

ZAXIS 33U TATA Excavator Specification

Engine

Model	Yanmar EDM-3TNV88
Type	4Cycle Water Cooled, direct injection
No. of cylinders	3
Total Displacement	1.842L
Rated Output PS(kW)	28.8PS (21.2)
Max Torque	105.5Nm(10.8kgfm) @1000rpm
Bore and Stroke	88mm x 90mm

Hydraulic System

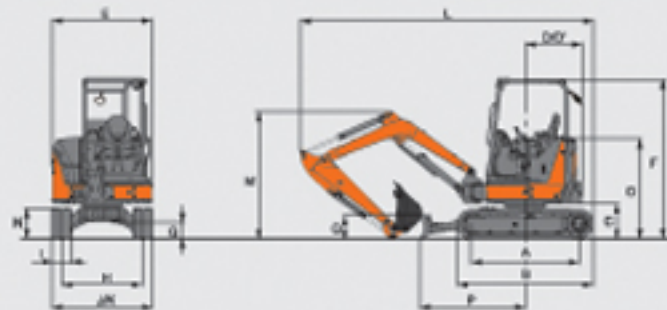
Hydraulic Pumps

Main Pumps	2 variable Displacement axial piston pumps
Maximum Oil Flow	2 x 38.4L/min 1x22.8L/min
Pilot Pump	1 gear pump
Maximum Oil Flow	10.8L/min

Relief Valve Settings

Implement Circuit	250 kgf/cm ² (24.5MPa)
Swing Circuit	170kgf/cm ² (16.7Mpa)
Travel Circuit	250kgf/cm ² (24.5Mpa)
Pilot Circuit	40kgf/cm ² (3.9Mma)

DIMENSIONS



Unit: mm

A Distance between tumbler	1670	K Overall width	1550
B Undercarriage length	2130	L Overall length	
C Counterweight clearance	540	With 1.17 m arm	4450
D Rear-end swing radius	775	With 1.52 m arm	4530
D' Rear-end length	775	M Overall height of boom	
E Overall width of upper structure	1550	With 1.17 m arm	1510
F Overall height of cab	2470	With 1.52 m arm	1850
G Min. ground clearance	270	N Track height	470
H Track gauge	1250	O Engine cover-height	1520
I Track shoe width	300	P Horizontal distance to blade	1620
J Undercarriage width	1550	Q Blade height	360

Backhoe Attachments

Capacity	Width		Front End Attachment	
ISO Heaped	With side cutters	Without side cutters	1.17m Arm	1.52 m Arm
0.04 m ³	293 mm	250mm	A	A
0.09 m ³	543 mm	500 mm	A	A

A General Purpose B Light Excavation C Loading Work

BUCKET AND ARM DIGGING FORCE

Arm length	1.17 m	1.52 m
Bucket digging force ISO	27.2 kN (2 770 kgf)	27.2 kN (2 770 kgf)
Arm crowd force ISO	16.9 kN (1 720 kgf)	14.6 kN (1 490 kgf)

Upper Structure

Swing speed	9.1min-1(rpm)
Swing torque	5.1kNm(520kgfm)

Under Carriages

Number of rollers on each side

Upper rollers	1
Lower rollers	4

Travel Device

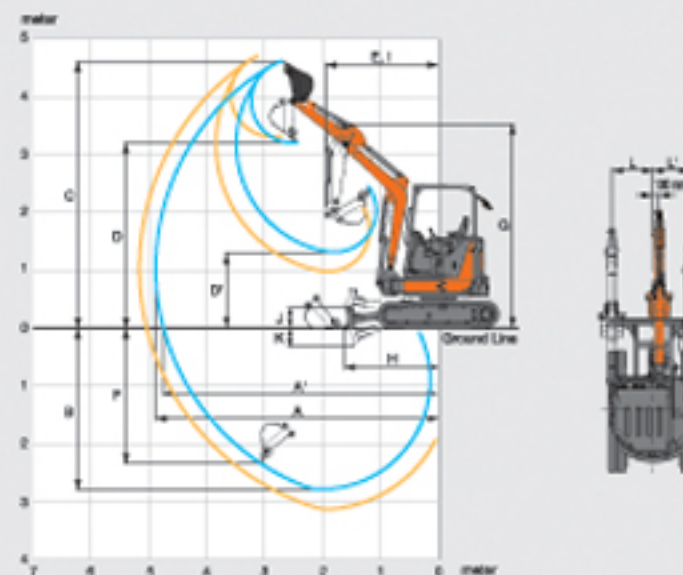
Travel speeds	High : 0 to 4.3. km/h Low : 0 to 2.8km/h
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Maximum Traction Force	27kN(2750kgf)
Grade ability	58% (30 Degree) Continuous

Service Refill Capacities

Fuel tank	42.0L
Engine coolant	3.9L
Engine oil	7.2L
Travel device (each side)	0.6L
Hydraulic system	56.0L
Hydraulic tank	32.0L

WORKING RANGES



Unit: mm

Arm length	1.17 m	1.52 m
A Max. digging reach	4 890	5 170
A' Max. digging reach on ground	4 750	5 040
B Max. digging depth	2 790	3 130
C Max. cutting height	4 620	4 470
D Max. dumping height	3 200	3 310
E Min. swing radius	1 970	2 090
F Max. vertical wall digging depth	2 330	2 530
G Front height at Min. swing radius	3 530	3 560
H Min. level crowding distance	1 610	1 480
I Working radius at Min. swing radius	1 580	1 860
J Blade bottom highest position above ground	360	360
K Blade bottom lowest position above ground	320	320
L/L' Offset distance	610 / 735	610 / 735