



**TW85**

# COMPACT WHEELED EXCAVATOR



**WORKS FOR YOU.™**

# SUPPORTS YOUR SUCCESS

## Versatility on wheels

The Terex® TW85 compact wheeled excavator is a reliable and technically superior wheeled excavator. The machine is designed to simplify your day-to-day operations, no matter the application. Maximising your productivity is the key, so you don't waste time and money.

Thanks to the wide range of equipment options, the machine can work confidently on diverse tasks – whether lifting, excavating, or laying pipes.

With more than 50 years of experience in wheeled excavator technology, Terex has extensive specialist knowledge – a prerequisite for the design of a high quality, durable machine for use in a wide range of applications.

## Technical data

Operating weight	9.1 - 11 t
Engine power	74.4 kW (101 hp)
Bucket capacity	87 - 348 l
Digging depth	4.1 – 4.3 m
Reach	7.6 – 7.8 m



**COMPACT WHEELED EXCAVATOR  
TEREX® TW85**



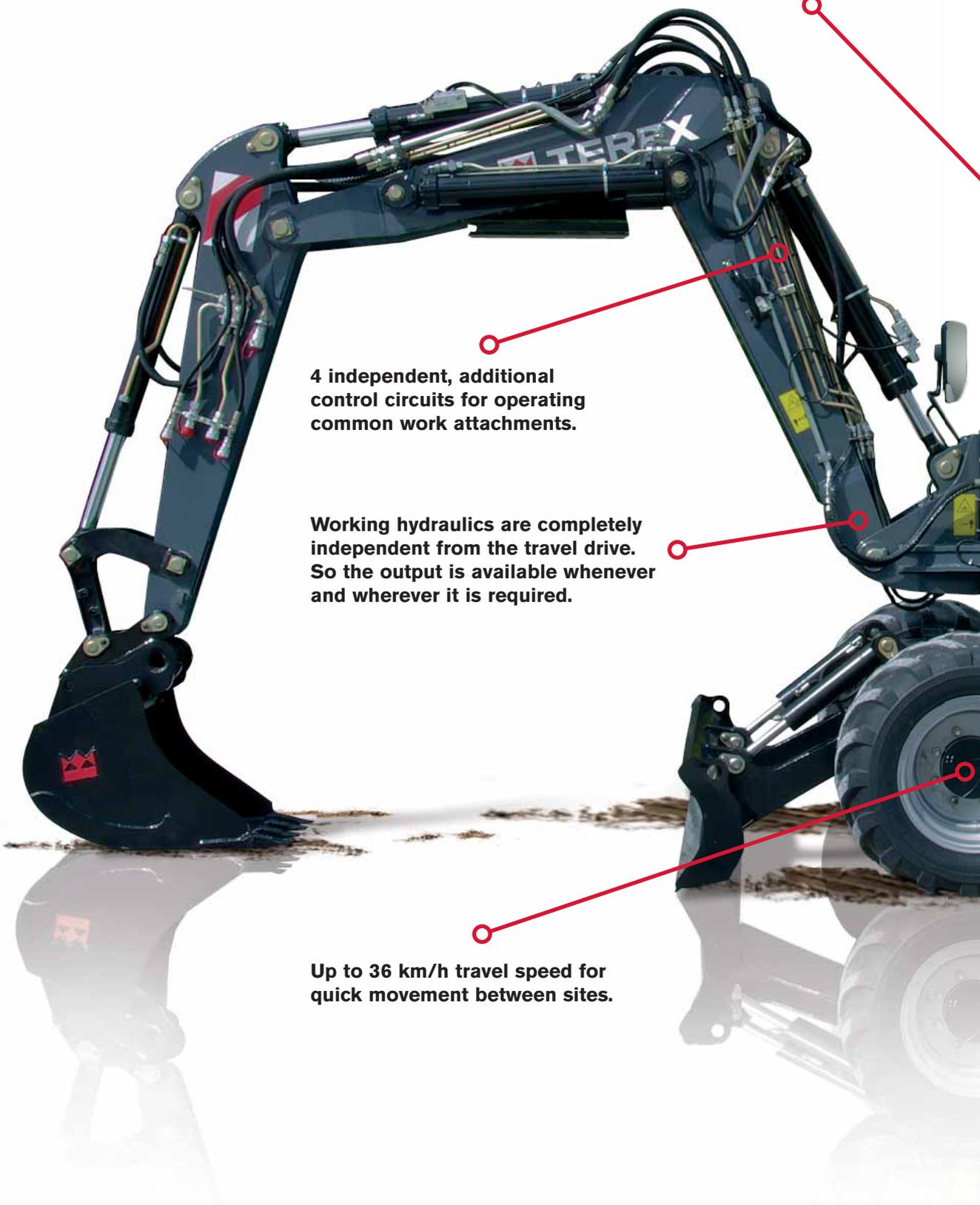
# GAIN THE ADVANTAGE

Terex Fingertip Control for precise work cycles.

4 independent, additional control circuits for operating common work attachments.

Working hydraulics are completely independent from the travel drive. So the output is available whenever and wherever it is required.

Up to 36 km/h travel speed for quick movement between sites.



# COMPACT WHEELED EXCAVATOR TEREX® TW85

Terex Smart Control system  
for efficient working and operation.

Ergonomic ROPS cab (FOPS optional)  
with excellent visibility and comfort.

Powerful, economical, and  
environmentally friendly engine  
EU Stage IIIB / EPA Tier 4 interim.

Hydraulic, temperature-controlled  
reversing fan for effective cooling.

Stable even with heavy working  
loads. Short tail – ideal for use  
in space-constrained applications.

Jolt free automatic drive with additional  
accelerator pedal for sensitive movement  
of the machine.

14° oscillating axle for stability  
even on uneven ground.

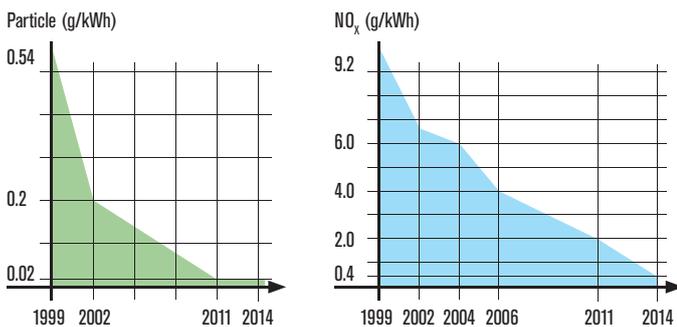


# WORK EFFICIENTLY

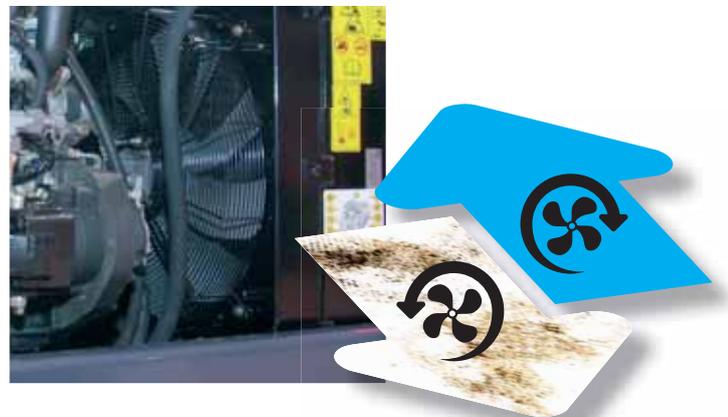
## The engine

The Terex® TW85 excavator is powered by an EU Stage IIIB/EPA Tier 4 interim compliant engine. An exhaust after treatment reduces pollutants by up to 90%, including nitrous oxides (NO<sub>x</sub>), hydrocarbons (HC) and particulate matter (PM). This is achieved due to an improved combustion and injection system and a diesel oxidation catalyst (DOC). The engine does not require a particulate filter.

- ▶ 10% more power.\* 74 kW (previously 67 kW) gives the wheeled excavator a noticeable increase in performance during work cycles.
- ▶ 10% less fuel consumption.\*



Charts show the legal guidelines



## REVERSING FAN

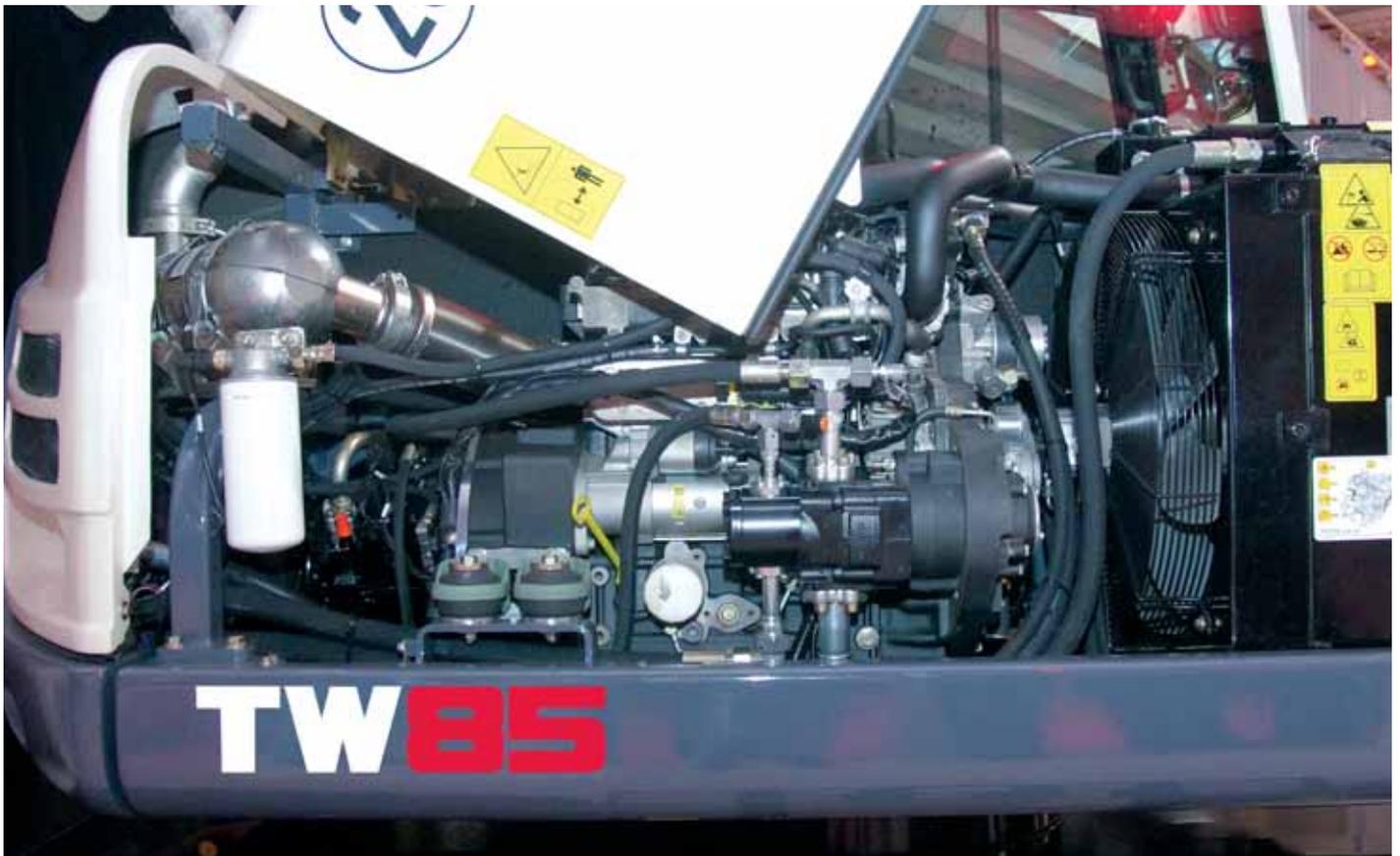
The hydraulically driven reversing fan is temperature controlled. The cooling output adjusts automatically to the cooling requirements of the engine, so the fan only runs when necessary. This saves fuel and protects the engine. The driver can turn on the fan manually when required. Cleaning through reversing can be both automatic or manual.

## THE AUTO-IDLING SYSTEM

The auto-idling system (as standard) saves fuel. When inactive the engine switches to idle – reducing emissions and operating costs.

\* compared to previous model

# COMPACT WHEELED EXCAVATOR TEREX® TW85





## The cab

With the ergonomically designed cab, the operator has an extraordinarily comfortable environment for excellent operator productivity.

From the clear, well-structured display, and the generously sized manual holder, to the soft touch interior and the optional climate controls – it's clear that the workstation in the Terex wheeled excavator is designed for the driver.

### DISPLAY AND INSTRUMENTS

For more visibility and comfort – work functions and machine information are in a central position and can be assessed at a glance. The data display has a similar display to a smart phone, using tiles. The 7" anti-reflective screen is very clear and is also used as a monitor for the optional rear view camera.

### THE KEYPAD

Extra wide pressure areas on the keypad help make selecting functions easy while wearing gloves, including the optional immobilizer.



### OTHER BENEFITS

- ▶ ROPS certified cab (FOPS optional).
- ▶ Tilting cab for easy service access.
- ▶ Enhanced visibility with additional mirrors.

**COMPACT WHEELED EXCAVATOR  
TEREX® TW85**

# EXPERIENCE COMFORT



# COMPACT WHEELED EXCAVATOR TEREX® TW85

# CONTROL WITH PRECISION



## Terex Smart Control (TSC)

The Terex Smart Control system has been developed exclusively by Terex and offers the driver excellent control over the excavator. Many excavator functions can be accurately adjusted to suit the driver and the construction site. This increases the efficiency and productivity of the excavator.

### EXEMPLARY MACHINE CONTROL

- ▶ **Hydraulic control circuits** are quick to operate. The litre quantity of the control circuit is also adjusted as a percentage during continuous operation, via the bar graph, according to the application and attachment.
- ▶ **Eco mode** is switched on at the touch of a button.
- ▶ **Climate control**  
Heating and defrosting can be set exactly to the desired conditions, automatic air conditioning optional.

### OTHER BENEFITS

- ▶ Pilot control for all control elements, which enables non-jolting, comfortable working cycles.



## **Terex Fingertip Control**

The sensitive inputs on the joystick enable a high level of precision and operator comfort. The dual-circuit hydraulics system with load-independent flow distribution (LUDV) allows simultaneous work movements that are independent of each other. Economic load sensing technology provides exact volume control and thereby saves fuel.



# ACHIEVE GOALS





# COMPACT WHEELED EXCAVATOR TEREX® TW85

## The undercarriage

The undercarriage combines high off-road ability with drive power. It can be configured exactly as required thanks to various equipment features and options.

### ▶ UNDERCARRIAGE OPTIONS

- Outriggers
- Support blade
- Front dozer blade

### ▶ TYRE OPTIONS

Choose between flotation tyres, twin tyres, or wide-base tyres.

### ▶ STEERING

2-wheel or all-wheel steering available.

### ▶ SPEED

With speeds of up to 36 km/h, quick movement between construction sites and locations is possible, reducing unproductive transport times.

### ▶ OSCILLATING AXLE.

The oscillating axle with 14° oscillating angle keeps the wheeled excavator stable even on uneven ground.

### ▶ LEVELLING

The optional floating function for the dozer blade makes it easier to level the ground and facilitates filling procedures or cleaning the construction site.

### OTHER BENEFITS

- ▶ The hydrostatic travel drive, independent of the working hydraulics system, can also be used as an auxiliary brake system.
- ▶ Automatic drive, additional accelerator pedal for sensitive movement of the machine.



# ACCELERATE RESULTS

## Boom and hydraulics

Terex offers a suitable boom system for different applications, allowing excavation work to be completed quickly and efficiently.

### ▶ STANDARD ARTICULATED BOOM

The standard articulated boom is suitable for high-performance excavating, transportation, and accurate placement of heavy loads – the operating range is designed for the largest working areas.

### ▶ CIRCULAR BOOM

The circular boom is ideal for construction sites where space is constrained, for example in the inner city.

### ▶ MONOBLOC OFFSET BOOM

The monobloc offset boom is ideal for excavation within the entire width of the machine in tight spaces. Thanks to its design, it can also work across obstacles, e.g. over crash barriers in road construction.

### ▶ BOOM DIPPERSTICK

The TW85 excavator obtains more reach through a lengthened boom dipperstick with 2200 mm.

## OTHER BENEFITS

- ▶ Articulated joint with wide articulation angle for excavating alongside walls.
- ▶ All cylinders fitted with end-position damping for anti-vibration operations.

## WEIGHT DISTRIBUTION AND CARRYING CAPACITY

The side-mounted engine stabilises the machine, especially when the off-set excavator arm is fully extended. With the internal counterweight (optional), the TW85 excavator holds its own in the 11 ton class.

## HYDRAULICS WITH FOUR INDEPENDENT CONTROL CIRCUITS

The TW85 wheeled excavator increases its performance with attachments thanks to the four independent control circuits. The driver can operate both a tilt rotator, including hydraulic quick attach system, and a hydraulically driven tool, e.g. sorting grabs, tarmac cutter, or cutting unit. The control circuits can be operated at the same time as they do not affect each other.

## Attachments

Increased versatility with numerous options and attachments. Tried and tested in their application:

- ▶ Light material bucket
- ▶ Standard bucket
- ▶ Ditch-cleaning bucket
- ▶ Swing bucket
- ▶ Hydraulic cutting unit
- ▶ Ripper tooth
- ▶ Hammer adapter
- ▶ Load hook
- ▶ Bolt-on load hook
- ▶ Mechanical quick attach system
- ▶ Hydraulic quick attach system
- ▶ Pallet forks





# REDUCE DOWNTIME

## **Ease of service**

A service module for the central electrical system is integrated into the service ladder: all relays and fuses are easily accessible from the ground. The hood can be opened without tools.

To comfortably climb in, the access stairs for the service hood have been lengthened towards the ground. The hood is provided with rubber buffers, which fit smoothly on the lengthened access steps, for machine protection.

No major hydraulic components are installed underneath the cab. Tilting the cab is not mandatory – but is possible when required.



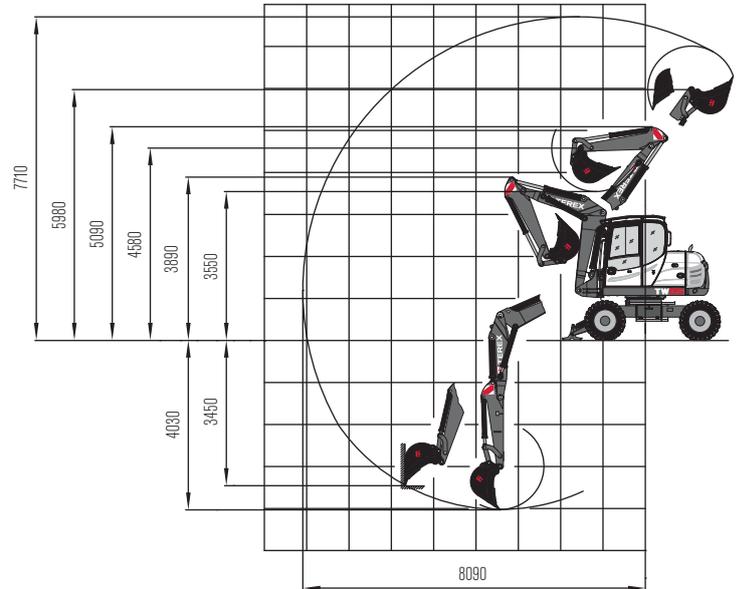
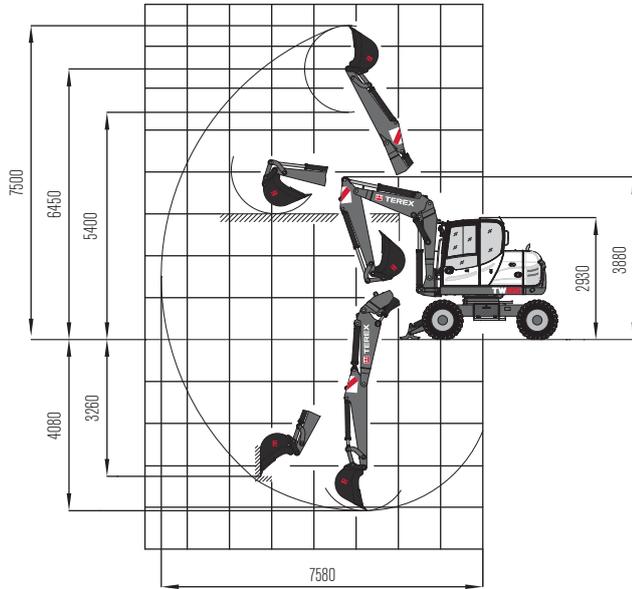
## **DIAGNOSTIC CONNECTOR**

The diagnostic connector for engine and machine data makes maintenance and service quicker thanks to improved communication between man and machine. CAN-Bus data are shown in the display.

## **OTHER BENEFITS**

- ▶ Easy access to the engine for straightforward maintenance.
- ▶ Daily service work can be carried out from ground-level to save time.

# WORKING RANGES & DIMENSIONS: TPA BOOM / CIRCULAR BOOM



## LIFTING CAPACITIES

Bucket hinge height		Load radius from centre of ring gear							
TPA boom		3.0 m		4.0 m		5.0 m		6.0 m	
		End	Side	End	Side	End	Side	End	Side
3.0 m	A	-	-	2.39	1.99	1.67	1.44	1.54	1.00
	V	-	-	1.83	1.90	1.31	1.35	0.87	0.94
1.5 m	A	3.74	2.85	2.23	1.89	1.91	1.35	1.91	0.97
	V	2.59	2.72	1.67	1.79	1.17	1.26	0.84	0.90
0 m	A	4.34	2.80	2.61	1.73	1.98	1.26	1.59	0.95
	V	2.37	2.60	1.54	1.64	1.10	1.19	0.80	0.87
-1.0 m	A	4.54	2.63	2.81	1.71	2.14	1.22	1.42	0.90
	V	2.30	2.49	1.47	1.59	1.06	1.14	0.78	0.85

Bucket hinge height		Load radius from centre of ring gear							
Circular boom		3.0 m		4.0 m		5.0 m		6.0 m	
		End	Side	End	Side	End	Side	End	Side
3.0 m	A	5.50	3.20	3.20	1.90	2.30	1.40	1.90	0.90
	V	2.90	3.10	1.60	1.80	1.20	1.30	0.80	0.90
1.5 m	A	5.10	2.90	3.80	1.80	2.60	1.30	1.90	0.90
	V	2.60	2.70	1.70	1.80	1.10	1.20	0.70	0.90
0 m	A	5.80	2.40	2.90	1.70	2.50	1.20	2.00	0.80
	V	2.10	2.30	1.50	1.60	0.90	1.10	0.70	0.80
-1.0 m	A	5.60	2.30	2.90	1.50	2.00	1.10	1.60	0.80
	V	2.00	2.20	1.30	1.50	1.00	1.10	0.70	0.80

All values in tons (t) were determined acc. to ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. All values were determined with load hook. With bucket attached, the weight difference between bucket and load hook must be deducted from the permissible operating loads. When used for load hook applications, excavators must be equipped with hose-rupture valves and overload warning device in compliance with EN 474-5.

Working equipment: TPA boom, dipperstick 2000 mm / circular boom, dipperstick 1650 mm; twin tyres.

Abbreviations: S = Supported by blade, T = Traveling

## DIMENSIONS

Fig. 1:  
Transport position

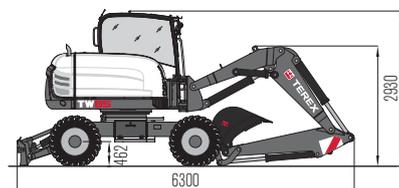


Fig. 2:  
Working envelope

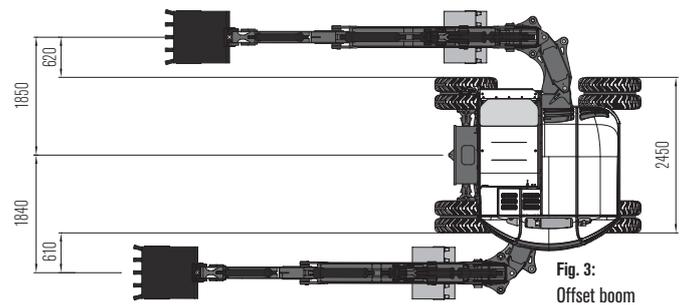
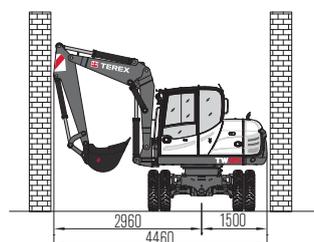


Fig. 3:  
Offset boom

# SPECIFICATIONS

## ENGINE

Manufacturer, model	Deutz, TCD3.6 L4
Type	4-cylinder turbo diesel engine with intercooler, EU Stage III B / Tier 4i
Combustion	4-stroke cycle, Common Rail injection
Displacement	3600 cm <sup>3</sup>
Net power rating at 2000 rpm (ISO 9249)	74.4 kW (101 hp)
Torque	410 Nm at 1600 rpm
Cooling system	Water

## ELECTRICAL SYSTEM

Nominal voltage	12 V
Battery	12 V / 135 Ah
Generator	14 V / 95 Ah
Starter	112 V / 4.0 kW

## TRANSMISSION

Hydrostatic travel drive in closed circuit with automatic adjustment of drawbar pull and speed irrespective of the working hydraulics. 4-wheel drive from reduction gear on front axle via cardan shaft to rear axle. Infinitely variable speed control forward and reverse.

2 speed ranges:

"Low"	0 – 6 kph
"High"	0 – 20 kph

4 speed ranges (high-speed version optional):

"Low"	0 – 6 / 0 – 19 kph
"High"	0 – 11 / 0 – 36 kph

## AXLES

Front: oscillating planetary drive axle, oscillating angle 11.5°.

Rear: rigid planetary drive axle.

## TYRES

Standard	8.25-20, 12 PR twin tyres
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## BRAKES

Service brake: Hydraulic pump accumulator two-circuit brake, acting on oil-immersed multi-disc brakes of front and rear axle.

Excavator brake: Acting on front and rear axle due to lockable service brake.

Auxiliary brake: Hydrostatic travel drive in closed circuit acting as non-wearing auxiliary brake.

Parking brake: Hydraulic spring-loaded brake, electrically actuated

## STEERING

Fully hydraulically controlled front axle with integrated steering cylinder.

Max. steering angle	32 °
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## SWING SYSTEM

Hydrostatic drive with 2-stage planetary gear and axial piston fixed displacement motor, also acts as wear-resistant brake. In addition, automatically controlled spring-loaded multi-disc brake acting as parking brake.

Swing speed	0 – 10 rpm
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## KNICKMATIK®

Lateral parallel adjustment of boom arrangement at full dig depth.

Angle of articulation / lateral adjustment left	53° / 870 mm
Angle of articulation / lateral adjustment right	67° / 990 mm

## FLUID CAPACITIES

Fuel tank	190 l
Hydraulic system (incl. tank)	190 l

## OPERATING DATA, STANDARD EQUIPMENT

Operating weight (monobloc / TPA / circular boom) acc. to ISO 6016	9100 / 9300 / 9500 kg
Total length, travel position (monobloc / TPA / circular boom)	5380 / 5520 / 5370 mm
Total height (travel position)	3950 mm
Transport dimensions: Monobloc / TPA / circular boom (L x H)	6520 x 2930 / 6120 x 2930 / 6680 x 2930 mm
Total width (twin tyres)	2450 mm
Total height (top of cab)	2930 mm
Tread width	1942 mm
Wheelbase	2240 mm
Ground clearance below cardan shaft	400 mm
Turning radius	6700 mm
Uppercarriage tailswing	1500 mm
Uppercarriage frontswing	2750 mm
Working envelope 180°	4460 mm
Working envelope 360° (monobloc / TPA / circular boom)	6090 / 5920 / 3330 mm
Bucket digging force acc. to ISO 6015	53,200 N
Stick digging force acc. to ISO 6015 (TPA boom)	42,600 N
Stick digging force acc. to ISO 6015 (circular boom)	42,000 N

## HYDRAULIC SYSTEM

Travel hydraulics: Closed circuit, independent from working hydraulics.

Pump capacity, max.	112 l/min
Working pressure, max.	420 bar

Working hydraulics: Axial-piston variable displacement pump with load sensing, coupled with a load-independent flow distribution (LIFD). Simultaneous, independent control of all movements. Sensitive maneuvers irrespective of loads.

Pump capacity, max.	142 l/min
Working pressure, max.	280 bar

The thermostatically controlled oil circuit ensures that the oil temperature is promptly reached and avoids overheating. Hydraulically driven fan with reversing function. Return filter installed in oil tank allows for eco-friendly replacement of filter elements.

Dual gear pump for all positioning and swing movements. Pressure cut-off valve for sensitive and energy-saving swing movements.

Pump capacity, max.	78 + 38 l/min
Working pressure, max.	230 bar

Control circuit for work attachments, proportionally actuated:

Pump capacity, adjustable	20 – 100 l/min
Working pressure, max.	280 bar

Two servo-assisted joystick controls (ISO) for excavator operations.

## CAB

Spacious, sound-insulated high visibility steel cab (ROPS certified). Sliding window in cab door. Safety glass windows, thermo windows tinted in green. Skylight thermo window, bronze tinted. Panoramic rear window. Front window supported by pneumatic springs, lockable for ventilation and slidable under cab roof. Windshield washer system. Storage compartment. Preparation for radio installation. Left-hand outside rear-view mirror.

Cab heating with windshield defroster through coolant heat exchanger with continuous fan. Fresh air and recirculating air filters.

Operator's seat MSG 85 (comfort version), hydraulic damping, extra-high backrest, tilt-adjustable armrests, longitudinal-horizontal suspension, mechanical lumbar support. Lap belt.

Instrument panel on the right hand side of the operator's seat with visual & acoustic warning device, hour-meter and safety module.

Working flood lights Halogen H-3.

Sound level values in compliance with EC-directives.

## WORK ATTACHMENTS

### BUCKETS

Bucket, QAS, light material, without teeth	300 mm wide, capacity 87 l
Bucket, QAS, light material, without teeth	400 mm wide, capacity 127 l
Bucket, QAS, light material, without teeth	600 mm wide, capacity 212 l
Bucket, QAS	300 mm wide, capacity 87 l
Bucket, QAS	400 mm wide, capacity 127 l
Bucket, QAS	500 mm wide, capacity 169 l
Bucket, QAS	600 mm wide, capacity 212 l
Bucket, QAS	800 mm wide, capacity 303 l
Bucket, QAS	900 mm wide, capacity 348 l
Ditch-cleaning bucket, QAS	1250 mm wide, capacity 251 l
Ditch-cleaning bucket, QAS	1500 mm wide, capacity 305 l
Swing bucket, QAS	1500 mm wide, capacity 305 l

## OPTIONAL EQUIPMENT

### BOOM OPTIONS

TPA boom, with dipperstick 2200 mm
Circular boom, with dipperstick 1650 mm
Monobloc boom, offset boom 850 mm, with dipperstick 2000 mm

### TYRES

365/70 R 18 MPT E-70 Conti (single tyres)
500/45-20 (single wide tyres)

### HYDRAULIC SYSTEM

Open return	Biodegradable hydraulic oil / ester-based HLP 68 (Panolin)
Terex 'Fingertip' control incl. second additional control circuit on left joystick	Terex 'Fingertip' control incl. third additional control circuit on left joystick
Hose-rupture / load-retaining valve for dipperstick (monobloc boom)	Hose-rupture / load-retaining valve for dipperstick and intermediate boom (TPA and circular boom)
Float position - dozer blade	Bucket control change-over (in case of forklift operation)
Switchover from ISO controls to SAE controls	Switchover from ISO controls to Schaeff controls
Sub-flow filter	

### DRIVER'S STAND

Operator's seat MSG 95 (premium version), air damping, extra-high backrest and tilt-adjustable armrests, longitudinal-horizontal suspension, seat and backrest heating, pneumatic lumbar support.	
Climatronic	Cooler, thermoelectric

### OTHER WORK ATTACHMENTS

Ripper tooth / QAS (1 tooth)	Cutting unit
Hydraulic hammer	Quick-change adapter for hydraulic hammer
Auger	Bolt-on load hook for bucket rod
Load hook integrated in quick-attach system	Fork carrier, 1240 mm wide
Further work attachments available on request	Forks, 1120 mm long, 100 mm wide, 45 mm high

### ENGINE

Automatic idling system	Diesel particulate filter (DPF)
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### CAB

Lighting package: 1 double beam working floodlight - cab-mounted rear centre, 1 working floodlight cab-mounted - front right	FOPS - skylight guard
Yellow beacon	Radio set installation kit
Sliding window in right-hand side cab window	

### OPTIONAL SUPPORT/DOZER SYSTEMS

Rear support blade, 2460 mm wide (with twin and wide tyres)
Rear support blade, 2290 mm wide (with single tyres)
Outrigger plates, flat, oscillating
Outrigger plates, rubber-coated, oscillating
Front dozer blade, 2460 mm wide

### OTHER OPTIONAL EQUIPMENT

Steering w/ switchover from 4WS to crab steering	Electrical refueling pump
Quick-attach system, mechanical (genuine Lehnhoff system), type MS08	Quick-attach system, hydraulic (genuine Lehnhoff system), type HS08
Anti-theft device (immobilizer)	Engine-independent diesel heater with fresh air circulation and timer
Additional rear weight, 365 kg	Rearview camera
Additional tool box	Special coating / adhesive films
Steering change-over in case of backfilling operation by using the dozer blade	Further optional equipment available on request

