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Elevate Your Power

TUBOSHU

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TUBOSHU

CRANE TRUCK ⁷
TTC25



TECHNICAL SPECIFICATION

CHARACTERISTICS

Manufacturer		TUBOSHU
Model		TTC25
Configuration Number		TUTZTGZ250UK

TECHINCAL DATA

CAPACITY	Max. lifting capacity	t	25
WEIGHT	Gross weight	t	32.4
POWER	Engine model	–	YCS06270–30 Eu3
	Max. engine power	kW/rpm	199 / 2300
	Max. engine torque	N·m/rpm	1050 / (1200–1700)
DIMENSIONS	Overall length	mm	12930
	Overall width	mm	2550
	Overall height	mm	3530
TRAVEL	Max. travel speed	km/h	89
	Min. steering radius	m	10.5
	Min. steering radius of boom tip	m	12.1
	Wheel formula	–	6×4
	Min. ground clearance	mm	250
	Approach angle	°	17
	Departure angle	°	12
	Max. gradeability	–	45
	Fuel consumption per 100 km	L	35
MAIN PERF.	Working temperature range	°C	–20 ~ +40
	Min. rated lifting radius	m	3
	Tail swing radius	mm	3590
	Boom sections	–	5
	Boom shape	–	U U-shape
	Max. lifting moment – Basic boom	kN·m	1117
	Max. lifting moment – Full-extension boom	kN·m	752
	Max. lifting moment – Full-extension boom + jib	kN·m	1139
	Boom length – Basic boom	m	10.7
	Boom length – Full-extension boom	m	42
	Boom length – Full-extension boom + jib	m	50.5
	Max. lifting height – Basic boom	m	10.2
	Max. lifting height – Full-extension boom	m	41.9
	Max. lifting height – Full-extension boom + jib	m	50.9
	Outrigger span (Vertical × Horizontal)	m	5.6 × 6.4
	Jib offset	°	0 / 15 / 30
AIR COND.	In operator's cab	–	Cooling
	In driver's cab	–	Cooling

TECHNICAL SPECIFICATION

AXLE LOAD

Axle 1	Axle 2	Axle 3	Gross Weight
6.4	13	13	32.4

HOOK & REEVING

Rated Load (t)	Number of Sheaves	Rope Reeving	Hook Weight (kg)
25	4	8	213
3	–	1	58

OPERATION DATA

Item	Max. single rope lifting speed (empty load)	Rope diameter / length	Max. single rope tension
Main winch	120 m/min	16 mm / 185 m	36.5 kN
Aux. winch	120 m/min	16 mm / 105 m	36.5 kN
Swing speed	2.5 r/min	–	–
Full derricking up / down time of boom	35 s / 60 s	–	–
Full extension / retraction time of boom	90 s / 135 s	–	–
Outrigger jack – Retraction	20 s	–	–
Outrigger jack – Extension	30 s	–	–
Outrigger beam – Retraction	20 s	–	–
Outrigger beam – Extension	25 s	–	–

MAIN BOOM LOAD CHART (TELESCOPING 100%)

Radius	10.7 m	14.6 m	16.5 m	18.6 m	20.5 m	22.4 m	24.4 m	26.3 m	28.2 m	30.3 m	32.2 m	34.1 m	36.1 m	38 m	42 m
3	25	25	18	20	18	16.5									
3.5	25	25	18	20	18	16.5									
4	25	24.5	18	20	18	16.5	18	16.5							
4.5	23.5	23	18	20	18	16.5	18	16.5							
5	22.5	21	18	20	18	16.5	18	16.5	12						
5.5	20.5	19.5	18	19	18	16.5	18	16.5	11.5	14					
6	19	18.5	18	17.5	18	15.9	17	16.5	11	14	11				
6.5	17.5	17	17.7	16.5	16.8	15.2	16	16.3	10.5	13.5	11	8.3			
7	16	15.5	16.6	15	15.5	14.6	15	15.3	10.1	13	10.5	8.3	10		
8	13.5	13	14.3	13	13.7	13.5	13.2	13.7	9.3	11.8	9.7	7.7	10	7.9	
9		11	12.4	11	12.1	12.5	11.5	12.2	8.6	10.7	9	7.2	9.1	7.4	6.6
10		9.1	10.6	8.9	10.1	11	9.7	10.5	8	9.7	8.3	6.7	8.3	6.9	6.6
11		7.5	9	7.3	8.5	9.3	8.1	8.9	7.4	8.6	7.8	6.3	7.5	6.5	6.6
12		6.5	7.7	6.1	7.2	8	6.8	7.6	6.9	7.3	7.2	5.9	6.9	6.1	6.1
13			6.7	5.1	6.2	7	5.9	6.5	6.4	6.1	6.7	5.6	6.2	5.7	5.9
14			5.8	4.3	5.3	6.1	5	5.6	6	5.4	5.9	5.2	5.8	5.3	5.3
15					4.7	5.4	4.3	5	5.5	4.7	5.2	5	4.9	5	5
16					4.2	4.9	3.7	4.5	5	4.1	4.6	4.7	4.4	4.7	4.6
18					3.3	4	2.7	3.6	4.1	3.1	3.8	4.2	3.5	3.9	3.7
20							2	2.9	3.4	2.4	3.1	3.5	2.8	3.2	3
22								2.3	2.9	1.9	2.5	3	2.1	2.6	2.3
24								2.5	1.4	2.1	2.6	1.7	2.2	1.9	
26											1.7	2.1	1.3	1.8	1.5
28											1.4	1.7	0.9	1.5	1.1
30												1.4	0.7	1.2	0.9
32														0.9	0.6

TECHNICAL SPECIFICATION

TELESCOPING STATUS (100%)

2nd boom	0	50	0	100	50	0	0	50	0	100	50	0	100	50	100
3rd boom	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100
4th boom	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100
5th boom	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100
Rope reeving	8	5	6	6	5	5	5	5	4	4	3	3	3	3	3

MAIN BOOM LOAD CHART (TELESCOPING 50%)

Radius	10.7 m	14.65 m	18.6 m	24.45 m	30.3 m	36.15 m	42 m
3	25	25	20				
3.5	25	25	20				
4	25	25	20	18			
4.5	22	22	20	18			
5	19.5	19.5	19	18			
5.5	16.5	16.5	16	16.5	14		
6	14	14	13.5	14.5	14		
6.5	12	12	11.5	13	12.5		
7	10.6	10.3	10	11	11.2	10	
8	8.2	7.9	7.7	8.4	8.9	9.2	
9		6.2	6	6.7	7.2	7.6	6.6
10		4.9	4.7	5.4	6	6.3	6.6
11		4	3.8	4.5	4.9	5.2	5.5
12			3	3.7	4.1	4.4	4.7
14			1.8	2.5	2.9	3.2	3.4
16				1.6	2	2.3	2.5
18				1	1.4	1.7	1.9
20					0.9	1.2	1.4
22						0.8	1
24							0.7

TELESCOPING STATUS (50%)

2nd boom	0	50	100	100	100	100	100
3rd boom	0	0	0	25	50	75	100
4th boom	0	0	0	25	50	75	100
5th boom	0	0	0	25	50	75	100
Rope reeving	8	8	6	5	4	3	3

JIB LOAD CHART

Main boom 42 m | Jib 8.5 m
Slewing 360° | Counterweight 6.5 t
Rope reeving 1 | Hook 3 t

Boom Angle (°)	42m+8.5m		
	0°	15°	30°
80	3	2.8	2.2
78	3	2.8	2.1
76	3	2.5	2
74	3	2.4	1.9
72	2.8	2.2	1.8
70	2.7	2.1	1.7
68	2.5	2	1.7
66	2.4	1.8	1.6
64	2.1	1.7	1.5
62	1.9	1.6	1.5
60	1.6	1.5	1.4
55	1.1	1	0.9
50	0.7	0.7	0.6

OPERATING RANGE — BOOM LENGTH TABLE

Boom Length (m)	Note	Boom Length (m)	Note
42 + 8.5	Full-extension boom + 8.5 m jib	26.35	Main boom
		24.45	Main boom
42	Full-extension boom	22.4	Main boom
38.05	Main boom	20.5	Main boom
36.15	Main boom	18.6	Main boom
34.1	Main boom	16.55	Main boom
32.2	Main boom	14.65	Main boom
30.3	Main boom	10.7	Main boom
28.25	Main boom		

TECHNICAL SPECIFICATION

CONFIGURATION

SYSTEM ITEM	DESCRIPTION
SUPERSTRUCTURE	
Operator's cab	"Ergonomic design with safety glass, corrosion-resistant steel plate, large internal space, softened interior trim, panoramic skylight, electric wiper. LMI display linked with main console.
Boom telescopic system	"5-section U-shape boom welded with high-tensile steel, single-board head. Basic boom 10.7 m, full-extension 42 m, jib 8 m. Max. boom + jib lift height 50.9 m. Double-cylinder telescoping with rope arranger.
Hoisting system	"Smooth hoisting by high-quality fixed-displacement piston motor. Normally-closed winch brake + balance valve to prevent hook drop/stall. Main hook 25 t, wire rope Ø16 mm × 185 m. Aux. hook 3 t, wire rope Ø16 mm × 105 m.
Derricking system	"Passive derricking-down with uniform controllable speed. Derricking angle: -2° ~ 80°
Hydraulic system	"Post-valve compensation for effective flow distribution and faster combined motion response.
Swing system	"360° swing, max. swing speed 2.5 r/min.
Control system	"Intelligent CAN BUS system (controllers, displays, meters, sensors); fault diagnosis system; intelligent power distribution; 7"" HD color display + silica gel panel; TZ load moment indicator (overload/over-release/over-winding protection).
Counterweight	"Fixed counterweight 6.5 t (no movable block).
Safety device	"Load moment indicator (±3% accuracy after empty-load calibration); hydraulic system with balance valves, overflow valves, bidirectional locks; boom-head height-limit switch; length & pressure sensors with auto cut-off and buzzer alarm.
Optional (Superstructure)	"Anemometer; secondary air filter; special painting; other equipment available upon request.
CHASSIS	
Driver's cab	"Integral all-steel cab, ergonomic design, vibration and noise isolation. Headrest seat, 3-point safety belt, adjustable steering wheel, large rear-view mirror, defroster, A/C, stereo radio, full instrument & control set.
Frame	"Slotted cross-section frame, extended in height and width vs. rectangular; simple and stable structure.
Engine	"YUCHAI inline 6-cylinder diesel, water-cooled + intercooler. Emission: Euro III. Fuel tank: 290 L.
Transmission	"FAST manual 9-forward + 1-reverse, large speed ratio range — climbs steep slopes and supports high-speed travel.
Axle	"Axle 1 steering; Axles 2 & 3 drive axles. Press-welded axle housing — stronger bearing capacity.
Suspension	"Front leaf-spring suspension, rear rubber suspension — reduces shock for ride comfort.
Steering system	"Mechanical steering with hydraulic power feedback (linkage feedback).
Tire	"Radial tires 12R22.5-18PR.
Wheel formula	6 × 4
Outrigger	"H-type layout, 4-point support, standard 5th outrigger; outrigger beams telescoping hydraulically.
Braking system	"Service brake: dual circuit. Parking brake: spring-loaded. Assisting brake: engine exhaust brake for long-slope safety.
Electrical system	"2×12 V maintenance-free battery with mechanical master switch (can cut off all power). BUS control system links superstructure & chassis.