



**YANMAR**

MINI-EXCAVATOR

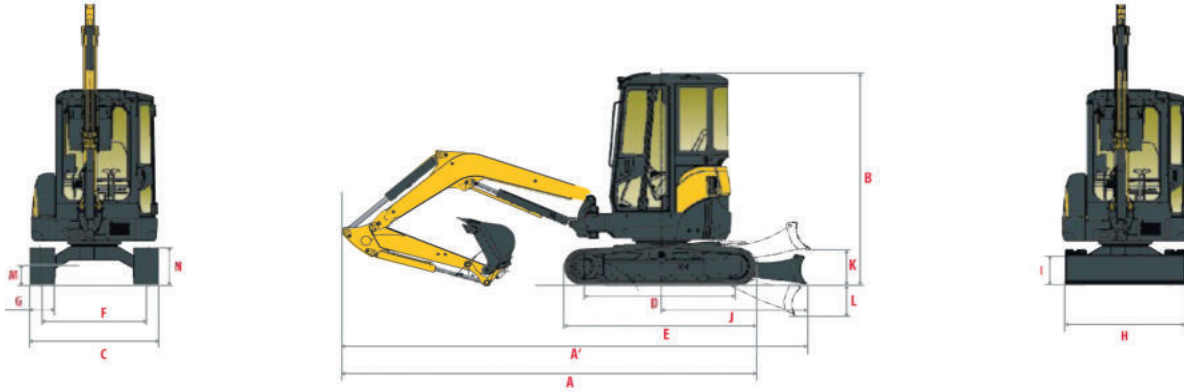
# Vi038-6



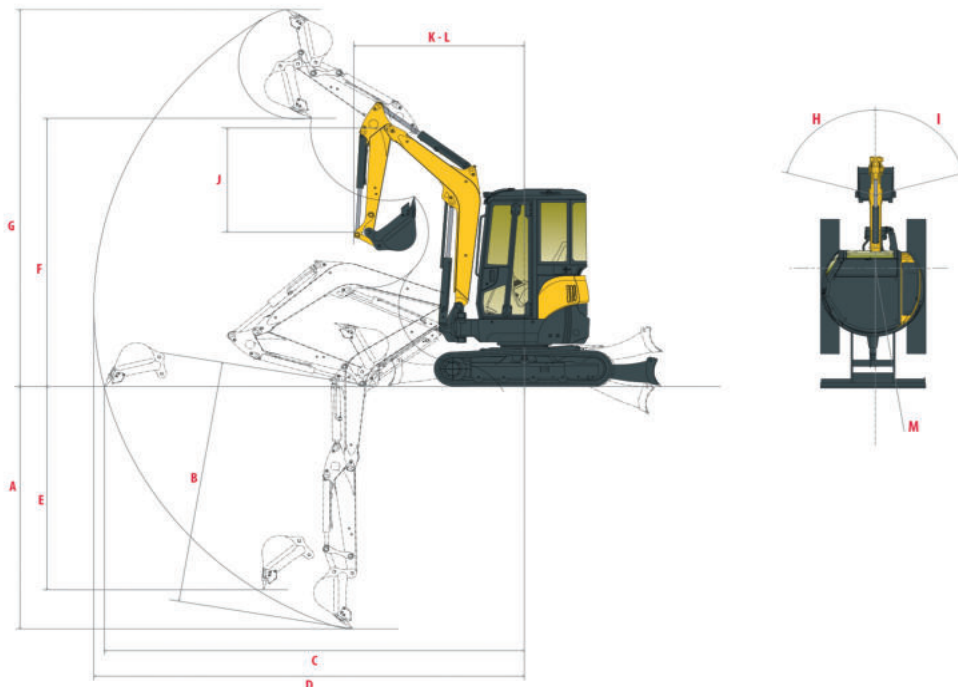
Operating weight	3575 kg (canopy) / 3695 kg (cabin)
Engine gross power	18.9 kW / 25.3 HP at 2200 rpm
Digging force (arm)	18.1 kN
Digging force (bucket)	32.1 kN



# DIMENSIONS



<b>A</b> Overall length	4760 mm	<b>H</b> Overall blade width	1740 mm
<b>A'</b> Overall length with blade at the back	5320 mm	<b>I</b> Overall blade height	380 mm
<b>B</b> Overall height	2470 mm	<b>J</b> Blade distance	1630 mm
<b>C</b> Overall width	1740 mm	<b>K</b> Max. blade height above the ground	425 mm
<b>D</b> Length of track on ground	1710 mm	<b>L</b> Max. lowering depth from the ground	370 mm
<b>E</b> Undercarriage length	2160 mm	<b>M</b> Minimum ground clearance	320 mm
<b>F</b> Lane	1440 mm	<b>N</b> Ground clearance under counterweight	-
<b>G</b> Track width	300 mm		



<b>A</b> Max. digging depth - Blade lifted	3350 mm	<b>H</b> Boom swinging base to left	43°
<b>B</b> Max. digging depth - Blade lowered	3530 mm	<b>I</b> Boom swinging base to right	65°
<b>C</b> Max. digging reach on ground	5350 mm	<b>J</b> Arm length	1620 mm
<b>D</b> Max. digging reach	5470 mm	<b>K</b> Front turning radius	2100 mm
<b>E</b> Max. vertical wall	2820 mm	<b>L</b> Front turning radius with boom swing	1870 mm
<b>F</b> Max. unloading height	3730 mm	<b>M</b> Rear turning radius	775 mm
<b>G</b> Max. cutting height	5130 mm	<b>M'</b> Rear turning radius with additional counterweight	850 mm

# LIFTING FORCE



Cabin, Standard counterweight																						
Blade on ground												Blade above ground										
A	(A=)	Max.		3,5 m		3 m		2,5 m		2 m		(A=)	Max.		3,5 m		3 m		2,5 m		2 m	
B																						
3 m	4253	480	*815	*720	*720	-	-	-	-	-	-	4253	490	560	*720	*720	-	-	-	-	-	-
2 m	4654	410	*845	640	*885	*925	*925	*780	*780	-	-	4654	410	450	640	745	*925	*925	*780	*780	-	-
1 m	4771	375	*835	600	*1090	755	*1305	970	*1680	-	-	4771	365	450	590	650	795	815	950	1040	-	-
0 m	4629	385	*865	560	*1235	685	*1500	875	*1955	1180	*2465	4629	400	450	560	620	675	775	875	970	1150	1295
-1 m	4195	440	*905	540	*1205	685	*1470	875	*1825	1180	*2375	4195	430	490	540	600	685	745	875	980	1235	1295
-1,5 m	3834	500	*940	550	*1090	725	*1345	885	*1640	1215	*2080	3834	490	540	570	610	665	785	855	950	1205	1285
-2 m	3323	695	*845	-	-	755	*1050	1030	*1395	-	-	3323	640	715	-	-	745	785	1080	1020	-	-

[ The data in this table represents the lifting capacity in accordance with IOS 10567. They do not include the weight of the bucket and correspond to 75% of the maximum static tipping load of the 87% of the hydraulic lifting capacity. Data marked with \* are the hydraulic limits of the lifting force. ]



# TECHNICAL SPECIFICATIONS

## [ WEIGHT +/- 2% (EN STANDARDS) ]

	Transport weight	Operating weight	Ground pressure (kPa [Kg/cm <sup>2</sup> ])
Canopy version / Rubber crawlers	3500 kg	3575 kg	33
Canopy version / Steel crawlers	3600 kg	3675 kg	33.9
Cabin version / Rubber crawlers	3620 kg	3695 kg	34.1
Cabin version / Steel crawlers	3720 kg	3795 kg	35
With additional counterweight	+ 150 kg		-

## [ ENGINE ]

Type	3TNV88-ESBV
Fuel	Diesel
Net Power	18.5 kW / 24.8 HP at 2200 rpm
Gross Power	18.9 kW / 25.3 HP at 2200 rpm
Displacement	1.642 l
Maximum torque	85.5 - 94.5
Cooling	Water-cooling
Starter	12 V - 1.7 kW
Battery	12 V - 65 Ah
Alternator	12 V - 55 A

## [ HYDRAULIC SYSTEM ]

Maximum pressure	220 bars
1 double piston pump with variable flow	2 x 37 l.min <sup>-1</sup>
1 gear pump	26.2 l.min <sup>-1</sup>
1 gear pump for pilot line	10.8 l.min <sup>-1</sup>

PTO	Theoretical data	
	Pressure (bar)	Flow (l.min <sup>-1</sup> )
2 ways	0 - 220	63.2 - 1
1 way	0 - 220	63.2 - 1



Oil flow decreases as the pressure increases

## [ PERFORMANCE ]

Travel speed	2.7 / 4.5 km/h
Rotation speed	9.5 rpm
Digging force (arm)	18.1 kN
Digging force (bucket)	32.1 kN
Gradability	30°
Noise Level (2000/14/CE&2005/88/CE)	LWAG: 94 dBA ; LPAG: 82 dBA

## [ UNDERCARRIAGE ]

Number of top rollers	1
Number of bottom rollers	4
Track tensioning system	Grease cylinder

## [ CAPACITIES ]

Fuel tank	41 l
Coolant	4.2 l
Engine oil	7.3 l
Hydraulic circuit	62 l
Hydraulic tank	40 l

## MAINTENANCE FREQUENCY

[ Change engine oil and filter: 50 hours (1<sup>st</sup>) / 500 hours (2<sup>nd</sup>) ] [ Change fuel filter: 250 hours ] [ Change hydraulic oil filter: 1000 hours ]  
[ Change hydraulic oil return filter: 50 hours (1<sup>st</sup>) / 500 hours (2<sup>nd</sup>) ] [ Change cooling fluid: 2000 hours ]