

SANY SY16C—1.7 tonne Mini Excavator (Tow & Go)



TECHNICAL SPECIFICATIONS

ENGINE

Model	Yanmar 3TNV80F
Type	Water-cooled four-stroke diesel engine with turbulence chamber fuel injection
Exhaust emissions	Stage V
Rated power	14.6 kW / 2,400 rpm
Max. torque	64.7 Nm / 1,800 rpm
Displacement	1.267 cm³
Batteries	1x 12 V / 55 Ah

HYDRAULIC SYSTEM

Main pump	Variable displacement axial piston pump
Max. outflow	40 l/min
Travel motor	Variable displacement axial piston engine
Rotation device	Variable displacement axial piston engine

RELIEF VALVE SETTINGS

Implement circuit	245 bar
Swing circuit	162 bar
Travel circuit	245 bar
Pilot pressure	35 bar

SERVICE REFILL CAPACITIES

Fuel tank	27 l
Engine coolant	3.8 l
Engine oil	2 l
Drive (per side)	0.4 l
Hydraulic system	26 l
Hydraulic oil tank	21 l

PERFORMANCE

Swing speed	10 rpm
Max. travel speed	High 2.8 km/h, slow 2.2 km/h
Max. travel force	15.6 kN
Bucket capacity	0.04 m³
Ground pressure	29.1 kg/cm² / 30.8 kg/cm²
Grazeability	30°
Bucket digging force ISO	15.2 kN
Arm digging force ISO	9.2 kN

OPERATING MASS

SY16C	1,750 kg
SY18C	1,850 kg

UNDER AND UPPER STRUCTURE

Boom length	1,810 mm
Arm length	1,170 mm
Bottom rollers	3
Rotation device	Axial piston engine with planetary gear running in the oil bath and single-row slewing ring. Spring-loaded slewing gear parking brake, hydraulically released.
Undercarriage	Reinforced lower structure with larger dimensions. Welded drive frame in box design made of special material. Side frame welded to the drive frame.

LIFTING CAPACITIES OF LOWER DOZER BLADE

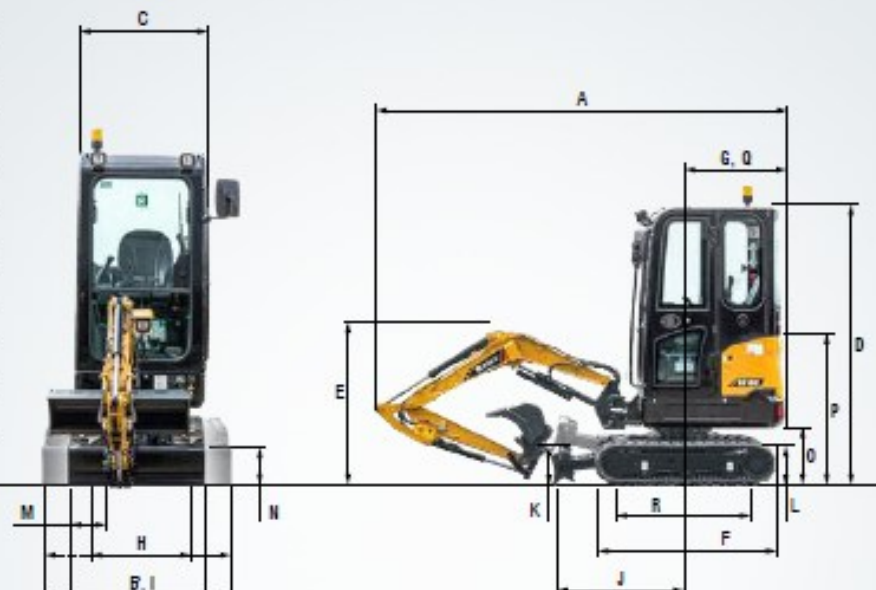
	Radius					Digging reach
	1.5 m / 4.9 ft	2.0 m / 6.6 ft	2.5 m / 8.2 ft	3.0 m / 9.8 ft	Maximal	
Load point height						
3.0 m / 9.8 ft						285 285
3.3 ft / 10.1 ft						627 627
2.0 m / 6.6 ft						278 278
6.6 ft / 20.0 ft						612 612
1.0 m / 3.3 ft						289 244
3.3 ft / 10.1 ft						634 527
Ground kg	826 826 631 528 456 393 357 295					304 252
lb	1817 1817 1398 1162 1003 843 785 649					669 554
-1.0 m / 3.3 ft	819 819 563 529 407 392					318 318
-3.3 ft / 10.1 ft	1802 1802 1239 1164 895 840					700 700

LIFTING CAPACITIES OF UPPER DOZER BLADE

	Radius					Digging reach
	1.5 m / 4.9 ft	2.0 m / 6.6 ft	2.5 m / 8.2 ft	3.0 m / 9.8 ft	Maximal	
Load point height						
3.0 m / 9.8 ft						285 285
3.3 ft / 10.1 ft						627 627
2.0 m / 6.6 ft						278 278
6.6 ft / 20.0 ft						594 612
1.0 m / 3.3 ft						235 244
3.3 ft / 10.1 ft						517 537
Ground kg	811 826 514 528 371 393 285 295					243 252
lb	1784 1817 1131 1162 816 843 627 649					535 554
-1.0 m / 3.3 ft	819 819 514 529 370 392					318 318
-3.3 ft / 10.1 ft	1802 1802 1131 1164 814 840					695 700

DIMENSIONS (TRANSPORT)

A Transport length	3 575 mm
B Transport width	980/1 350 mm
C Upperstructure carriage	980 mm
D Height over cabin/TOPS	2 420 mm
E Height of Boom – transport	1 175 mm
F Overall length of crawler	1 585 mm
G Tail length	900 mm
H Track gauge	750/1 120 mm
I Undercarriage width (blade)	980/1 350 mm
J Horizontal distance to blade	1 140 mm
K Blade height	280 mm
L Track height	375 mm
M Track pads width	230 mm
N Min. ground clearance	180 mm
O Counterweight clearance	470 mm
P Engine cover height	1 275 mm
Q Tail swing radius	920 mm
R Center distance of turnbuckles	1 220 mm



Attachments:

Hydraulic quick hitch

GP bucket pack (300-450-1000M)

Ripper

Auger drive + 300 / 450mm earth drills

2800KG ATM plant trailer



TRAILER SPECIFICATIONS

Tare Weight: 630KG

Payload: 2170KG

Deck Size: 2400mm (L) x 1610mm (W)



UEC EQUIPMENT HIRE