicator (SLI)
Continuously monitoring of appropriate load to ensure crane safety from overloading



LED work lamps
Better night visibility for uninterrupted operation

Counter Balance Protection Valve
Prevent boom from sudden lowering in case of hose leakage in the lift line



12V, 150Ah Battery
Adequate battery capacity for superior cranking response & powering variety of accessories



5 t Drag Winch*
Horizontal pulling or dragging of load



Front Outrigger
Heavy duty front outrigger for superior stability during erection



Projector Head Lamps
For superior night visibility



Optional Safety Accessories

- Outrigger Home Position Sensing System (OHPSS)**
Whenever outrigger leaves its home position then blow audio alert and indicator arises
- Use of 1st & Reverse Gear For Craning Operation**
Speed ≤2 km/h Audio Alarm will blow
- Mandatory Outrigger Mechanism For Erection Jobs**
Whenever boom open for higher height operation, an alarm will blow for opening outrigger for safe operation
- Restriction of Forward Movement in Engaged Outrigger Condition**
When outrigger is in open condition audio alert will blow
- Safe Mode Operation (No Bypassing Allowed)**
Safe mode operation while overloading/unsafe condition by restricting lifting load, opening boom and lift down operation
- Lateral & Longitudinal Angle System (Unsafe Stability)**
When machine is working in undulation ground / unsafe stability, alarm start blowing
- Anti-Toppling System**
Whenever rear axle leaves ground in case of undulation/off road craning operation, buzzer will beep and brake will applied
- Human Proximity Sensor**
Whenever human or any obstructions come near machine, sensors will get activated mounted on front, LH & RH side
- Integration of SLI With Telematics**
SLI data available on telematic server and mobile application

SPECIFICATIONS

Rated Capacity	
23 t at 0.9 t at Max Height	1.5 m radius 16.6 m radius 22.3 m (With Fly Jib)
SWL based on 85% Stability & Strength (IS 4573)	
Vehicle Performance	
Max Speed Creep Speed Gradeability	40 km/h 1.3 km/h 36% unladen
Drive	
4 Wheel Drive	
Engine	
VECV E494, CEV Stage V, diesel engine, high pressure common rail system (HPCR) technology, turbo charged, water cooled, ECU for engine management system, developing 74 kW/ 101 HP @ 2 200 RPM	
Transmission & Clutch	
Engine is coupled with synchromesh transmission gear box and auxiliary gear box with high/low & 2WD/4WD mode selector	
Clutch Clutch Actuation Speeds	Single, dry type friction clutch plate (self adjusting) Pneumatically assisted hydraulic clutch 10 forward & 2 reverse with AGB
Axles	
Front Rear Make	Heavy duty rigidly mounted hub reduction drive axle Mounted with semi-elliptical, hub reduction drive axle TATA
Tyres	
8 no's.- 12 x 24 - 20 PR	
Hydraulic System	
Main Pump Control Valve Outrigger Control Valve Dragging Winch Control Valve	Tandem hydraulic vane pump Main control valve 3 spool double acting with a built-in relief & auxiliary valves 2 spool double acting Single spool double acting valve
Steering	
Full power orbitrol with twin hydraulic double acting rams 40° articulation on either side	
Brakes	
Service Parking	Fully air operated on front & rear wheels Air operated, spring actuated, fail safe brakes on front & rear wheels
Electrical System	
12 V, Negative Earth, 150 Ah Battery Ignition key to switch ON/OFF engine	Fuel Tank - 270 l Hydraulic Tank - 185 l
Boom	
4 parts boom, 3 parts hydraulically powered & fully synchronized, 4th part power extended & manually pinned for safety Luffing range: - 3° to +65°	
Dimensions	
Wheelbase Overall length Overall Width Overall Height	4.88 m 10.90 m 2.70 m 3.30 m

Wheel Track		
Front	1.96 m	
Rear	1.96 m	
Turning Radius		
8.25 m		
Hoist		
15 t hydraulically operated with 6 falls, Built in safety brakes		
Operating Weight	Travel	Work
• Front Axle	9 230 kg	8 900 kg
• Rear Axle	10 130 kg	13 050 kg
• Total	19 360 kg	21 950 kg
(Road travelling allowed without bolttable counter weights)		
Standard Safety System		
• Safety Brakes on Hoist • Counter Balance Protection Valve in the Lift Circuit against Hose Burst • Visual Warning for Parking Brakes ON	• Low Air Pressure Warning Buzzer • Regeneration text pop-up messages in Instrument Cluster	
Standard Accessories	Optional Accessories	
• All Weather Cabin with Unrestricted Visibility • Rear View Camera with LCD • Front Outriggers • Wheel Guards • Mobile Charging Socket • Battery Cut-off Switch • Auto Leveling Hook Block • Projector Head Lamp • LED Work Lamp • LED Cabin Lamp • Fly jib • Safe load Indicator with Hydraulic Cut-off • Helper Seat Platform • Stereo System • Equipment Monitoring System (Telematics)	• Man Carrying Basket • Fire Extinguisher • Drag Winch • Rhino Hook	

SERVICE & SPARES SUPPORT

- WARRANTY AND POST WARRANTY SERVICE
- ON-SITE SERVICE THROUGH A WIDE NETWORK OF DEALERSHIPS.
- FIELD DIAGNOSTIC VEHICLE FOR IMMEDIATE ON-SITE RESOLUTION.
- COMPLETE RANGE OF GENUINE SPARE PARTS & LUBRICANTS.



80+ DEALERS



200+ SERVICE & TOUCHPOINTS



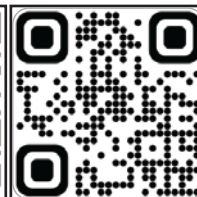
Toll Free No.:
1800-180-4488

(Timings: 9:00 am - 5:30 pm, Monday to Saturday)

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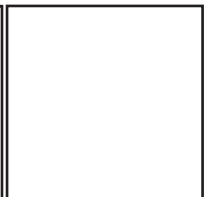
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Authorised Dealer

• The information contained in this leaflet is intended to be of a general • We reserve the right to changed specification with notice. • All Dimensions and weights are variable within +/-5%

Accessories as shown in the picture may not be part of standard fitment and are subjected to change without prior notice