

CONSTRUCTION EQUIPMENT

SUNWARD
INNOVATION LEADS TO VALUE

MINI EXCAVATORS

SWE 25UF & SWE 25F

Engine Power: **14.6 kW**

Machine Weight: **2 650 kg** (SWE 25UF) | **2 640 kg** (SWE 25F)



OUR STANDARD FEATURES ARE OPTIONS FOR OTHERS

Presenting the SWE 25UF and SWE 25F

I take great pride in introducing two jewels – the **SWE 25F** and its zero-tail version the **SWE 25UF mini excavators**. Both have been specifically designed and certified for European market requirements. These 2.64t & 2.65t mini-excavators can do it all, either in professional hands or by occasional users. Both machines are designed to be durable and efficient and indicate how easy they are to transport, operate and maintain.

These top-of-the-line mini-excavators offer excellent performance, comfortable and safe operation, and convenient maintenance. The SWE 25F is the perfect size for a variety of commercial and residential construction projects, such as trenching, minor landscaping or building pads and foundations. At the same time, the SWE 25UF's power, efficiency, versatility and great zero-tail design is perfect for work on sidewalks or urban jobsites, or more generally in confined spaces, making it one of our bestsellers in Europe.

Products of our company's innovative DNA, the SWE 25F and SWE 25UF create value for our customers and improve the quality of life. In just 20 years, Sunward has grown to become one of the world's top 50 construction machinery manufacturers and top 20 excavator companies. Today, our products are exported to more than 100 countries worldwide.

Thank you for sharing our pride!

Professor He

Professor He

Main features

RELIABLE, POWERFUL AND DURABLE

We never compromise on reliability. And the SWE 25F (2.64t) and its zero-tail version SWE 25UF (2.65t) are no exception – we know they will be used by professional companies as well as rented to occasional users. So, just like our other machines, all key components come from the world's top premium brands. From the Yanmar Stage V engine to the Japanese-made hydraulic system, all is set for reliability, durability and enhanced performance. Sunward's unique hydraulic system enhances these 2.64t/2.65t machines' performance by providing one of the more powerful bucket break-outs on the market.

VERSATILE AND OPTIMIZED

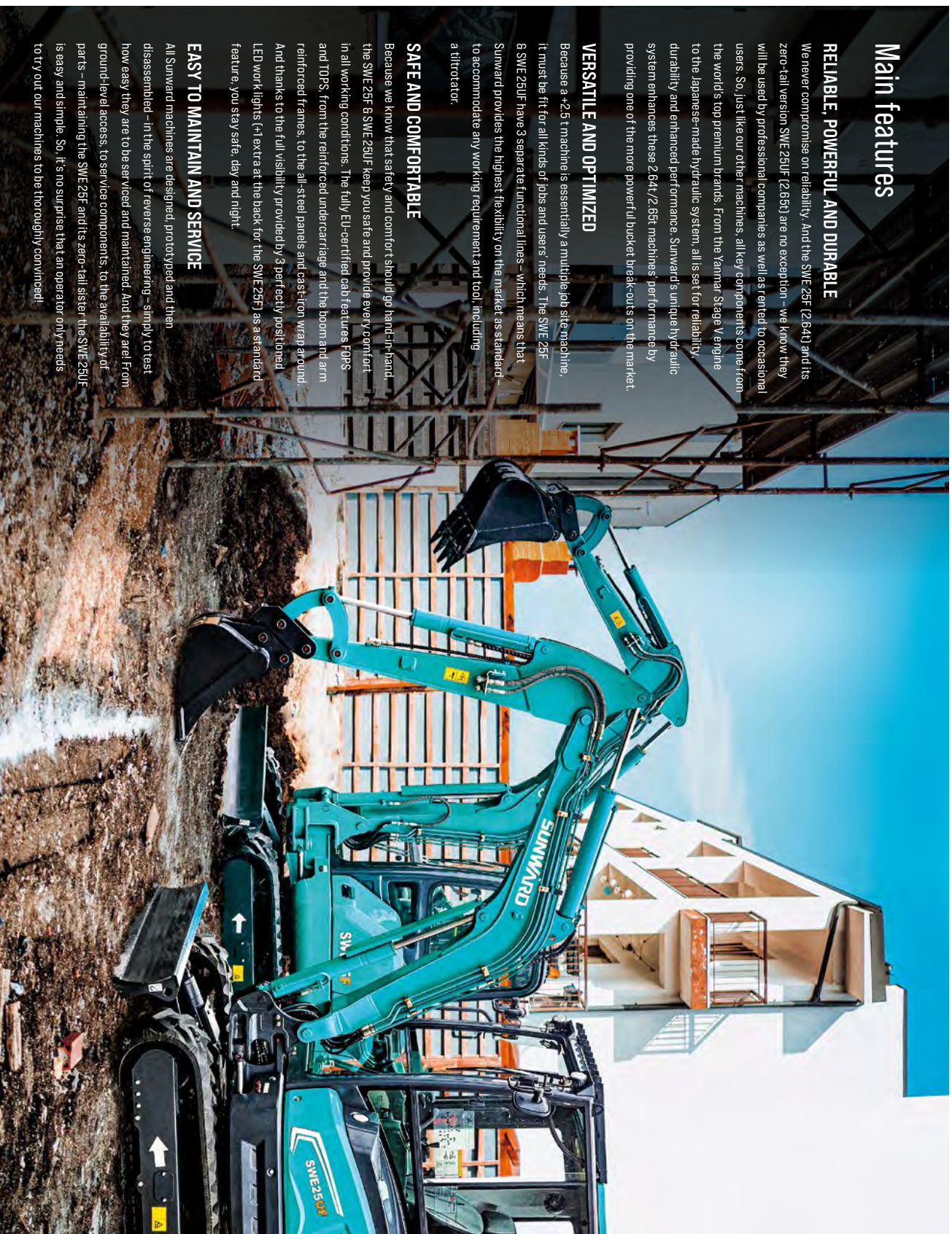
Because a +2.5 t machine is essentially a multiple job site machine, it must be fit for all kinds of jobs and users' needs. The SWE 25F & SWE 25UF have 3 separate functional lines – which means that Sunward provides the highest flexibility on the market as standard to accommodate any working requirement and tool, including a titrotator.

SAFE AND COMFORTABLE

Because we know that safety and comfort should go hand-in-hand, the SWE 25F & SWE 25UF keep you safe and provide every comfort in all working conditions. The fully EU-certified cab features FOPS and TOPS, from the reinforced undercarriage and the boom and arm reinforced frames, to the all-steel panels and cast-iron wrap around. And thanks to the full visibility provided by 3 perfectly positioned LED work lights (4 extra at the back for the SWE 25F) as a standard feature, you stay safe, day and night.

EASY TO MAINTAIN AND SERVICE

All Sunward machines are designed, prototyped and then disassembled – in the spirit of reverse engineering – simply to test how easy they are to be serviced and maintained. And they are! From ground-level access, to service components, to the availability of parts – maintaining the SWE 25F and its zero-tail sister the SWE 25UF is easy and simple. So, it's no surprise that an operator only needs to try out our machines to be thoroughly convinced!

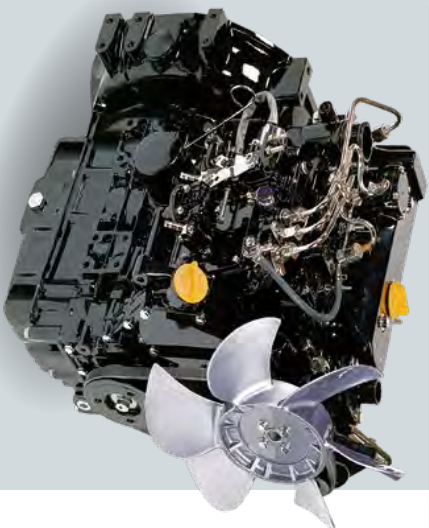


Reliable, Powerful and Durable

All key components are carefully selected

We chose the powerful Yanmar 3 TNW 80F engine for a number of good reasons. This engine uses indirect injection and it features low fuel consumption, low noise and vibration levels, and high-altitude performance control. This 19 hp (14.6 kW) industrial diesel engine is both EPA Final Tier 4 and EU Stage V compliant, and its compact design means it can fulfill a variety of roles. The perfect fit for our reliable and versatile SWE 25F and SWE 25UF.

Because the hydraulics are often regarded as the heart of the machine, Sunward sources exclusively from the highest references in the market. For our 2 new mini excavators, we selected Japanese premium brands to be our main suppliers for the hydraulic pump, traveling and swing motor, NACHI and Kyaba pumps and components are efficient, reliable, and space-saving. So, it's no coincidence that Sunward selected them to contribute to the SWE 25F and 25UF's reliability.



| 25F | 25UF |
|--|--|
| YANMAR Stage V engine | YANMAR Stage V engine |
| KYB/HENGU Cartridge Valves and joystick | KYB/HENGU Cartridge Valves and joystick |
| NACHI/HENGU Main pump | NACHI/HENGU Main pump |
| KYB/AMV Traveling motor | KYB/AMV Traveling motor |
| KYB Swing motor | NACHI Swing motor |

Premium brand critical components



25F - Max. 4.845 mm



25UF - Max. 4.775 mm

Best digging forces and long-reach capacity on the market

The SWE 25F and SWE 25UF have exceptional digging forces – 24 kN (bucket) and 14 kN (arm) – easily rivaling any 2.5t excavator competitors on the market. And when it comes to their long-reach capacity, the SWE 25F's boom cylinder design provides a maximum reach of over 4.6 meters (4.845 mm), and the zero-tail SWE 25UF's boom cylinder provides a digging reach that's over 4.7 meters (4.775 mm) long – making these 2 mini excavators the benchmark of their range.

Protection plates for boom and dozer cylinders

When working in the field, an excavator's boom cylinders are particularly at risk of damage caused by flying stones. We've taken special care to protect the boom and dozer cylinders with covering plates, so that the operator can focus fully on his job and not worry about the machine's components. And when you rent your machine, you know it will come back in good shape, ready for many more hours on the job.

SMOOTH OPERATIONS THANKS TO

Auto gear shifting during traveling

If the SWE 25F or SWE 25UF encounters an obstacle during high-speed traveling, the machines feature auto high & low speed gear shifting. To increase traction to get over the obstacle, the SWE 25F and SWE 25UF shift from high speed to low speed automatically. And then, after getting over the obstacle, the machines automatically return to high-speed mode. This automatic gear shifting frees the operator from having to frequently flip the 2-speed switch.

Pilot traveling control

To continually enhance precise and controlled operations, all of our 2.5t mini excavators provide pilot traveling control as a standard feature.



Versatile and Optimized

Engineering and design produce optimal, versatile machines

In the spirit of Sunward's motto – "Innovation Leads to Value" – all engineering and design are focused on generating optimal value for the machine's owner. So, our machines can be used in a large variety of working conditions and applications – exactly what you're looking for in a 2.5t mini excavator.

Well-equipped from the outset

This slightly over 2.5t machine is very well equipped from the day it leaves the factory:

- Double Acting Hydraulic Circuit
- Factory-fitted Hydraulic Quick Hitch
- Lines-Factory-fitted Hammer & Rotation Line
- Factory-fitted Case Drain Line
- Factory-fitted One hydraulic pilot control with double contact switch
- Factory-fitted Tiltrotator Configured Joystick Controls (tiltrotator of your choice – Engcon, Steedwist or Retortit)

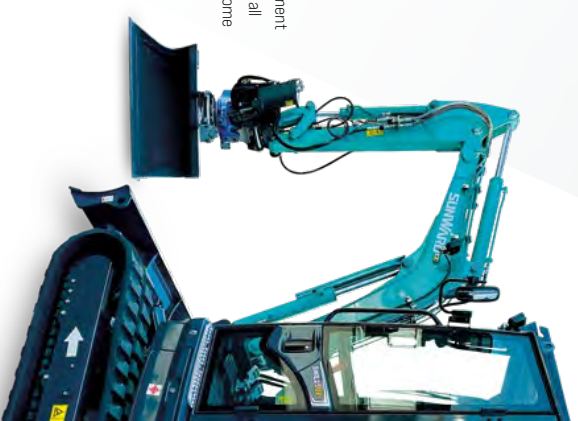


Ready to face any situation from Day 1 on the job site



Ready for all kinds of jobs

The SWE 25F and SWE 25UF enjoy full factory fitted equipment from Day 1, including all the features to welcome the most demanding attachment, i.e. the tiltrotator.

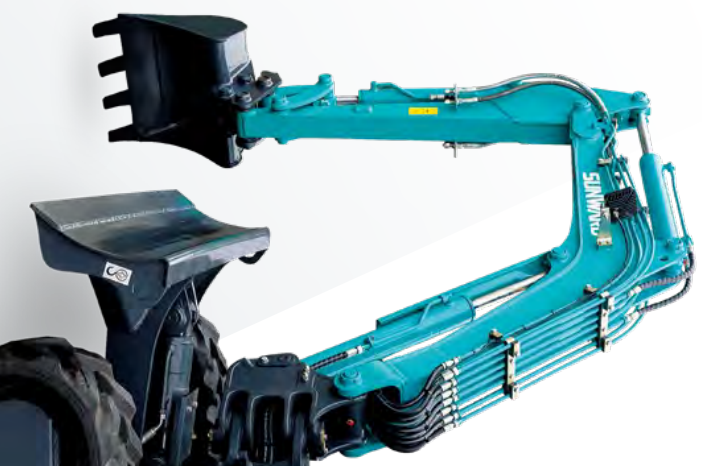


Full auxiliary lines as standard

Thanks to the complete auxiliary settings built in as standard, the SWE 25F and the zero-tail SWE 25UF provide fully adjustable pressure and flow monitoring for all types of attachments on any job site.

This results in no less than 3 separate auxiliary lines as standard (while the market provides 1 to 2 lines as standard), which are distributed as follows:

- 1-line at the bottom of the arm (AUX1), which is used primarily for the hydraulic quick-hitch
- 1-line for greater flow to fulfill the requirements of a flow-demanding attachment, such as a breaker (AUX2)
- 1-line with lesser flow as an extra line for attachments that are equipped with 2 actuators (AUX3)



Extra protection for hoses / AUX 2 lines

Compact for easy transport

A 2.5t mini excavator's versatility starts with how well it is designed for transportation. The SWE 25F and SWE 25UF do more than simply align with the EU's transportation regulations – truly compact (1.500 mm width) and lightweight (2.640–2.650 kg), these machines allow easy, safe and secure transport. With automatic slew lock and 4 easily accessed tie-down points on the upper frame, the machines can be safely transported on a small trailer with up to 3 buckets and a hydraulic breaker.



Compact and neat – easy to transport to any job site

Safe and Comfortable

On top of their EU certification, all Sunward machines on the European market are designed to meet European customer needs. Without compromising between comfort and safety.



Safe & Comfy Cab

FOPS and TOPS cab tops are standard and among the first features to ensure a safe and comfortable job in all application environments.

The well-organized cab is clearly designed to keep operators comfortable and productive. The large entrance to the roomy cab welcomes operators of all sizes from every where in Europe. From the suspension seat and heating, to the adjustable armrest and the radio with USB ports, the cab's features promote efficiency. The superior visibility through the large windows, and the clear layout of the controls, add to the great ease of operation. Finally, the safety pack – including fire extinguisher, safety hammer, and safety belt – contributes to overall peace of mind.



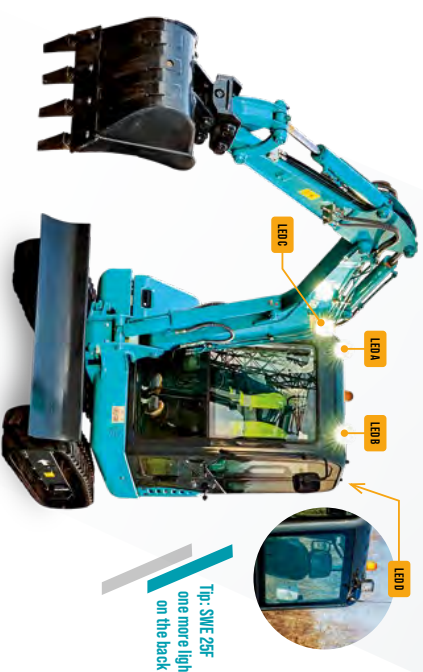
Suspension seat

Simple Interface

Simple operation

Large windows

for full visibility and thus safe work



Tip: SWE 25F
one more light
on the back

All-around visibility on bright and grey days

The cab's wide windows and slender frame, enhanced by mirrors on both sides, make it easy to operate with all-around awareness of the machine's environment. Plus, to keep working conditions safe in all kinds of weather, 24 hours a day, these mini excavators are equipped with up to 4 LED work lights as standard, 2 on the front of the cab, 1 on the left side of the boom, and 1 on the back (SWE 25F only).



Extra rear visibility and safety as standard

Color monitoring digital and analogue combined display

The easy-to-read 5.7" color monitoring digital and analogue combined display – with centralized functions and simple interface for easy operation – makes all key information readily accessible: machine status, engine rpm and temperature, fuel level, machine hours, oil indicators and charging indications.

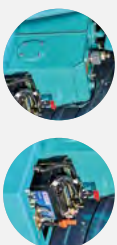
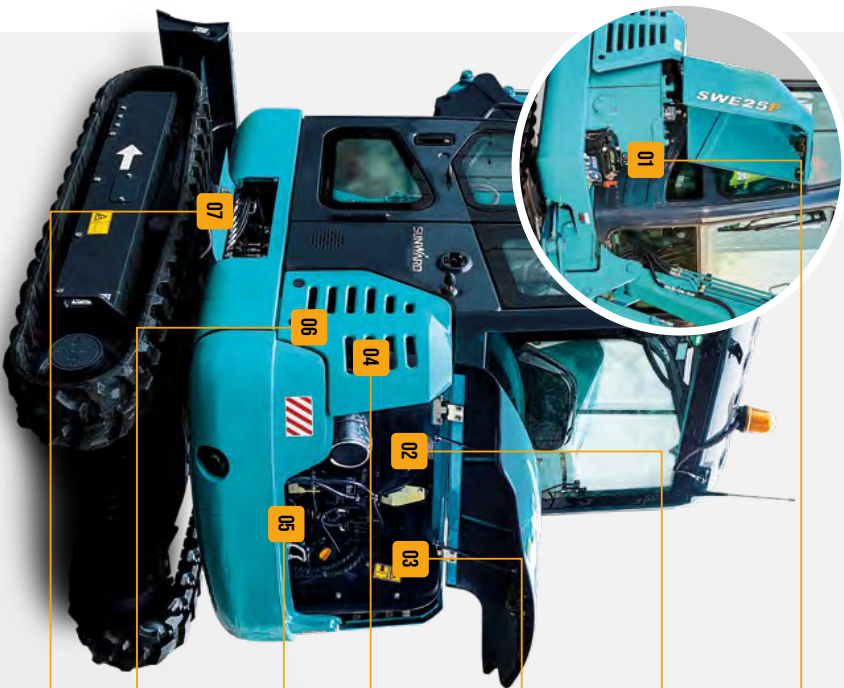


Easy to Maintain and Service

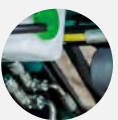
25F

Large space for all service points

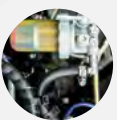
The covers at the rear and on the side provide direct access to the service points – giving the technician very easy access to the fuel tank and centralized grease fittings and lots of room in which to work. The result: faster maintenance and lower cost.



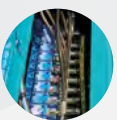
01 FUEL & HYDRAULIC TANK AND BATTERY



03 EXPANSION TANK



05 PRIMARY FUEL FILTER

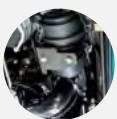


07 MAIN CONTROL VALVE

25UF

Centralized service points

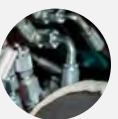
To reduce maintenance time and cost, the cover at the rear provides direct access to the service points. With very easy access to the fuel tank and centralized grease fittings, the SWE 25UF is as easy to maintain as it is to operate.



02 AIR FILTER



04 PILOT FILTER



06 INTERFACE FOR MEASUREMENT



Did you know?

Operators and maintenance teams can enjoy a machine that has been designed, prototyped and then disassembled – in the spirit of reverse engineering – to facilitate all service and maintenance operations.

UP TO
3 YEARS
OF WARRANTY
STANDARD FOR ALL
SINWARD PRODUCTS

Best Value for Money from A to Z The expert design of the SWE25F and SWE25UF includes a well-thought-out selection of components that streamline operation and maintenance. Our design choices result in machines that provide so many standard features, premium-brand key components, and capabilities... at a good price. And furthermore, Sinward's own genuine spare parts are economical as well. And all of this best value for money is offered with flexible, low-rate finance packages and crowned by a 3-year standard manufacturer's warranty.

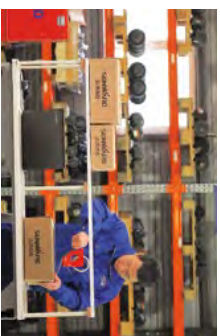
Direct Support within Europe

Sunward's European headquarters are strategically located in Tessenderlo, Belgium, in the heart of Europe, 45 minutes from Brussels International Airport and 60 minutes from the port of Antwerp.



Readily available machines & parts

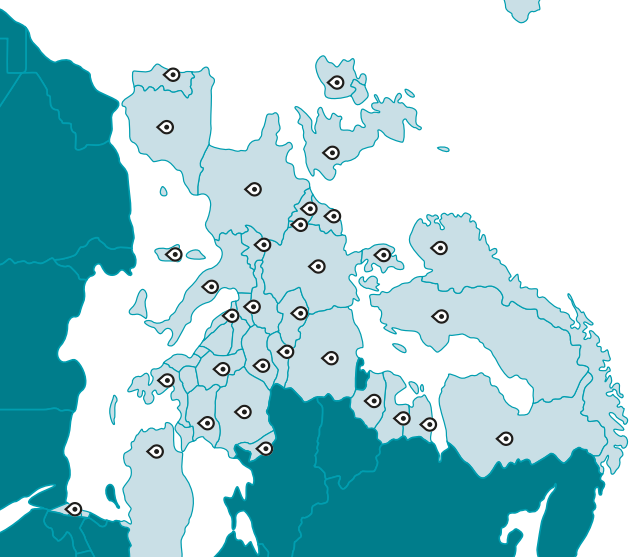
From its Tessenderlo headquarters, Sunward Europe can ensure rapid delivery of machines and spare parts everywhere in Europe. Machines can be delivered within a few weeks from local dealers, and Sunward machine operators benefit from quick and easy access to the large Dealers Parts Warehouse (DPW) distribution center in Tessenderlo. Sunward Europe guarantees an availability rate of 95% for its spare parts.



PARTS CAN BE DELIVERED WITHIN 24 HOURS

Dealers all over Europe, UK and Middle-East

Dealers are at the heart of Sunward's passion for continuous improvement. Our dealers' knowledge is a real asset – and because they serve local market needs, their feedback enhances our engineering and design innovations. Sunward's innovations create value – for machine operators and, ultimately, for our dealers.



EQUIPMENT

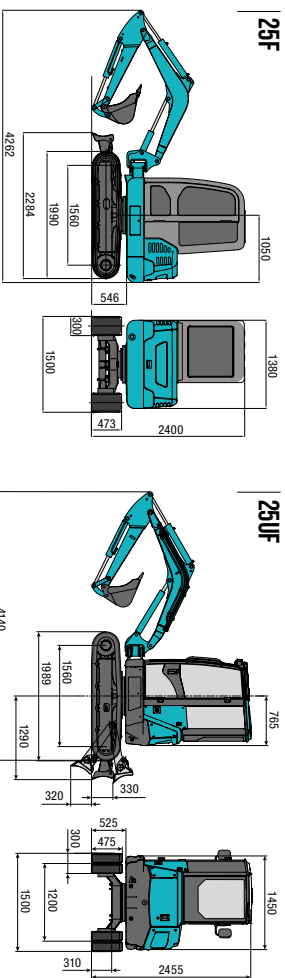
The standard and optional equipment varies from country to country. For more information, please contact us.

| | SWE 25F | SWE 25F | SWE 250F | SWE 250F | |
|-----------------------------|---|--------------------|--------------------|--------------------|--|
| | STANDARD EQUIPMENT | OPTIONAL EQUIPMENT | STANDARD EQUIPMENT | OPTIONAL EQUIPMENT | |
| CAB | Digital and analogue combined display | • | • | • | |
| | AM/FM radio with usb port | • | • | • | |
| | Cup holder | • | • | • | |
| | Seat with shock absorber | • | • | • | |
| | Engineers' position start system | • | • | • | |
| | Heater | • | • | • | |
| | Retractable harness | • | • | • | |
| | ROPS | • | • | • | |
| | TOPS | • | • | • | |
| | Windscreen washer and wiper | • | • | • | |
| Rear view mirror | • | • | • | | |
| Cigarette lighter | • | • | • | | |
| Travel alarm | • | • | • | | |
| Right proportional joystick | • | • | • | | |
| Dual proportional joystick | • | • | • | | |
| FRONT WORKING DEVICES | 1350 mm arm | • | • | • | |
| | 1200 mm bucket | • | • | • | |
| | 550 mm bucket | • | • | • | |
| | 300 mm bucket | • | • | • | |
| | Blade 630mm cylinder protection plate | • | • | • | |
| | Kit safety valve Protection-room 5 Arm safety valve-Overload box-sting on bucket/link | • | • | • | |
| | Kit safety valve Blade | • | • | • | |
| | Breaker piping | • | • | • | |
| | 300 mm rubber track | • | • | • | |
| | 300 mm steel track | • | • | • | |
| TRACKS | Oil filter | • | • | • | |
| | Fuel filter | • | • | • | |
| | Fuel-water separator | • | • | • | |
| | Air filter | • | • | • | |
| | Radiator | • | • | • | |
| | Alternator | • | • | • | |
| | Battery cut-off switch | • | • | • | |
| | Expansion tank | • | • | • | |
| | Electronic fuel pump | • | • | • | |
| | Muffler | • | • | • | |
| ENGINE | Hydraulic pilot control | • | • | • | |
| | Parking-upon-swing brake | • | • | • | |
| | Parking-upon-traveling brake | • | • | • | |
| | Dual-speed traveling system | • | • | • | |
| | Auto-shift travel system | • | • | • | |
| | 1st Auxiliary hydraulic breaker circuit line in arm end (2 pipes) | • | • | • | |
| | 2nd Auxiliary hydraulic circuit line in arm end (2 pipes) | • | • | • | |
| | 3rd hydraulic quick hitch line to arm end (2 pipes) | • | • | • | |
| | Oil return pipe (1 pipe) | • | • | • | |
| | Auto-lubrication system | • | • | • | |
| HYDRAULIC SYSTEM | Hydraulic Oil line Safety kit | • | • | • | |
| | 1800m LED working light | • | • | • | |
| | 2 front cab LED working lights | • | • | • | |
| | Warning beacon light for closed cab version | • | • | • | |
| | Warning beacon light for canopy version | • | • | • | |
| | Rear LED working light | • | • | • | |
| | Additional counter weight | • | • | • | |
| | Smart feet system | • | • | • | |
| | OTHERS | | | | |

TECHNICAL PARAMETERS

| | SWE 25F | SWE 250F |
|------------------------------------|--------------------------|---------------------------------------|
| TYPE OF CAB | Cab/canopy | Cab/canopy |
| BUCKET CAPACITY | 0.08 m ³ | 0.08 m ³ |
| BUCKET WIDTH, STD. | 580 mm | 580 mm |
| MACHINE WEIGHT | 2 540 kg | 2 650/2 560 kg |
| DIMENSIONS | | |
| Overall dimension (L x W x H) | 4 282 x 1 500 x 2 400 mm | 4 140 x 1 500 x 2 450 mm |
| Minimum ground clearance | 280 mm | 310 mm |
| Brand | YANMAR | YANMAR |
| Model | 3TNV90FC-SPSU | 3TNV90FC-SPSU |
| Emission rating | EU Stage V | EU Stage V |
| ENGINE | | |
| Displacement | 1.287 L | 1.287 L |
| Output | 14.6/2400 kW/gpm | 14.6/2400 kW/gpm |
| TRACK | | |
| Type | Rubber track/steel track | Rubber track/steel track |
| Rubber shoe width | 300 mm | 300 mm |
| Track length | 1 980 mm | 1 980 mm |
| Length to center of rollers | 1 560 mm | 1 560 mm |
| Length to center of track | 1 200 mm | 1 200 mm |
| Traveling speed (High/Low) | 4.4/2.6 km/h | 4.6/2.4 km/h |
| Gradeability | 30 deg | 30 deg |
| SWING SPEED | 9 rpm | 10 rpm |
| BRIDING PRESSURE | 25 kPa | 25.1 kPa |
| Width | 1 500 mm | 1 500 mm |
| Height | 325 mm | 325 mm |
| DOZER SIZE | | |
| Lifting capacity (Height/Depth) | 330/220 mm | 330/220 mm |
| HYDRAULIC PUMPS | | |
| Type | 1 variable piston pump | 2 variable in-line pumps, 1 gear pump |
| Displacement | 177 L/min | 2*28.8+92.65 L/min |
| Hydraulic pressure | 24.5 MPa | 2*21.5+18 MPa |
| SWING MOTOR | piston motor | piston motor |
| TRAVEL MOTOR | 2-speed piston motor | piston motor |
| FUEL TANK CAPACITY | 42.5 L | 28 L |
| HYDRAULIC OIL TANK CAPACITY | 30 L | 24 L |

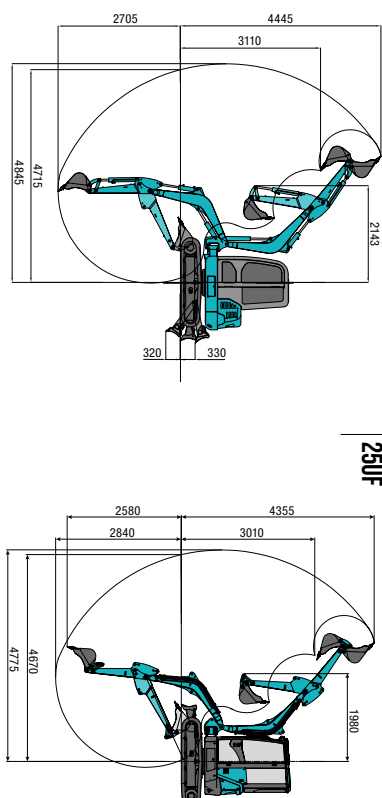
DIMENSIONS



WORKING RANGE

| | SWE 25F | SWE 250F |
|----------------------------------|----------|----------|
| Max. cutting height | 4 445 mm | 4 355 mm |
| Max. loading height | 3 110 mm | 3 010 mm |
| Max. digging depth | 2 705 mm | 2 840 mm |
| Max. vertical wall digging depth | 2 475 mm | 2 580 mm |
| Max. digging reach | 4 845 mm | 4 775 mm |
| Boom swing angle (Left/Right) | 66/54° | 65/50° |
| Front swing radius | 2 143 mm | 1 980 mm |
| Tail swing radius | 1 050 mm | 795 mm |
| Max. digging force (kN) | 14 kN | 14 kN |
| Max. digging force (bucket) | 24 kN | 24 kN |

WORKING RANGES

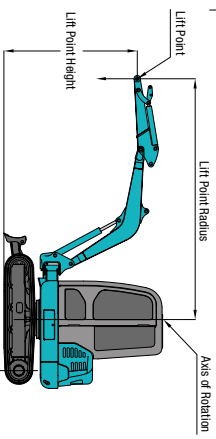


LIFTING CAPACITY

| Height (m) | SWE 25F | | | | SWE 250F | | | |
|------------|-------------------|---------------------|---------------------|---------------------|-------------------|---------------------|---------------------|---------------------|
| | U/Pt radius (MAX) | U/Pt radius (3.0 m) | U/Pt radius (2.0 m) | U/Pt radius (1.0 m) | U/Pt radius (MAX) | U/Pt radius (3.0 m) | U/Pt radius (2.0 m) | U/Pt radius (1.0 m) |
| 2.5 | 435.00* | 334.00 | 367.00* | 370.00* | 3.0 | 574.00* | 398.00 | - |
| 1.0 | 487.00* | 286.00 | 693.00* | 443.00 | 1.5 | 586.00* | 255.00 | 648.00* |
| 0 | 526.00* | 266.00 | 726.00* | 396.00 | 0 | 669.00* | 244.00 | 867.00* |
| -1.0 | 570.00* | 315.00 | 718.00* | 368.00 | -1.0 | 631.00* | 293.00 | 774.00* |

Notes:
 1. Load with * is limited by hydraulic capacity and based on ISO 10567. Rated loads do not exceed 87% of hydraulic capacity.
 2. Load without * is limited by tipping load and based on ISO 15876. Rated loads do not exceed 75% of tipping capacity.
 3. A distance from center of rotation to perpendicular of weight. Its distance for the bucket hinge pin and ground level.

25F



250F

