SCHAEFF

A YANMAR BRAND

MINI EXCAVATOR



Specifications

Operating weight	1220 kg
Engine power	9.2 kW (12.5 hp)
Bucket capacity	10 - 80 l
Dig depth	1.95 m
Reach	3.27 m

Features

- Zero-tail version
- Telescopic undercarriage (830-1000 mm)
- Simple folding extendable blade for dozer applications
- ROPS protection bar w/ 2 vertical support members, foldable rearwards, allowing the machine to travel under low overhead heights
- Boom adjustable by 50° to the left, 90° to the right, enables excavation directly in front of walls
- Wide range of proven work attachments

TC10Z

SPECIFICATIONS

ENGINE

Manufacturer, model	Yanmar, 3TNV70-WBVB
Type	3-cylinder diesel engine, fully compliant with 97/68/EC and Stage II emissions regulations of the US Environmental Protection Agency (EPA)
Combustion	4-stroke, swirl chamber injection
Displacement	854 cm^3
Power rating acc. to DIN 6270B at 2000 min^{-1}	9.2 kW (12.5 hp)
Torque max. @ 1600 rpm	52 Nm
Cooling system	Water

ELECTRICAL SYSTEM

Operating voltage	12 V

TRANSMISSION

Hydrostatic travel drive, fully enclosed.	
Travel speed, forward and reverse	0-2.1 km/h
Gradeability	30 deg. max

UNDERCARRIAGE

Maintenance-free crawler-type undercarriage. Hydraulically retractable/extendable undercarriage provided as standard.	
Width (outside edge of crawler chains)	830 - 1000 mm
Width rubber tracks	180 mm
Total length (undercarriage)	1440 mm

DOZER BLADE

Independent of drive train, sensitive control via separate hand lever. Cylinder protection as standard. Retractable/extendable.	
Width x height	830 / 1000 x 220 mm
Dozer cut below ground	230 mm
Dozer lift above ground	210 mm

STEERING

Independent, individual control of crawler chains, also counterwise. Sensitive control via hand levers, Pedal console serving as foot rest.	

SWING SYSTEM

Hydrostatic drive, also acts as wear-resistant brake. Internally toothed ring gear.	
Swing speed	0-10 min^{-1}

KNICKMATIK®

Lateral parallel adjustment of boom arrangement at full dig depth.	
Angle of articulation / lateral adjustment left	50 deg. / 590 mm
Angle of articulation / lateral adjustment right	90 deg. / 360 mm

FLUID CAPACITIES

Fuel tank	12 l
Hydraulic system	14.3 l
Cooling system	2.5 l



OPERATING DATA, STANDARD EQUIPMENT

Transport weight (with 2 support members, foldable)	1145 kg
Operating weight (with 2 support members, foldable) acc. to ISO 6016	1220 kg
Total length (travel position)	2270 mm
Total length (trailer transport position)	3040 mm
Total height (travel position)	2250 mm
Total height (trailer transport position)	1420 mm
Total width	830 / 1000 mm
Uppercarriage tailswing	650 mm
Uppercarriage frontswing	1080 mm
Working envelope 180° / 360°	1730 / 2160 mm
Ground clearance	140 mm
Bucket digging force (ISO 6015)	13,730 N
Stick digging force (ISO 6015)	5590 N
Ground pressure (rubber crawlers)	0.26 daN/cm^2

HYDRAULIC SYSTEM

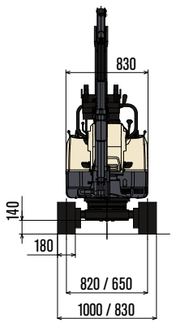
Pumpenfördermenge	2 x 11 l/min
Arbeitsdruck	210 bar
Arbeitshydraulik: Variable flow dual piston pump for all working movements and travel drive. Simultaneous independent control of all movements.	
Control circuit for work attachments (single or dual-action):	
Pump capacity	22 ~13 l/min
Max. working pressure	210 bar

OPERATOR'S STAND

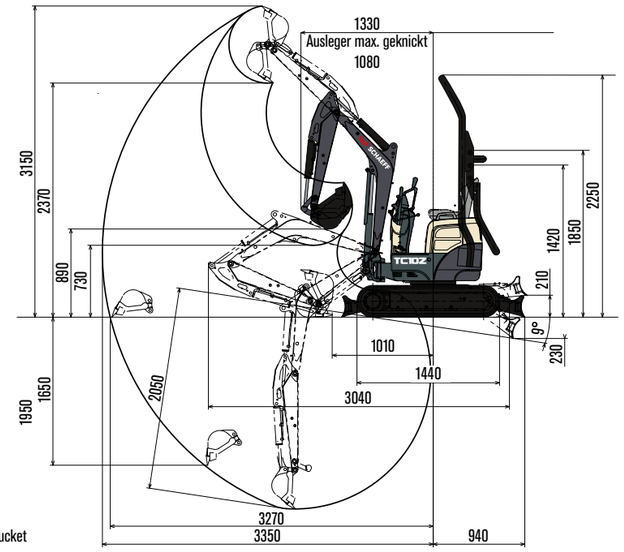
2 vertical support members, foldable, ROPS protective frame.	
Operator's seat with artificial leather covering, seat belt.	
Instrument panel in front of the operator's seat, safety bar. Safety lever to lock the main functions of the machine.	
Separate pedals for the 3rd circuit (PTO) and boom swing: possibility of combined movements.	
Working floodlight mounted on the boom.	
Noise emission cab L_{pA}	88 dB (A)
Measured in dynamic measuring cycle acc. to EC Directive 2000/14/EC & 2005/88/EG.	

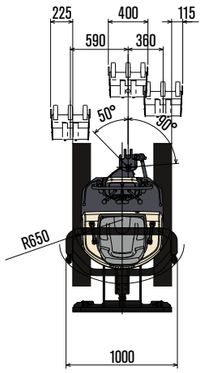
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WORKING RANGES & DIMENSIONS: MONOBLOC BOOM



Dimensions given in mm with standard Schaeff bucket





Standard dipperstick 980 mm

LIFTING CAPACITIES

Bucket hinge height		Load radius from centre of ring gear															
Dipperstick 980 mm		1.5 m				2.0 m				2.5 m				Max			
		UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE	UR	UE
2.0 m		-	-	-	-	185*	185*	145	185*	190*	190*	120	185*	185*	185*	115	185*
		-	-	-	-	185*	185*	145	185*	190*	190*	120	185*	185*	185*	110	185*
1.5 m		-	-	-	-	205*	205*	160	205*	205*	205*	120	155	230	230	95	125
		-	-	-	-	205*	205*	160	205*	205*	205*	115	155	160	160	90	125
1.0 m		370*	370*	255	380*	270*	270*	160	200	240*	240*	115	145	230*	230*	90	115
		365*	365*	245	380	265*	265*	155	200	180	180	110	145	145	145	85	115
-0.5 m		550*	550*	210	305	345*	345*	150	195	270*	270*	100	145	245*	245*	85	110
		355	355	200	305	230	230	145	195	170	170	100	145	130	130	80	110
0.0 m		600*	600*	205	275	385*	385*	140	185	305*	305*	100	140	260*	260*	85	115
		335	335	200	270	230	230	140	185	175	175	100	135	140	140	80	115
-0.5 m		615	615	210	260	395	395	135	180	305*	305*	105	145	280*	280*	90	125
		330	330	200	260	215	215	130	175	165	165	100	140	155	155	90	125

The data contained in this table represent the lifting capacity in accordance with ISO standard 10567. They correspond to 75% of the maximum static tipping load or 87% of the hydraulic lifting power. All values were determined with the bucket mounted. Datas marked * are the hydraulic limits of the lifting power.
Working equipment: Rubber crawlers. Bucket 400 mm wide (20 kg).
Abbreviations: UR = Undercarriage retracted, UE = Undercarriage extended

Tipping load, rating over front

Tipping load, rating over side 90°

WORK ATTACHMENTS

BUCKETS

Bucket, QAS	200 mm wide, capacity 10 l
Tieflöffel, Direktanbau	200 mm wide, capacity 10 l
Bucket, QAS	260 mm wide, capacity 15 l
Tieflöffel, Direktanbau	260 mm wide, capacity 15 l
Bucket, QAS	300 mm wide, capacity 18 l
Tieflöffel, Direktanbau	300 mm wide, capacity 18 l
Bucket, QAS	350 mm wide, capacity 21 l
Tieflöffel, Direktanbau	350 mm wide, capacity 21 l
Bucket, QAS	400 mm wide, capacity 25 l
Tieflöffel, Direktanbau	400 mm wide, capacity 25 l
Bucket, QAS	500 mm wide, capacity 32 l
Tieflöffel, Direktanbau	500 mm wide, capacity 32 l
Ditch-cleaning bucket, QAS	700 mm wide, capacity 26 l
Grabenräumlöffel, Direktanbau	700 mm wide, capacity 26 l
Ditch-cleaning bucket, QAS	800 mm wide, capacity 30 l
Swing bucket, QAS	1000 mm wide, capacity 70 l
Trapezoïdal bucket	200 mm wide, capacity 80 l

OTHER WORK ATTACHMENTS

Hydraulic hammer	Further work attachments available on request

OPTIONAL EQUIPMENT

OPERATOR'S STAND

Trackunit ME401 with GPS anti-theft device. With Dallas key (without subscription)	
Seat raiser	Documentation box

HYDRAULIC SYSTEM

Biodegradable hydraulic oil, standard	Biodegradable hydraulic oil / ester-based HLP 68 (Panolin)
Open return	Add. control circuit
Push Pull - Flat face - Hydr. connectors, specially for breaker fitting (to order only with hammer)	

OTHER OPTIONAL EQUIPMENT

Mechanical quick-attach system (QAS)	Special paint
Further optional equipment available on request	

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01.01.2017 · All figures and data can differ from the standard design. Subject to change without notice.