

ENGINE

Model	Yanmar 4TNV88C-PSY
Type	Water-cooled, 4 cylinder, with commonrail and DPF
Exhaust emissions	Stage V
Rated power	29.1 kW / 2 400 rpm
Max. torque	144.9 Nm / 1 500 rpm
Displacement	2 190 cc
Batteries	1 × 12 V / 120 Ah

RELIEF VALVE SETTINGS

Implement circuit	245 bar
Swing circuit	191 bar
Travel circuit	245 bar
Pilot pressure	35 bar

DIMENSIONS (TRANSPORT)

A Transport length	5 390 mm
B Transport width	1 960 mm
C Upperstructure carriage	1 760 mm
D Height over cabin/ROPS	2 630 mm
E Height of Boom – transport	2 060 mm
F Overall length of crawler	2 510 mm
G Tail length	980 mm
H Track gauge	1 560 mm
I Undercarriage width (blade)	1 960 mm
J Horizontal distance to blade	1 790 mm
K Blade height	340 mm
L Track height	610 mm
M Track pads width	400 mm
N Min. ground clearance	325 mm
O Counterweight clearance	675 mm
P Engine cover height	1 660 mm
Q Tail swing radius	980 mm
R Center distance of tumblers	1 970 mm

LIFTING CAPACITIES OF LOWER DOZER BLADE

A	Load point height	Radius					Digging reach
		2.0 m / 6.6 ft	3.0 m / 9.8 ft	4.0 m / 13.1 ft	5.0 m / 16.4 ft	Maximal	
	4.0 m kg					1 035 845	
	13.1 ft lb					2 387 1 859	
	3.0 m kg		1 050 815			1 050 655	
	9.8 ft lb		2 310 1 793			2 310 1 441	
	2.0 m kg	1 545 1 190	1 190 790			1 055 580	
	6.6 ft lb	3 399 2 618	2 618 1 738			2 321 1 276	
	1.0 m kg	2 020 1 110	1 365 760	1 080 560		1 075 555	
	3.3 ft lb	4 444 2 442	3 003 1 672	2 376 1 232		2 365 1 221	
	Ground kg	2 165 1 075	1 445 735			1 100 575	
	Line lb	4 763 2 365	3 179 1 617			2 420 1 265	
	-1.0 m kg	2 735 2 000	1 975 1 075	1 325 735		1 110 655	
	-3.3 ft lb	6 017 4 400	4 345 2 365	2 915 1 617		2 442 1 441	
	-2.0 m kg	2 135 2 050	1 370 1 100			1 040 905	
	-6.6 ft lb	4 697 4 510	3 014 2 420			2 288 1 991	

SERVICE REFILL CAPACITIES

Fuel tank	78 l
Engine coolant	4.2 l
Engine oil	7.4 l
Drive (per side)	0.9 l
Hydraulic system	80 l
Hydraulic oil tank	52 l

PERFORMANCE

Swingspeed	10 rpm
Max. travel speed	High 4 km/h, slow 2.7 km/h
Max. travel force	40.7 kN
Gradeability	30°
Bucket capacity	0.152 m³
Ground pressure	0.32 kg/cm²
Bucket digging force ISO	32.5 kN
Arm digging force ISO	22.9 kN

OPERATING WEIGHT

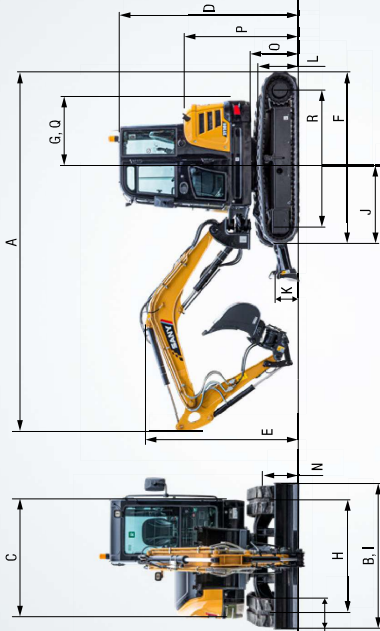
SY50U*	5 300 kg
* Includes 75 kg (165 lb) operator and full fuel tank and excludes bucket.	

UNDER AND UPPER STRUCTURE

Boom length	2 700 mm
Arm length	1 500 mm
Bottom rollers	4
Top rollers	1
Rotation device	Planetary gear reducer driven by an axial piston motor, automatic hydraulic released slewing brake

LIFTING CAPACITIES OF UPPER DOZER BLADE

A	Load point height	Radius					Digging reach
		2.0 m / 6.6 ft	3.0 m / 9.8 ft	4.0 m / 13.1 ft	5.0 m / 16.4 ft	Maximal	
	4.0 m kg					1 025 845	
	13.1 ft lb					2 255 1 859	
	3.0 m kg		985 815			790 655	
	9.8 ft lb		2 167 1 793			1 738 1 441	
	2.0 m kg	1 485 1 190	960 790			700 580	
	6.6 ft lb	3 287 2 618	2 112 1 738			1 540 1 276	
	1.0 m kg	1 400 1 110	925 760	680 560		675 555	
	3.3 ft lb	3 080 2 442	2 035 1 672	1 496 1 232		1 485 1 221	
	Ground kg	1 360 1 075	905 735			700 575	
	Line lb	2 992 2 365	1 991 1 617			1 540 1 265	
	-1.0 m kg	2 735 2 000	1 355 1 075	900 735		800 655	
	-3.3 ft lb	6 017 4 400	2 981 2 365	1 980 1 617		1 780 1 441	
	-2.0 m kg	2 135 2 050	1 370 1 100			1 040 905	
	-6.6 ft lb	4 697 4 510	3 014 2 420			2 288 1 991	



WORKING AREA

A Max. digging reach	5 880 mm
B Max. digging depth	3 420 mm
C Max. digging height	5 450 mm
D Max. dumping height	3 805 mm
E Min. dumping height	1 410 mm
F Max. vertical digging depth	2 460 mm
G Overall height over arm by min. swing radius	4 155 mm
H Arm head distance with work equipment retracted as far as possible	1 690 mm
I Swing radius by max. boomswing (L)	2 260 mm
Swing radius by max. boomswing (R)	2 080 mm
Min. swing radius	2 520 mm
J Max. clearance when blade up	420 mm
K Max. depth of blade down	405 mm
L Offset boom (L)	745 mm
Offset boom (R)	710 mm
Max. boom-swing angle (L)	58°
Max. boom-swing angle (R)	54°

