



Escorts Kubota Limited

Construction Equipment

**DESIGNED BY  
BUILT FOR YOU**

# HYDRA 12

कामयाबी की ऊंचाइयों तक



**Creep Speed**  
1.7 km/h  
Performance &  
Safety



**Hi-Visibility  
Cabin**  
Safety &  
Comfort



**Service Interval  
(Engine) 500 Hrs**  
Low  
Maintenance



**Shortest Turning  
Radius of 6.3 m**  
High  
Performance



**Travel Speed**  
of 29 km/h  
High  
Performance



**Top  
Jack**  
High  
Performance

**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          |
| 27 ft - 65 ft | 60 ft - 69 ft   | 16 hp - 39 hp   | 75 hp           | 45 hp - 74 hp     | 110 hp          | 75 ft - 118 ft       |

## NEW HYDRA 12

The Brand New CEV Stage V Hydra 12 is a robust and reliable crane designed to handle a variety of material handling tasks in construction and industrial environments.

Performance, Safety & Comfort



### 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 precise load handling and improved safety.



### Power-Packed Performance

High-torque engine and advanced hydraulics deliver superior lifting and loading efficiency.



### Ultimate Safety & Stability

Equipped with a reinforced structure, Seat belts and fail-safe braking system for secure operations.



### Superior Operator Comfort

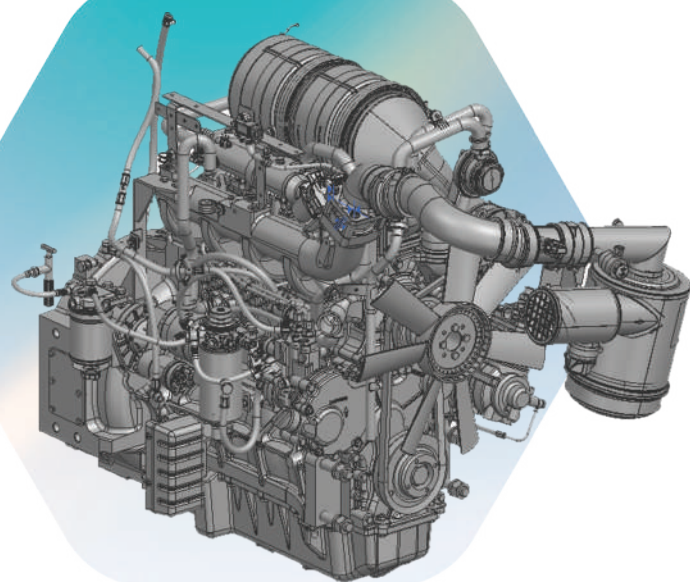
Spacious and ergonomically designed operator cabin with easy controls for fatigue-free operation.



### Fuel Efficient

Engineered for optimal fuel efficiency, reducing operational costs without compromising performance.

# Unmatched Performance & Durability



## Reliable Escorts Kubota CEV Stage V Engine

Equipped with DOC and DPF, Escorts Kubota E4.391NA CEV Stage V compliant 50 HP direct-injection engine

**25 Lacs**  
Engine Running

Tested for  
**50 Years**  
Perfected  
Over **500,000+** Hours



## Higher Engine Torque: 217Nm

Torque increased 8.5% from 200Nm to 217Nm with better performance and fuel efficiency in working condition



## Increased Tank Capacity

High Capacity 50 Ltr diesel tank for uninterrupted operation



## Shortest Turning Radius of 6.3 m

Better maneuverability in tight spaces & difficult working sites



## Higher Operating Weight (10.3T)

Handle load with confidence

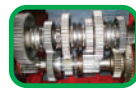


**Best in Class**

## Less Noise, Better Performance

Top Notch Constant Mesh Gearbox: 8F+2R

Designed to deliver excellent performance in craning with high low selector for effortless gear engagement, minimizing noise & maintenance



Constant Mesh



Sliding Mesh



**Best in Class**

## Faster Travel, Steady Loading

- 29 km/h top speed, fastest in the Industry, approved by ARAI
- 1.7 km/h creep speed, better control of load while working



**13 Kg Effort**

## High Performance Clutch

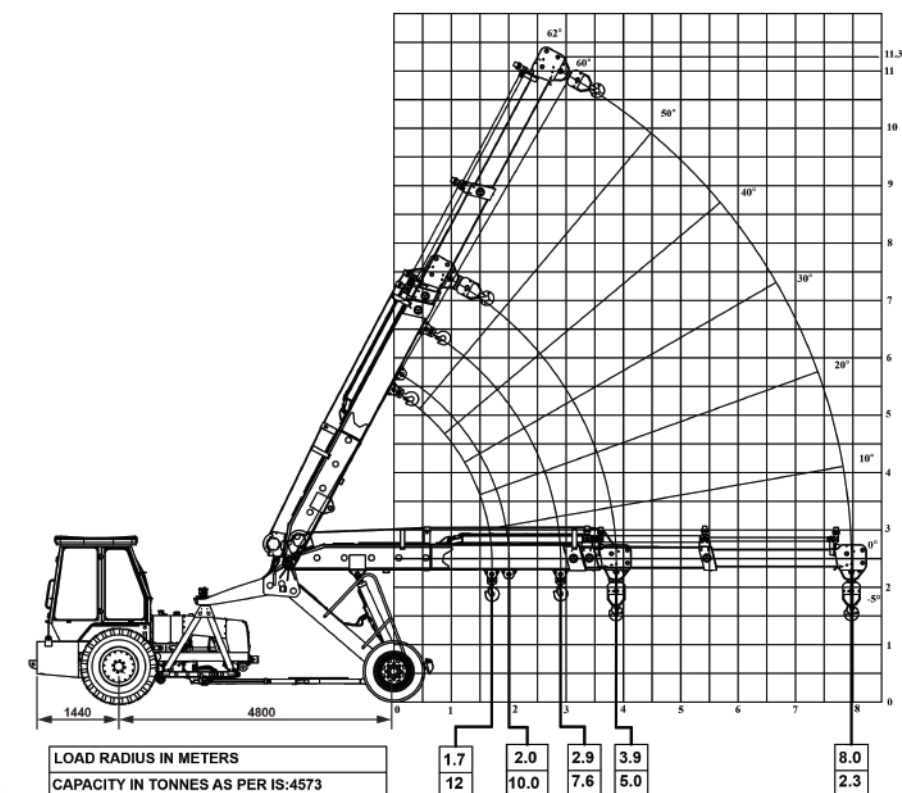
Cerametallic Clutch for smooth power transmission, better service life and low maintenance cost



## Top Jack

Provide powerful and controlled lift for heavy loads, quick and low maintenance

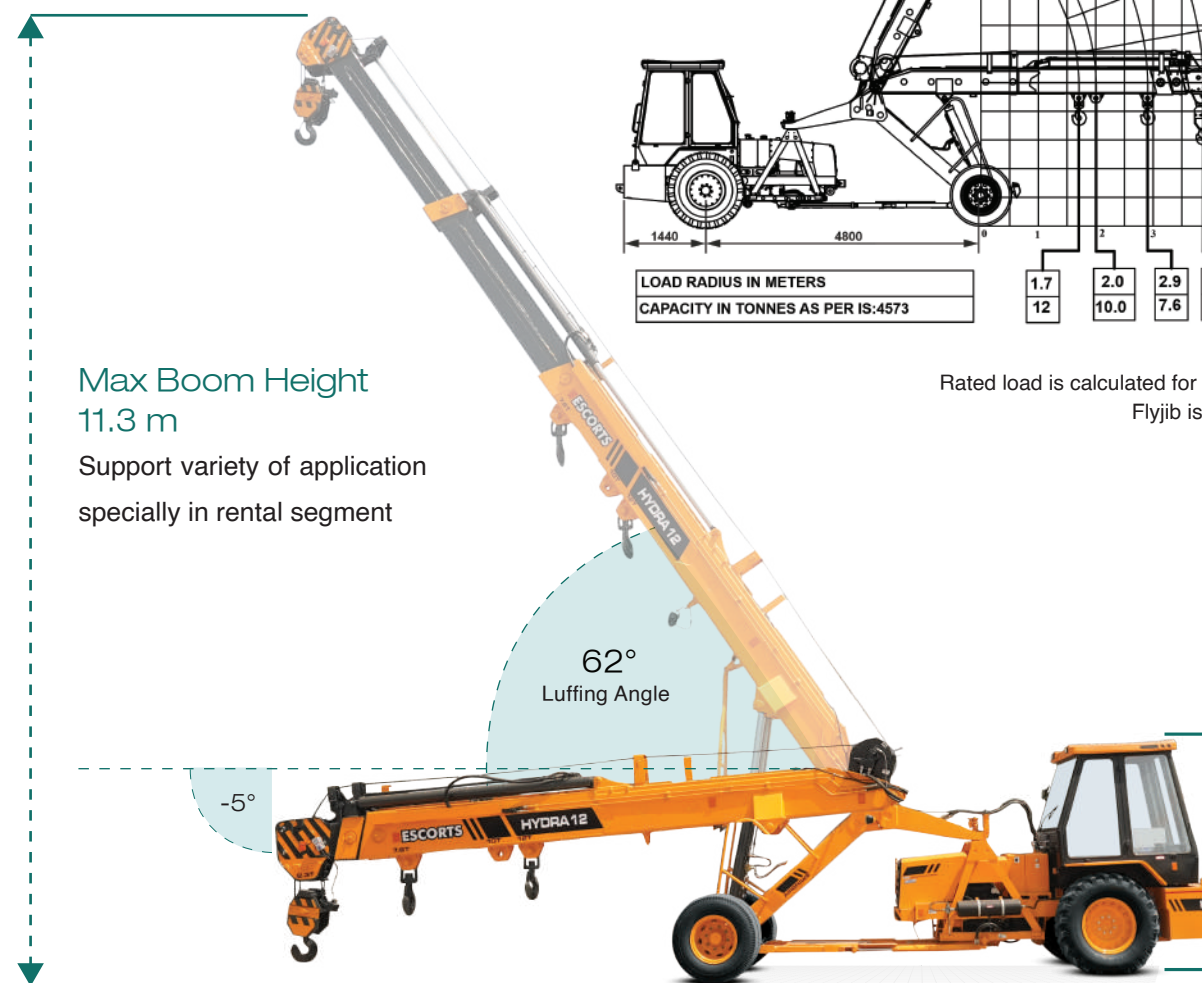
## LOAD CHART HYDRA 12 3P - 36 FEET



Rated load is calculated for operation on leveled surface.  
Flyjib is not a standard part of crane.

## Max Boom Height 11.3 m

Support variety of application specially in rental segment



62°  
Luffing Angle

-5°

## -5° Luffing Angle

Helps in handling load in confined areas, specially in low lying spots, minimizing use of slings

## Low Machine Height of 3 m

Better agility in tight spaces & low height application



**Best in Class**

## Reduced Track width of 1.82 m

Better performance in tight spaces and difficult working spaces



# Peak Safety



## High-Visibility Cabin

Full glass cabin for superior tyre visibility & working safety



## Counter Balance Protection Valve

Prevent boom from sudden lowering in case of any hydraulic leakage



## All Wheel Pneumatic Brakes

Superior braking response with lower maintenance cost



## Overload Audio Warning System

Prevent overloading of crane and ensures safety of operator and surrounding



## Hoist Winch (10T) with Built in Safety Brakes

Branded hoist winch for superior reliability & safety



## Other Safety Features

- Weatherproof IP67 Connectors
- Low Air Pressure Warning Buzzer
- Neutral Starting Switch
- Grab Handle

# Peak Comfort



## Rocker Switches

Reliable and low effort Rocker Switches with better aesthetic appearance



## Digital Instrument Panel

Bright and ease to read CAN\* based cluster with all gauges and engine fault code detection



## Round Lever Knobs

Easy to reach with increased hand grip and minimal effort to reduce fatigue



## Center Mounted Gear Lever

For better Operator comfort and reduce fatigue



## Large Floor Space

Plenty of space with greater comfort for the operator



## Wider Operator Seat

Comfortable seats with safety belt

\* Controller Area Network

# Peak Reliability

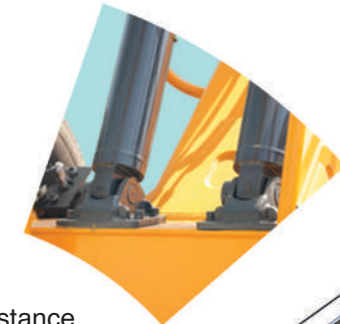
## Easy Maintenance

Quick access and easy maintenance of hydraulic & Diesel tank



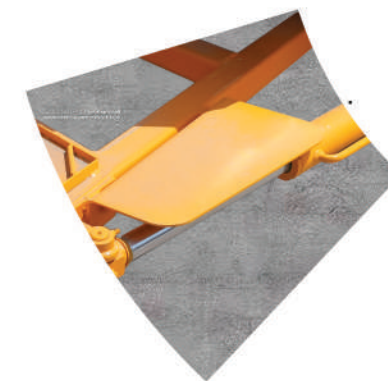
## Boltable Luff Bracket

Increased cylinder distance and boltable luff bracket to handle boom jerking and supports easy maintenance



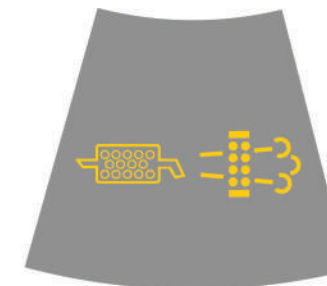
## Rear Tyre Mudguard

Clean cabin for the operator, Improves productivity and requires less maintenance



## Steering Cylinder with Guards

Longer steering cylinder having bigger rod diameter for enhanced side stability and maneuverability. Cylinder protection guard as standard reduces maintenance



## Regeneration pop-up Message in Cluster

Provides timely regeneration alerts, reduces chances of engine breakdown

## Specifications

| ENGINE                                                        |                                          |
|---------------------------------------------------------------|------------------------------------------|
| Brand                                                         | Escorts Kubota                           |
| Model                                                         | E4.391NA                                 |
| Cylinders /Displacement (L)                                   | 4/3.9                                    |
| Air Intake                                                    | Naturally Aspirated                      |
| Fuel Injection                                                | Electronic, Common Rail Direct Injection |
| Emission Level                                                | CEV Stage V                              |
| Max. Gross Power (kW/hp) @2200 rpm                            | 36/50                                    |
| Max. Gross Torque (Nm) @1400 - 1500 rpm                       | 217                                      |
| After Treatment                                               | DOC + DPF                                |
| *500 hrs. service interval available in Escorts Kubota Engine |                                          |

| HYDRAULIC SYSTEM |                                                                                             |
|------------------|---------------------------------------------------------------------------------------------|
| Hydraulic Pump   | Vane type Hydraulic Pump                                                                    |
| Control Valve    | 4 spool control valve with built in pressure relief valve                                   |
| Hydraulic Filter | Suction Line has 100 mesh inline strainer while return line has 25 microns full flow filter |

| ELECTRICAL SYSTEM |                            | SERVICE CAPACITIES |    |
|-------------------|----------------------------|--------------------|----|
| Battery           | 12V, Negative Earth, 88 Ah | Hydraulic Tank (L) | 70 |
|                   |                            | Fuel Tank (L)      | 50 |

| DRIVETRAIN  |                                                                                                                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drive Type  | 2-Wheel Drive<br>Heavy duty transmission especially developed for crane application, constant mesh gearbox coupled with straight drive axle, 8F & 2R speeds with high/low selector lever |
| Creep Speed | 1.7 km/h, ideal for crane application                                                                                                                                                    |
| Max Speed   | 29 km/h (unladen)                                                                                                                                                                        |
| Clutch      | Heavy duty cerametallic clutch, asbestos free for longer life                                                                                                                            |

| STEERING       |                                                                               |
|----------------|-------------------------------------------------------------------------------|
| Type           | Articulated power steering hydraulically controlled through 2 hydraulic jacks |
| Articulation   | Up to 54° either side                                                         |
| Turning Radius | 6.3 m                                                                         |

| BRAKES      |                                                                         |
|-------------|-------------------------------------------------------------------------|
| Front Wheel | 'S' cam pneumatically actuated drum brakes                              |
| Rear Wheel  | Pneumatically actuated disc brakes                                      |
| Parking     | Hand control valve operated, air assisted parking brake at front wheels |

| BOOM        |                                                                                        |
|-------------|----------------------------------------------------------------------------------------|
| Telescoping | 3 Part, box type, heavy duty boom, hydraulically operated, through 2 jacks at boom top |
| Derricking  | Through double acting Jacks -5° to + 62° angle                                         |

| HOIST MECHANISM |                                                                  |
|-----------------|------------------------------------------------------------------|
| Hoist           | 4 Falls, hydraulic winch 10T capacity with inbuilt safety brakes |
| Wire Rope       | 13 mm Dia                                                        |

| TYRES |                                                               |
|-------|---------------------------------------------------------------|
| Front | 10.00 x 20 - 16 PR (4 no's.) Pressure 110-115 PSI             |
| Rear  | 13.00 x 24 - 12 PR (2 no's.) Pressure 35 PSI, Water ballasted |

| TRACK |        | OVERALL DIMENSIONS |         |
|-------|--------|--------------------|---------|
| Front | 1.82 m | Length             | 10.05 m |
| Rear  | 1.67 m | Width              | 2.41 m  |
|       |        | Height             | 3.05 m  |

| OPERATING WEIGHT(KG) |          |
|----------------------|----------|
| Gross Vehicle Weight | 10300 Kg |

| SAFETY SYSTEM                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Overload Audio Warning System</li> <li>• Safety Brakes on Hoist</li> <li>• Cylinder Guards for Protection</li> <li>• Counter Balance Protection Valve in the Lift Circuit against Hose Burst</li> <li>• Visual warning for Parking Brakes ON</li> </ul> | <ul style="list-style-type: none"> <li>• Low Air Pressure Warning Buzzer</li> <li>• Front or Rear Handles for Helper in Cabin</li> <li>• Neutral Safety Switch</li> <li>• Regeneration text pop-up message in instrument cluster</li> <li>• Overhoist System</li> </ul> |

| STANDARD ACCESSORIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | OPTIONAL ACCESSORIES                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Lift Cylinder Guard</li> <li>• Front Bumper</li> <li>• Turn &amp; Reverse Lamp</li> <li>• Driver Seat with Seat Belt</li> <li>• Mobile Charging Socket</li> <li>• Battery Cut-off Switch</li> <li>• High Reliability Rocker Switch</li> <li>• Ignition Switch - ON/OFF</li> <li>• IP67 Sealed Connectors in Wiring Harness</li> <li>• Digital Instrument Cluster (CAN based)</li> <li>• Rear Tyres Mud Guard</li> <li>• Extra Rear Foot Step</li> </ul> | <ul style="list-style-type: none"> <li>• Fly Jib</li> <li>• Fire Extinguisher</li> <li>• Safe Load Indicator</li> <li>• Storage Box</li> <li>• 6 Fall Snatch Block</li> <li>• Man Basket</li> <li>• Tyres -<br/>Rear - 14 X 24 - 16 PR HD<br/>Rear - 14 X 25 - 20 PR HD<br/>Front - 11 X 20 - 16 PR</li> </ul> |

## Service & Spare Parts 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



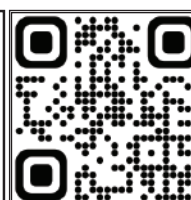
**Toll Free No.:**  
**1800-180-4488**

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

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