

X14

Tiltrotator 10-14 tonnes



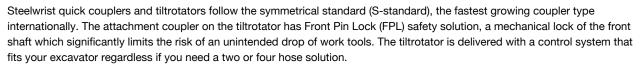
A tiltrotator for midsized excavators between 10 and 14 tonnes

The Steelwrist X14 tiltrotator is designed to deliver the power and versatility that is a must for midsized excavators. Our tiltrotators have a low building height, high tilt angle and an unbeatable relationship between strength and weight thanks to steel cast components.

The tiltrotator brings versatility to the excavator in small to big tasks

With a midsized excavator you can take on projects of varying sizes, from small scale landscaping tasks to roadwork or foundation work on construction sites. The X14 tiltrotator enhances the efficiency of the excavator as it enables you to rotate a work tool 360 degrees and tilt 45 degrees in each direction, with top of the class precision and

controllability. This facilitates your work and makes you flexible to take on a variety of challenging new jobs.



With a tiltrotator that has high flow hydraulics you will be able to use the tiltrotator in a more fuel efficient way and it allows for efficient use of high flow work tools. A robust and easily calibrated Absolute Rotation sensor in the high flow swivel gives high accuracy data to Machine Control Systems.

Steelwrist SQ auto connection system and the Open-S standard

Steelwrist SQ is our high performing automatic oil connection technology used to easily change and connect hydraulic work tools on the excavator. All SQ products comply with the Open-S standard. This means that the SQ system is designed to be able to connect to other brands following the Open-S standard. S-type tiltrotators (from S50 and up) are upgradeable to SQ-type at a later stage.

Control system

Steelwrist supply two types of tiltrotator control systems. Quantum is an advanced control system where ergonomics, easy installation and fuel efficiency, remote support and automatic tool recognition are important parts of the system. The four hose proportional machine control is the more basic system.

Gripper cassette (option)

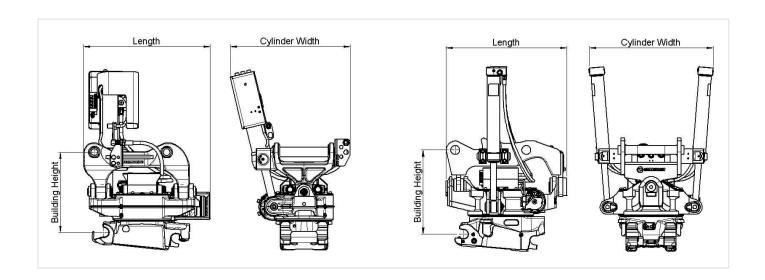
Equip the tiltrotator with a gripper cassette with a finger gripper that will make your excavator even more flexible, handling objects with precision. The gripper cassette can be retrofitted.

Central lubrication (option)

Our tiltrotators can be equipped directly from factory with central lubrication that fits all central lubrication systems on the market.



Machine Interface	S 45	S 50	SQ50	DF	DF	DF
Tiltrotator Quick Coupler	S45	S 50	SQ50	S 45	S 50	SQ50
Machine weight [lb]	22000-30800	22000-30800	22000-30800	22000-30800	22000-30800	22000-30800
Max Breakout torque [kNm]	80	80	80	80	80	80
Weight from [lb]	660	660	660	660	660	660
Building height [inch]	18	18	18	20.79	20.79	20.79
Length [inch]	28.50	28.50	28.50	30.55	30.55	30.55
Cylinder width [inch]	27	27	27	30.43	30.43	30.43
Max tilt angle [degrees]	±45	±45	±45	±45	±45	±45
Max width dipper arm [inch]	-	-	-	10.71	10.71	10.71
Pin diameter [inch]	-	-	-	1.57-2.36	1.57-2.36	1.57-2.36
Pin distance [cc- measure] [inch]	-	-	-	9.45-16.73	9.45-16.73	9.45-16.73
Pin distance [cc- measure] [mm]	-	-	-	240-425	240-425	240-425
Tilt Torque [kNm]	41	41	41	41	41	41
Rotational Torque [kNm]	7,8	7,8	7,8	7,8	7,8	7,8
Hydraulic AUX with gripper	1	1	1	1	1	1
Hydraulic AUX without gripper	2	2	2	2	2	2
Lifting hook [lb]	-	_	_	11000	11000	11000
Oil Flow [gallons/ min]	25	25	25	25	25	25
Max pressure [bar]	210	210	210	210	210	210
Max Pressure Separate AUX [bar]	350	350	350	350	350	350
Safety solution	FPL	FPL	FPL	FPL	FPL	FPL



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Open-S

Work tools and Open-S – the world industry standard for fully automatic quick couplers

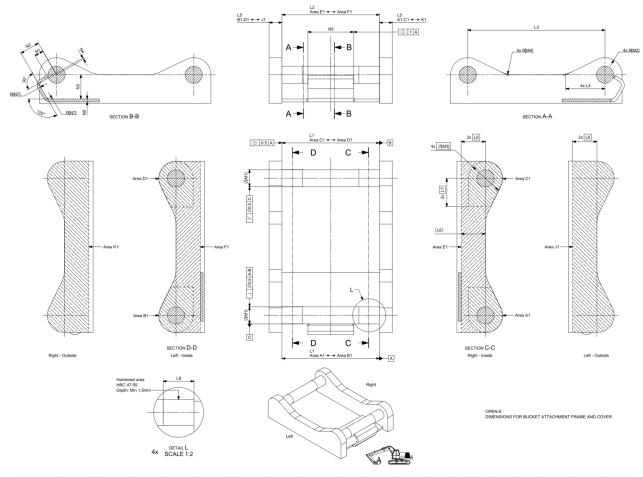


The Symmetrical Quick Coupler standard for excavators (the S-Standard) is an industry standard that was originally defined in 2006 by the Swedish Trade Association for Suppliers of Mobile Machines.

The Symmetrical standard, which is an open standard not controlled by one specific manufacturer, has since its inception grown to become a well-known coupler standard on the international market. The demand for quick couplers with integrated hydraulic couplings and electrical connectors, so called Fully Automatic Quick Couplers continue to grow.

In order to achieve interchangeability the request for a standardized and well-defined interface is therefore apparent.

As fully Automatic Quick Couplers have more intricate functions than a standard Mechanical Quick Coupler it is crucial that also non hydraulic work tools include certain features such as hardened shafts and cover plates etc. The purpose of this document is to define the technical dimensions for mechanical (non fully hydraulic) work tools to be used with Open-S Quick Couplers.



	L1 Width	L2 C. Width	L3 C-C	L4	L5 Thickn.	L6 Tol. area	L7 Tol. area	L8 Hardening	M1 Shaft D	M2 Radius	M3 Tol Area	M4	N1	N2	N3	N4 Offset	N5 Width	N6 Rec Th.	N7 Radius
OS45M	291,5 +1/-0,5	291 Min	430,25 +/-0,25	100 +/-2	40 Max	70	85	60 Min	45 f8	45 Max	90	30 +/-2	23,5 +/-1	65 +/-1	70 Min	8 +/-1	140 +/-1	8	15 Max
OS50M	271,5 +1/-0,5	271 Min	430,25 +/-0,25	100 +/-2	40 Max	70	85	70 Min	50 f8	45 Max	90	30 +/-2	26 +/-1	65 +/-1	70 Min	8 +/-1	140 +/-1	8	15 Max
OS60M	341,5 +1/-0,5	341 Min	480,25 +/-0,25	137,5 +/-2	45 Max	85	100	75 Min	60 f8	60 Max	120	30 +/-2	31 +/-1	70 +/-1	85 Min	6 +/-1	160 +/-1	10	20 Max
OS65M	441,5 +1/-0,5	441 Min	530,25 +/-0,25	152,5 +/-2	55 Max	90	110	90 Min	65 f8	65 Max	130	30 +/-2	33,5 +/-1	83 +/-1	90 Min	6 +/-1	230 +/-1	10	20 Max
OS70M	451,5 +1/-0,5	451 Min	600,25 +/-0,25	205 +/-2	55 Max	115	115	95 Min	70 f8	75 Max	150	50 +/-2	36 +/-1	90 +/-1	115 Min	7 +/-1	225 +/-1	12	30 Max
OS70/55M	551,5 +1/-0,5	551 Min	600,25 +/-0,25	205 +/-2	55 Max	115	115	95 Min	70 f8	75 Max	150	50 +/-2	36 +/-1	102 +/-1	115 Min	5 +/-1	320 +/-1	12	30 Max
OS80M	591,5 +1/-0,5	591 Min	670,25 +/-0,25	220 +/-2	65 Max	135	135	120 Min	80 f8	90 Max	180	50 +/-2	41 +/-1	110 +/-1	135 Min	8 +/-1	310 +/-1	15	30 Max
OS90M	751,5 +1/-0,5	751 Min	750,25 +/-0,25	225 +/-2	80 Max	155	150	160 Min	90 f8	110 Max	220	50 +/-2	46 +/-1	130 +/-1	155 Min	2 +/-1	400 +/-1	15	30 Max

Standardization by the Open-S Alliance. Revision A, May 17, 2021 | For more information please see www.opens.org