



OPERATING WEIGHT	6.8 t
ENGINE OUTPUT	44 kW (60 hp)
BUCKET CAPACITIES	65-270 l
MAX. DIG DEPTH	3.51 m
MAX. REACH	6.90 m



Wheeled Excavator TW70

Technical data

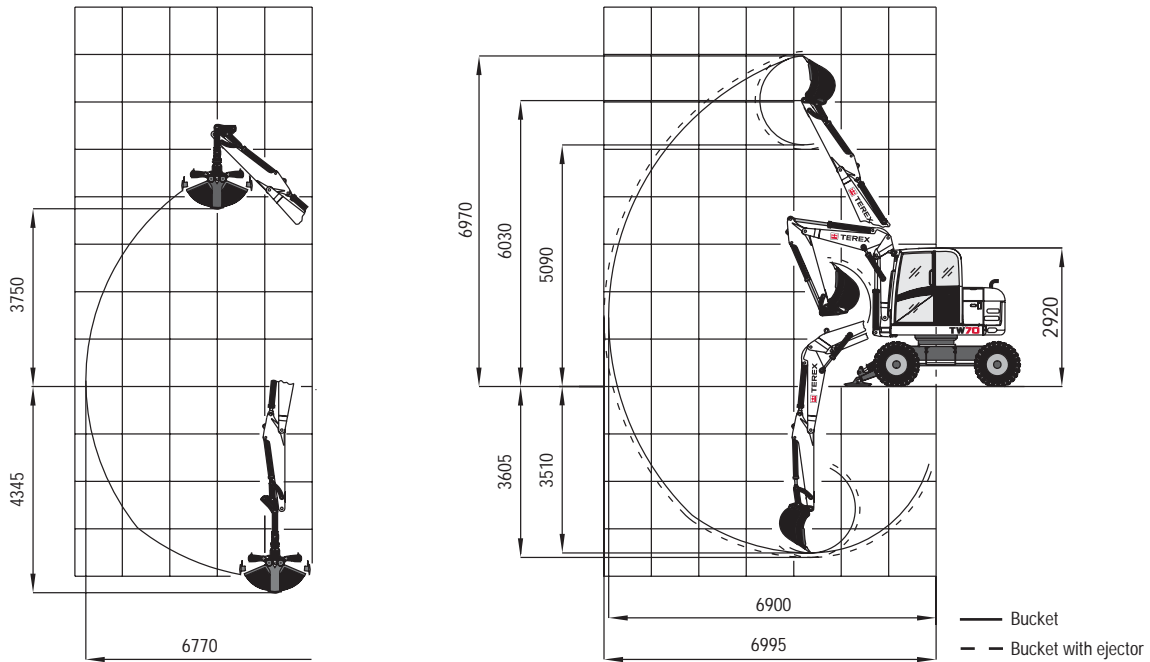
Engine	
Manufacturer, model	Deutz, F 4M 2011
Type	4-cylinder diesel engine, COM II/EPA II
Combustion	4-stroke cycle, direct fuel injection
Net power rating at 2400 rpm (ISO 9249)	44 kW (60 hp)
Displacement	3100 cm ³
Max. torque	195 Nm @ 1700 rpm
Cooling system	external oil cooling
Electrical system	
Nominal voltage	12 V
Battery	12 V / 105 Ah
Generator	12 V / 55 Ah
Starter	12 V / 3.1 kW
Power Transmission	
Hydrostatic travel drive with automatic adjustment of drawbar pull and speed. 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 km/h
"High"	0-20 km/h
Axles	
Front: oscillating planetary drive axle, oscillating angle 14°.	
Rear: rigid planetary drive axle.	
Tires	
Standard	8.25-20, 12 PR twin tires
Option	500/45-20 Extra wide-base tires
Option	365/70 R 18, narrow-track tires (< 2m)
Non-standard tires available on request	
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	35°
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 min ⁻¹
Knickmatik®	
Lateral parallel adjustment of boom arrangement at full digging depth.	
Angle of articulation / lateral adjustment left	48° / 735 mm
Angle of articulation / lateral adjustment right	72° / 880 mm
Fluid Capacities	
Fuel tank	150 l
Hydraulic system (incl. tank)	180 l

Operating data, standard equipment

Operating weight (three-piece articulated boom "TPA" acc. to ISO 6016)	6800 kg
Total length, travel position ("TPA")	5210 mm
Total height, travel position ("TPA")	3595 mm
Transport dimensions:	
"TPA" / Circular boom (L x H)	5710x2920 mm
Total width (twin tires)	2190 mm
Total height (top of cab)	2920 mm
Tread width	1682 mm
Wheelbase	2125 mm
Ground clearance below cardan shaft	420 mm
Turning radius	6600 mm
Uppercarriage tailswing	1450 mm
Uppercarriage frontswing	2750 mm
Working envelope 180°	4200 mm
Working envelope 360°	5500 mm
Bucket digging force (ISO 6015)	38,000 N
Stick digging force (ISO 6015)	30,000 N
Hydraulic system	
Travel hydraulics: Closed circuit, independent from working hydraulics. Max. pump capacity 96 l/min @ 420 bar.	
Working hydraulics: Dual axial piston variable-capacity pump with flow rate adjustment and pressure cut-off. Simultaneous, independent control of all movements. Sensitive maneuvers irrespective of loads.	
Max. working pressure	245 bar
Max. pump capacity	2x62 l/min
The thermostatically controlled oil circuit ensures that the oil temperature is promptly reached and avoids overheating. Return filter installed in oil tank allows for eco-friendly replacement of filter elements.	
Gear pump for all positioning and swing movements.	
Max. working pressure	205 bar
Max. pump capacity	43 l/min
Control circuit for work attachments:	
Max. working pressure	up to 205 bar
Pump capacity, reversible	43/95 l/min
Two servo-assisted joystick controls (ISO) for excavator operations.	
Cab	
Spacious, sound-insulated full-vision steel cab. Sliding window on right-hand side. 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 box. Radio pre-installation. Left-hand outside rear-view mirror.	
Cabin heating with front window defroster by oil heat exchanger with 3-stage fan. Choice between fresh air and recirculating air, fresh air filter.	
Fabric-covered, hydraulically cushioned driver's seat with armrests, height, tilt and weight adjustments. Safety 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.	

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Working range: Three-piece articulated boom "TPA"



Lifting capacities

Bucket hinge height		Load radius from center of ring gear							
Dipperstick 1650 mm		3.0 m		4.0 m		5.0 m		6.0 m	
		End	Side	End	Side	End	Side	End	Side
3.0 m	S	1.52	1.31	1.30	1.09	1.07	0.89	0.96	0.67
	T	1.48	1.31	1.27	1.09	0.88	0.82	0.68	0.62
1.5 m	S	1.79	1.47	1.35	1.16	1.20	0.84	0.96	0.65
	T	1.71	1.47	1.22	1.08	0.84	0.77	0.66	0.60
0 m	S	2.40	1.75	1.68	1.14	1.22	0.84	0.94	0.69
	T	1.80	1.61	1.16	1.04	0.84	0.76	0.70	0.64
-0.9 m	S	2.37	1.69	1.68	1.10	1.17	0.83	0.90	0.72
	T	1.70	1.56	1.13	1.02	0.83	0.75	0.71	0.67

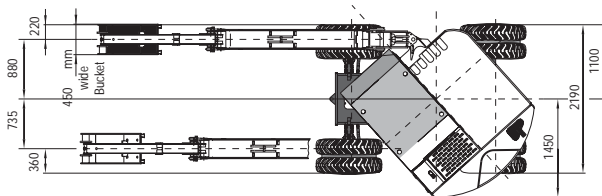
All values in tons (t) were determined acc. to ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. All values were determined with load hook. If a bucket is attached, the difference weights bucket minus load hook must be deducted from the permissible payloads. When 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: Three-piece articulated boom, twin tires, dipperstick 1,650 mm.

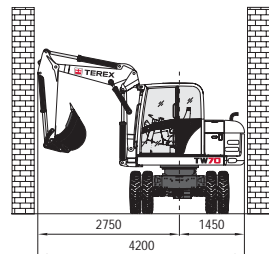
Abbreviations: S = Supported by blade, T = Traveling

Dimensions

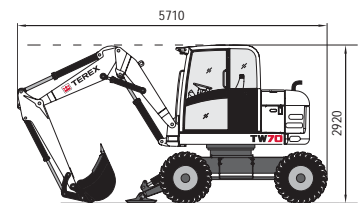
Illustr. 1:
Excavation within the entire width of the machine



Illustr. 2:
Working envelope



Illustr. 3:
Transport position



Terex GmbH Schaeffstrasse 8
D-74595 Langenburg, Germany

PHONE +49 (0)7905 / 58-0 FAX +49 (0)7905 / 58114
EMAIL info@terex-schaeff.com WEB terex-schaeff.de

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