

CONSTRUCTION EQUIPMENT

SUNWARD
INNOVATION LEADS TO VALUE

COMPACT EXCAVATORS
SWE 90UF SERIES

Engine Power: **46.2 kW**

Machine Weight: **8 750 - 9 750 kg**



GLOBAL EXPERTISE EUROPEAN SOLUTIONS

As an international success story, Sunward takes a fresh approach to the design and manufacture of construction machinery. Our global expertise, facilitated through our state-of-the-art European distribution hub, combines innovative technological solutions and pioneering engineering capabilities. The result is intelligent solutions to challenges most manufacturers choose to ignore and a desire for continual refinement and improvement.

One of the many ways to do this is by tackling value head-on. Few industries are as competitive as yours. Fluctuating economies, fuel prices, inflation, and pressures on the ground all impact your business. We design and manufacture machinery that puts value and excellence first, minimising the cost of ownership while maximising operator experience – for excellent results and productivity on-site and on your bottom line.

“

All in all, it is the excellent value for money that motivated our decision. Sunward represents a very good investment. The machines are reliable and efficient, with a 5-year warranty, for a very reasonable price.

Antun | Director | Croatia

”



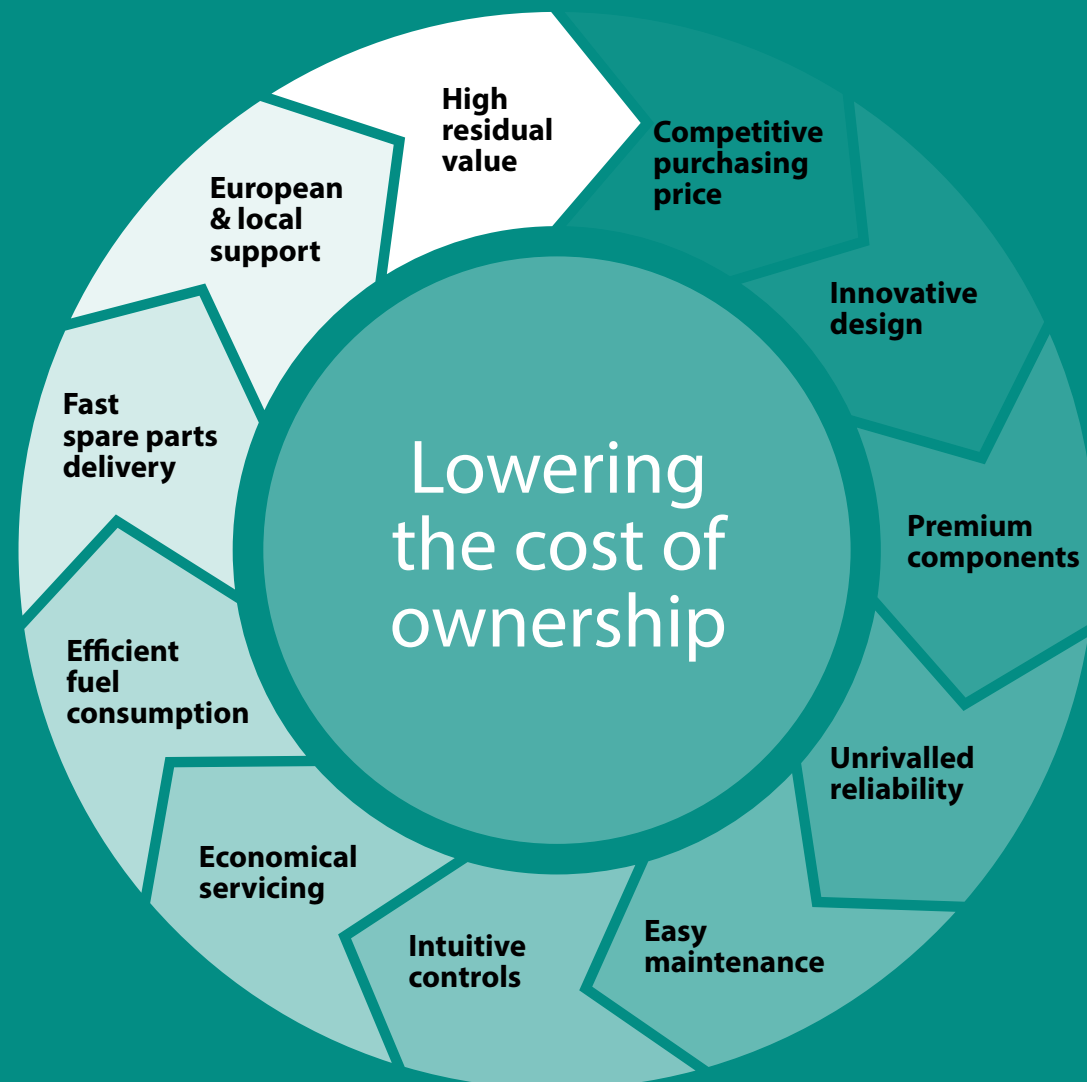
SUNWARD MACHINES – THE SMART CHOICE



SIMPLICITY LEADS TO BETTER VALUE

Sunward machines are designed for the job you need to do – no more, no less. We take an innovation-led approach to everything we do, simplifying the machines and parts through our patents, R&D and production to deliver the perfect combination of durability, user satisfaction and value.

We're driven by cost of ownership. Our experts put every aspect of owning a Sunward vehicle under the microscope. From purchase to day-to-day productivity – including maintenance, parts, servicing, repairs and fuel consumption, and the residual value – we ensure our machines have value built in as standard at every stage.



EXTENSIVE EUROPEAN SUPPORT

Sunward is respected internationally. Our Belgium hub is the epicentre of our European activity. It's where each machine is modified to your exact needs and requirements before being subjected to a rigorous pre-delivery inspection. What's more, all critical parts are held in Belgium to ensure delivery to you within 24 hours.

Throughout Europe, Sunward has built a reliable distributor network. Our dealers are at the heart of our passion for excellence and continuous improvement and because they serve your local needs, their knowledge and feedback has a major influence on our engineering and design innovations.

- **150+ European dealers**
 - Expertise and support is always on hand
- **European hub (Belgium)**
 - Technical support
 - 24 hour spare parts delivery



INTRODUCING THE SWE 90UF SERIES EXCAVATORS

It is with immense pride that we introduce the SWE 90UF and its ultra-compact sibling, the SWE 90UF-2PB, both meticulously tailored for the European market.

These compact excavators, weighing about 9 tonnes, are engineered for urban precision. Whether for road infrastructure, urban or residential construction, quarrying, demolition, or landscaping, their versatility and durability ensure a prolonged lifespan. With their compact design, they excel in tight city spaces, delivering unmatched productivity through their EU Stage V engines and superior hydraulics.

Standing at the forefront of compact excavators, the SWE 90UF series guarantees outstanding performance, operator comfort, and easy maintenance.

DURABILITY AND RELIABILITY

ROBUST CONSTRUCTION

The SWE 90UF Series is built to withstand the harshest working conditions.

- **High-Quality Materials:** Use of premium materials for enhanced durability.
- **Reinforced Structures:** Robust chassis and reinforced components ensure longevity.

UP TO **5 YEARS**
OF WARRANTY
STANDARD FOR ALL SUNWARD PRODUCTS

To underscore our commitment to reliability, Sunward offers up to five years of warranty, giving you peace of mind and confidence in your investment.

PERFORMANCE AND EFFICIENCY

ENGINE POWER AND EFFICIENCY

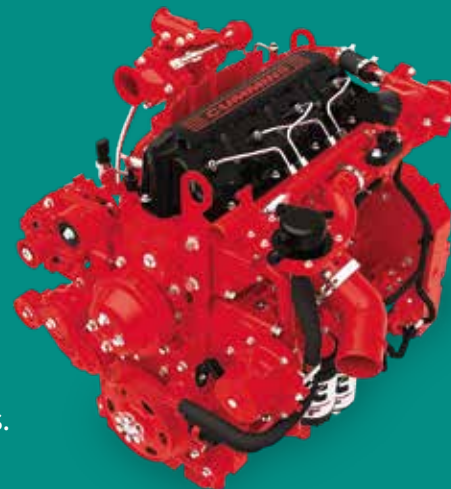
The SWE 90UF Series is powered by the Yanmar 4TNV98C engine, meeting stringent EU Stage V emissions standards. This high-performance engine ensures substantial power while maintaining fuel efficiency and reducing emissions.

- **Common Rail Direct Injection:** Ensures precise fuel delivery, enhancing fuel economy and reducing emissions.
- **Emission Compliance:** Fully complies with the latest environmental regulations.

HYDRAULIC SYSTEMS

Advanced hydraulic systems in the SWE 90UF Series feature multiple operating modes to enhance performance and efficiency.

- **Bosch Rexroth Main Pump:** Provides greater precision and reliability.
- **Variable Displacement Pumps:** Optimise hydraulic performance.
- **Load Sensing System:** Adjusts hydraulic output to match engine power, preventing overload and optimising efficiency.



SWE 90UF | SWE 90UF-2PB

OPERATOR COMFORT AND SAFETY

ERGONOMIC CAB DESIGN

The redesigned spacious cab provides a comfortable environment, ensuring operator comfort and reducing fatigue.

- ✓ **Air-Suspension Seats:** Enhance comfort during long hours of operation
- ✓ **Climate Control:** Fully automatic air conditioning and heater
- ✓ **Intuitive Controls:** Upgraded control console and ergonomic layout for ease of use

SAFETY FEATURES

Safety is paramount in the SWE 90UF Series. Enhanced safety features include:

- ✓ **Safety Lever:** New and improved design, for added strength and flexibility
- ✓ **Safety Valves:** Prevent uncontrolled movements during load lifting
- ✓ **Non-Slip Surfaces:** Ensure safe operation in all conditions



VERSATILITY AND FLEXIBILITY

ATTACHMENT COMPATIBILITY

The SWE 90UF Series is equipped to handle a wide range of attachments, facilitated by quick-coupler systems and multiple auxiliary hydraulic circuits.

- ✓ **Seven Auxiliary Lines:** Standard feature providing maximum versatility
- ✓ **Quick Hitch Actuation:** Allows for easy and fast attachment changes



COMPACT POWER IN TIGHT SPACES

The compact dimensions and short-tail-swing design of the SWE 90UF Series allow for effective operation in confined spaces, making it ideal for urban construction sites and other restricted areas.

With the 2-piece boom, the SWE 90UF is even more compact.

DYNAMIC RANGE OF THE 2-PIECE BOOM

The 2-piece boom design of the SWE 90UF-2PB enhances the series' already compact nature, enabling precision work in tighter spaces than ever before.

This model is the epitome of efficient design, allowing operators to undertake complex tasks in narrow settings where traditional models cannot reach, making it an ideal choice for intricate urban projects.

The SWE 90UF series is your partner for increased productivity, offering seamless operation where traditional excavators can't fit.

Experience the freedom of compact design without sacrificing power — the SWE 90UF series is where compact meets capability.



EASY MAINTENANCE AND SERVICE

Our highly versatile compact excavators offer superior performance, easy maintenance, excellent visibility, great stability, and supreme operator comfort – all powered by the exceptional, award-winning Yanmar 4TNV98C engine.

SERVICEABILITY

Designed with ease of maintenance in mind, the SWE 90UF Series offers:

Ground-Level Access:

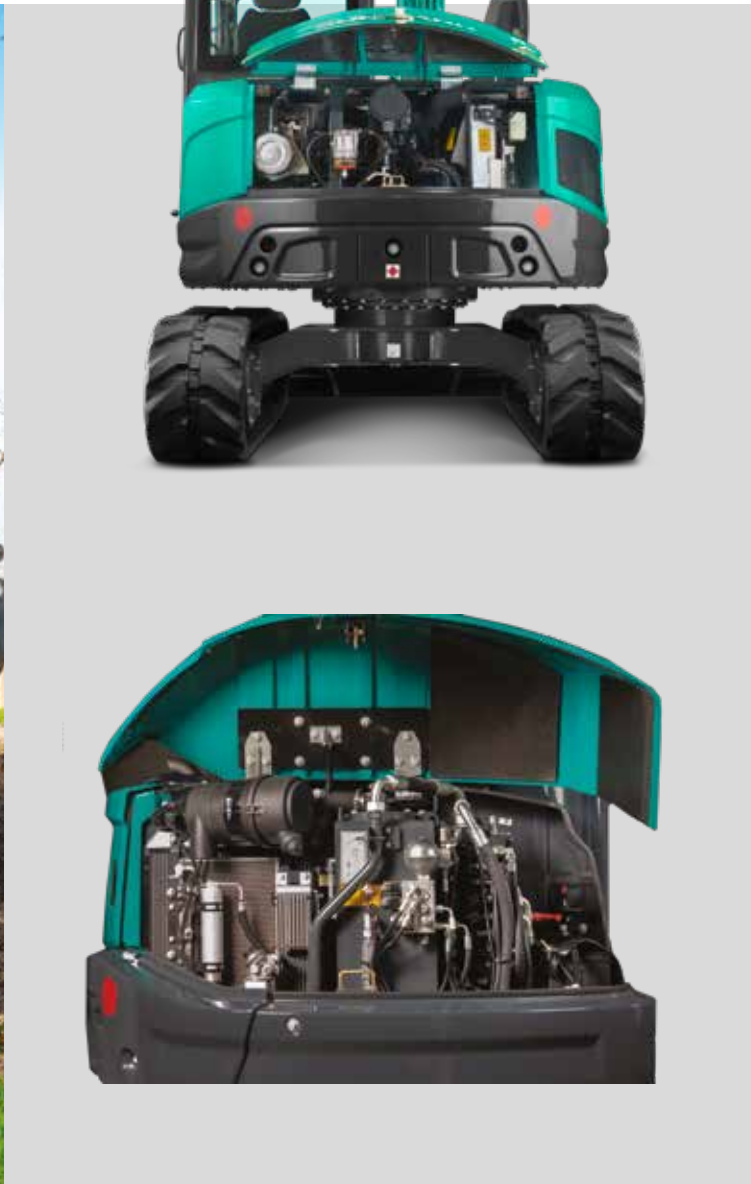
Easy access to maintenance points to simplify routine checks.

Long Service Intervals:

Minimise downtime and maximise productivity.

CENTRALISED COMPONENT LAYOUT

Key components are centrally arranged to allow for quick and easy access during maintenance, ensuring that servicing the SWE 90UF Series is both straightforward and efficient.



ADDED VALUE FEATURES? HERE'S THE SCOOP...

The latest redesign of the SWE 90UF Series introduces several significant upgrades:

CAB INTERIOR ENHANCEMENTS

New cab design with upgraded interior decoration, control console, and air conditioning system.

ELECTRICAL SYSTEM UPGRADES

Improved display screens, keyless starting button, and integrated sound and light warning systems.

ENHANCED COMFORT AND CONTROL

Air ducts, and safety levers for better ergonomics. Co-ordinating and stylish seat and armrest upholstery.

FUEL TANK AND STRUCTURAL IMPROVEMENTS

Rotomolded fuel tank and improved welding of base structural parts.



THE 'AS STANDARD' THAT'S FAR FROM STANDARD

- ✓ Joystick control as standard
- ✓ Air conditioning as standard
- ✓ LED lights as standard
- ✓ Hydraulic quick coupler option for extra-fast attachment
- ✓ High flow as standard
- ✓ Five-year warranty as standard (extended options available)
- ✓ Inching function (0-100% adjustment throttle speed) as standard



- ✓ AdBlue Free - The innovative Sunward engine design means AdBlue is not required to meet Stage V emission rating
- ✓ Two-speed drive, with Auto-Shift function, for quick travel to site and faster cycle times
- ✓ Inching capability so you can work in confined environments
- ✓ Easy-to-clean fan and hinged cooling package for fast cleaning and servicing
- ✓ Premium components - no matter what model you're operating, you can count on the quality
- ✓ Smartfleet with enabled geolocation and remote diagnostics for speedy issue resolution
- ✓ EU Safety Certification



EQUIPMENT

THE STANDARD AND OPTIONAL EQUIPMENT VARIES FROM COUNTRY TO COUNTRY. FOR MORE INFORMATION, PLEASE CONTACT US.

		STANDARD EQUIPMENT	OPTIONAL EQUIPMENT
ENGINE	4-stroke, water-cooling, direct injection, diesel engine, that meets EU stage V requirements	•	
	Air filter with clogging indicator	•	
	Multi-stage fuel filtering system with water separator	•	
	Engine oil filtering system	•	
	Cooling unit easy for cleaning	•	
	Engine and hydraulic oil, combined cooler, bar and plate type.	•	
	Engine diagnostic monitoring	•	

HYDRAULIC SYSTEM	Load sensing system, post compensated with electronic controller	•	
	Boom (+ 2nd boom) and arm safety valves (hose burst)	•	
	Auto shift travel motors	•	
	Pilot pressure accumulator	•	
	Pilot oil pressure filter	•	
	Suction and hydraulic oil return filter	•	
	1st Auxiliary hydraulic piping to the stick end (+ end caps) [AUX1]	•	
	2nd Auxiliary hydraulic piping to stick end (+ end caps) [AUX3]	•	
	Hydraulic quick hitch actuation piping/hoses to the stick end (+ end caps)	•	
	Breaker return line to the stick end (1 pipe + end cap)	•	
	Overload warning indicator alarm + protection plates for arm and boom safety valves		•
	Dozer blade	•	
	Dozer-blade safety valves		•
	Bucket link with lifting ring		•

ELECTRONIC/ELECTRICAL CONTROL SYSTEM	Keyless start button	•	
	Auto idle system	•	
	Central instrument panel with touchscreen	•	
	Electronic proportional control AUX1 and AUX2	•	
	Battery key	•	
	AUX1 adjustable electronic flow control	•	
	Instrument panel with startcode (antitheft)	•	
	Removable Battery key	•	
	USB-charger	•	
	USB-port	•	
	Safety lever	•	
	Radio, operated by the touchscreen and operating interface right console	•	
	HVAC, operated by the touchscreen and operating interface right console	•	
	Electronic gas throttle dial potentiometer	•	
	3 different work modes: ECO, POWER, AUX	•	
	Electronic flow control AUX1, operated by the touchscreen and operating interface right console	•	
	Electric refuelling pump	•	
	Smart fleet system		•
	Automatic central lubrication		•

CABIN INTERIORS	FOPS- TOPS- ROPS installed	•	
	Left and right pilot pressure control valves + joystick handles	•	
	Multi-directional adjustable seat with mechanical suspension and adjustable armrests	•	
	Multi-directional adjustable seat with pneumatic suspension and adjustable armrests		•
	Different large storage spaces	•	
	Fire extinguisher	•	
	Safety hammer	•	
	Sunshade curtain for cabin top window	•	
	Sunshade curtain for sliding window	•	
	Cup holder	•	
	Cabin interior light	•	

CABIN EXTERIORS	Travel alarm	•	
	Windscreen wiper	•	
	Rotating beacon with magnetic base	•	
	Left and right rear view mirror	•	
	Mirror for machine back side view	•	
	Mirror for machine right side view	•	
	Mirror for machine front side view	•	
	2 x LED working lights on top of the cabin, front	•	
	1 x LED working light mounted on the top of the cabin, rear.	•	
	2 LED working lights on left and right side of the boom	•	

MONO-BOOM	3 400 mm boom with safety valve	•	
	2 100 mm arm with safety valve	•	
	Additional counterweight		•

2 PIECE-BOOM	1st boom 1950mm + safety valve	•	
	2nd boom 2 050mm + safety valves	•	
	2 100mm stick + safety valve	•	
	Additional counterweight	•	

TRACKS	Rubber tracks	•	
	Steel tracks		•
	Roadliners		•

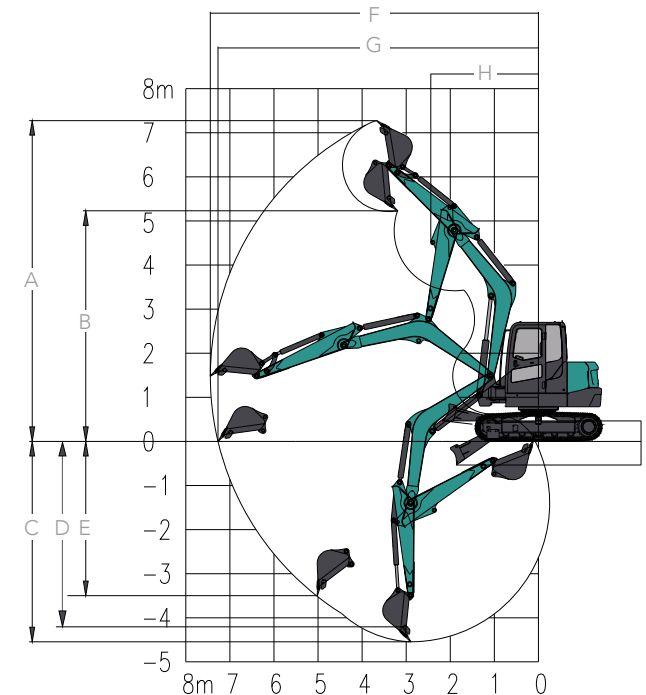
OTHERS	Cabin front and top guards		•
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TECHNICAL PARAMETERS: SWE 90UF

TYPE OF CAB		Cab
BUCKET CAPACITY		0.26 m ³
BUCKET WIDTH, STD.		680 mm
MACHINE WEIGHT		8 750 - 8 900 kg
STANDARD DIMENSIONS	Boom Length	3 400 mm
	Arm Length	2 100 mm
	Overall dimension (L × W × H)	6 494 * 2 270 * 2 735 mm
	A Total Length	6 494 mm
	B Total Height	2 735 mm
	C Total Width	2 270 mm
	D Counterweight ground clearance	800 mm
	E Chassis ground clearance	400 mm
	F Tail swing radius	1 430 mm
	G Track length on the ground	2 270 mm
	H Track length	2 900 mm
	I Track gauge	1 800 mm
	J Undercarriage width	2 250 mm
	K Trackshoe width	450 mm
	L Cab height	2 735 mm
	M Height of engine hood	1 800 mm
	N Width of turntable	2 220 mm
ENGINE	Brand	Yanmar
	Emission Rating	EU Stage V
	Model	4TNV98C-SSU
	Type	4-cylinder, 4- stroke, water cooling
	Power	46,2 kW/2 200 rpm
	Max Output Torque	241 Nm/1 430 rpm
HYDRAULIC SYSTEM	Displacement	3,319 L
	Hydraulic pump type	Variable Piston Pump
	Max displacement of hydraulic pump	160 L/min
	Hydraulic pressure of hydraulic pump	29 Mpa / 290 bar
	Pilot pump	Gear Pump
	Max displacement of pilot pump	12.1 L/min
PERFORMANCE	Hydraulic pressure of pilot pump	3.9 Mpa
	Swing speed	11.2 rpm
	Travel Speed	4,7~2,7 km/h
	Gradeability	35 °
TANK CAPACITY	Ground Pressure	35,4 kPa
	Fuel tank capacity	120 L
	Hydraulic oil tank capacity	80 L

WORKING RANGE

SWE 90UF			
WORKING RANGES & BREAKOUT FORCE	A	Max. cutting height	7 290 mm
	B	Max. loading height	5 245 mm
	C	Max. digging depth	4 545 mm
	D	Max. digging depth (2.4 m)	4245 mm
	E	Max. vertical digging depth	3 485 mm
	F	Max. digging reach	7 270 mm
	G	Max. reach on ground	7 445 mm
	H	Min. front swing radius	2 765 mm
	I	Max dozer lifting height	450 mm
	J	Max dozer cutting depth	485 mm
	Max digging force (Bucket)		63,5 kN
	Max digging force (Arm)		38 kN

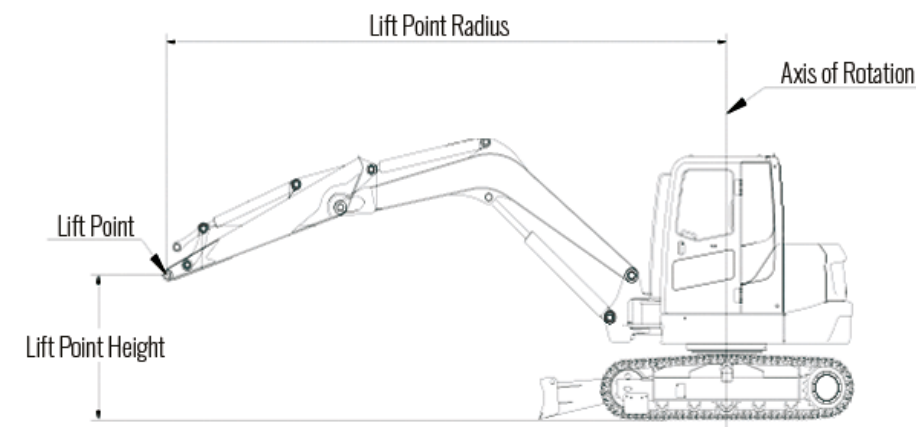
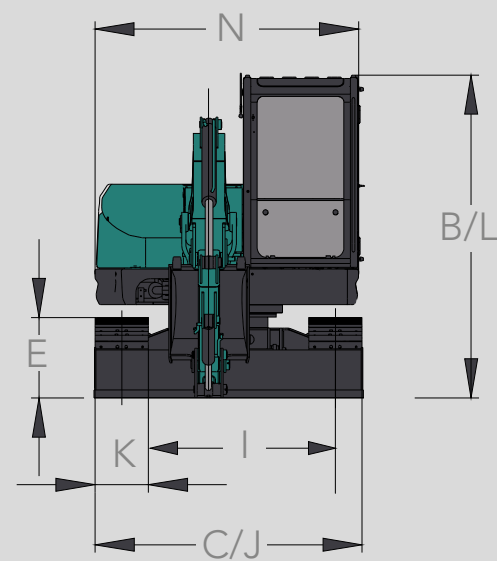
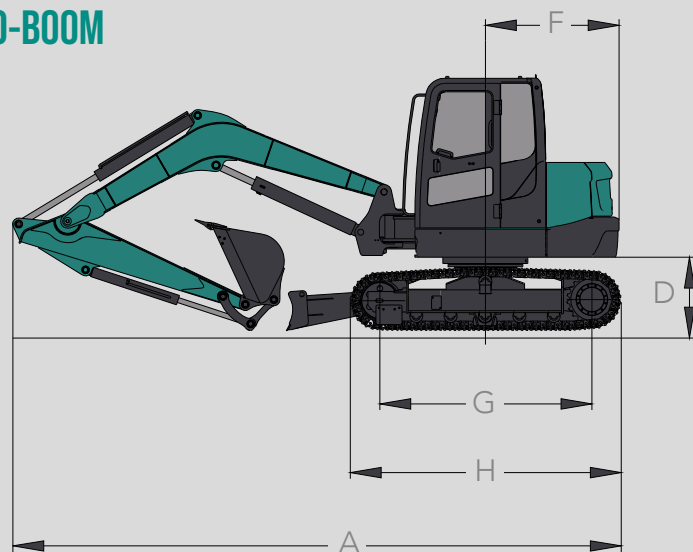


LIFTING CAPACITY

LIFTPOINT HEIGHT	LIFTPOINT RADIUS (min)		LIFTPOINT RADIUS (3m)		LIFTPOINT RADIUS (4m)		LIFTPOINT RADIUS (5m)		LIFTPOINT RADIUS (max)	
	Over-front (Kg)	Over-side (Kg)	Over-front (Kg)	Over-side (Kg)	Over-front (Kg)	Over-side (Kg)	Over-front (Kg)	Over-side (Kg)	Over-front (Kg)	Over-side (Kg)
5m	-	-	-	-	2219*	1492	-	-	-	-
4m	-	-	-	-	2299*	1508	-	-	-	-
3m	-	-	-	-	1873*	1477	1740*	1102	-	-
2m	-	-	3631*	2242	2313*	1603	2002*	1037	1789*	723
1m	4749*	2158	3134*	2013	2326*	1435	1953*	991	1895*	693
0	-	-	3737*	1829	2637*	1343	2113*	945	1971*	700
-1m	-	-	3595*	1768	2734*	1313	2068*	903	2064*	788

* Hydraulic lift capacity (calculated according to 87% of the test data)

Other values denote tipping load (calculated according to 75% of the test data)

DIMENSIONS
MONO-BOOM

Notes: With steel tracks and 2500mm arm.

The value marked with * is the hydraulic lift capacity (it's calculated according to 87% of the test data, in compliance with ISO10567)

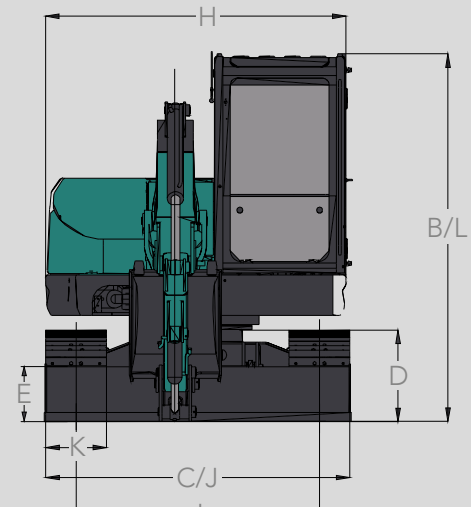
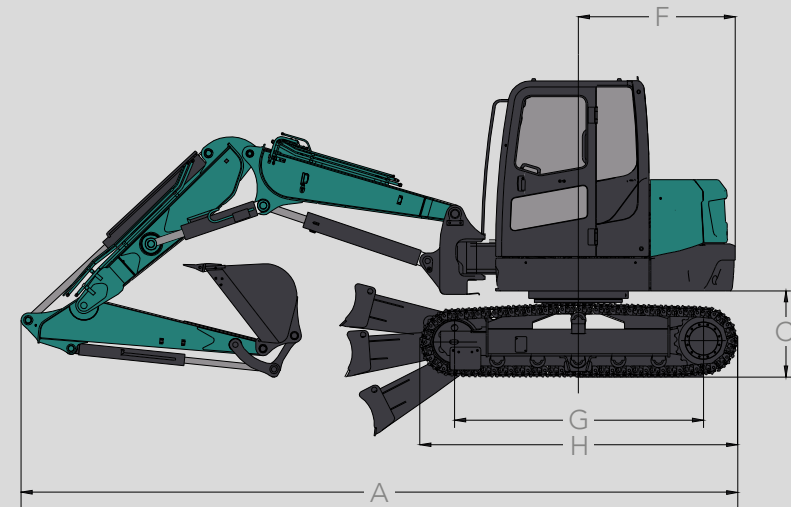
The value without * mark is the tipping load (it's calculated according to 75% of the test data, in compliance with ISO1056)

TECHNICAL PARAMETERS: SWE 90UF-2PB

TYPE OF CAB		Cab
BUCKET CAPACITY		0.26 m³
BUCKET WIDTH, STD.		680 mm
MACHINE WEIGHT		9 600 - 9 750 kg
STANDARD DIMENSIONS	Boom Length	1 950 mm + 2 050mm
	Arm Length	2 100 mm
	Overall dimension (L × W × H)	6 535 * 2 270 * 2 735 mm
	A Total Length	6 535 mm
	B Total Height	2 735 mm
	C Total Width	2 270 mm
	D Counterweight ground clearance	800 mm
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	F Tail swing radius	1 430 mm
	G Track length on the ground	2 270 mm
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ENGINE	L Cab height	2 735 mm
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	N Width of turntable	2 220 mm
	Brand	Yanmar
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	Model	4TNV98C-SSU
HYDRAULIC SYSTEM	Type	4-cylinder, 4- stroke, water cooling
	Power	46,2 kW/2 200 rpm
	Max Output Torque	241 Nm/1 430 rpm
	Displacement	3,319 L
	Hydraulic pump type	Variable Piston Pump
	Max displacement of hydraulic pump	160 L/min
PERFORMANCE	Hydraulic pressure of hydraulic pump	29 Mpa / 290 bar
	Pilot pump	Gear Pump
	Max displacement of pilot pump	12.1 L/min
	Hydraulic pressure of pilot pump	3.9 Mpa
	Swing speed	11.2 rpm
	Travel Speed	4,7~2,7 km/h
TANK CAPACITY	Gradeability	35 °
	Ground Pressure	35,4 kPa
	Fuel tank capacity	120 L
	Hydraulic oil tank capacity	80 L

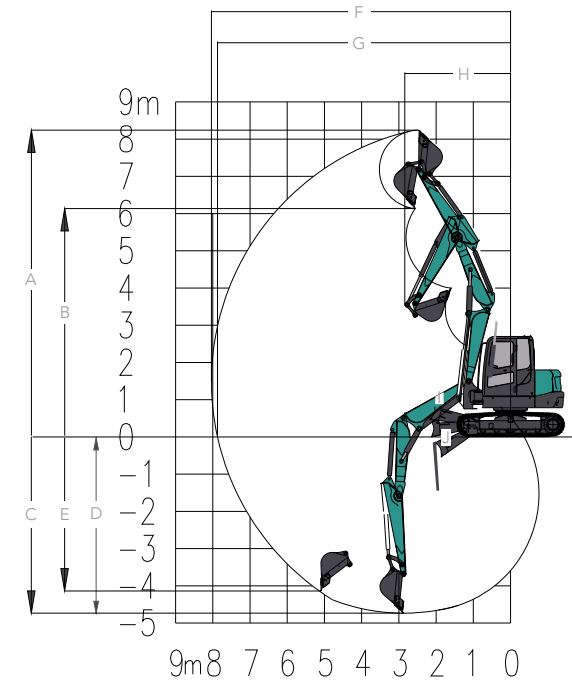
DIMENSIONS

2 PIECE-BOOM



WORKING RANGE

SWE 90UF-2PB		
WORKING RANGES & BREAKOUT FORCE	A	Max. cutting height
	B	Max. loading height
	C	Max. digging depth
	D	Max. digging depth (2.4 m)
	E	Max. vertical digging depth
	F	Max. digging reach
	G	Max. reach on ground
	H	Min. front swing radius
	I	Max dozer lifting height
	J	Max dozer cutting depth
		Max digging force (Bucket)
		Max digging force (Arm)

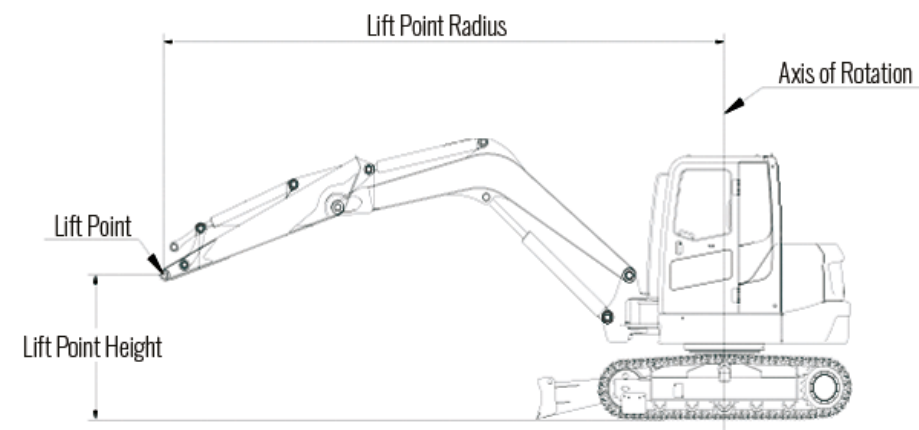


LIFTING CAPACITY

LIFTPOINT HEIGHT	LIFTPOINT RADIUS (3m)		LIFTPOINT RADIUS (4m)		LIFTPOINT RADIUS (5m)		LIFTPOINT RADIUS (6m)		LIFTPOINT RADIUS (max)	
	Over-front (Kg)	Over-side (Kg)	Over-front (Kg)	Over-side (Kg)	Over-front (Kg)	Over-side (Kg)	Over-front (Kg)	Over-side (Kg)	Over-front (Kg)	Over-side (Kg)
6m	-	-	-	-	1993*	864	-	-	1997*	-
5m	-	-	-	-	1886*	870	1775*	807	1775*	646
4m	-	-	2303*	-	1993*	872	1757*	861	1708*	517
3m	-	-	2681*	1145	2179*	804	1833*	815	1642*	456
2m	-	1693	3116*	1134	2379*	801	1948*	807	1597*	428
1m	-	1406	3311*	927	2472*	706	2068*	704	1549*	422
0	-	1274	3249*	881	2530*	689	1979*	693	1504*	445
-1m	-	1266	2800*	875	2192*	646	1655*	677	1353*	419

* Hydraulic lift capacity (calculated according to 87% of the test data)

Other values denote tipping load (calculated according to 75% of the test data)



Notes: With steel tracks and 2500mm arm.

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The value without * mark is the tipping load (it's calculated according to 75% of the test data, in compliance with ISO1056)





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