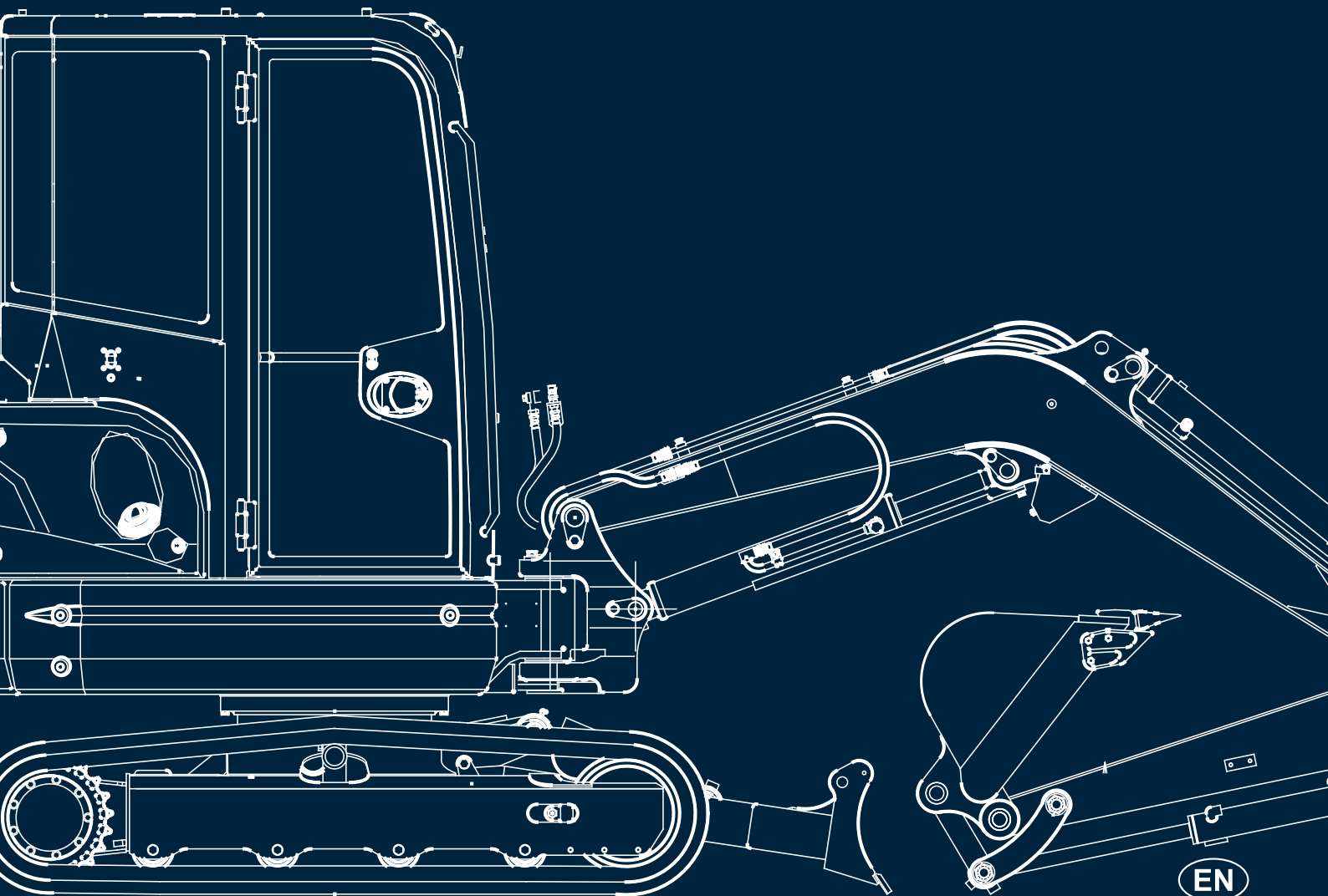


MINI-EXCAVATORS

3.5 / 5.5 TONS

35N4
55N4



DEVELOPMENT/CONCEPT

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 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.



THE NEW CABIN IS LARGER

*25% wider than the
previous model

CABIN AND INSTRUMENTS

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.

Cushioned bucket seat
Fabric seat
available as an optional



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

+20%
**SPACE FOR
THE LEGS**



MONITOR FOR EASY CONTROL

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



Ergonomic Joystick - 1st auxiliary system proportional control (std.)

All operations are controlled by a pivot valve for light operations.

The Joystick lever allows precise and proportional control. The switch on the right of the Joystick allows continuous control.

Electrical outlet
and lighter

Blade lever with
two-speed button

Monitor

3rd auxiliary system control (opt.)

The proportional auxiliary hydraulic system is controlled by the "roller" lever that simply allows light and precise manoeuvres; the switch on the left allows continuous operation.

The high seat gives greater operator comfort during digging operations (55N4).

2nd auxiliary system control (opt.)

Ergonomic joystick

Lock system It operates when the safety lever is raised: all operations are inhibited and the parking brake is engaged.

35N4

TOP OF THE RANGE PERFORMANCE

The YANMAR 3TNV88F high-power engine, combined with a hydraulic system featuring variable displacement pumps, offers top-of-the-range performance. Bucket digging force of 29.1 kN translates into maximum digging capability, even on particularly compacted ground.

FRONT TURNING
SPACE WITH TILT:
1990 MM
REAR TURNING
RADIUS:
1280 MM



MINI-EXCAVATORS 3.5 / 5.5 TONS



TOPS, ROPS AND FOPS CERTIFICATION

The 35N4 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 handle located under the roof, sliding side window and a highly effective heating system. 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 3TNV88F 16.8 KW

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 and blade makes it easier to smooth the ground.



TECHNICAL DATA

Engine	Yanmar 3TNV88F
No. cylinders/displacement	3 / 1642 cc direct injection
Rated output	16.8 kW / 2200 rpm
Machine weight with cabin	3440 / 3550 kg (rubber shoes / steel shoes)
Operating weight with cabin	3515 / 3625 kg (rubber shoes / steel shoes)
Max. digging depth	3080 / 3380 mm (with long arm)
Minimum front turning radius	1990 / 2030 mm (with long arm)
Bucket digging force	2970 kgf
Standard bucket width	600 mm
Standard bucket capacity	0.11 m ³

55N4

TOP OF THE RANGE PERFORMANCE

The YANMAR 4TNV98C 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
SPACE WITH TILT:
2420 MM
REAR TURNING
RADIUS:
1280 MM



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

MINI-EXCAVATORS 3.5 / 5.5 TONS



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 handle located under the roof, sliding side window and a highly effective heating system. 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 47.6 KW

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 and blade makes it easier to smooth the ground.



TECHNICAL DATA

Engine	Yanmar 4TNV98C-PIK
No. cylinders/displacement	4 / 3318 cc direct injection
Rated output	47.6 kW / 2400 rpm
Machine weight with cabin	5500 / 5550 kg (rubber shoes / steel shoes)
Operating weight with cabin	5575 / 5625 kg (rubber shoes / steel shoes)
Max. digging depth	3850 / 4100 mm (with long arm)
Minimum 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

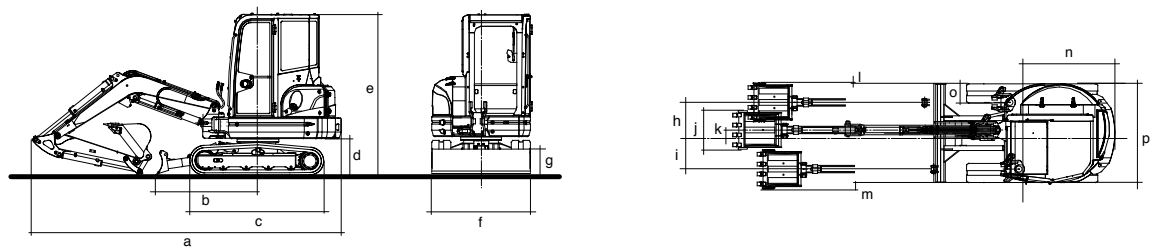
features

35N4

55N4

GENERAL SPECIFICATIONS		
Standard bucket capacity (ISO)	0.11 m ³	0.18 m ³
Standard bucket width	600 mm	685 mm
Machine weight CG/CF* Canopy	-	-
Machine weight CG/CF* Cabin	3440 / 3550 kg	5500 / 5550 kg
Operating weight CG/CF* Canopy	-	-
Operating weight CG/CF* Cabin	3515 / 3625 kg	5575 / 5625 kg
Counterweight weight	-	-
Transport dimensions	4760 x 1550 x 2470 mm	5860 x 2000 x 2570 mm
Gradeability	30°	30°
Ground contact pressure (Cabin)	32.0 kPa (0.33 kgf / cm ²)	33.0 kPa (0.34 kgf / cm ²)
Minimum ground clearance	305 mm	340 mm
*CG/CF Rubber Shoes/Steel Shoes		
ENGINE		
Model	Yanmar 3TNV88F	Yanmar 4TNV98C-PIK
No. cylinders and displacement	3 / 1642 cc direct injection	4 / 3318 cc direct injection
Bore for stroke	88 x 90 mm	98 x 110 mm
Rated output (ISO 1585)	16.2 kW / 2200 rpm	47.6 kW / 2400 rpm
Fuel consumption	238 g / kWh	235 g / kWh
Engine oil pan capacity	6.7 L (Maximum level)	11.2 L (Maximum level)
ELECTRICAL EQUIPMENT		
Electrical system	12 V	12 V
Battery	12 V - 55 Ah	12 V - 72 Ah
Alternator	12 V - 40 A	12 V - 55 A
Starter motor	12 V - 1.7 kW	12 V - 3.0 kW
HYDRAULIC SYSTEM		
Pumps maximum flow rate	37.4 L / min x 2 + 23.1 L / min	64.6 L / min x 2 + 46.1 L / min
Max Pressure/Setting	24.5 Mpa (250 kgf / cm ²)	20.6 Mpa (210 kgf / cm ²)
Control	servo-assisted hydraulic controls	servo-assisted hydraulic controls
DOUBLE ACTION HYDRAULIC CIRCUIT FOR ACCESSORIES		
Maximum flow rate	60 L / min	110.7 L / min
Max setting pressure	24.5 Mpa (250 kgf / cm ²)	20.6 Mpa (210 kgf / cm ²)
END-OF-STROKE CUSHIONING		
Boom cylinder	rod fully extended	rod fully extended
Arm cylinder	rod fully retracted	rod fully retracted
SLEWING SYSTEM		
Slewing speed	9.0 rpm	9.0 rpm
Turret braking	automatic multi-disc brake	automatic multi-disc brake
BUCKET PERFORMANCE		
Bucket digging force	29.1 kN (2970 kgf)	36.3 kN (3700 kgf)
Bucket digging force	17.1 kN (1743 kgf)	22.7 kN (2320 kgf)
LOWER FRAME		
Undercarriage length	2060 mm	2500 mm
Tracks width	300 mm	400 mm
Lower/upper rollers	4 / 1	5 / 1
Track tension	with grease pump	with grease pump
Blade dimensions (width x height)	1550 mm x 380 mm	2000 mm x 360 mm
Max blade lift	370 mm	350 mm
Max blade drop	445 mm	420 mm
TRAVEL SYSTEM		
Travel speed (1a/2a)	2.7 / 4.7 km / h	2.6 / 4.6 km / h
CAPACITY		
Fuel tank capacity	42 L	95 L
Hydraulic reservoir capacity	33 L	70 L
Hydraulic circuit total capacity	50 L	110 L
Engine coolant	4.5 L	11 L
ARM SWING SYSTEM		
Right swing angle	80°	90°
Left swing angle	50°	50°
OTHER DATA		
Sound power level LwA (2000/14/EC)	93 dB	98 dB

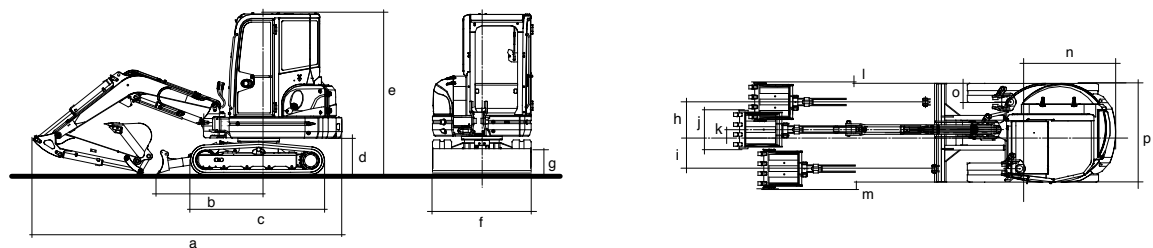
35N4



DIMENSIONS (mm)

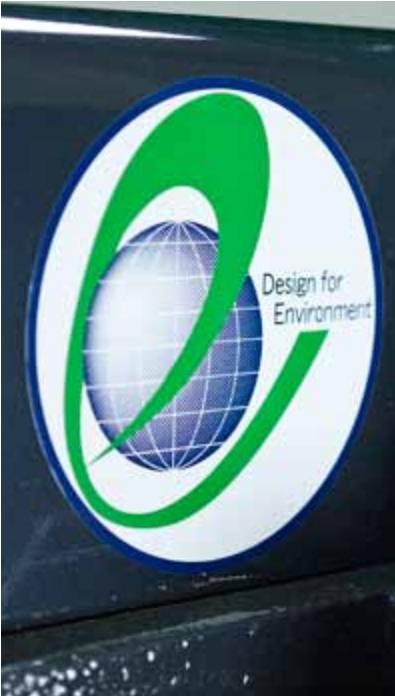
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p
4760	1570	2060	560	2470	1550	380	490	570	600	50	15	95	1280	300	1550

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



equipment

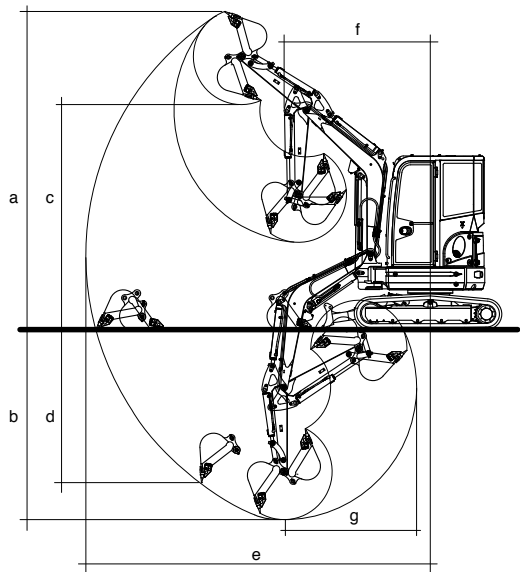
	35N4	55N4
SUPPORT FRAME		
Rubber shoes (width mm)	300	400
Attachment points for lifting-anchoring-towing	std	std
Steel shoes (width mm)	300	400
ENGINE		
Two-phase dry air filter with visual clogging indicator	std	std
Electric pre-heating device	std	std
Fuel water separator	std	std
Fuel tank drain plug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

working range

the drawing is generic and is only for illustrative purposes

	35N4	55N4
A Maximum digging height	4830/5020* mm	5750/5980* mm
B Max. digging depth	3080/3380* mm	3850/4100* mm
C Maximum dumping height	3350/3540* mm	3930/4150* mm
D Maximum vertical digging depth	2470/2750* mm	2950/3270* mm
E Maximum digging radius	5080/5370* mm	6120/6420* mm
F Minimum front turning radius	1990/2030* mm	2420/2400* mm
with right arm swing	1720/1760* mm	1970/2000* mm
G Maximum digging depth radius	1950/1950* mm	2370/2370* mm

* with long arm





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