COMPACT WHEELED EXCAVATOR

TW95
THE ALL-ROUNDER

The high-performance excavator

The Schaeff wheeled excavator TW95 is comfortable, powerful, and efficient. It is a true team player, just the sort of vehicle that every operator wishes they could have on the construction site – from landscaping up to construction and civil engineering projects. The lifting capacities in material logistics make the machine of particular interest for road construction. But also where branches and tree trunks need to be seized with the grab and loaded.

Due to the latest EU Stage IV / EPA Tier 4 Final engine generation, the TW95 works economically and environmentally friendly. The integrated Schaeff Smart Control System increases efficiency, the driver determines the optimum excavator power for different applications. This minimizes losses of energy or time.

With more than 50 years of experience in wheeled excavator technology, Schaeff has extensive specialist knowledge – a prerequisite for offering machines of the highest quality for a large number of applications.

Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating weight</td>
<td>9100 - 9500 kg</td>
</tr>
<tr>
<td>Engine power</td>
<td>74.4 kW (101 hp)</td>
</tr>
<tr>
<td>Bucket capacity</td>
<td>87 - 348 l</td>
</tr>
<tr>
<td>Digging depth</td>
<td>4.1 m</td>
</tr>
<tr>
<td>Reach</td>
<td>7.6 - 8.1 m</td>
</tr>
</tbody>
</table>
SECURE ADVANTAGES

- High-performance, economic and environmentally-friendly EU Stage IV / EPA Tier 4 Final engine.
- Ergonomic ROPS cab (FOPS optional) with excellent view and superior comfort.
- 14° axle swing for stability even on rough ground.
- Stable under heavy loads. Short tail – ideal in confined working conditions.
- Smooth automatic drive, additional accelerator pedal for delicate machine movements.
- Precise cycle times thanks to Schaeff Fingertip Control.
- 4 independent additional control circuits for operating of the standard work attachments.
- Travel speeds up to 36 kph for a rapid change of location.
- Rear view camera standard.
- Hydraulic, temperature-controlled reversible fan for efficient cooling.
- Schaeff Smart Control for efficient working and operation.

COMPACT WHEELED EXCAVATOR TW95
EFFICIENT WORKING

The engine
The Schaeff TW95 wheeled excavator is driven by a EU Stage IV / EPA Tier 4 Final engine. Exhaust gas after-treatment reduces pollutants by up to 90%, including nitrogen oxides (NOx), hydrocarbons (HC) and fine dust. This is achieved through an improved combustion and injection system and a diesel oxidation catalyst (DOC). The engine does not need a particulate filter.

THE REVERSIBLE FAN
The hydraulically-driven reversible fan is temperature controlled. The cooling capacity automatically adjusts to the cooling requirement. The fan only runs when necessary. This saves fuel and conserves the material. The driver can switch the fan manually if required. The cleaning by reversal takes place either automatically or manually.

THE AUTOMATIC IDLING
The auto idling function (optional) saves fuel. If there is no activity, the engine switches to the idling position – hence reducing the fuel consumption.

AUTOMATIC ENGINE SHUTDOWN
The switch-off time can be freely selected by the driver (optional).
The cab
The ergonomically-designed cab provides the operator with an exceptionally comfortable environment that enables a high degree of productivity. From the neatly arranged, clearly structured displays through the generously dimensioned stowage compartments to the Soft-Touch interior or the optional Klimatronik – one thing is clear: The workplace in the Schaeff wheeled excavator is designed for the driver.

DISPLAY AND INSTRUMENTS
For a clearer overview and greater convenience – work functions and machine information can be examined at a central position at a glance. The data display appears in a tiled look like a smart phone. The anti-reflective screen with a diagonal of 7” is very clearly arranged and is also used as a monitor for the standard reversing camera.

THE KEYPAD
Extra-wide pressure surfaces make safe operation easy, even when wearing gloves. The optional immobilizer can be operated.
Schaeff Smart Control

Schaeff Smart Control provides the driver with maximum control over the excavator. Many excavator functions can be adapted precisely to the driver and the construction site. This makes use of the excavator more efficient and more productive.

**EXEMPLARY MACHINE CONTROL**

- Hydraulic control circuits allow fast operation. The flow rate of the control circuits is also adjusted proportionally during continuous operation via a bar chart according to use and attachment tool.
- Eco-mode is switched on with just the touch of a button.
- Air conditioning control Heating and defrosting can be adjusted exactly to the required conditions, automatic air conditioning is optional.

**FURTHER ADVANTAGES:**

- Pilot control for all control elements; jerk-free, convenient cycle times.

Schaeff Fingertip Control

The sensitive inputs on the joystick enable high precision and ease of use. The dual-circuit hydraulic system with load independent flow sharing (LUDV) allows simultaneous, independent work movements. Economic load sensing technology ensures accurate volume control, hence saving fuel.
The undercarriage
The undercarriage combines high terrain mobility with drive power. It can be configured as exactly as required due to a wide range of equipment variants.

- **UNDERCARRIAGE OPTIONS**
  - Stabilizers
  - Support plate
  - Front dozer blade

- **HYDROSTATIC TRAVEL DRIVE**
  - independent from working hydraulics
  - also functions as an additional brake system

- **TIRE OPTIONS**
  - Low-pressure tires and twin tires or wide tires are available.

- **STEERING**
  - Can be equipped with two-wheel or all-wheel steering.

- **SPEED**
  - A quick change of construction site or location is possible with speeds of up to 36 kph. Non-productive transport times are reduced to a minimum.

- **AUTOMATIC DRIVE**
  - Additional accelerator pedal for delicate machine movements.

- **PENDULUM AXLE**
  - Due to the pendulum axle with a pendulum angle of 14°, the wheeled excavator is absolutely stable even on uneven terrain.

- **LEVELING**
  - The optional float function of the dozer blade makes leveling of the ground, the filling processes or clearing of the construction site easier.
SPEEDING UP RESULTS

Boom and hydraulic system
Schaef provides the right boom system for different applications. The excavation work is carried out in an optimum manner, quickly achieving the required result.

STANDARD ARTICULATED BOOM
The standard TPA booms are suitable for high-performance digging work, transport and precise positioning of heavy loads – the action radius is designed for the greatest possible working range.

LONG DIPPERSTICK
The TW95 wheeled excavator achieves a greater reach on the articulated boom due to an extended dipperstick with 2350 mm.

Knickmatik®:

ARTICULATED JOINT
with wide angle of articulation allows for working closely along walls.

WEIGHT DISTRIBUTION AND LOAD CAPACITY
The laterally installed engine stabilizes the machine, especially with a fully extended, offset boom.

HYDRAULIC SYSTEM WITH FOUR INDEPENDENT CONTROL CIRCUITS
Due to the four independent control circuits, the TW95 wheeled excavator increases its capacity with attachment tools. The driver operates a tilt rotator including hydraulic quick-attach system plus a hydraulically-driven tool, such as a sorting grab, asphalt cutter or cutting unit, for example. The control circuits can be operated at the same time, they do not influence each other.

The attachment tools
Excellent versatility thanks to numerous options and attachment tools. Tested and proven in use:

- Light-material bucket
- Standard bucket
- Ditch-cleaning bucket
- Swing bucket
- Hydraulic cutting units
- Ripper tooth
- Adapter for rock breaker
- Load hook
- Screw-on load hook
- Mechanical quick-attach system
- Hydraulic quick-attach system
- Pallet forks
MINIMIZING DOWNTIME

The service

Daily service work can be carried out from the ground, saving time.

A service bar with the central electrics is integrated in the service ladder: Hence, all relays and fuses are easy to access from the ground. The flap can be opened without tools.

For easier ascent, the ladder in the service flap is extended towards the ground. The flap is provided with rubber buffers, it lies gently on the extended ladder, the material is conserved.

There are no main hydraulic components mounted under the cab. Tilting of the cab is not required – but possible if necessary.

DIAGNOSTICS PLUG

The diagnostics plug for engine and machine data speeds up maintenance and service through better communication between man and machine. CAN bus data is shown on the display.
**TECHNICAL DESCRIPTION**

**ENGINE**
- **Manufacturer, model:** Deutz, TCD3.6 L4
- **Type:** 4-cylinder turbo diesel engine with intercooler, 155° Vee / 4-Stroke
- **Rated power acc. to ISO 8178 @ 2000 rpm:** 74.4 kW (101 bhp)
- **Torque:** 1120 Nm @ 1500 rpm

**ELECTRICAL SYSTEM**
- **Nominal voltage:** 12 V
- **Battery:** 12V / 85 Ah
- **Generator:** 14 V / 95 Ah
- **Starter:** 12 V / 4.0 kW

**HYDRAULIC SYSTEM**
- **Trench hydraulic: Ground controlled, independent from working hydraulics.**
- **Pump capacity:** 152 l/min
- **Working pressure:** 142 bar
- **Working hydraulic: Axial piston in-line displacement pump with load sensing, coupled with a load independent flow sharing LUDV.**
- **Operating data, standard equipment**

**OPERATING DATA, STANDARD EQUIPMENT**
- **Operating weight (monobloc / TPA / circular boom) acc. to ISO 6016:** 9500 / 9300 / 9000 kg
- **Total length (travel position):** 5430 / 5700 / 6000 mm
- **Total width (transverse):** 2580 / 2700 mm
- **Total height (top of ski):** 2550 mm
- **Track width:** 1610 mm
- **Wheelbase:** 2250 mm
- **Ground clearance below carrosserie:** 480 mm
- **Turning radius:** 6750 mm
- **Upstaging future 1st stage:** 1850 / 1000 mm
- **Seat height:** 950 / 900 mm
- **Standard bucket:** 0.05 / 0.15 m³
- **Longitudinal approach:** 70 / 125 / 38 km/h

**TECHNICAL SPECIFICATIONS**

**LIFTING CAPACITIES**

<table>
<thead>
<tr>
<th>Bucket/handle height</th>
<th>Load radius from center of ring gear</th>
</tr>
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<tbody>
<tr>
<td><strong>TPA boom</strong></td>
<td>3.0 m</td>
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<tr>
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<td>1.5 m</td>
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**DIMENSIONS**

**TECHNICAL DESCRIPTION**

**ENGINE**
- **Type:** 4-cylinder turbo diesel engine with intercooler, 155° Vee / 4-Stroke
- **Rated power acc. to ISO 8178 @ 2000 rpm:** 74.4 kW (101 bhp)
- **Torque:** 1120 Nm @ 1500 rpm

**ELECTRICAL SYSTEM**
- **Nominal voltage:** 12 V
- **Battery:** 12V / 85 Ah
- **Generator:** 14 V / 95 Ah
- **Starter:** 12 V / 4.0 kW

**HYDRAULIC SYSTEM**
- **Trench hydraulic: Ground controlled, independent from working hydraulics.**
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- **Working pressure:** 142 bar
- **Working hydraulic: Axial piston in-line displacement pump with load sensing, coupled with a load independent flow sharing LUDV.**
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</table>
EQUIPMENT

**BOOM SYSTEMS**
- Two-piece articulated boom (TPA), with dipperstick 2000 mm
- Two-piece articulated boom (TPA), with dipperstick 2200 mm
- Circular boom, with dipperstick 1650 mm
- Monobloc boom, dipperstick 2000 mm, offset boom 850 mm

**TRAVEL DRIVE**
- All-wheel drive, single-axle steering, 20 kph
- All-wheel drive, single-axle steering, 25, 30 or 36 kph
- All-wheel drive, all-wheel steering, 20, 25, 30 or 36 kph

**SUPPORT SYSTEMS**
- Front dozer blade, 2460 or 2290 mm wide (twin tires resp. narrow track tires)
- Rear support blade, 2460 or 2290 mm wide (twin tires resp. narrow track tires)
- Rear outrigger plates, flat
- Rear outrigger plates, rubber-coated

**TIRES**
- Twin tires 8.25-20 12PR with intermediate rings
- Narrow track tires 365/70 R18 MPT E-70
- Single tires 500/45-20

**HYDRAULIC SYSTEM**
- LUDV working hydraulics, axial piston pump with load sensing
- Control circuit for work attachments with continuous operation
- Schaeff ‘Fingertip’ control incl. 2nd & 3rd additional control circuit on left joystick
- Dozer blade float position
- Excavator control changeover: ISO-SCHAEFF
- Excavator control changeover: ISO-SAE
- Bucket control changeover in case of forklift operation
- Steering change-over in case of blade operation
- Hydraulic installation for quick-attach system
- Open return
- Load-retaining / nose-retaining valves, boom, intermediate boom and dipperstick cylinders
- Supplementary set nose-retaining / load-retaining valves for TPA boom, bucket cylinder
- Biodegradable hydraulic oil / ester-based HLP 68 (Panolin)

**QUICK-ATTACH SYSTEM**
- Quick-attach system, mechanical, incl. pins for mounting of quick-attach system
- Bucket pins for quick-attach system / Schaeff
- Bucket pins for direct mounting / Lehnhoff QAS
- Quick-attach system, mechanical (Lehnhoff) QAS, with load hook
- Quick-attach system, hydraulic (Lehnhoff) type HS DB, with load hook

**DIESEL ENGINE**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercooler</td>
<td>•</td>
</tr>
<tr>
<td>Direct electronic fuel injection / common rail</td>
<td>•</td>
</tr>
<tr>
<td>Diesel particulate filter (DPF)</td>
<td>Country specific</td>
</tr>
<tr>
<td>Automatic idle incl travel drive shut down</td>
<td>•</td>
</tr>
<tr>
<td>Automatic engine shut down</td>
<td>•</td>
</tr>
<tr>
<td>Temperature-dependent reversing fan</td>
<td>•</td>
</tr>
</tbody>
</table>

**CAB**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROPS steel cab, safety glazing, skylight window, hot water heating, sliding window in cab door, window washing system, working floodlight</td>
<td>•</td>
</tr>
<tr>
<td>Operator’s seat MSG 85, comfort version, hydraulic damping, extra-high backrest, longitudinal-horizontal suspension, mechanical lumbar support</td>
<td>•</td>
</tr>
<tr>
<td>Operator’s seat MSG 85, premium version, air damping, extra-high backrest, longitudinal-horizontal suspension, seat and backrest heating, mechanical lumbar support</td>
<td>•</td>
</tr>
<tr>
<td>Sliding window on right-hand side</td>
<td>•</td>
</tr>
<tr>
<td>FOPS-Guard for skylight window</td>
<td>•</td>
</tr>
<tr>
<td>Independent diesel heating with fresh air circulation and timer</td>
<td>•</td>
</tr>
<tr>
<td>2 kg ABC powder fire extinguisher</td>
<td>•</td>
</tr>
<tr>
<td>Schaeff coodbox</td>
<td>•</td>
</tr>
<tr>
<td>Air-conditioning (Climatronic)</td>
<td>•</td>
</tr>
<tr>
<td>Radio installation kit (without radio, incl. speakers)</td>
<td>•</td>
</tr>
<tr>
<td>Headrest</td>
<td>•</td>
</tr>
</tbody>
</table>

**OTHER OPTIONAL EQUIPMENT**

- Rear view camera
- Fan guard
- Battery disconnector
- Option package Lighting: rotating beacon, working floodlight cab-mounted, rear right and front right, working floodlight boom-mounted
- Option package Safety: Immobilizer (cabled key), motion alarm, fire extinguisher 2kg
- Option package Comfort: MSG 85, auto idling, air-conditioning
- Additional rear weight, approx. 360 kg
- Anti-theft device (immobilizer)
- Electrical refuelling pump
- Boom-mounted working floodlight (also available as LED version)
- Lighting package: Double beam working floodlight - cab-mounted rear right, working floodlight cab-mounted - front right (also available as LED version)
- Yellow rotating beacon, attachable (also available as LED version)
- Back-up alarm, signal-horn
- Central lubrication system
- Grab transport lock / piped

**WORK ATTACHMENTS (BUCKETS)**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option package Bucket 1: bucket 400 mm / 127 l, bucket 600 mm / 212 l, bucket 800 mm / 303 l, swing bucket 1500 mm / 305 l</td>
<td>•</td>
</tr>
<tr>
<td>Bucket, 400 mm wide, QAS, capacity 127 l</td>
<td>•</td>
</tr>
<tr>
<td>Bucket, 600 mm wide, QAS, capacity 212 l</td>
<td>•</td>
</tr>
<tr>
<td>Bucket, 800 mm wide, QAS, capacity 303 l (max. 1.0 t/m³)</td>
<td>•</td>
</tr>
<tr>
<td>Swing bucket, 1500 mm wide, QAS, capacity 305 l (max. 0.6 t/m³)</td>
<td>•</td>
</tr>
</tbody>
</table>

**OTHER WORK ATTACHMENTS**

- Hammer holder, plate without boring, QAS, Schaeff
- Bolt-on load hook for bucket rod
- Hammer adapter, type MS 08
- Fork carrier, QAS, 1040 mm wide, ISO 2328, class 2, form B
- Forks, 1100 mm long, 10 x 45 mm
- Further optional equipment available on request