



Escorts Kubota Limited

Construction Equipment

**LIFT WITH POWER
MOVE WITH PRECISION**

F20



Capacity
20 t
High Performance



Axle
37 t
High Performance



Boom Height
21.8 (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)

F20

A 20 t High-End Crane with 19.5 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 20 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

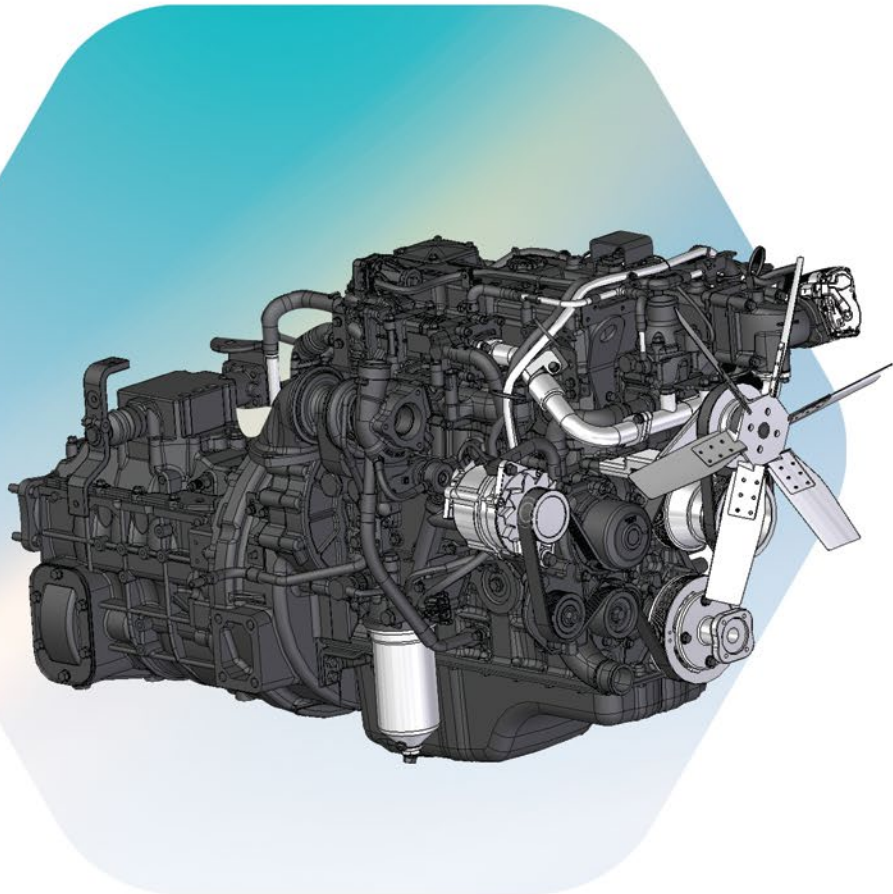
Spacious and ergonomically designed operator cabin with easy controls for fatigue-free operation.



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.



37 t TATA Heavy Duty Front Axle



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



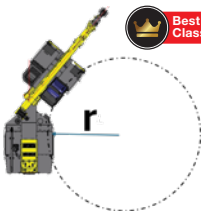
ECU EMS

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



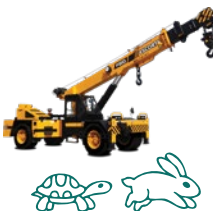
High performance Clutch

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

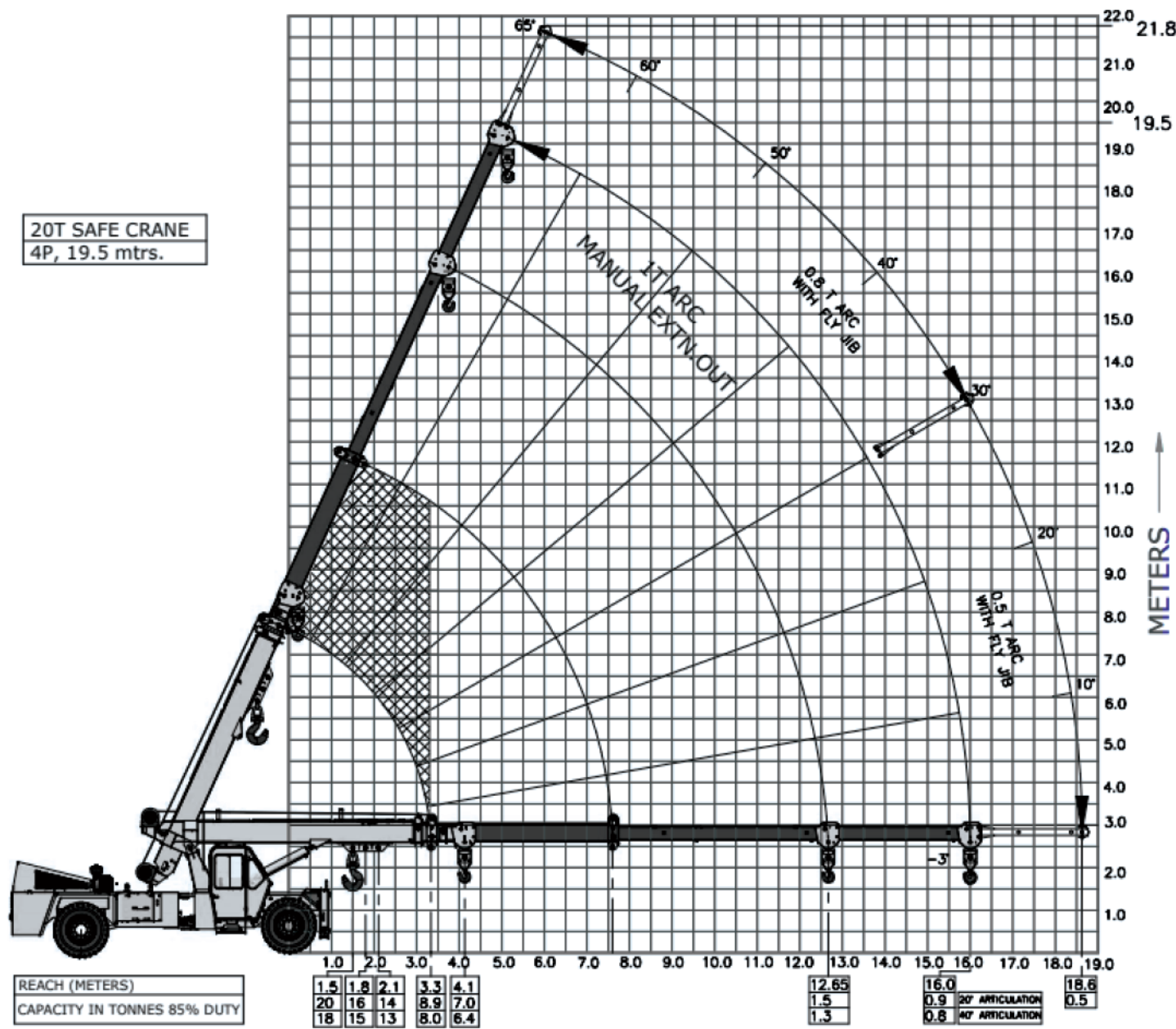
- 40 km/h Top Speed, fastest in the Industry Approved by ARAI
- 1.3 km/h Creep speed, Better control of load while working



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

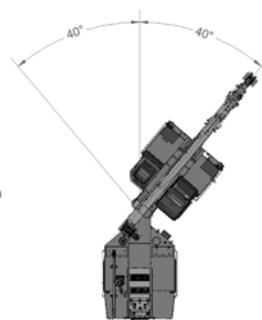
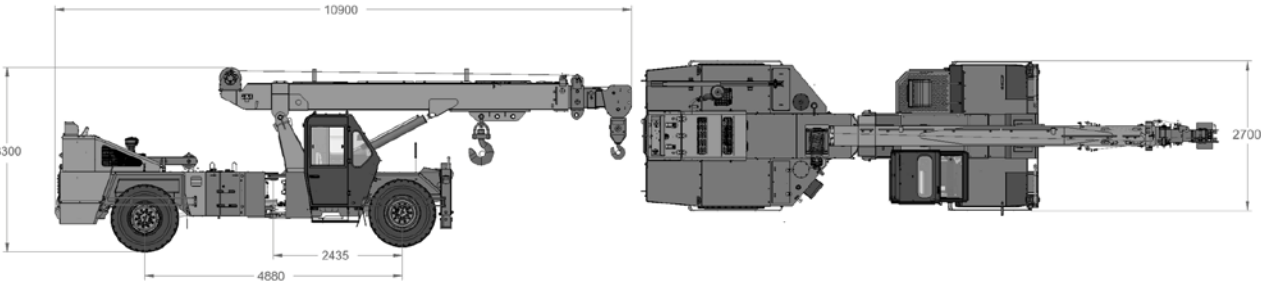
Provide precision handling & auto leveling of hook block during boom extension and retraction

Load chart F20



Rated loads are calculated for operation on leveled surface. SWL are based on 85% stability and strength

F20 – 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.

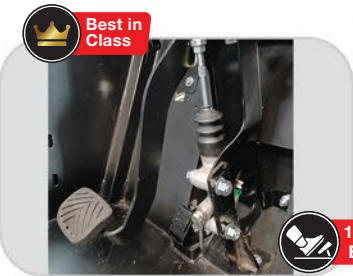


17.8 cm (7 inch) TFT Display for Rear Camera

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



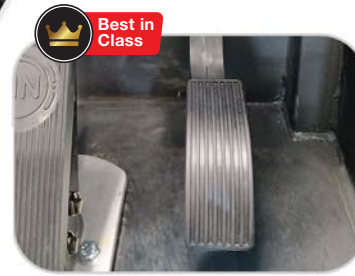
Diesel Particulate Filter (DPF) Switch

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



LED work lamps

Better night visibility for uninterrupted operation



Best in Class

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

Safe Load Indicator (SLI)

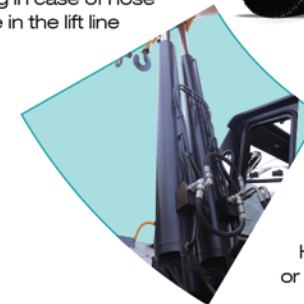
Continuously monitoring of appropriate load to ensure crane safety from overloading



Best in Class

Counter Balance Protection Valve

Prevent boom from sudden lowering in case of hose leakage in the lift line



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



Best in Class



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	
20 t at 0.9 t at Max Height	1.5 m radius 16 m radius 21.8 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 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 PLY	
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 Rear	1.96 m 1.96 m
Turning Radius	
8.25 m	
Hoist	
15 t hydraulically operated with 6 falls, Built in safety brakes	
Operating Weight	
• Front Axle • Rear Axle • Total	9 275 kg 10 200 kg 19 475 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	
• 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

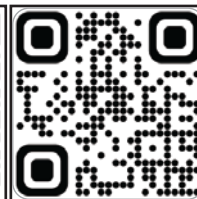


Toll Free No.:
1800-180-4488
(Timings: 9:00 am - 5:30 pm, Monday to Saturday)

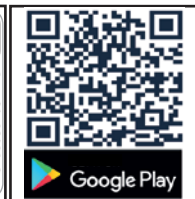
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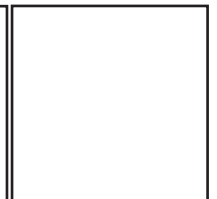
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Authorised Dealer

• 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