



Escorts Kubota Limited
Construction Equipment

**LIFT WITH POWER
MOVE WITH PRECISION**

F23 2WD



Capacity
23 t
High
Performance



Boom Height
22 m (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)



A 23 t High-End Crane with 4 section 19 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 Rear Axle





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 Rear Axle.



Ultimate Safety & Stability

Equipped with reinforced structure and fail safe braking system with additional operating weight for secure operation



Superior Operator Comfort

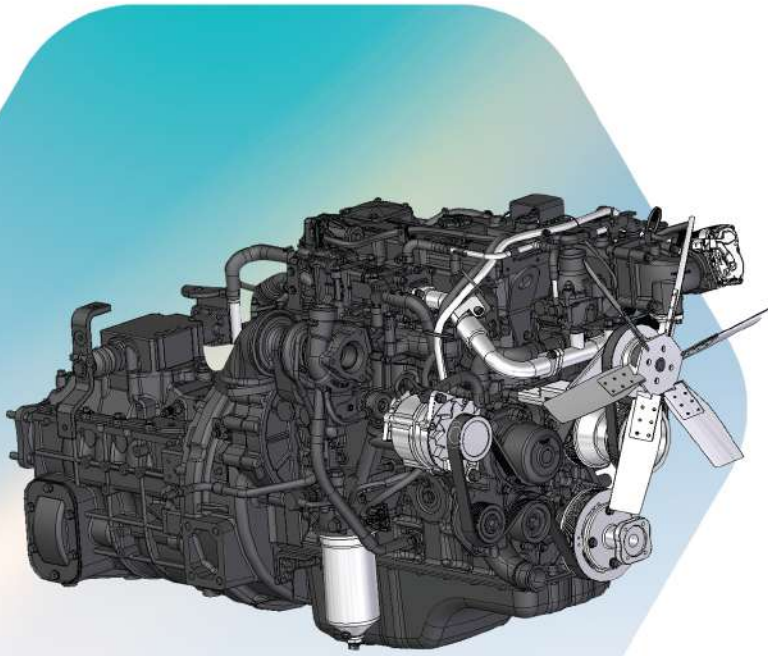
Spacious and ergonomically designed operator cabin with easy controls for fatigue-free operation.



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



101 kW (137 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 101 kW/ 137 hp @ 2 200 RPM



DOC + DPF + SCR



Service interval



6% Higher Engine Torque

Torque increased from 520 Nm to 550 Nm for better performance and fuel efficiency



HPCR System

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



12F + 2R Speed Synchromesh Transmission

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



TATA Heavy Duty Rear Axle

Drive axle, mounted on semi elliptical leaf springs.



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.



Hydraulic Joysticks

Hydraulic joysticks for precision controlled craning operation.



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

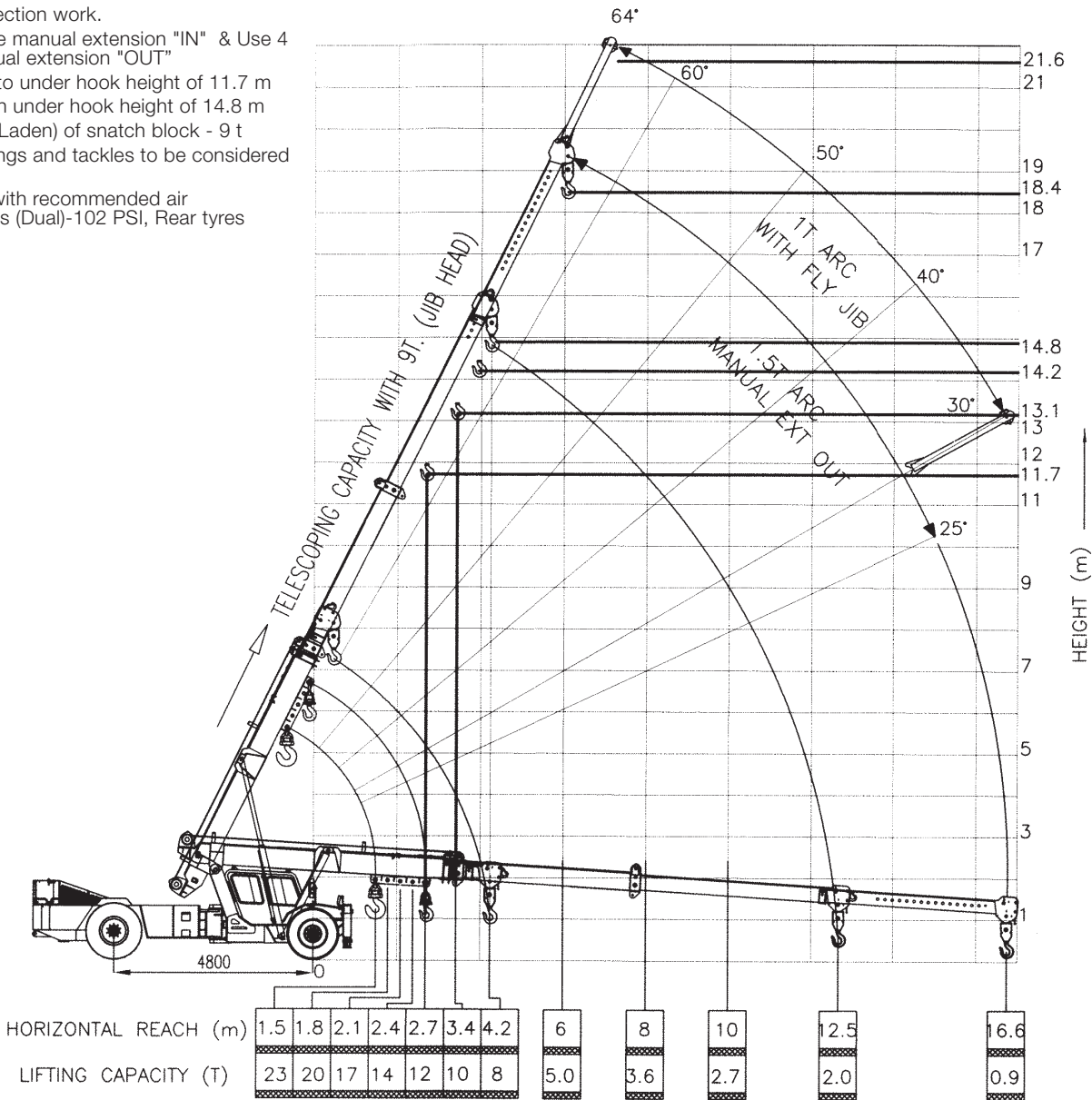


6 Falls, 15 t Hoist Winch with Auto Leveling Hook Block

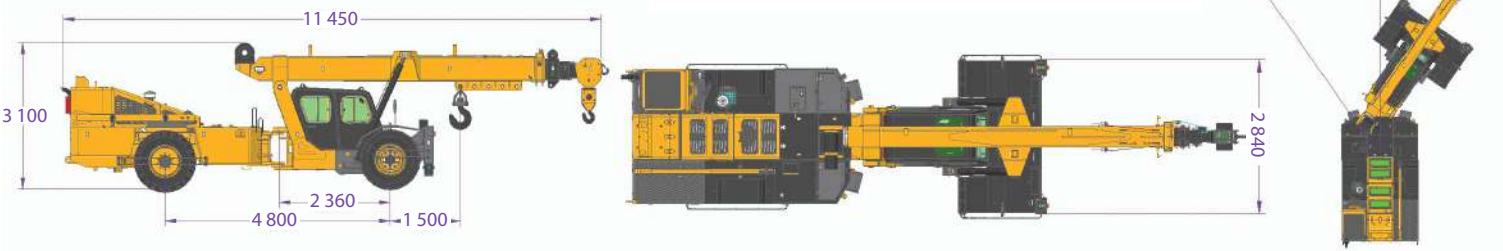
Provide precision handling & auto leveling of hook block during boom extension and retraction

Load chart F23 2WD

- Rated Loads are calculated for operation on levelled surface.
- S.W.L based on 85% stability & strength as per IS: 4573.
- Travel speed with rated load not to exceed 2 KMPH.
- Use Outrigger for erection work.
- Use 6 falls rope while manual extension "IN" & Use 4 falls rope while manual extension "OUT"
- 12 t can be lifted upto under hook height of 11.7 m
- 8 t can be lifted to an under hook height of 14.8 m
- Telescope capacity (Laden) of snatch block - 9 t
- Weight of chains, slings and tackles to be considered extra
- Tyres to be inflated with recommended air pressure - Front tyres (Dual)-102 PSI, Rear tyres (Single)-75 PSI



F23 2WD – 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



Hydro Pneumatic Clutch

Significantly reduce operator fatigue



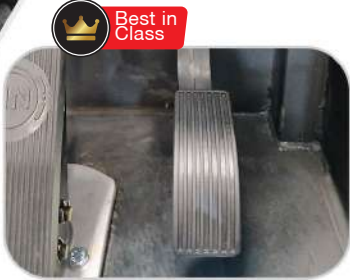
Diesel Particulate Filter (DPF) Switch

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



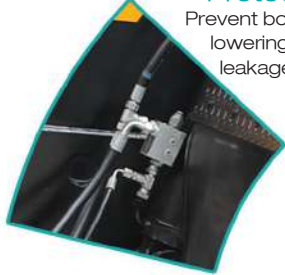
Safe Load Indicator (SLI)

Continuously monitoring of appropriate load to ensure crane safety from overloading



2 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, 180Ah Battery

Adequate battery capacity for superior cranking response & powering variety of accessories



Rhino Hook

Rhino hook at front for pulling of 5 ton load under fully retract boom condition



Towing Hooks

Towing hook at the rear end. Specially designed for recovery of breakdown vehicles.



Projector Head Lamps

For superior night visibility



Equipment Monitoring System (Telematics)

Telematics ensures 24x7 machine monitoring & alerts, fleet management, asset tracking & recovery, maintenance & downtime reduction



Front Outrigger

Heavy duty front outrigger for superior stability during erection

SPECIFICATIONS

Rated Capacity		Tyres	
23 t at	1.5 m radius	Front : 12.00 x 24 - 20PR (4 no's)	
0.9 t at	16.6 m radius	Rear : 17.5 x 25 - 20PR (2 no's)	
Max Boom Height	22 m (With Fly Jib)	Wheel Track	
SWL based on 85% Stability & Strength (IS 4573)		Front	2.15 m (Center of twin wheels)
Vehicle Performance		Rear	2.0 m (Center of wheel)
Max Speed	40 km/h	Turning Radius	
Creep Speed	1.3 km/h	8.5 m (min)	
Gradeability	35% unladen	Hoist	
Drive		15 t hydraulically operated 6 falls, Built in safety brakes	
2 Wheel Drive (Rear Wheel Drive)		Operating Weight	
Engine		Travel	
VECV E494, CEV Stage V, diesel engine, high pressure common rail system (HPCR) technology, turbo charged, water cooled, ECU for engine management system, developing 101kW/ 137 hp @ 2 200 RPM		• Front Axle	8 670 kg
Torque 550 Nm @ 1 600 RPM		• Rear Axle	10 100 kg
Transmission & Clutch		• Total	18 770 kg
Engine is coupled with synchromesh transmission gear box and auxiliary gear box with high/low mode selector		Standard Safety System	
Clutch	Single, dry type friction clutch plate (self adjusting)	• Safety Brakes on Hoist	• Low Air Pressure Warning Buzzer
Clutch Actuation	Pneumatically assisted hydraulic clutch	• Counter Balance Protection Valve in the Lift & Extension Circuit against Hose Burst	• Regeneration text pop-up messages in Instrument Cluster
Speeds	12 forward & 2 reverse with AGB	• Visual Warning for Parking Brakes ON	• Double Safety Protection on Hoist Winch
Axles		Standard Accessories	
Front	Fabricated with front frame	Optional Accessories	
Rear	Drive axle, mounted on semi elliptical leaf springs (TATA make)	• All Weather Cabin with Unrestricted Visibility	• Fire Extinguisher
Hydraulic System		• Rear View Camera with LCD	
Main Pump	Tandem hydraulic vane pump	• Front Outriggers	
Main Control Valve	Proportional control valve hydraulically actuated through joystick, 3 spool double acting with a built-in relief & auxiliary valves	• Wheel Guards	
Outrigger Control Valve	2 spool double acting	• Mobile Charging Socket	
Steering		• Battery Cut-off Switch	
Full power orbitrol with twin hydraulic double acting rams 35° articulation on either side		• Auto Leveling Hook Block	
Brakes		• Projector Head Lamp	
Service	Rear Wheel - Air operated brakes on Rear wheel	• 2 LED Work Lamps	
Parking	Front Wheel - Air assisted hydraulic brakes	• LED Cabin Lamp	
	Rear Wheel - Air operated, spring loaded, fail safe brakes	• Fly jib	
	Front Wheel - Air assisted, spring loaded, fail safe hydraulic actuated brakes.	• Safe load Indicator with Hydraulic Cut-off	
Electrical System		• Equipment Monitoring System (Telematics)	
Capacities		• Rhino Hook	
12 V, Negative Earth, 180 Ah Battery	Fuel Tank - 280 l	• Towing Hooks	
Ignition key to switch ON/OFF engine	Hydraulic Tank - 245 l		
Boom		SERVICE & SPARES SUPPORT	
4 parts boom, 3 parts hydraulically powered & fully synchronized, 4th part power extended & manually pinned for safety		- 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.	
Luffing range: - 4° to +64°		 80+ DEALERS  200+ SERVICE & TOUCHPOINTS	
Dimensions			
Wheelbase	4.80 m	  	
Overall length	11.45 m		
Overall Width	2.84 m		
Overall Height	3.10 m		



Toll Free No.: 1800-180-4488

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

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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

MKT/26.03/F23 2WD