

# The pluses by Costruzioni

There is no equal on the market. Thanks to the extendable undercarriage up to 1,800 mm, the Kato Imer HD 35V4 provides incredible stability. With the load handling option, it becomes pick and carry









Offset rear pillar - visibility

### **VERSATILITY SPACE**

The cab has considerable internal dimensions in proportion to the 3.6 t operating weight. The hydraulically extendable undercarriage helps to dig close to walls even more easily than with the younger brother HD 30V4. The hydraulic layout of the boom is very "clean". Protected pipes and visibility of the digging area.



## THE PERFORMANCE OF THE NEW HD 35V4

- Breakout Force
- Diggin Force\*
- TECHNICALALLY HIGHER STATIC **OF THE CATEGORY**
- \* Note: with 1,200 mm arm.



# Unparalleled stability (

The extendable undercarriage makes the HD 35V4 unique compared to other mini-excavators. It lowers the centre of gravity and offers a footprint on the ground as mini of over 4 tons operating weight

UP TO 2,000 KG FRONT AND 1,000 SIDE\* The option for the load handling turns the HD 35V4 in a pick and carry vehicle. At 3,000 mm from the fifth wheel centre, it raises 1,500 kg on the front and 500 on the side. Always on the side, at the maximum reach of more than 5 m, it moves 200 kg (in the picture it is raising 300 kg at over 4,500 mm). At the maximum front reach, it raises 400 kg.



\* Note: capacity declared at 2,000 mm from the fifth wheel centre at ground level.









## The only extendable undercarriage of the category **300 MM HEAVY DUTY** This mini is provided with the new ultradurable rubber tracks launched by Bridgestone. They are called Toughtrack and are characterized by a single steel cable that runs in a spiral along the whole track from an external profile to an internal profile.

## from 1,550 mm to 1,800 mm

### NARROW WHEN IT IS USEEFUL

The stability of HD 35V4 is appreciated immediately and working with an extended undercarriage at 1,800 mm is the rule. In practice, the undercarriage is retracted to 1,550 mm for the narrowest passages and to transport the machine.





ALL OUT When the undercarriage is fully extended, the track juts out from the upper-structure side by only 125 mm, while in rotation the upper-structure is perfectly zero tail swing despite the standard 200 kg external ballast sheet (optional for the smaller models of the range).



The engine used is the 1.64-liter Yanmar 3TNV88 3-cylinder engine calibrated to supply 17.5 kW at 2,200 rpm (it could supply up to 26.9 kW) and in electronically controlled version. The HD 35V4 consumes up to 26% less diesel than the previous generation model

DIESEL UNDER CONTROL
Double diesel filter, one of which with tank and light to see the impurities, drain tap and electric supply pump for the restart.

- MAXIMUM RELIABILITY
  This three-cylinder unit combines
  a direct injection system with
  an electronic management. This
  is a generation of optimized monoblocs
- 2 SIMPLE AND EFFECTIVE ECO MODE Eco mode is enabled by means of a button that limits the engine speed 300 rpm below the level of maximum power. The torque curve does not vary as well the hydraulic curves do not change.

in the cooling circuit.

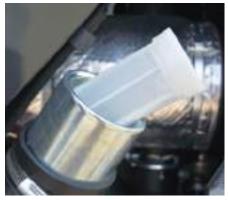
3 STANDARD AUTO IDLE, IT CAN BE DISABLED
When the keyers are idle for 4
seconds, the Auto Idle reduces
the engine speed to idle.
As the controls are touched lightly,
the speed increases again. A button
enables and disables it.







**KEY AND IMPURITY FILTER** Refueling is easy thanks to the reduced height of the filler from the ground. The cap can be opened with the same key used for the engine start.





**PROTECTED ECU** The electronic engine control unit is mounted in the cab on elastic supports. Removing the protection on which it is mounted, it is possible to adjust the belt tension by acting on the adjustable support of the 40 A alternator.



**FUSES IN THE CAB** Even the fuse box is in the cab, behind the operator's feet, well accessible and protected. In this position the main circuits are shown and on the cover of the box there is a useful legend of the functions of each fuse. The relays are on a dedicated support above the 55 Ah battery.







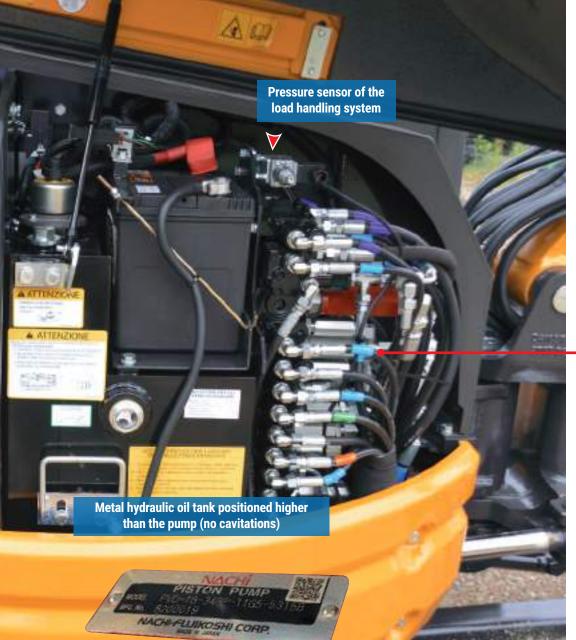
upper-structure allows coolant to be discharged.



# Aspiring cooling

PARALLEL RADIATORS ON ELASTIC SUPPORTS From the side hood it is possible to reach a double compartment for air intake and hydraulic management. The heat exchangers are well accessible, not fixed directly to the machine frame to protect them from vibrations and free to expand to avoid cracks.







KAYABA VALVE The open centre valve is mounted vertically and in parallel to the cab heating. In summer it does not heat the operator's feet and in winter it makes heating more efficient.

## EACH ONE HAS ITS COLOUR

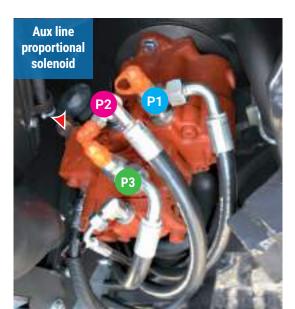
All the ends of the hydraulic pipes can be identified by name and colour. Extraordinary maintenance is easier and faster.

#### SINGLE OR DOUBLE EFFECT Next

to the valve there is the by-pass to adjust the aux line with double supply or supply on one line and return on the other one.

## **DOUBLE NACHI WITH VARIABLE FLOW**

The choice of a double parallel variable flow pump (P1 - P2) allows you to gain space. The P1 controls bucket, boom and right travel, the P2 controls arm, left travel and services. The P3 with gears controls blade, rotation and swing. Also the swing motor is Nachi.







## WALKAROUND by Gostruzioni







#### PRODUCED IN ITALY

The Kato Imer HD 35V4 is the largest mini produced in the San Gimignano (SI) plant. In the coming years the Tuscan plant will implement the production of mini excavators.



## WALKAROUND by Costruzioni

High upper visibility



**ANTI-FOG WINDSHIELD** 

The upper part of the windscreen opens and conceals itself above the operator's head, while the lower part can be tilted internally to let fresh air enter even in case of rain.



**INDICATES ANOMALIES** The analogue dashboard has the digital hour counter at its foot. In the same box the Ecu indicates anomalies with numerical codes.



#### **ITALIAN QUALITY** The cab is signed Italcab, therefore maximum availability for each spare part. The laminated upper glass is beautiful and reassuring; its inclination acts as a slide for the rainwater which is recovered by a drip profile so as not to let it run on the windscreen.

TOPS, ROPS. FOPS AVAILABLE
The HD 35V4 is available in a version with a simple canopy (150 kg lighter) or with a cab as the machine described. In any case, the structure is certified Tops and Rops. On the cab it is possible to mount the Fops grid. In the two versions the dashboard does not change. Some lights indicate the two-speed mode activation (standard with automatic transmission), the wrong machine starting with safety lever down, the engine overheating and the presence of water inside the diesel fuel.





With a single key, it is possible to open the cab and the hoods and the engine is started.





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SCHOOL SECTION

DISM. NO

STREET, NO.

#### **HEATING CAN BE SWITCHED OFF**

The heating module (standard) is suspended on the right-hand side of the cab and can be controlled with a button. A by-pass of the cooling circuit does not allow hot water to circulate in the cab in summer.





Kato Imer recommends the use of motor and hydraulic oil with excellent specifications without using the expensive long-life products. Oil changes every 250 hours, therefore, but without high costs. Accessibility is good and it does not affect ordinary maintenance costs.

#### **M**AINTENANCE INTERVALS

- Engine oil and filter change 250 hours
- DIESEL FUEL FILTER CHANGE 250 HOURS
- HYDRAULIC OIL FILTER CHANGE 1,000 HOURS
- HYDRAULIC OIL CHANGE 1,000 HOURS
- COOLANT CHANGE 1,000 HOURS



Discover the Kato Imer world by watching its Youtube channel

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Kato Imer HD 35V	4 in numbers	
Operating weight with cab	3,675	tons
Power	17.5	kW
Yanmar engine	3TNV88	
Displacement	1.64	I
Cylinders	3	
Bore x stroke	88 x 90	mm
Rated rpm	2,200	rpm
Piston speed	6.6	m/s
Cylinder valves	2	
Cams	conventional	
Injection	direct	
Injection phases	1	
EGR electronic control	no	
Exhaust gas aftertreatment	silencer	
Air feed	intake	
Pumps	2 variable flow	
Flow	2x 37.4 + 23.1	l/min
Pump regulation	conventional	
Directional control valve	conventional	
Maximum pressure	24.5	MPa
Digging depth (long)	3,080 - 3,380	mm
Vertical digging depth (long)	2,470 - 2,750	mm
Digging reach (long)	5,130 - 5,420	mm
Loading height (long)	3,430 - 3,540	mm
Breakout force	2,912	daN
Digging force	1,709	daN
Travel speed	2.7 - 4.5	km/h
Swing speed	9	rpm
Wheel base/track length	1,810/2,260	mm
Track rollers	4	
Undercarriage width	1,550 var 1,800	mm
Track width	300	mm
Rear overhang	865	mm
Offset (L/R)	80°-50°	
Transport length (long boom)	4,750	mm
Transport height	2.470	mm
Blade (W-H)	1,550 - 380	mm
Blade up/down	385 - 430	mm
Blade distance	1,650	mm
Battery	55	Ah
Alternator	40	
Fuel tank	42	
Hydraulic system/tank	50/33	
* Note: the long boom option includes additional ballast. Weight 3.625 kg.		

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