



**YANMAR**

ATTACHMENTS

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# COMPACT EXCAVATORS WITH TILTROTATORS

YANMAR COMPLETE SOLUTIONS





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In order to secure high productivity excavators as well as optimized and CE-marked installations, Yanmar is offering factory fitted solutions for a wide range of applications. A Yanmar compact excavator fitted with Steelwrist® quick coupler and tiltrotator delivers performance, precision and safety needed for the most challenging jobsites.



## FACTORY FITTED SOLUTIONS

- CE factory certification of the complete machine with its attachments
- Excavator and equipment protected by a manufacturer's warranty
- Full availability of spare-parts by Yanmar dealers
- Hydraulic lines and attachments mounted at the factory: quality and reliability
- Integrated factory quality procedure: control of production processes and product conformity



## HIGH PERFORMANCE

### INCREASED PRODUCTIVITY

The 45° tilt angle and rotation system of the tiltrotator enable the operator to do excavation works more quickly without changing the position of the machine. With the quick coupler, the driver can change the attachment without having to leave the cabin. The tiltrotator allows to carry out more tasks within time and with less staff and to insure an optimal profitability of the mini-excavator. The Steelwrist tiltrotator allows less machine movements for more efficiency. The ground degradation is radically reduced and useless refitting works are avoided.



### CONTROL AND PRECISION

The tiltrotator allows to dig in all directions from the machine. It is particularly useful for applications with slopes. Thanks to the slope and rotation commands of the bucket, the operator digs quickly and with flexibility optimizing the excavator strengths. The proportional command offers a complete control during operations. The use of a tiltrotator thus allows to work with precision.

### VERSATILITY

Tiltrotators are ideal for landscaping and jobs in densely built-up areas. They are intended for a wide range of applications such as cable laying, water sewage, gas piping work, urban renewal, grading or landscaping.





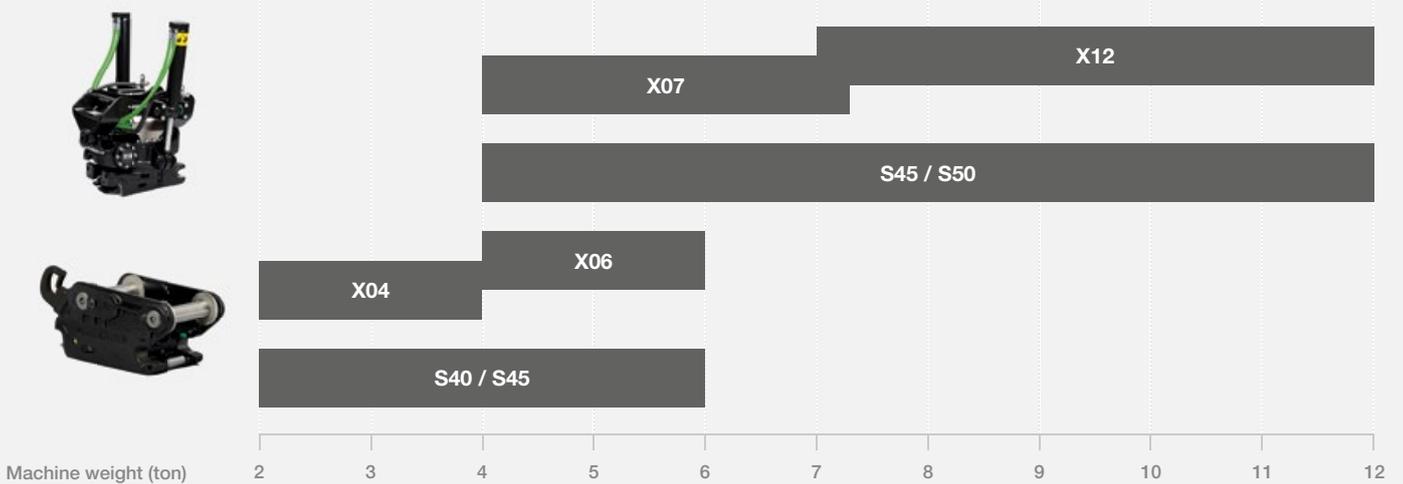
## COMPACTNESS AND ROBUSTNESS

### THE MOST COMPACT AND FLEXIBLE TILTROTATOR IN THE MARKET

- Gear housing made of cast steel for maximum strength and durability.
- Both top and bottom are cast steel.
- 45° tilt angle for greater flexibility.
- Soft and smooth rotation with robust gear wheel. Grease lubrication for longer life.
- A factory fitted central greasing installed on the rototilt is also available in option.



- Hard coated hydraulic hoses for a longer life.
- Vertical tilt cylinders that allow digging in narrow trenches.
- Lowest build height in the market.
- Coupler with front pin lock for safe tool changes.





## SAFETY

**Steelwrist quick couplers with Front Pin Lock technology provide maximum safety while changing the attachments.**



### Front Pin Lock Technology

Front pin lock technology ensures that you will not drop the bucket by accident as long as the front pin is connected, ie, the pin is visible from the cabin. Unlike traditional solutions, which are indicating that the lock is open (and thus does not indicate at all when the lock is locked) Steelwrist front pin lock indicates green when the bucket is in a safe position.

### Casted in steel

Our quick couplers are designed with a focus on safety, while they are bulky and robust. Maximum durability in combination with low weight is achieved when the coupler is casted in one piece.

### Low building height

Our priority has been minimum building height before simplest manufacturing procedure. In comparison to other brands where building height can vary as much as 40 percent!

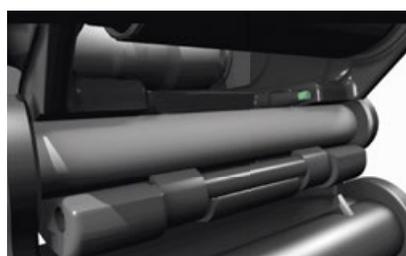
### Engineered for strength

When using a tiltrotator the lateral stress increases on the quick coupler. Therefore, the pins are secured with expanded shafts, which becomes part of the truss structure.



#### 1. One Piece casted coupler

The coupler is casted in one piece from high tensile strength steel and then machined to the correct measurements for your excavator.



#### 2. Front Pin Lock

When the bucket's front pin is connected to the quick coupler, the bucket can't be dropped thanks to the front pin lock technology.

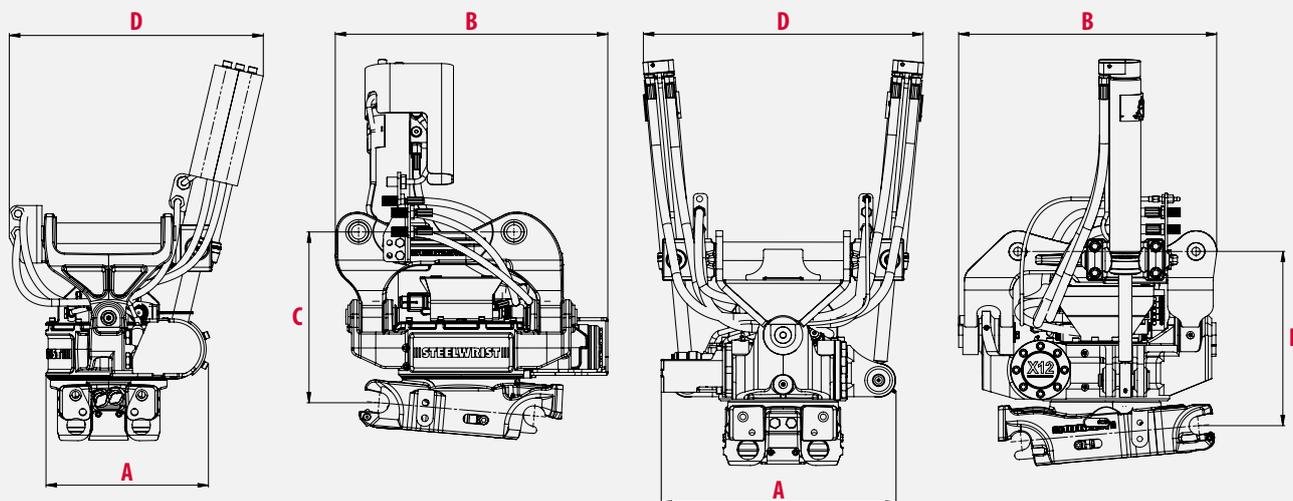


#### 3. Positive locking indication

When the lock is activated, and the bucket is in secured mode, you get a green sign.



# TECHNICAL SPECIFICATIONS



Compact excavator weight	2 to 5 tonnes		5 to 7 tonnes	
Yanmar Model	SV26 / ViO33 / ViO38		ViO50 / ViO57VIP	
Steelwrist® Quick Coupler	S40	S40w	S45	S50
Weight (kg)	30	35	70	70
Build height (mm)	110	120	120	120
Width (mm)	200	200	290	270
Length (mm)	300	300	430	430
Lifting hook (t)	1	1	3	3
Front Pin Lock™	Yes	Yes	Yes	Yes
Body	Cast Steel	Cast Steel	Cast Steel	Cast Steel
Shaft dia. dipper (mm)	35 – 45	35 – 50	45 – 60	45 – 60
Width dipper arm (mm)	120 – 160	160 – 200	150 – 228	150 – 228
Pin distance (mm)	160 – 270	235 – 355	220 – 365	220 – 365

Compact excavator weight	2 to 5 tonnes		5 to 7 tonnes	
Yanmar Model	SV26 / ViO33 / ViO38		ViO50 / ViO57VIP	
Steelwrist® Tiltrotator	X04	X06	X07	X12
Upper coupler	S40 / Direct Fit	S40 / Direct Fit	S45 / S50 / Direct Fit	S45 / S50 / Direct Fit
Attachment coupler	S40	S40	S45 / S50	S45 / S50
Max tilt angle (°)	45	45	45	45
Required hydraulic flow (L/min)	20 – 40	25 – 50	25 – 50	25 – 50
Max pressure (bar)	210	210	210	210
Hydraulic extra functions	1 (0)	1 (0)	1 (0)	2 (1)
A Width (mm)	314 (450)	314 (450)	354 (560)	564 (602)
B Length (mm)	488 (693)	505 (693)	599 (620)	625 (808)
C Build height (mm)	308 (337)	318 (347)	391 (391)	425 (425)
D Width cylinders (mm)	416	428	556	663
Weight from (kg)	115 (160)	135 (180)	195 (245)	285 (370)
Gripper reach (mm)	(400)	(400)	(500)	(560)
Tilt force (kNm)	11	11	14	29
Rotation force (kNm)	3.9	4.2	5.3	6.5



# BUCKETS



Compact excavator weight	2 to 5 tonnes			5 to 7 tonnes				7 to 12 tonnes			
Yanmar Model	SV26	ViO33	ViO38	ViO50	ViO57VIP			ViO80-1		SV100-2	
<b>Steelwrist® Quick Coupler</b>	S40	S40	S40	S40	S40	S45	S50	S45	S50	S45	S50
<b>Steelwrist® Tiltrotator</b>	X04	X04	X04	X06	X06	X07	X07	X12	X12	X12	X12
<b>Grading bucket</b>	898091	898091	898092	898092	898092	898093	898094	801159	801158	898038	898033
<b>Volume (L)</b>	175	175	240	240	240	300	300	400	400	550	550
<b>Width (mm)</b>	1100	1100	1200	1200	1200	1200	1200	1300	1300	1500	1500
<b>Weight (kg)</b>	115	115	170	170	170	190	190	205	205	380	380
<b>Cutting edge (mm)</b>	16	16	20	20	20	20	20	20	20	25	25
<b>Digging bucket with teeth</b>	898095	898095	898095	898096	898096	898097	898098	801155	801154	898035	898030
<b>Volume (L)</b>	150	150	150	250	250	280	350	350	350	500	500
<b>Width (mm)</b>	600	600	600	700	700	700	700	700	700	800	800
<b>Weight (kg)</b>	115	115	115	180	180	210	210	280	280	400	400
<b>Tooth system</b>	MG8 x 4	MG8 x 4	MG8 x 4	MG8 x 4	MG10 x 4	MG10 x 4	MG10 x 4	MG10 x 4	MG10 x 4	CAT x 4	CAT x 4
<b>Digging bucket without teeth</b>	898099	898099	898099	898100	898100	898101	898102	898017	898021	898036	898031
<b>Volume (L)</b>	150	150	150	250	250	280	280	350	350	500	500
<b>Width (mm)</b>	600	600	600	700	700	700	700	600	600	800	800
<b>Weight (kg)</b>	120	120	120	160	160	180	180	240	240	360	360
<b>Cutting edge (mm)</b>	16	16	16	16	16	20	20	20	20	25	25
<b>Cable bucket</b>	898103	898103	898103	898104	898104	898105	898106	801157	801156	898037	898032
<b>Volume (L)</b>	105	105	105	160	160	160	160	200	200	280	280
<b>Width (mm)</b>	400	400	400	400	400	400	400	400	400	400	400
<b>Weight (kg)</b>	65	65	65	115	115	140	140	170	170	240	240
<b>Cutting edge (mm)</b>	16	16	16	16	16	20	20	30	30	30	30



**YANMAR**



Printed in France – Materials and specifications are subject to change from the manufacturer without notice – Please contact your local Yanmar Construction Equipment Europe dealer for further information.

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