

# MINI EXCAVATOR

















# MINI EXCAVATOR

# WHAT DOES A GOOD MINI EXCAVATOR MEAN TODAY?

Very simple: the ability to reliably do more.

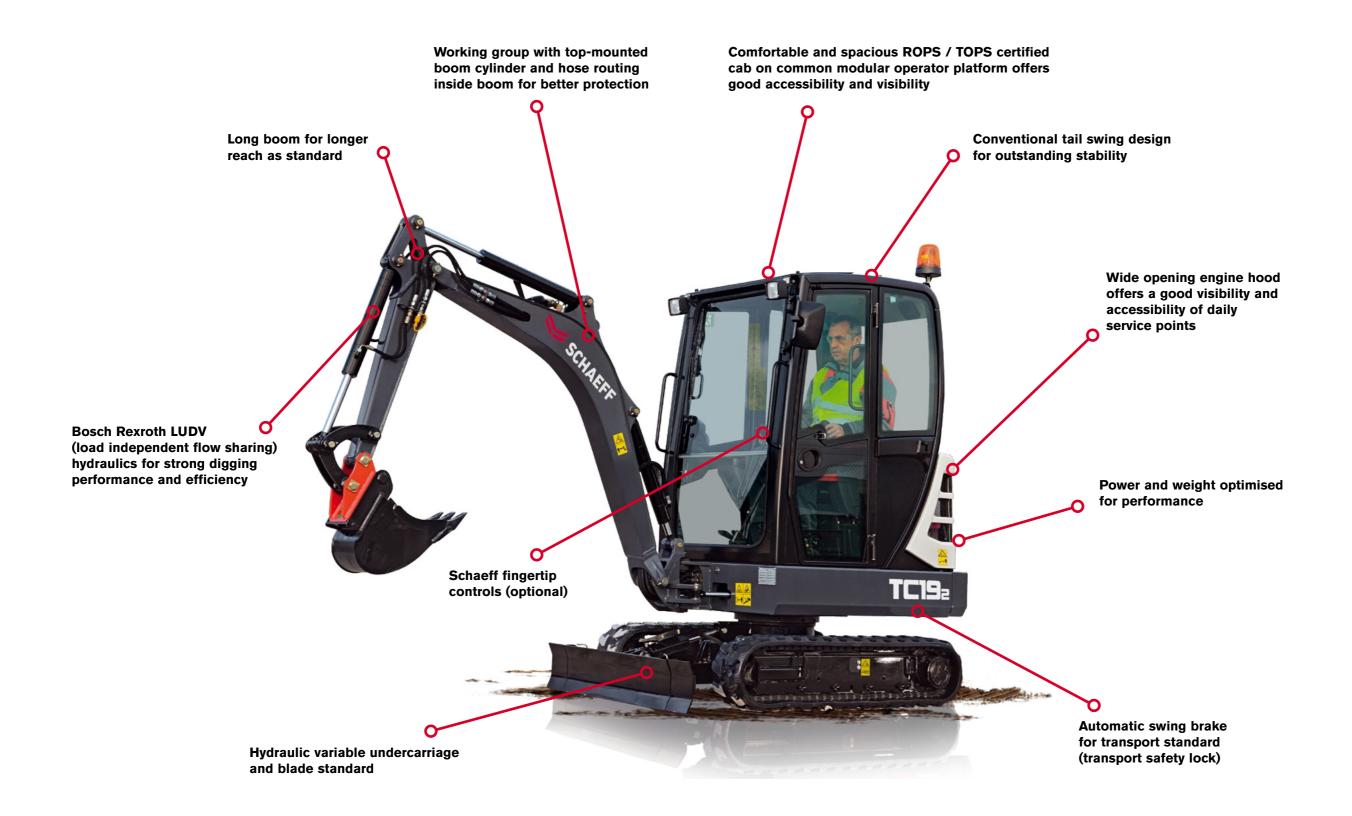
With these new models, you mini-excavate in XL format: High digging forces, functional design, more room. Schaeff offers four models in the 1.5-2.0 ton segment. From the rental version to the high-end configuration for demanding construction site deployment. All equipped with high performance genes.

# **TRADITION MEETS PROGRESS**

The Schaeff philosophy – conventional construction, Knickmatik™ cylinder and top-mounted cylinder – was retained. A completely new machine was constructed around these elements, from high performance brand components to the new driver's cab.

# "MADE IN GERMANY"

Machine Engineering Made in Germany – this is our claim: The XL mini excavators are completely designed and built in our plant in Crailsheim, Germany.





# **TC14**2

Operating weight kg Cab Canopy	1610 1500
Machine width mm	990 - 1340
Engine power kW (hp) Engine manufacturer	10.4 (14.1) Kubota D 722
Max. digging depth m Standard dipperstick Long dipperstick	2.26 -

# **EQUIPMENT**

- Digging equipment: Dipperstick 950 mm
- LUDV hydraulics
- Cab version optional
- Automatic swing brake (transport security)
- Rubber track, 230 mm wide (short pitch)

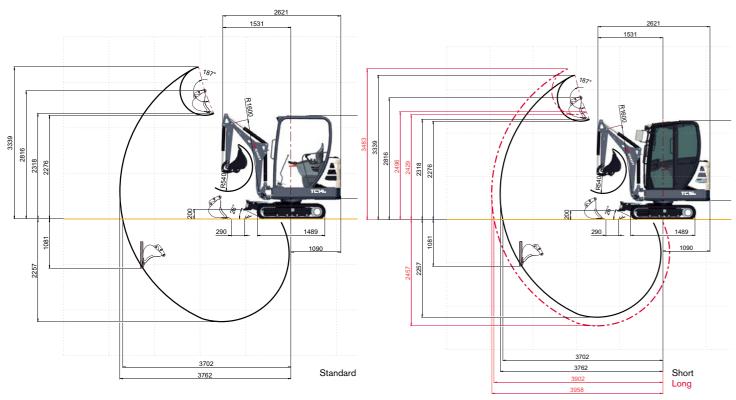


# **TC16**2

1650 1570
990 - 1340
10.4 (14.1) Kubota D 722
2.26 2.46

# **EQUIPMENT**

- Digging equipment: Dipperstick 950 mm standard Dipperstick 1150 mm optional
- LUDV hydraulics
- 1st and 2nd additional control circuit optional
- Hydraulically adjustable undercarriage optional
- Rubber track, 230 mm wide (short pitch)
- 2 travel speeds optional
- Automatic swing brake (transport security)





1840 1760	
990 - 1340	
12.0 (16.3) Kubota D 902	
2.54 2.74	

# **EQUIPMENT**

- Digging equipment: Dipperstick 950 mm standard Dipperstick 1150 mm optional
- LUDV hydraulics
- Schaeff Fingertip Control optional
- 1st and 2nd additional control circuit optional
- Hydraulically adjustable undercarriage standard
- Automatic swing brake (transport security)
- Rubber track, 230 mm wide (short pitch)
- 2 travel speeds
- Comfort seat

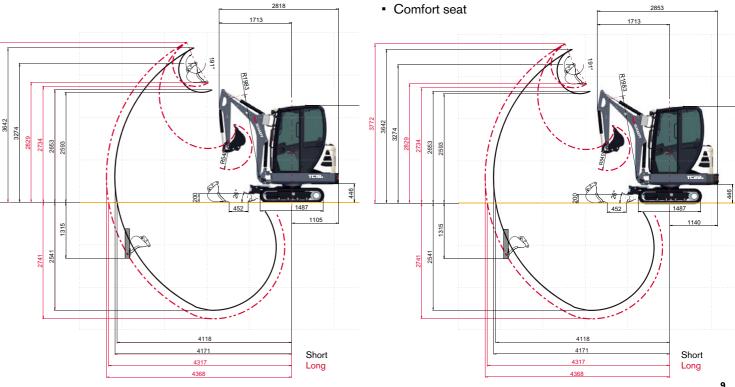


# **TC22**2

2010 1930
990 - 1340
12.0 (16.3) Kubota D 902
2.54 2.74

# **EQUIPMENT**

- Digging equipment: Dipperstick 950 mm standard Dipperstick 1150 mm optional
- LUDV hydraulics
- Schaeff Fingertip Control standard
- 1st additional control circuit standard
- 2<sup>nd</sup> additional control circuit optional
- Hydraulically adjustable undercarriage standard
- Automatic swing brake (transport security)
- Rubber track, 230 mm wide (short pitch)
- 2 travel speeds



# XL DIGGING PERFORMANCE

# HOW DOES A PRODUCTIVE MACHINE COME INTO BEING?

Very simple: combine high-performance components with good ideas.

# **ENGINE AND HYDRAULIC SYSTEM**

Compared to current competitors' models, the mini excavator offers an average 20 % more work capacity, for example, when quickly digging trenches.

The LUDV (load independent flow sharing) hydraulics is offered by only a few models in this class. Even for extreme terrain, the bucket digs in powerfully and is completely filled.

## **SECOND ADDITIONAL CONTROL CIRCUIT**

For precise operation of attachment tools, the second auxiliary control circuit is electrically proportional – optional from TC16-2 and upward. The driver exerts extremely precise control via a joystick (Schaeff Fingertip Control) – one special feature that is normally seen only in excavators of a higher class.



# **SCHAEFF KNICKMATIK®**

The Schaeff Knickmatik® with adjustable articulated boom system is ideal for working along walls or embankments. The total articulation angle is an impressive 120°. The swing cylinder does not project over the track and so is protected from damage.

## SCHAEFF FINGERTIP CONTROL

With the Schaeff Fingertip Control, the electrically proportional actuation of the hydraulic functions is extremely simple with a thumb wheel on the joystick. With it, the operator can precisely regulate the oil flow from "zero" to "full", an advantage when controlling the attachment devices such as clamshell buckets or swing buckets. Also available on the right joystick for the first control circuit and on the left joystick for the second control circuit.

### **CRAWLER UNIT**

The undercarriage is adjustable from 990 to 1340 mm. This guarantees full mobility on construction sites with narrow passageways/gates and offers exceptional stability on difficult terrain.







# **XL WORKSTATION**

# HOW CAN PERFORMANCE BE INCREASED INDEPENDENTLY FROM TECHNOLOGY?

Very simple: with a workplace that makes the driver better.

# **ROOMY CAB**

The new XL cab (ROPS/TOPS-certified) offers room and comfort like the "big ones". For quick entry, the console can be raised for more space to get in the cab. The footwell offers place enough – even for shoe sizes 15 and larger. In general, the workplace can be individually arranged to the size of the driver. The large glass area allows optimal visibility of the attachment tools and the work environment.

For optimal communication on the construction site, the right window can be opened to floor level.

## **Canopy version**

The machines are also available in canopy versions. With safety equipment such as the lockable storage compartment.







# XL EASE OF USE

# WHAT DOES "USER-FRIENDLY" MEAN?

Very simple: the combination of intuitive control and safe working.

# **WELL PROTECTED**

With Schaeff-specific construction features, damage is avoided right from the start: Because of the upper position of the top-mounted cylinder, there is never contact between the piston rod and the loading edge when loading trucks. The Knickmatik™ cylinder was deliberately placed on the left so it is protected from damage in case of a collision. The boom can be swiveled to both sides at fill digging depth.

# **HYDRAULIC HOSES**

The hydraulic hoses on the working device are well protected by the boom, or are located snugly along the boom.

## **TRANSPORT**

Because of the automatic swing brake, locking the upper carriage for transport is impossible to forget.

## **ERGONOMICS**

Particular focus was placed on ergonomics in all models; for example, the blade lever offers an integrated travel speed controller. This feature makes leveling and digging much easier.

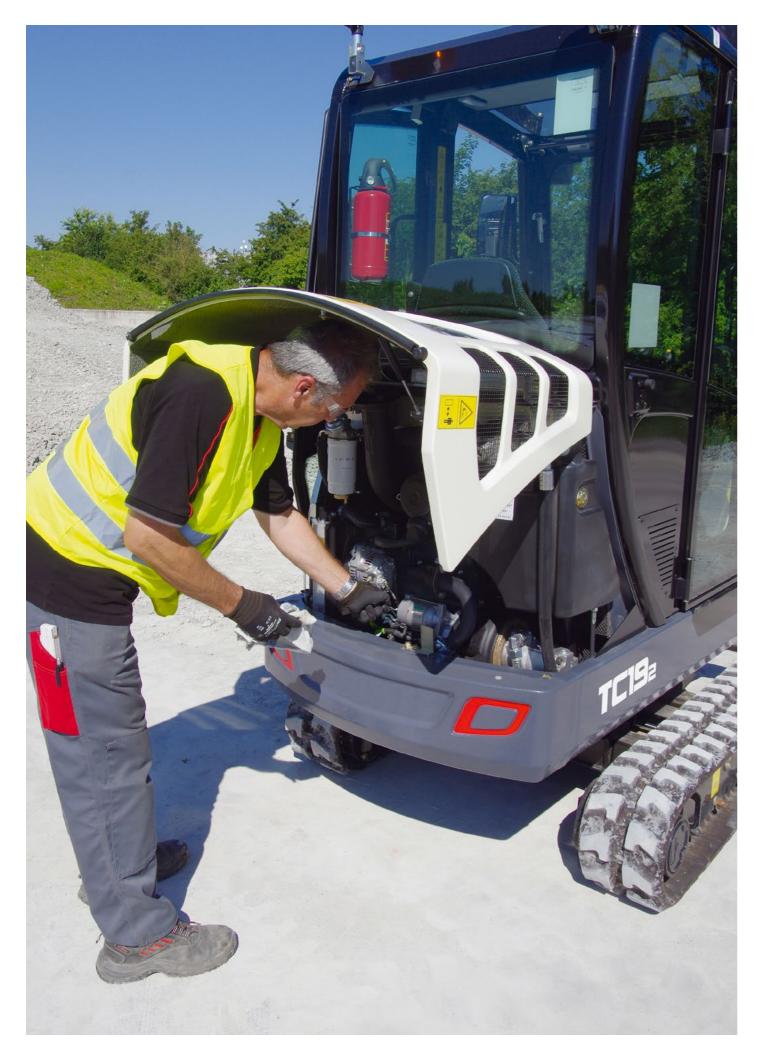
## **DISPLAY**

Instrument display with tank level, operating hour counter and more. An optical signal for faulty functions.











# **XL SERVICE**

# WHAT DOES DAILY SERVICE COME DOWN TO?



### Downtimes and service costs are reduced overall.

To save time during daily service, easy access and combined service points are key elements. Only one key is needed for all locks.

The engine hood opens upward widely so daily inspection points are directly accessible or can be monitored through gauge glasses or, on most models, are already visible from outside. Direct fueling from canisters is easily possible at working height.



# HIGH STANDARD

# RIGHT FROM THE START, INSIDE AND OUT

## **ENGINE / FUEL SYSTEM**

- Double air filter system
- Fuel filling ports at working height

## **UNDERCARRIAGE**

Rubber track, 230 mm wide (short pitch)

### **HYDRAULIC SYSTEM**

- Pressure accumulator for emergency reduction
- Straight-ahead driving function
- Automatic swing brake (transport security)

## **SAFETY SYSTEM**

• Engine safe-start device in left control console

## **WORK EQUIPMENT**

- Additional control circuit up to end of dipperstick
- Cab/canopy-mounted working floodlight
- LUDV (load independent flow sharing) hydraulics

## **SAFETY CAB**

- ROPS (Roll-Over Protective Structure)
- TOPS (TIP-Over Protective Structure)
- Weight-dependent adjustable comfort seat
- Safety belt
- Hydraulic pilot control with adjustable handrests
- Cab heating with windshield defroster
- Front windshield opening system with gas-dampened support
- Battery main switch
- 12 V connection
- Cabling for loudspeakers and antenna, radio plug-in compartment
- Side mirror
- Accelerator pedals
- Right window opens wide for optimum ventilation, visibility and communication
- Stow and store possibilities for tools, mobile phone and beverages

### **CANOPY**

- ROPS (Roll-Over Protective Structure)
- TOPS (TIP-Over Protective Structure)
- Weight-dependent adjustable comfort seat
- Safety belt
- Hydraulic pilot control with adjustable handrests
- 12 V connection
- Accelerator pedals
- Lockable storage compartment under the operator's seat
- Stow and store possibilities for tools, mobile phone and beverages



# GOOD OPTIONS

# OPTIMIZE YOUR MINI EXCAVATOR FOR USE

- Crane lifting beam
- Weatherproof roof
- Rubber track, 230 mm wide (long pitch)
- Prepared installation for radio plug-in module (radio plug-in compartment, antenna, 2 loudspeakers)
- Theft prevention system
- Switches and cabling for rotating beacon
- Additional work headlight and rotating beacon
- Load hook
- Load-retaining valve
- Oil variants
- Protective grid
- Fire extinguisher
- Travel motion alarm



# THE SCHAEFF ADVANTAGE

# **HOW DOES A MINI EXCAVATOR BECOME PART OF YOUR COMPANY?**

**Very simple:** with our additional services.

# **PAINTING SERVICE - SHOW YOUR COLORS**

So one matches the other: we paint with exactly your company colors.



# BrandIt® - THE SERVICE FOR YOUR LOGO ON THE MACHINE.

At Schaeff, your company takes a prominent place. Our engine hoods offer plenty of room for your logo and therefore, your market presence. As desired, with our support.

Talk about our BrandIt® service with your Schaeff







# FACTORY-APPROVED SPARE PARTS

# WHAT KEEPS YOUR SCHAEFF MINI EXCAVATOR READY TO OPERATE OVER THE LONG TERM?

Very simple: the original.

Schaeff spare parts ensure sustainable performance and efficiency for your machine. Order processing and service are fast: Schaeff dealers can order over 100,000 parts, from safety belts and control components to axles and filter elements. More than 95 % of the parts are shipped within 24 hours.

Contact your local Schaeff partner. There you will find further information and can order factory-tested spare parts.

# COMPACT PORTFOLIO

# **MADE IN CRAILSHEIM**



Manufacturing compact construction machines is our expertise and our great passion. We have dedicated ourselves to this task for over 75 years – over 30 of them at our Crailsheim, Germany, location.

Our ideas are part of the history of construction machines; for instance, the Knickmatik® or the top-mounted cylinder. And still today, our expertise dictates the market. Our expertise pays dividends for our customers: through extremely productive and reliable construction machines.

# Mini crawler excavators

10 models. Operating weights from 1.5 to 5.0 tons

### Midi crawler excavators

4 models. Operating weights from 5.65 to 12.5 tons

### **Compact wheeled excavators**

3 models. Operating weights from 7.4 to 11.0 tons

### **Compact wheel loaders**

5 models, bucket capacities from 0.5 to 1.8 cubic meters

# **SPECIFICATIONS**

## **ENGINE**

Manufacturer, model	Kubota, D902 Tier 4 final
Туре	3-cylinder diesel engine
Bore x stroke	72 x 73.6 mm
Displacement	898 cm <sup>3</sup>
Power rating acc. to ISO 14396 @ 2300 rpm	12.0 kW (16.3 HP)
Torque max. @ 1800 rpm	52.1 Nm
Air filter with safety cartridge and maintenance switch	
Cold-starting aid	Glow plugs

# **ELECTRICAL SYSTEM**

Nominal voltage	12 V
Battery	12 V / 44 Ah
Generator	12 V / 40 A
Starter	1.4 kW
Lighting system:	1 work light front left on the cab / canopy
	(auxiliary headlamps optional)

# **TRANSMISSION**

Two-stage hydrostatic travel drive with axial piston variable displacement motor and reduction gear, fully enclosed. "Straight-Travel" function. Travel brake valves for downhill travel Travel speed, 1st gear 2.2 kph Travel speed, 2<sup>nd</sup> gear 4.1 kph Forwards and backwards respectively. Manual switching via button on dozer lever.

## **UNDERCARRIAGE**

Torsion-proof welded design. Hydraulically retractable/extendable undercarriage provided as standard. Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler-chain tensioning. Sliding plate at the top

amang prima at the top	
Range of adjustment, outside edge of crawler chains	990 - 1340 mm
Width rubber tracks (short pitch)	230 mm
Total length (undercarriage)	1490 mm
Number of rollers per side	4
Track width	760 - 1110 mm
Gradeability	max. 60%
Drawbar pull 1st / 2nd speed range	1400 / 780 daN

## **DOZER BLADE**

Independent of drive train, sensitive control via separate hand lever	
Width x height	1340 x 235 mm
Dozer cut below ground	160 mm
Dozer lift above ground	200 mm
Slope angle	25°

## **STEERING**

Independent individual control of crawler chains, also counterwise. Sensitive actuation via manual levers, combined with pedals, foot rest on pedal console

### **SWING SYSTEM**

Internally toothed ring gear	
Swing speed	0 – 9 rpm

## **SWING BRAKE**

Hydrostatic drive, also acts as wear-resistant brake. Additional spring-loaded multi-disc brake. Considered as transport security



# **FLUID CAPACITIES**

Fuel tank	27 I
Hydraulic system (incl. tank 21 I)	26 I

## **KNICKMATIK®**

Lateral parallel adjustment of boom arrangement at full dig depth	
Angle of articulation / lateral adjustment left	59° / 414 mm
Angle of articulation / lateral adjustment right	60° / 555 mm

# **OPERATING DATA. STANDARD EQUIPMENT**

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Operating weight according to ISO 6016: Cab with 600 mm bucket, quick-attach s 1st additional control circuit, rubber tracks, including driver, full fuel tank	ystem, 1840 kg
-	ŭ
Operating weight according to ISO 6016: Canopy with 600 mm bucket, quick-attact 1st additional control circuit, rubber tracks, including driver, full fuel tank	cii systeili, 1760 kg
Transport weight: Cab, tank half full, with quick-attach system, w/out bucket	1715 kg
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Transport weight: Canopy, tank half full, with quick-attach system, w/out bucket	1635 kg
Total length (travel position)	2818 mm
Total length (trailer transport position)	3653 mm
Total height (top of canopy / cab)	2277 mm / 2295 mm
Total height (travel position)	2673 mm
Total width (undercarriage)	990 – 1340 mm
Total width of uppercarriage	980 mm
Uppercarriage tail swing	1105 mm
Uppercarriage front swing	1440 mm
Working envelope, bucket heaped (also with 600 mm bucket): 180° 360°	2546 mm 2883 mm
Swing clearance	446 mm
Reach max.**	4171 / 4368* mm
Digging depth max.**	2541 /2741* mm
Loading height approx.**	2593 / 2734* mm
Highest reachable height**	3642 / 3772* mm
Bucket rotation angle	191°
Bucket digging force acc. to ISO 6015	18,650 N
Stick digging force acc. to ISO 6015	11,000 / 9720* N
Specific ground pressure: Excavator cpl.	0.29 daN/cm <sup>2</sup>
* with dipperstick 1150 mm (optional)	

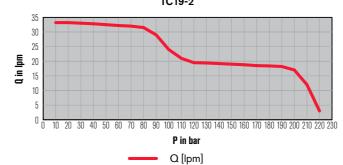
### \*\* Dimensions apply to machine standing on level ground, but can be increased by tilting the machine using the blade.

# **SPECIFICATIONS**

# **HYDRAULIC SYSTEM**

Pump capacity, max.	30.3 I/min
Working pressure	250 bar
Dual gear pump	
Load independent flow distribution (LIFD) for all working movements and travel drive	
Simultaneous independent control of all functions	
All excavator movements servo-controlled, ISO	
All functions are proportionally controllable	
Hydraulic oil cooler	
Full flow filtration through return filter	
Cylinders for boom, dipper arm and articulation with end position damping at both ends	
Bucket retract function with end-position damping	
Safety shutdown activated by exit barrier	
Additional control circuit as standard, control via foot pedal	
Additional control circuit with bypass for pressure-reduced return quantity	
Hydraulic power to the couplings:	
Pump capacity (pressure-controlled)	
@ 145 bar	30.3 lpm
@ 210 bar	19 lpm
Max. working pressure	210 bar
Diagram shows P/Q provided on couplers:	
B/8	

#### P/Q characteristic curve for additional control circuit 1 TC19-2



# CAB (STANDARD)

Spacious. sound-insulated full-vision steel cab, FOPS\*\*\* (acc. to ISO 3449), ROPS and TOPS (acc. to ISO 12117) certified

Very good all-round visibility, lean vertical support members

Safety glass

Front window supported by pneumatic springs, slidable under cab roof

Fixed window part without frame which obstructs the forward view

Door with large access on left hand side

Foldable console on left hand side for large entry access

Right door as emergency exit

Matching locks of hood, ignition and tank cap

Central connector for electrical cable

Wiper washer with wiper for windscreen

Interior light, coat hook

Operator's seat (comfort version), imitation leather:

Longitudinal and back tilt adjustment

Continuous weight adjustment as per operator's weight

Safety belt

Armrests height adjustable without tools

Cables for radio installation kit

Preparation for antenna

Large storage compartment under the operator's seat

Heating (water) with 2-speed fan and 4 adjustable exhaust nozzles

Temperature controller in cab

Storage pocket behind the operator's seat

Storage compartment for mobile phone (near 12V outlet)

1 left-hand outside rear-view mirror, foldable in front of windshield

1 working floodlight front left as standard

Display, fuel gauge, hour meter and warning lights

Fuse box easily accessible from outside of the cab

Very good ergonomics

Ergonomically arranged dozer blade lever

Fast / slow switch on dozer blade lever

Schaeff 'Fingertip' control for additional control circuit on right joystick, including holding function for continuous operation (optional)

Yellow beacon, radio, immobilizer (anti-theft device), working floodlights prepared for optional installation

\*\*\* FOPS-approved only with skylight guard (optional)

### CANOPY

Robust steel pipe construction. 4 support members for the best all-round visibility

1 working floodlight front left

FOPS (acc. to ISO 3449), ROPS and TOPS (acc. to ISO 12117) certified

Operator's seat (standard version), imitation leather:

Longitudinal and back tilt adjustment

Continuous weight adjustment as per operator's weight

Safety belt

Large lockable storage compartment under the operator's seat

Storage pocket behind the operator's seat

Display, fuel gauge, hour meter and warning lights

Easy and quick change of canopy to cab and vice-versa (< 1 hour)

Yellow beacon, immobilizer (anti-theft device), working floodlights prepared for optional installation

Reduction weight canopy

**CRANE TRANSPORT** 

Crane lifting beam for cab and canopy

## **SOUND LEVEL VALUES**

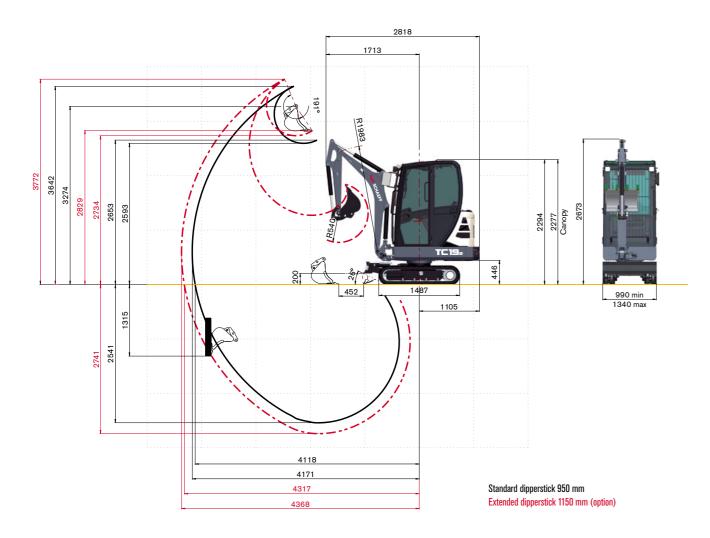
Noise emission ambience L <sub>wa</sub> cab / canopy	93 / 93 dB (A)
Noise emission cab $L_{nk}$ cab / canopy	79 / 79 dB (A)
Sound level values measured in compliance with Directive 2000/14/EC and EN474	

# **VIBRATION VALUES**

Effective values of acceleration for whole body	less than 0.5 m/s <sup>2</sup>
Effective values of acceleration for hand-arm	less than 2.5 m/s <sup>2</sup>
Vibration values in compliance with Directive 2006/42/EC and EM74	

# **WORKING RANGES & DIMENSIONS: MONOBLOC BOOM**





# **DIMENSIONS**

Fig. 1, 2: Excavation within the entire width of the machine

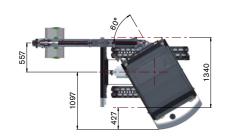
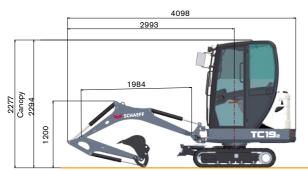


Fig. 3: Transport position - trailer transport



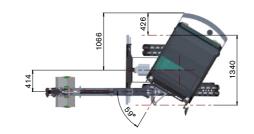
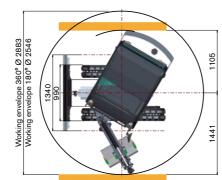


Fig. 4: Working envelope



# **LIFTING CAPACITIES**

Bucket hinge height							Load radius from center of ring gear														
Dipperstick 950 mm	Dipperstick 950 mm 1.5 m			2.0 m				2.5 m				3.0 m				3.5 m					
		UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE
		ť	•	=	٦	Į.	•	=	⊅	ď	•	=	<b>‡</b>	Ů.	]	=	<b>‡</b>	ľ	•	=	٦
2.0 m	1D	-	-	-	-	-	-	-	-	0.34	0.34	0.32	0.33	0.35	0.35	0.22	0.33	-	-	-	-
2.0 m	1/1	-	-	-	-	-	-	-	-	0.31	0.31	0.32	0.33	0.33	0.33	0.21	0.33	-	-	-	-
1.0 m	13	-	-	-	-	0.69	0.69	0.39	0.58	0.49	0.49	0.28	0.41	0.40	0.40	0.21	0.32	0.32	0.32	0.17	024
1.0 III	1/1	-	-	-	-	0.51	0.51	0.38	0.58	0.37	0.37	0.26	0.41	0.29	0.29	0.21	0.30	0.23	0.23	0.16	0.24
0.0 m	112	-	-	-	-	0.69	0.69	036	0.52	0.50	0.50	0.26	0.38	0.39	0.39	0.20	0.29	0.30	0.30	0.16	0.23
0.0 111	1/A	-	-	-	-	0.51	0.51	0.35	0.52	0.35	0.35	0.25	0.38	0.27	0.27	0.19	0.23	0.23	0.23	0.15	0.23
-0.75 m	1D	-	-	0.50	0.81	0.60	0.60	0.33	0.60	0.45	0.45	0.25	0.45	0.34	0.34	0.21	0.34	-	-	-	-
-0.70 111	1/1	-	-	0.48	0.81	0.44	0.44	0.32	0.60	0.33	0.33	0.23	0.45	0.26	0.26	0.21	0.34	-	-	-	-

Bucket hinge height						Load radius from center of ring gear															
Dipperstick 1150 mm			1.5	5 m		2.0 m				2.5 m				3.0 m				3.5 m			
		UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE
		ľ	•	=	<b>‡</b>	ľ	•	=	⊅	l <sup>t</sup>	j	=	<b>‡</b>	Į.	j	=	<b>‡</b>	ţ		=	<b>‡</b>
0.0	1D	-	-	-	-	-	-	-	-	0.40	0.40	0.30	0.40	0.31	0.31	0.23	0.30	0.30	0.30	0.17	0.30
2.0 m	1/1	-	-	-	-	-	-	-	-	0.39	0.39	0.29	0.40	0.30	0.30	0.23	0.30	0.23	0.23	0.17	0.30
1.0	+B	0.87	0.87	0.48	0.84	0.62	0.62	0.40	0.64	0.44	0.44	0.29	0.46	0.36	0.36	0.21	0.37	0.30	0.30	0.17	0.26
1.0 m	1/1	0.63	0.63	0.47	0.84	0.57	0.57	0.39	0.64	0.42	0.42	0.29	0.46	0.27	0.27	0.21	0.37	0.22	0.22	0.17	0.25
0.0	1D	0.81	0.81	0.47	0.66	0.67	0.67	0.35	0.54	0.50	0.50	0.26	0.38	0.38	0.38	0.20	0.31	0.30	0.30	0.17	0.25
0.0 m -0.75 m	1/1	0.53	0.53	0.46	0.61	0.42	0.42	0.34	0.52	0.34	0.34	0.26	0.38	0.26	0.26	0.20	0.30	0.21	0.21	0.16	0.24
	1D	0.79	0.79	0.42	0.82	0.60	0.60	0.33	0.62	0.44	0.44	0.26	0.45	0.33	0.33	0.20	0.36	0.23	0.23	0.16	0.24
-0.75 III	1/1	0.76	0.76	0.41	0.77	0.44	0.44	0.33	0.61	0.32	0.32	0.26	0.45	0.24	0.24	0.20	0.34	0.23	0.23	0.16	0.24

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 quick-attach system but without bucket. In case of mounted-on work attachments, the deadweights of the work attachments must be deducted from the permissible operating loads

Working equipment: Rubber tracks
Abbreviations: UR = Undercarriage extended

# **WORK ATTACHMENTS**

# **BUCKETS**

Bucket, QAS	250 mm wide, capacity 21 l, 27 kg
Bucket, QAS	300 mm wide, capacity 26 l, 30 kg
Bucket, QAS	400 mm wide, capacity 37 l, 35 kg
Bucket, QAS	500 mm wide, capacity 48 l, 41 kg
Bucket, QAS	600 mm wide, capacity 59 l, 46 kg
Ditch-cleaning bucket, QAS	1000 mm wide, capacity 91 l, 79 kg
Swing bucket, QAS	1000 mm wide, capacity 49 l, 79 kg

# **GRABS**

Clamshell grab GL 1250, grab swing brake	set of shells 250 mm wide, capacity 45 l
F1 1	

# **OTHER WORK ATTACHMENTS**

Hydraulic hammer	Cutting unit
Augers	Quick-change adapter for hydraulic hammer
Bolt-on load hook for bucket rod	Further work attachments available on request

# **OPTIONAL EQUIPMENT**

# **CRAWLER CHAIN OPTIONS**

Rubber tracks (long pitch), 230 mm wide

### BOOM

Monobloc boom, with extended dipperstick 1150 mm

### **HYDRAULIC SYSTEM**

Schaeff 'Fingertip' control (electro proportional) for additional control circuit for work attachments on right joystick, including holding function for continuous operation, actuation via rollers

Quick couplings for control circuit for work attachments (hammer hydraulics) incl. open return

Quick couplings for 2<sup>nd</sup> additional control circuit

Hose-rupture / load-retaining valves for boom and dipperstick cylinders

Schaeff 'Fingertip' control (electro proportional) incl. second additional control circuit on left joystick, including holding function for continuous operation, actuation via rollers

Supplementary set "Clamshell grab opening / closing", without quick couplings, for standard dipperstick

Quick couplings for supplementary set "Clamshell grab opening / closing"

Biodegradable hydraulic oil / ester-based HLP 68 (Panolin)

## CAB

Rain guard FOPS - skylight guard

Lighting package: Cab-mounted working floodlight Radio set installation kit (speakers) front right and rear right, boom-mounted working

floodlight, yellow beacon

Fire extinguisher, ABC powder 2 kg

# OTHER OPTIONAL EQUIPMENT

Mechanical quick-attach system

Ouick-attach system, mechanical

(genuine Lehnhoff system), type MS01 or MS03

Safety package: hose-rupture / load-retaining valves for boom and dipperstick cylinders, fire extinguisher, immobilizer, motion alarm

Crane lifting gear

Back-up alarm, signal-horn (can be switched off) Special colour options

Immobilizer, transponder key

Further optional equipment available on request

**OPERATOR'S STAND** 

Operator's seat (comfort version), fabric-covered Operator's seat (standard version), fabric-covered



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