

MINI-EXCAVATORS

3.0-8.5 tons

IHIMER

THINK GLOBAL, ACT LOCAL

α joint venture



30V₄

35V₄

45V₄

55V₄

55N₄

60V₄

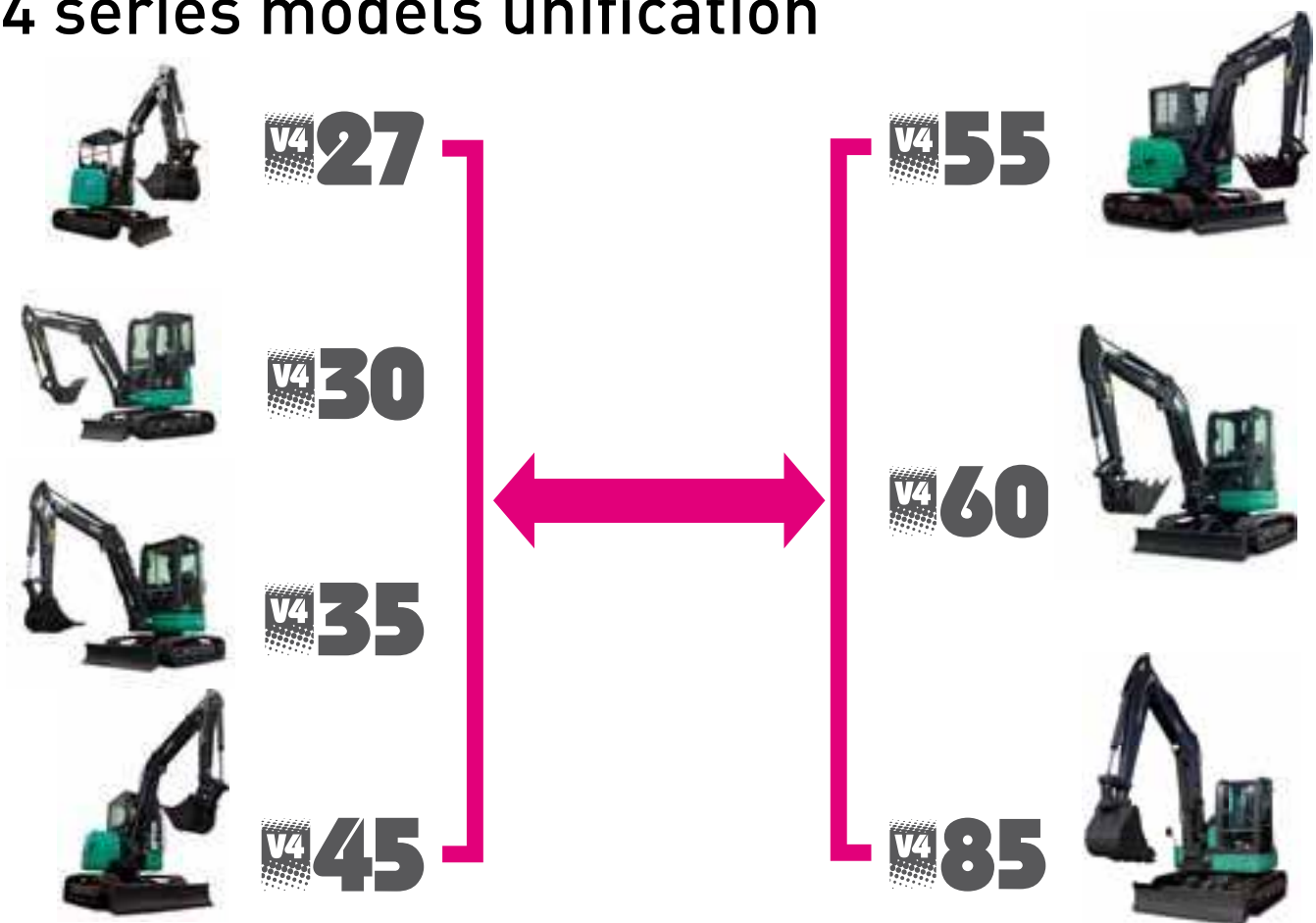
85V₄

EN

Courtesy of Machine.Market

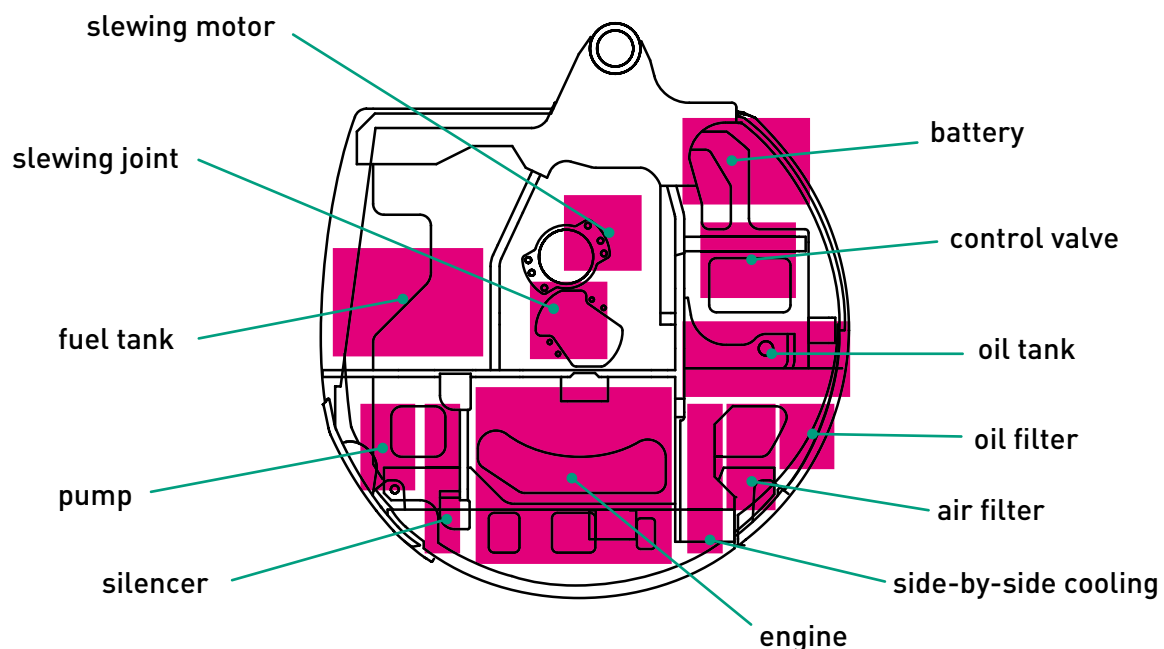
UNIFIED DESIGN

V4 series models unification



unified design for models of the V4 series

- Spare parts uniformity and interchangeability
- Components lay-out unification
- Well balanced design to ensure high performance and stability



TARGET

**offer better performance
with a simple structure**

- Greater safety for the operator
- ROPS/FOPS compliance
- Controls lock system
- Comfortable space in the cabin
- Wide and comfortable operator room
- Simple, stable and powerful operations
- Well balanced design to ensure high performance and stability
- Lower maintenance costs
- Simple design for longer lifetime
- Easier maintenance
- Low fuel consumption

RECYCLED MATERIALS



All materials used for the construction, steel plates, cast iron and plastic, are 97% recyclable.

Operator safety and space

The canopy/cabin ROPS/FOPS compliance ensures the operator safety



Greater safety for the operator

Safe climbing and descent from the machine

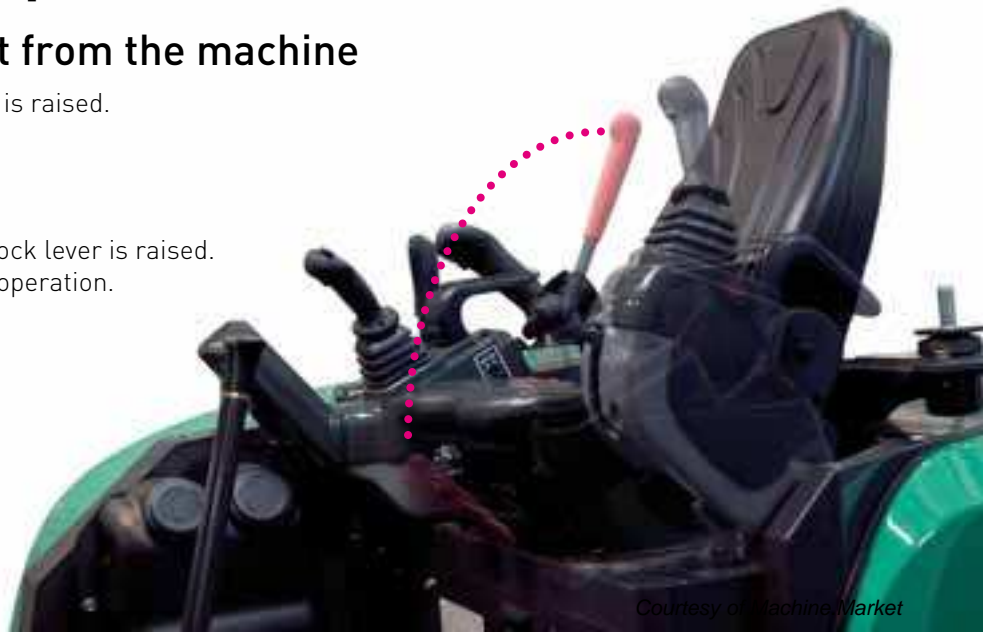
The Lock System operates when the lever is raised.
All operations are inhibited.

Engine start in safety

The engine can be started only when the lock lever is raised.
The starting system prevents any sudden operation.

Safety on stationary machine

Auto-parking brake, it activates when the lock lever is raised.



CABIN AND INSTRUMENTS



THE NEW CABIN IS LARGER

* 25% larger than previous model

HEATING



Cushioned bucket seat
Fabric seat available as an optional

INSTRUMENTATION DESIGNED FOR THE OPERATOR

The new instrumentation to the right and left is designed for the operator's total comfort. The manual controls are all on the right: all operations, except boom swing can be carried out manually. The front monitor of new generation facilitates greater control by the operator during work. The servo-assisted joystick controls ensure the utmost precision during all operations. Ergonomic arrangement of all controls.



+20% SPACE FOR THE LEGS

The larger cabin provides more comfort and less stress. The design of the reduced pedals ensures more space for the legs.



HYDRAULIC SYSTEM

Accurate sizing of the hydraulic system allows to develop a bucket digging force of 29.1 kN (2970 kgf) for models 30V4 and 35V4; of 31 kN (3160 kgf) for models 45V4 and 55V4; of 41.2 kN (4200 kgf) for 60V4 and of 55 kN (5610 kgf) for 85V4.

OPTIONAL AUXILIARY SYSTEM

In addition to the standard auxiliary hydraulic circuit, there are two additional optional hydraulic circuits, which allow to use multiple equipment such as hydraulic hammers, shears, hydraulic clamps, augers, adjustable and multifunctional buckets. The pedal boom swing has two functions: swinging and second auxiliary line, after preselection.



PROTECTION FOR COMPONENTS

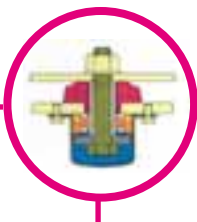
The hydraulic pipes are routed on the top of the boom and inside the arm with the piping protected with a metal coil and burst-proof sheaths. Blade and arm cylinder protection.

MONITOR FOR EASY CONTROL

The monitor is on the right and allows the operations control during the work. The new angle improves visibility while driving. New design.



VIBRATION AND NOISE REDUCTION



VISCOUS SUPPORT FOR THE CABIN

Effective for vibration and noise reduction. Absorbing the shock, it ensures comfort inside the cabin.



Electrical outlet and lighter

Blade lever with two-speed button

Monitor

Ergonomic joystick - 1st auxiliary system proportional control (std.) all operations are controlled by a pivot valve for light operations. The switch on the right of the joystick allows easy and proportional manoeuvres to the auxiliary hydraulic system

3rd auxiliary system control (opt.)

The high seat gives greater operator comfort during digging operations (standard on models 45V4 - 55V4 - 60V4)

2nd auxiliary system control (opt.)

Ergonomic joystick

Lock system
it operates when the safety lever is raised; all operations including auto-parking brake, blade shift and movement are inhibited



STRUCTURE

EXCEPTIONAL STABILITY

The machines of the new V4 series are designed to ensure balance. Digging, lifting and loading can be carried out ensuring excellent stability.

EXCELLENT WEIGHT DISTRIBUTION

The undercarriage of large dimensions and a perfect distribution of the weights, allow very great stability, greater than conventional machines of the same category. The machine is stable even in particularly critical situations or on muddy ground. The cylinder of the large blade is well protected against knocks and damage.

SHEET GUARD

Robust and compact structure



SINGLE SWING PIN

NEW ARM PIN

The adjustable nut-mounting system significantly reduces horizontal tolerance, and eliminates normal bucket play due to wear.

REINFORCED DOZER BLADE

The upper reinforced framed part ensures greater impact resistance; the dozer blade contact to the ground was increased.

POSITION OF THE ARM

The asymmetric position of the arm compared to the fifth wheel, increases operator's digging visibility.



WORKING LIGHT UNDER THE BOOM (V4 ONLY)

ROBUST UNDERCARRIAGE

The "Tough Tracks" rubber shoes are available std to make the undercarriage and rollers more robust.

Steel Shoe available optional

TRAVELLING AND ROTATION GEAR MOTORS

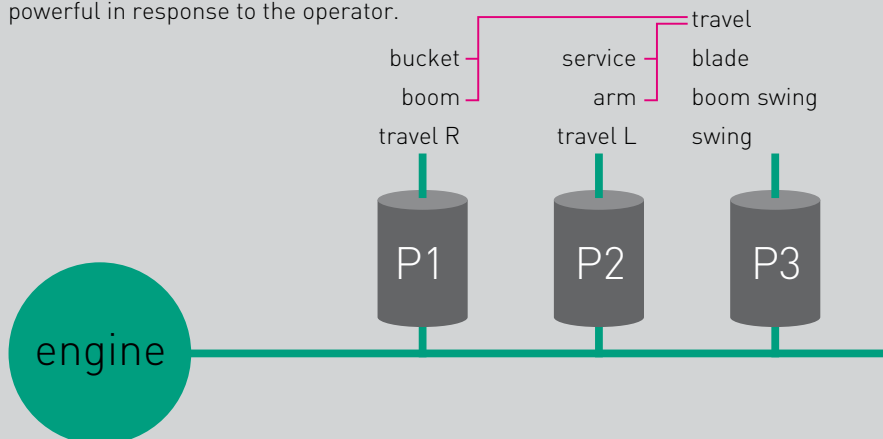
The travelling gear motors have an integrated disc brake which locks the track when it is on the edge of the digging or on a slope.

HIGH DIGGING POWER AND QUICK RESPONSE

3 pumps are used for independent operations of the boom, arm and swing.

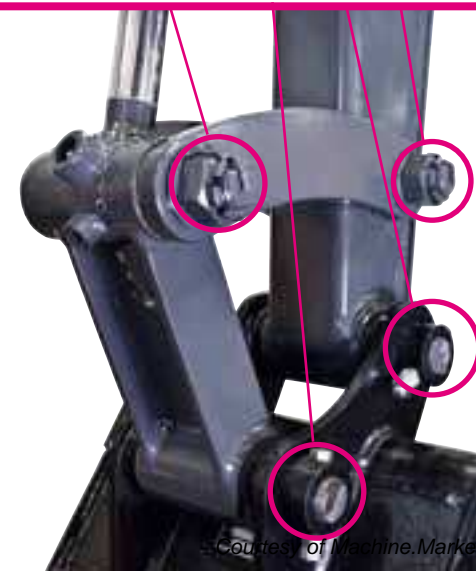
(P1 & P2 are of variable type)

The operations are agile, fast and powerful in response to the operator.



EASY TO ADJUST CASTLE NUT FOR ARM-END

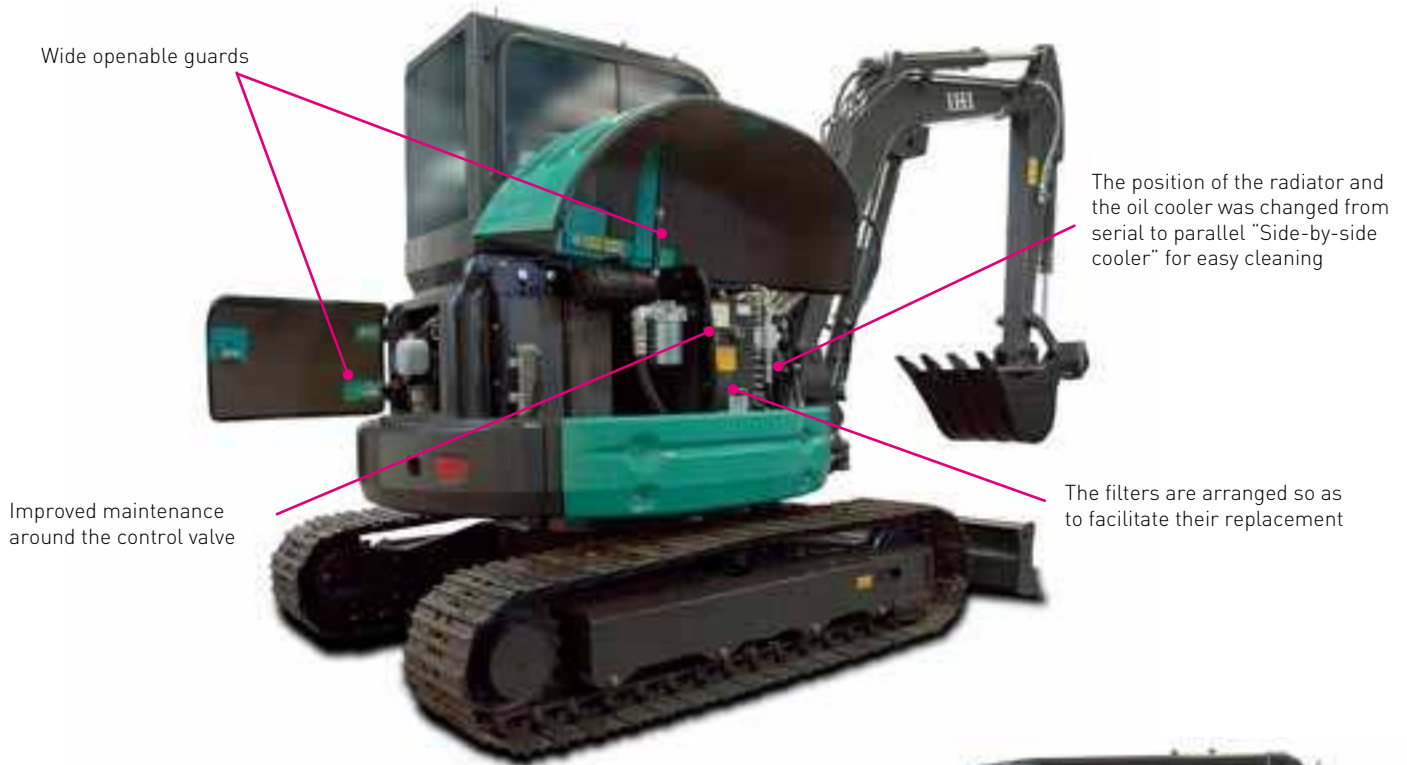
The arm bushing has a new design for a longer lifetime.



LOWER MAINTENANCE COSTS

TOTAL ACCESSIBILITY (V4 ONLY)

Large covers allow access to the engine and distributor, filters and radiator for inspection and maintenance. All the maintenance points are concentrated under the lateral cover such as hydraulic oil, radiator fluid level and supply and battery inspection. Models of the V4 series are equipped with an additional radiator for cooling the hydraulic oil, so as to prevent overheating due to continuous work and bleed valve and water sedimentation filter.



A ENGINE STARTER SWITCH

B THROTTLE DIAL

C AUTO-IDLER (from 30V4 to 85V4)

The Auto-Idler function is equipped as standard.

The engine rpm is reduced to a minimum after a few seconds of machine inactivity. When any lever is actuated, the engine rpm returns to the preset idle speed.

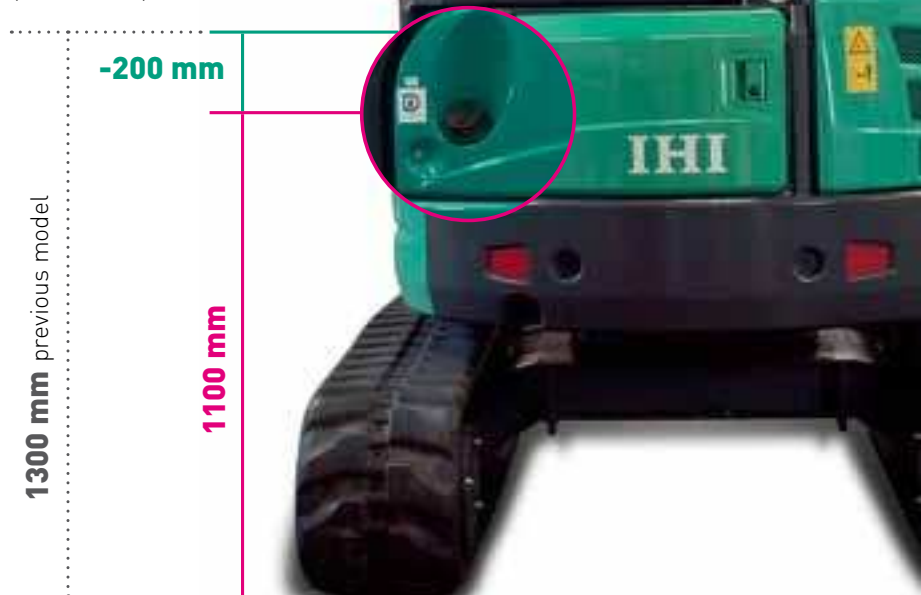
D LIGHTS SWITCH

E ECO MODE (from 30V4 to 85V4)

Switch for energy saving Eco-mode.



EASY REFUELLING (V4 ONLY)



V4 30

Technical innovation and force

Thanks to the rear frame that turns inside the track gauge, it is possible to perform digging and loading operations in total safety near to walls or in confined spaces.
Yanmar 3TNV88 engine. Bucket digging force of 29.1 kN.

Front turning
radius:
2080 mm
Rear turning
radius:
775 mm



HIGH CAPACITY TANK
The tank with a capacity of as much as 42 litres ensures excellent operating and productive autonomy



REMOVABLE COUNTERWEIGHT

The 30V4 can be provided in optional version with a removable counterweight (200 Kg). The counterweight and the length of the tracks give the machine more stability in every working situation.



YANMAR 3TNV88, 23.4 HP

Compact, small, light and simple. High efficiency of power and torque, low fuel and oil consumption, fuel pollution emissions reduced to a minimum, easy maintenance with lower production and operation costs. It complies with the regulations in force concerning pollutants emissions.



EASY SKIMMING WORK

The closer distance between bucket teeth and dozer blade makes it easier to smooth the ground.



OPERATION IN CONFINED SPACES

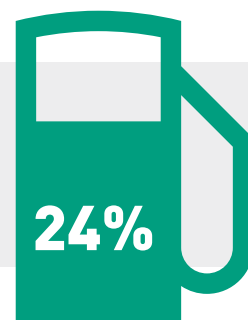
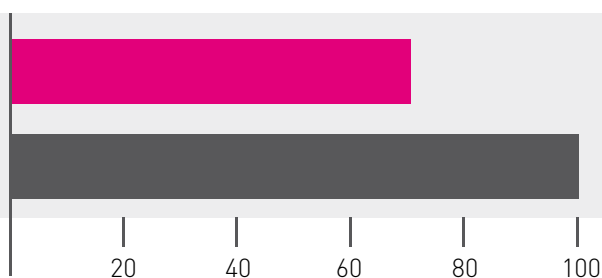
Width reduced to 1550 mm, this machine is ideal for use in confined spaces. Digging flush with a wall is extremely easy. In 30V4 large pins and new bushings, allow long greasing intervals together with increased durability.

VERSIONS AVAILABLE: CANOPY AND CABIN

The 30V4 is available both with a 4 posts canopy and with a cabin, and is certified TOPS against tipping over, ROPS against rolling over and FOPS against falling objects. The cabin is very comfortable, with plenty of space inside, large windows, removable windscreen with opening handily located under the roof, sliding side window and a highly effective heating system. Great working visibility is ensured as the structure produces no blind corners. The cabin door provides easy access to the driving seat also thanks to the handles.

LOW FUEL CONSUMPTION

30V4
previous model



SAVING

TECHNICAL DATA

Engine	Yanmar 3TNV88
N° cylinders/displacement	3 / 1642 cc direct injection
Rated output	23.4 HP at 2200 rpm (17.5 kW / 2200 min ⁻¹)
Machine weight with rubber shoe	3030 / 3180 kg (canopy / cabin)
Operating weight with rubber shoe	3105 / 3255 kg (canopy / cabin)
Max. digging depth	2700 / 3000 mm (with long arm)
Front turning radius	2080 / 2110 mm (with long arm)
Bucket digging force	2970 kgf
Standard bucket width	550 mm
Standard bucket capacity	0.09 m ³

V4 35

Performance and stability

The frame turning within the clearance of the tracks and the variable gauge undercarriage facilitate digging and loading also close to walls. Yanmar 3TNV88 engine. The 1550-1800 mm variable gauge undercarriage, unique in its category, significantly increases the stability during side digging, allowing to work under particularly difficult conditions. Bucket digging force of 29.1 kN.



Front turning
radius:
2160 mm
Rear turning
radius:
865 mm

HIGH CAPACITY TANK
The tank with a capacity of as much as 42 litres ensures excellent operating and productive autonomy



EASY SKIMMING WORK

The closer distance between bucket teeth and dozer blade makes it easier to smooth the ground.

COMPACT SIZE

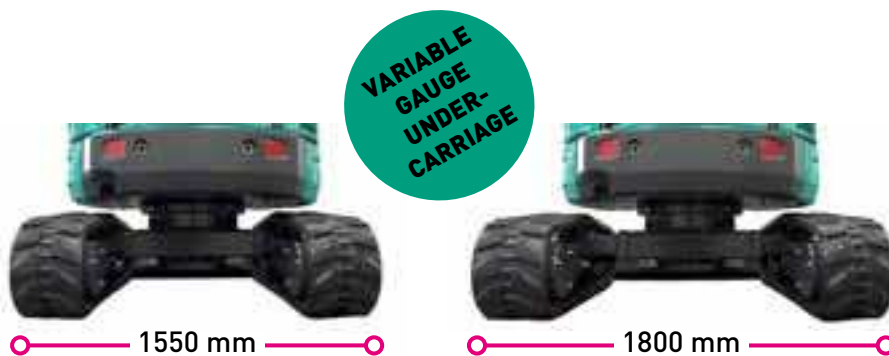
Digging flush with a wall is extremely easy. The 35V4 has a 1550 - 1800 mm width variable gauge undercarriage.

YANMAR 3TNV88, 23.4 HP

Compact, small, light and simple. High efficiency of power and torque, low fuel and oil consumption, fuel pollution emissions reduced to a minimum, easy maintenance with lower production and operation costs. It complies with the regulations in force concerning pollutants emissions.

SWING MOTORS

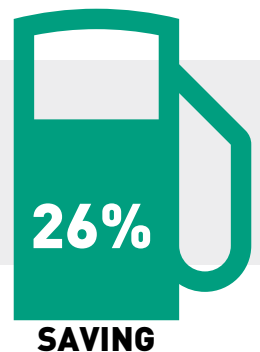
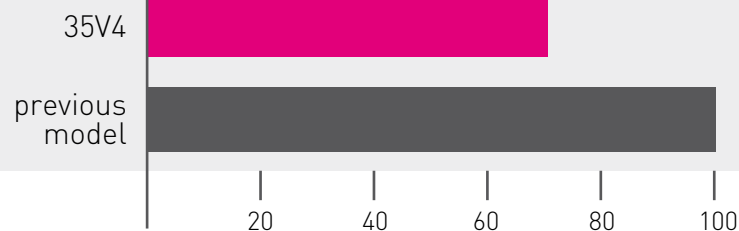
The 35V4 is equipped with a rotation swing motor with a multiple disc brake and shock-absorbing valves for progressive starting and stopping without any recoil.



VARIABLE GAUGE UNDERCARRIAGE

Thanks to the 1550 - 1800 mm variable gauge undercarriage, the 35V4 considerably increases stability during side digging and lifting operations or on particularly uneven ground.

LOW FUEL CONSUMPTION



TECHNICAL DATA

Engine	Yanmar 3TNV88
N° cylinders/displacement	3 / 1642 cc direct injection
Rated output	23.5 HP at 2200 rpm (17.5 kW / 2200 min ⁻¹)
Machine weight with rubber shoe	3450 / 3600 kg (canopy / cabin)
Operating weight with rubber shoe	3525 / 3675 kg (canopy / cabin)
Max. digging depth	3080 / 3380 mm (with long arm)
Front turning radius	2160 / 2200 mm (with long arm)
Bucket digging force	2970 kgf
Standard bucket width	600 mm
Standard bucket capacity	0.11 m ³

V4/45

Maximum performance

Digging and loading operations also near to walls or in confined spaces thanks to the frame that turns inside the track gauge. KUBOTA V2403-DI-EDM engine. Bucket digging force 31.0 kN. The slewing speed of 9.3 revolutions/min enables excellent performance at work.

Front turning
radius:
2320 mm
Rear turning
radius:
995 mm

HIGH CAPACITY TANK

The tank with a capacity of as much as 66 litres ensures excellent operating and productive autonomy





REMOVABLE COUNTERWEIGHT

The 45V4 can be provided in optional version with a counterweight (290 Kg). The counterweight and the greater length of the tracks give the machine more stability in every working situation.



COMPACT SIZE

Machine width reduced to 1990 mm. This machine is ideal for use in confined spaces which would be off-limits for other excavators. Digging flush with a wall is extremely easy.



LESS MAINTENANCE AND LONGER LIFE

The application of large pins and new bushings means longer lubrication intervals and increased durability.



KUBOTA V2403-DI-EDM, 43.5 HP

High efficiency of power and torque, low fuel and oil consumption, fuel pollution emissions reduced to a minimum, easy maintenance with lower production and operation costs. It complies with the regulations in force concerning pollutants emissions.

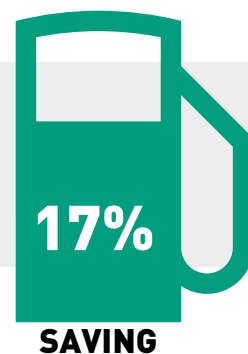
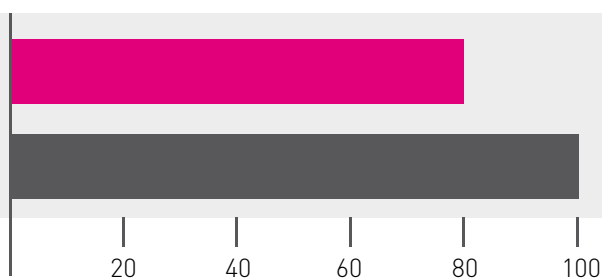


EASY SKIMMING WORK

The closer distance between bucket teeth and dozer blade makes it easier to smooth the ground.

LOW FUEL CONSUMPTION

45V4
previous model



TECHNICAL DATA

Engine	Kubota V2403-DI-EDM
N° cylinders/displacement	4 / 2434 cc direct injection
Rated output	43.5 HP at 2400 rpm [32.4 kW / 2400 min ⁻¹]
Machine weight with cabin	4780 / 4820 kg (rubber shoe / steel shoe)
Operating weight with cabin	4855 / 4895 kg (rubber shoe / steel shoe)
Max. digging depth	3340 / 3590 mm (with long arm)
Front turning radius	2320 / 2420 mm (with long arm)
Bucket digging force	3160 kgf
Standard bucket width	600 mm
Standard bucket capacity	0.14 m ³

V455

Accessibility and reliability

High performance, maximum reliability and operational safety.

Accessibility and easy maintenance. Operation in confined spaces thanks to the rear frame that turns within the track clearance. KUBOTA V2403-DI-EDM engine.

Bucket digging force 31.0 kN. The slewing speed of 9.3 revolutions/min enables higher performance at work.

Front turning
radius:

2420 mm

Rear turning
radius:

1090 mm

HIGH CAPACITY TANK

The tank with a capacity of as much as 66 litres ensures excellent operating and productive autonomy





COUNTERWEIGHT

The 55V4 is provided as std. with a counterweight. The counterweight and the greater length of the tracks give the machine more stability in every working situation.

KUBOTA V2403-DI-EDM, 43.5 HP

High efficiency of power and torque, low fuel and oil consumption, fuel pollution emissions reduced to a minimum, easy maintenance with lower production and operation costs. It complies with the regulations in force concerning pollutants emissions.



ASYMMETRIC ARM AND MINIMUM TOTAL TURNING RADIUS

The asymmetric position of the arm compared to the fifth wheel, increases operator's digging visibility.

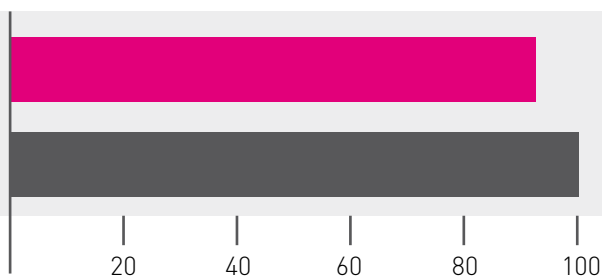


EASY SKIMMING WORK

The closer distance between bucket teeth and dozer blade makes it easier to smooth the ground.

LOW FUEL CONSUMPTION

55V4
previous model



SAVING

TECHNICAL DATA

Engine	Kubota V2403-DI-EDM
N° cylinders/displacement	4 / 2434 cc direct injection
Rated output	43.5 HP at 2400 rpm [32.4 kW / 2400 min ⁻¹]
Machine weight with cabin	5140 / 5180 kg (rubber shoe / steel shoe)
Operating weight with cabin	5575 / 5625 kg (rubber shoe / steel shoe)
Max. digging depth	3590 / 3830 mm (with long arm)
Front turning radius	2420 / 2460 mm (with long arm)
Bucket digging force	3160 kgf
Standard bucket width	650 mm
Standard bucket capacity	0.16 m ³

N455

Top of the range performance

The YANMAR 4TNV98C-PIK high-power engine, combined with a hydraulic system featuring variable displacement pumps, offers top-of-the-range performance. Bucket digging force of 36.3 kN translates into maximum digging capability, even on particularly compacted ground.

Front turning
radius:
2420 mm
Rear turning
radius:
1710 mm



HIGH CAPACITY TANK
The tank with a capacity of as much as 95 litres ensures excellent operating and productive autonomy



TOPS, ROPS AND FOPS CERTIFICATION

The 55N4 is certified TOPS against tipping over, ROPS against rolling over and FOPS against falling objects. The cabin is very comfortable, with plenty of space inside, large windows, removable windscreen with opening handily located under the roof, sliding side window and a highly effective heating system. Great working visibility is ensured as the structure produces no blind corners. The cabin door provides easy access to the driving seat also thanks to the handles.

INSTRUMENTATION DESIGNED FOR THE OPERATOR



LESS MAINTENANCE AND LONGER LIFE

The application of large pins and new bushings means longer lubrication intervals and increased durability.



YANMAR 4TNV98C-PIK, 64.7 HP

High efficiency of power and torque, low fuel and oil consumption, fuel pollution emissions reduced to a minimum, easy maintenance with lower production and operation costs. It complies with the regulations in force concerning pollutants emissions.



EASY SKIMMING WORK

The closer distance between bucket teeth and dozer blade makes it easier to smooth the ground.



TECHNICAL DATA

Engine	Yanmar 4TNV98C-PIK
N° cylinders/displacement	4/3318 cc direct injection
Rated output	64.7 HP at 2400 rpm (47.6 kW/2400 min ⁻¹)
Machine weight with cabin	5500/5550 kg (rubber shoe / steel shoe)
Operating weight with cabin	5575/5625 kg (rubber shoe / steel shoe)
Max. digging depth	3850/4100 mm (with long arm)
Front turning radius	2420/2400 mm (with long arm)
Bucket digging force	3700 kgf
Standard bucket width	685 mm
Standard bucket capacity	0.18 m ³

V4 60

Maximum operating capability

The high-power engine, combined with a hydraulic system featuring variable displacement pumps, allows top-of-the-range performance. A bucket digging force of 41.2 kN translates into maximum digging capability, even on particularly compacted ground.



HIGH CAPACITY TANK
The tank with a capacity of as much as 66 litres ensures excellent operating and productive autonomy

Front turning
radius:
2450 mm
Rear turning
radius:
1120 mm

MINI-EXCAVATOR 3.0-8.5 tons
Courtesy of Machine.Market



EASY SKIMMING WORK

The closer distance between bucket teeth and dozer blade makes it easier to smooth the ground.



3 pumps are used for independent operations of the boom, arm and swing.

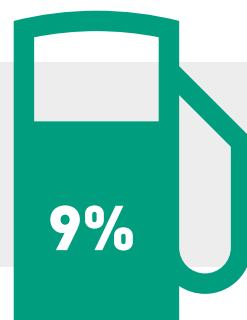
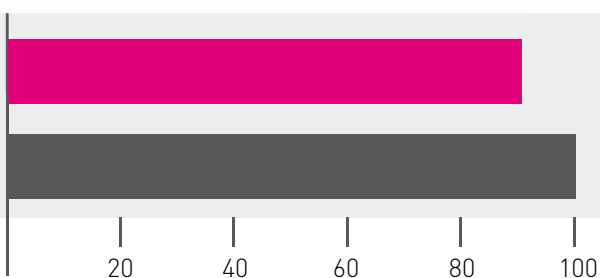


KUBOTA V2403-DI-EDM, 43.5 HP

High efficiency of power and torque, low fuel and oil consumption, fuel pollution emissions reduced to a minimum, easy maintenance with lower production and operation costs. It complies with the regulations in force concerning pollutants emissions.

LOW FUEL CONSUMPTION

60V4
previous model



SAVING

TECHNICAL DATA

Engine	Kubota V2403-DI-EDM
N° cylinders/displacement	4 / 2434 cc direct injection
Rated output	43.5 HP at 2400 rpm [32.4 kW / 2400 min ⁻¹]
Machine weight with cabin	5500 / 5540 kg (rubber shoe / steel shoe)
Operating weight with cabin	5575 / 5615 kg (rubber shoe / steel shoe)
Max. digging depth	3800 / 4040 mm (with long arm)
Front turning radius	2450 / 2470 mm (with long arm)
Bucket digging force	4200 kgf
Standard bucket width	700 mm
Standard bucket capacity	0.18 m ³

V4 85

Maximum performances in confined spaces

The midi-excavator 85V4 is synonymous with power and stability.

Thanks to the rear frame, it is possible to dig and load in complete safety even close to walls or places with little room available. The speed of rotation of 9 rpm combined with a bucket digging force of 55 kN enable optimum performance during work.



Front turning
radius:
2640 mm
Rear turning
radius:
1450 mm

HIGH CAPACITY TANK
The tank with a capacity
of as much as 110 litres
ensures excellent
operating and productive
autonomy



COUNTERWEIGHT

The 85V4 is provided as std. with a counterweight. The counterweight and the greater length of the tracks give the machine more stability in every working situation.



YANMAR 4TNV98C, 58.1 HP

High efficiency of power and torque, low fuel and oil consumption, fuel pollution emissions reduced to a minimum, easy maintenance with lower production and operation costs. It complies with the regulations in force concerning pollutants emissions.



POWER AND STABILITY The top of the V4 series

TECHNICAL DATA

Engine	Yanmar 4TNV98C
N° cylinders/displacement	4/3318 cc direct injection
Rated output	58.1 HP at 2100 rpm (42.7 kW/2100 min ⁻¹)
Machine weight with cabin	8100/8150 kg (rubber shoe / steel shoe)
Operating weight with cabin	8175/8225 kg (rubber shoe / steel shoe)
Max. digging depth	4020/4320 mm (with long arm)
Front turning radius	2640/2720 mm (with long arm)
Bucket digging force	5610 kgf
Standard bucket width	760 mm
Standard bucket capacity	0.25 m ³

features

30V4

35V4

45V4

GENERAL SPECIFICATIONS

Standard bucket capacity (ISO)	0.09 m ³	0.11 m ³	0.14m ³
Standard bucket width	550 mm	600 mm	600 mm
Machine weight RS/SS* Canopy	3030/3080 kg	3450/3500 kg	4630/4670 kg
Machine weight RS/SS* Cabin	3180/3230 kg	3600/3650 kg	4780/4820 kg
Operating weight RS/SS* Canopy	3105/3155 kg	3525/3575 kg	4705/4745 kg
Operating weight RS/SS* Cabin	3255/3305 kg	3675/3725 kg	4855/4895 kg
Counterweight weight	200 kg (additional)	-	290 kg (additional)
Transport dimensions	4440 x 1550 x 2480 mm	4750 x 1550 x 2470 mm	5280 x 1990 x 2570 mm
Gradeability	30°	30°	30°
Ground contact pressure (Cabin)	29.0 kPa (0.30 kgf/cm ²)	31.0 kPa (0.32 kgf/cm ²)	28.0 kPa (0.29 kgf/cm ²)
Minimum ground clearance	310 mm	255 mm	320 mm

* RS/SS Rubber Shoe/Steel Shoe

ENGINE

Model	Yanmar 3TNV88	Yanmar 3TNV88	Kubota V2403-DI-EDM
N° cylinders and displacement	3/1642 cc direct injection	3/1642 cc direct injection	4/2434 cc direct injection
Bore for stroke	88 x 90 mm	88 x 90 mm	87 x 102.4 mm
Rated output (ISO 1585)	23.4 HP/2200 rpm (17.5 kW / 2200 min ⁻¹)	23.4 HP/2200 rpm (17.5 kW/2200 min ⁻¹)	43.5 HP/2400 rpm (32.4 kW/2400 min ⁻¹)
Fuel consumption	238 g/kWh	238 g/kWh	252 g/kWh
Engine oil pan capacity	6.7 lt (Maximum level)	6.7 lt (Maximum level)	9.7 lt (Maximum level)

ELECTRICAL SYSTEM

Voltage	12 V	12 V	12 V
Battery	12 V - 55 Ah	12 V - 55 Ah	12 V - 92 Ah
Alternator	12 V - 40 A	12 V - 40 A	12 V - 40 A
Starter motor	12 V - 1.7 kW	12 V - 1.7 kW	12 V - 2.0 kW

HYDRAULIC SYSTEM

Pumps maximum flow rate	37.4 lt/min x 2 + 23.1 lt/min	37.4 lt/min x 2 + 23.1 lt/min	60 lt/min x 2 + 44.2 lt/min
Max Pressure / Setting	24.5 Mpa (250 kgf/cm ²)	24.5 Mpa (250 kgf/cm ²)	24.5 Mpa (250 kgf/cm ²)
Control	hydraulic remote control	hydraulic remote control	hydraulic remote control

DOUBLE ACTION HYDRAULIC CIRCUIT FOR ACCESSORIES

Maximum flow rate	60.0 lt/min	60.0 lt/min	104.0 lt/min
Max. setting pressure	20.6 Mpa (210 kgf/cm ²)	20.6 Mpa (210 kgf/cm ²)	20.6 Mpa (210 kgf/cm ²)

END-OF-STROKE CUSHIONING

boom cylinder	rod fully extended	rod fully extended	rod fully extended
arm cylinder	rod fully retracted	rod fully retracted	rod fully retracted

SLEWING SYSTEM

Slewing speed	9 min ⁻¹	9 min ⁻¹	9.3 min ⁻¹
Upper structure braking	automatic multi-disc brake	automatic multi-disc brake	automatic multi-disc brake

BUCKET PERFORMANCE

Max bucket digging force (ISO 6015)	29.1 kN (2970 kgf)	29.1 kN (2970 kgf)	31 kN (3160 kgf)
Max arm digging force (ISO 6015)	18.1 kN (1850 kgf)	17.1 kN (1743 kgf)	24.2 kN (2470 kgf)

LOWER FRAME

Undercarriage length	2100 mm	2260 mm	2490 mm
Tracks width	300 mm	300 mm	400 mm
Lower/upper rollers	4/1	4/1	4/1
Track tension	tension spring and grease cylinder	tension spring and grease cylinder	tension spring and grease cylinder
Blade dimensions (width x height)	1550 mm x 380 mm	1550 mm x 380 mm	1990 mm x 385 mm
Lift above ground	375 mm	385 mm	460 mm
Drop below ground	440 mm	430 mm	430 mm

TRAVEL SYSTEM

Travel speed (1st/ 2nd)	2.7/4.7 km/h	2.7/4.7 km/h	2.9/4.6 km/h
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CAPACITY

Fuel Tank Capacity	42 lt	42 lt	66 lt
Hydraulic reservoir capacity	33 lt	33 lt	56 lt
Hydraulic circuit total capacity	50 lt	50 lt	75 lt
Engine coolant	4.5 lt	4.5 lt	10.1 lt

ARM SWING SYSTEM

Right swing angle	80°	80°	80°
Left swing angle	50°	50°	50°

OTHER DATA

Sound power level LWA (2000/14/EC)	94 dBA	94 dBA	97 dBA
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55V4

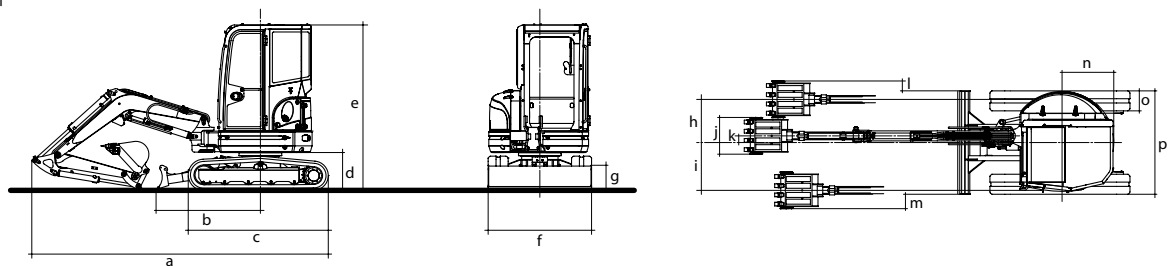
55N4

60V4

85V4

0.16 m ³	0.18 m ³	0.18 m ³	0.25 m ³
650 mm	685 mm	700 mm	760 mm
4990/5030 kg	-	5350/5390 kg	-
5140/5180 kg	5500/5550 kg	5500/5540 kg	8100/8150 kg
5065/5105 kg	-	5425/5465 kg	-
5215/5255 kg	5575/5625 kg	5575/5615 kg	8175/8225 kg
-	-	-	340 kg
5370 x 1990 x 2570 mm	5860 x 2000 x 2570 mm	5520 x 1990 x 2570 mm	6050 x 2200 x 2630 mm
30°	30°	30°	30°
30.0 kPa (0.31 kgf/cm ²)	33.0 kPa (0.34 kgf/cm ²)	32.0 kPa (0.33 kgf/cm ²)	41.0 kPa (0.42 kgf/cm ²)
320 mm	340 mm	320 mm	350 mm
Kubota V2403-DI-EDM	Yanmar 4TNV98C-PIK	Kubota V2403-DI-EDM	Yanmar 4TNV98C
4/2434 cc direct injection	4/3318 cc direct injection	4/2434 cc direct injection	4/3318 cc direct injection
87 x 102.4 mm	98 x 110 mm	87 x 102.4 mm	98 x 110 mm
43.5 HP/2400 rpm (32.4 kW/2400 min ⁻¹)	64.7 HP/2400 rpm (47.6 kW/2400 min ⁻¹)	43.5 HP/2400 rpm (32.4 kW/2400 min ⁻¹)	58.1 HP/2100 rpm (42.7 kW/2100 min ⁻¹)
252 g/kWh	235 g/kWh	252 g/kWh	236 g/kWh
9.7 lt (Maximum level)	11.2 lt (Maximum level)	9.7 lt (Maximum level)	10.2 lt (Maximum level)
12 V	12 V	12 V	12 V
12 V - 92 Ah	12 V - 72 Ah	12 V - 92 Ah	12 V - 72 Ah
12 V - 40 A	12 V - 55 A	12 V - 40 A	12 V - 40 A
12 V - 2.0 kW	12 V - 3.0 kW	12 V - 2.0 kW	12 V - 3.0 kW
60 lt/min x 2 + 44.2 lt/min	64.6 lt/min x 2 + 46.1 lt/min	60 lt/min x 2 + 44.2 lt/min	75.6 lt/min x 2 + 54.2 lt/min
24.5 Mpa (250 kgf/cm ²)	20.6 Mpa (210 kgf/cm ²)	24.5 Mpa (250 kgf/cm ²)	24.5 Mpa (250 kgf/cm ²)
hydraulic remote control	hydraulic remote control	hydraulic remote control	hydraulic remote control
104.0 lt/min	110.7 lt/min	104.0 lt/min	129.8 lt/min
20.6 Mpa (210 kgf/cm ²)	20.6 Mpa (210 kgf/cm ²)	20.6 Mpa (210 kgf/cm ²)	21.6 Mpa (220 kgf/cm ²)
rod fully extended	rod fully extended	rod fully extended	rod fully extended
rod fully retracted	rod fully retracted	rod fully retracted	rod fully retracted
9.3 min ⁻¹	9.0 min ⁻¹	9.3 min ⁻¹	9.0 min ⁻¹
automatic multi-disc brake	automatic multi-disc brake	automatic multi-disc brake	automatic multi-disc brake
31 kN (3160 kgf)	36.3 kN (3700 kgf)	41.2 kN (4200 kgf)	55.0 kN (5610 kgf)
21.7 kN (2210 kgf)	22.7 kN (2320 kgf)	24.0 kN (2450 kgf)	39.0 kN (3980 kgf)
2490 mm	2500 mm	2490 mm	2730 mm
400 mm	400 mm	400 mm	450 mm
4/1	5/1	4/1	5/1
tension spring and grease cylinder	tension spring and grease cylinder	tension spring and grease cylinder	tension spring and grease cylinder
1990 mm x 385 mm	2000 mm x 360 mm	1990 mm x 385 mm	2200 mm x 500 mm
460 mm	350 mm	460 mm	420 mm
430 mm	420 mm	430 mm	440 mm
2.9/4.6 km/h	2.6/4.6 km/h	2.9/4.6 km/h	2.5/4.4 km/h
66 lt	95 lt	66 lt	110 lt
56 lt	70 lt	56 lt	75 lt
75 lt	110 lt	75 lt	125 lt
10.1 lt	11 lt	10.1 lt	11 lt
80°	90°	80°	80°
50°	50°	50°	50°
97 dBA	98 dBA	97 dBA	98 dBA

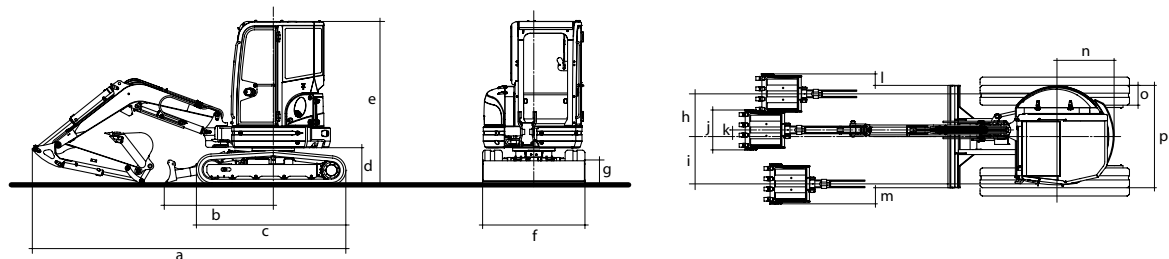
30V4



DIMENSIONS (mm)

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p
4440	1560	2100	570	2480	1550	380	650	720	550	100	150	220	775	300	1550

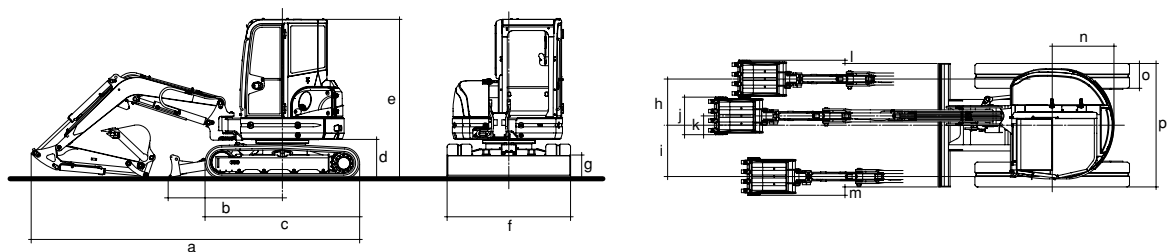
35V4



DIMENSIONS (mm)

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p
4750	1650	2260	560	2470	1550	380	650	720	600	100	175	245	865	300	1550-1800

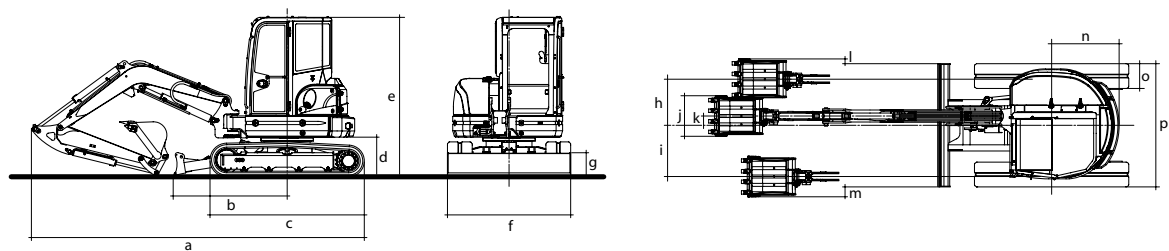
45V4



DIMENSIONS (mm)

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p
5280	1840	2490	640	2570	1990	385	750	830	600	150	55	135	995	400	1990

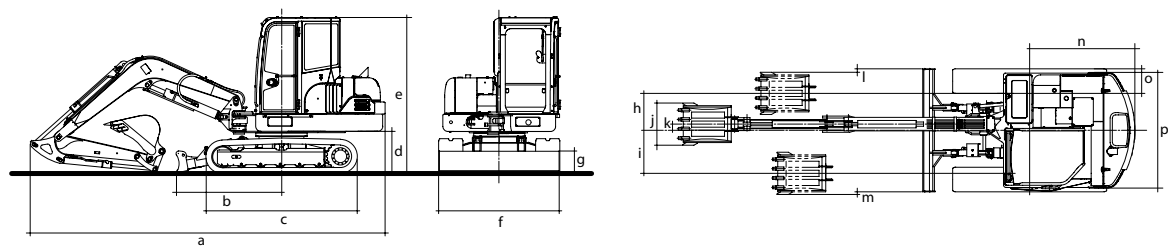
55V4



DIMENSIONS (mm)

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p
5370	1840	2490	640	2570	1990	385	750	830	650	150	80	160	1090	400	1990

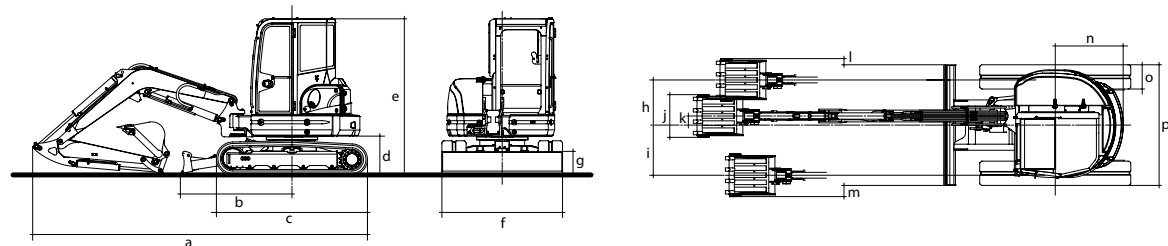
55N4



DIMENSIONS (mm)

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p
5860	1740	2500	695	2570	2000	360	600	700	685	100	60	45	1710	400	2000

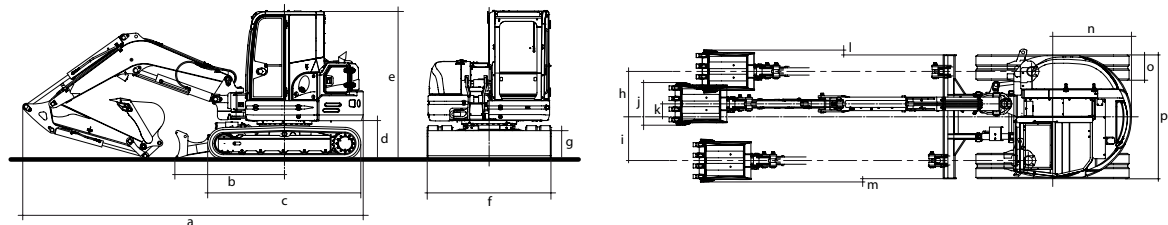
60V4



DIMENSIONS (mm)

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p
5520	1840	2490	640	2570	1990	385	750	830	700	150	105	185	1120	400	1990

85V4



DIMENSIONS (mm)

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p
6050	1950	2730	690	2630	2200	500	810	780	760	230	90	60	1450	450	2200

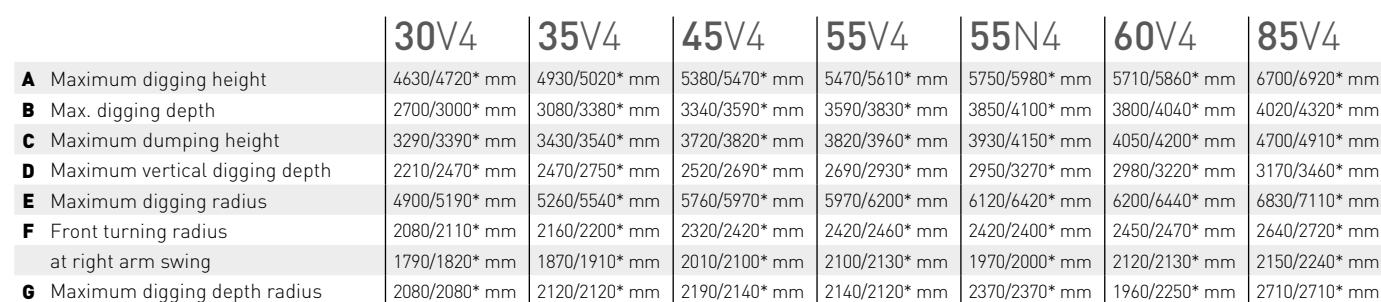


equipment

	30V4	35V4	45V4	55V4	55N4	60V4	85V4
SUPPORT FRAME							
Rubber shoe (width mm)	300	300	400	400	400	400	450
Attachment points for lifting-anchoring-towing and lubrication of the swing cylinder foot	std	std	std	std	std	std	std
Variable gauge undercarriage (mm) - Backfill blade with extensions	-	1550-1800	-	-	-	-	-
Steel shoe (width mm)	300 opt	300 opt	400 opt	400 opt	400	400 opt	450
ENGINE							
Two-phase dry air filter with visual clogging indicator	std	std	std	std	std	std	std
Electric pre-heating device	std	std	std	std	std	std	std
Fuel water separator	std	std	std	std	std	std	std
Fuel tank with drain plug	plastic material	plastic material	plastic material	plastic material	steel	plastic material	plastic material
Engine speed adjustment	std	std	std	std	std	std	std
Auto-Idle and Eco-Mode (fuel consumption reduction)	std	std	std	std	opt	std	std
ELECTRICAL SYSTEM							
12V battery with fuse box	std	std	std	std	std	std	std
DRIVING SEAT							
Longitudinal adjustment bucket seat, vinyl covering	std	std	std	std	std	std	std
Fabric seat	opt	opt	opt	opt	opt	opt	opt
Non-slip rubber mat	std	std	std	std	std	std	std
Wrist support	std	std	std	std	std	std	std
Seatbelt	with reel	with reel	with reel	with reel	with reel	with reel	with reel
High speed control	std	std	std	std	std	std	std
Travel control pedals	std	std	std	std	std	std	std
EQUIPMENT AND MONITORING DEVICES							
Worklight switch; auxiliary system control	std	std	std	std	std	std	std
Aux. system proportional control switch on joystick	std	std	std	std	std	std	std
Water temperature control instrument	analogue	analogue	analogue	analogue	analogue	analogue	analogue
Fuel level control instrument	analogue	analogue	analogue	analogue	analogue	analogue	analogue
Hour meter	std	std	std	std	std	std	std
Warning light for: preheating, engine oil pressure, battery charge, water temperature	std	std	std	std	std	std	std
High speed indicator light	std	std	std	std	std	std	std
Engine alarm device in case of overheating or low oil pressure	std	std	std	std	std	std	std
CANOPY VERSION							
FOPS protection against falling objects	std	std	std	std	std	std	std
TOPS and ROPS protection against tipping and rolling	std	std	std	std	std	std	std
CABIN VERSION							
TOPS / ROPS protection against tipping / rolling	std	std	std	std	std	std	std
FOPS protection against falling objects	opt	opt	opt	opt	opt	opt	opt
Heating with fan	std	std	std	std	std	std	std
Front sliding window under the roof	std	std	std	std	std	std	std
Removable lower front window	std	std	std	std	std	std	std
Right-hand side sliding window	std	std	std	std	std	std	std
Grab handles and "full wide" door handle to facilitate closing from the inside	std	std	std	std	std	std	std
Radio pre-arrangement	std	std	std	std	std	std	std
Windscreen wiper and washer on front window	std	std	std	std	std	std	std
Rearview mirrors (right and left) kit for cabin	opt	opt	opt	opt	opt	opt	opt
Back-up alarm	opt	opt	opt	opt	opt	opt	opt
HYDRAULIC SYSTEM							
ISO assisted hydraulic controls	std	std	std	std	std	std	std
Pump gear / variable flow rate (std)	std	std	std	std	std	std	std
Hydraulic arm swing control	pedal	pedal	pedal	pedal	pedal	pedal	pedal
Track adjustment control	-	std	-	-	-	-	-
Worklight positioned centrally on the boom	std	std	std	std	left side	std	std
DIGGING AND MOVING EQUIPMENT							
Boom (length mm)	2250	2450	2700	2700	3000	2900	3150
Arm (length mm)	1200	1280	1350	1600	1550	1600	1780
Long arm	+300mm (opt)	+300mm (opt)	+250mm (opt)	+250mm (opt)	+300mm (opt)	+250mm (opt)	+300mm (opt)
Arm hydraulic swinging angle	140°	140°	140°	140°	140°	140°	130°
Limit shock absorber on boom cylinder	std	std	std	std	std	std	std
Limit shock absorber on arm cylinder	std	std	std	std	std	std	std
Rapid attachment of mechanical accessories	opt	opt	opt	opt	opt	opt	opt
Bucket in various dimensions	opt	opt	opt	opt	opt	opt	opt
Loads handling device	opt	opt	opt	opt	opt	opt	opt
HYDRAULIC CIRCUITS FOR ACCESSORIES							
Hydraulic circuit for hammer with direct return to tank for double-acting accessories	std	std	std	std	std	std	std
Second hydraulic circuit for double-acting accessories	opt	opt	opt	opt	opt	opt	opt
Third hydraulic circuit for double-acting accessories	opt	opt	opt	opt	opt	opt	opt
SAFETY AND COMFORT							
Operating and travel controls lock out to enable the operator to exit	std	std	std	std	std	std	std
Manual lock for the operating and travel controls	std	std	std	std	std	std	std
Diesel tank cap with lock and mesh filter	std	std	std	std	std	std	std
Glass breaker hammer in the cabin	std	std	std	std	std	std	std
Turret lock automatic brake	std	std	std	std	std	std	std
Boom cylinder anti-drift system	std	std	std	std	std	std	std
Horn	std	std	std	std	std	std	std
Air conditioning for the cabin	opt	opt	opt	opt	opt	opt	std
Rear internal balance weight	-	opt	-	-	-	-	-
Rear balance weight	opt	-	opt	std	-	-	std

the drawing is generic and is only for illustrative purposes

the drawing is generic and is only for illustrative purposes



* with long arm



3S means "Smart & Sustainable Skid" and is the mission of the Ihimer offer development for the next years. To the product reliability and quality is added, as a natural corollary, its integration into the socio-economic context in which it is called to work: mass dissemination of technology for a growing "man-machine" integration; need for substantial integration of the machines with the surrounding activities and communities (emissions reduction, economic and social sustainability). The 3S project will develop a response to this need in a modular way, not only meeting the emerging demand, but trying to guide and govern the future demand. This will be possible thanks to the collaboration with the University of Pisa, using the European Regional Development Fund under the Contract R&D2012 promoted by the Tuscany Region.

3S H2M is a Skid very easy to use. Intelligence at the service of human needs. Thanks to user recognition, the advanced Joystick and the 3S display it perfectly fits the users' needs.

3S M2M, a network of Skids. An effective detection system incorporated into the Skid provides a real-time overview: user, geographic location, Skid system. All these data are thereby made accessible through a simple console locally or remotely.

A dedicated software will synthesize data into information in order to provide maximum efficiency to the customer.

Optimization of energy and power generation and use, providing the user with the Skid maximum effectiveness in all working conditions.

Using the hybrid technology to generate power, to have a powerful Skid using the auxiliary power unit in the best working condition, in order to reduce noise, pollution and energy consumption.

The electric traction motor 3S will use energy in the best way to give the user maximum control increasing the Skid efficiency.



Courtesy of Machine Market



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