

SANY SY35U – 3.8T Mini Excavator



Attachments:

Civil Spec

Hydraulic quick hitch

GP Bucket Pack (300-450-600)

1200mm tilt mud bucket

Ripper

TECHNICAL SPECIFICATIONS

SY35U

ENGINE

Model	YANMAR 2TNV88F
Type	Water-cooled four-stroke diesel engine with turbolance chamber fuel injection
Exhaust emissions	Stage V
Rated power	18.2 kW / 2480 rpm
Max. torque	94.2 Nm / 1320 rpm
Displacement	1642 cc
Batteries	1 × 12 V / 80 Ah

HYDRAULIC SYSTEM

Main pump	Variable displacement axial piston pump
Max. oil flow	88 l/min
Travel motor	Variable displacement axial piston motor
Rotation device	Axial piston motor

SERVICE REFILL CAPACITIES

Fuel tank	40 l
Engine coolant	6.7 l
Engine oil	6.7 l
Drive (gear side)	0.7 l
Hydraulic system	45 l
Hydraulic oil tank	40 l

PERFORMANCE

Swing speed	9 rpm
Max. travel speed	High 4.5 km/h, slow 2.2 km/h
Max. travel force	42.5 kN
Gradeability	30°
Bucket capacity	0.12 m³
Ground pressure	0.32 kg/cm²
Bucket digging force ISO	39.4 kN
Arm digging force ISO	18.2 kN

OPERATING MASS

SY35U	3855 kg
-------	---------

UNDER AND UPPER STRUCTURE

Boom length	2540 mm
Arm length	1400 mm
Bottom rollers	4
Rotation device	Axial piston motor with planetary gear running in 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.

RELIEF VALVE SETTINGS

Implement circuit	245 bar
Swing circuit	206 bar
Travel circuit	245 bar
Pilot pressure	35 bar

LIFTING CAPACITIES OF LOWER DOZER BLADE

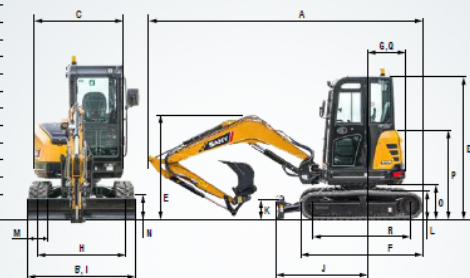
Load point height	Radius			Digging reach
	2.0 m / 6.6 ft	3.0 m / 9.8 ft	4.0 m / 13.1 ft	
4.0 m / 13.1 ft	802	860	902	942
2.0 m / 6.6 ft	1000	762	855	491
8.6 ft / 2.6 m	2200	1676	1891	1080
1.0 m / 3.3 ft	1447	703	1036	468
3.3 ft / 1.0 m	7187	1547	2279	1020
Ground line	1650	669	1137	452
1.0 m / 3.3 ft	3630	1472	2501	994
-1.0 m / -3.3 ft	2372	1245	1671	665
-3.3 ft / -1.0 m	5218	2739	3589	1463
-2.0 m / -6.6 ft	2057	1287	1217	601
-6.6 ft / -2.0 m	4525	2891	2677	1920

LIFTING CAPACITIES OF UPPER DOZER BLADE

Load point height	Radius			Digging reach
	2.0 m / 6.6 ft	3.0 m / 9.8 ft	4.0 m / 13.1 ft	
4.0 m / 13.1 ft	704	660	704	660
2.0 m / 6.6 ft	594	503	495	459
8.6 ft / 2.6 m	817	762	522	491
1.0 m / 3.3 ft	1797	1676	1148	1080
3.3 ft / 1.0 m	755	703	499	460
3.3 ft / 1.0 m	1661	1547	1098	1020
Ground line	720	669	482	452
-1.0 m / -3.3 ft	1584	1472	1060	994
-1.0 m / -3.3 ft	1377	1245	717	665
-3.3 ft / -1.0 m	3029	2739	1577	1463
-2.0 m / -6.6 ft	1423	1287	743	601
-6.6 ft / -2.0 m	3131	2891	1635	1520

DIMENSIONS (TRANSPORT)

A. Transport length	4915 mm
B. Transport width	1720 mm
C. Upperstructure carriage	1548 mm
D. Height over cabin/TOPS	2515 mm
E. Height of Boom - transport	1800 mm
F. Overall length of crawler	2155 mm
G. Tail length	890 mm
H. Track gauge	1420 mm
I. Undercarriage width (blade)	1720 mm
J. Horizontal distance to blade	1500 mm
K. Blade height	350 mm
L. Track height	520 mm
M. Track pads width	300 mm
N. Min. ground clearance	295 mm
O. Counterweight clearance	580 mm
P. Engine cover height	1550 mm
Q. Tail swing radius	990 mm
R. Center distance of turnbrels	1670 mm



WORKING AREA

A. Max. digging reach	5485 mm
B. Max. digging depth	3105 mm
C. Max. digging height	4955 mm
D. Max. dumping height	3460 mm
E. Min. dumping height	1210 mm
F. Max. vertical digging depth	2700 mm
G. Overall height over arm by min. swing radius	3690 mm
H. Swing radius by max. boom swing (L)	2000 mm
Swing radius by max. boom swing (R)	2160 mm
Min. swing radius	2420 mm
I. Max. clearance when blade up	375 mm
J. Max. depth of blade down	370 mm
K. Offset boom (L)	800 mm
Offset boom (R)	550 mm
Max. boom-swing angle (L)	57°
Max. boom-swing angle (R)	63°

