

XTR20

Tiltrotator 15-20 ton

High performance tiltrotator for excavators between 15 and 20 tonnes

Steelwrist third generation tiltrotators, introduced in 2024, have best in class tilt geometry, LockSense patented safety solution for work tool locking and OptiLube – an onboard lubrication system. These are only some of the technical developments of the third generation tiltrotators. Naturally, they have the low building height that is typical for all Steelwrist tiltrotators.

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 XTR20 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 the work and makes you flexible to take on a variety of challenging new jobs.



Advanced tilt geometry ensures smooth operation for the driver

Our design minimizes cylinder spread throughout the tilt stroke, providing fluid and high-torque movement. The refined position of the tilt cylinders prevent interference with the excavator's arm, enhancing functionality and ease of use.

A leap in safety with LockSense technology

The tiltrotator features our patented LockSense technology – a state-of-the-art sensor system for secure work tool locking. The wireless design eliminates cables and connectors from being exposed to the harsh environment.

Lubrication made easy with OptiLube

The onboard OptiLube system takes care of lubrication automatically, ensuring consistent and optimal performance. The lubricant used is specially developed for Steelwrist tiltrotators and reduces friction and extends lifetime. OptiLube is integrated into the tiltrotator's control system, allowing for continuous monitoring of lubrication performance and alerts when it is time to replace the lubricant cartridge.

Modular design for upgrade to SQ/Open-S

The tiltrotator is available with interfaces following the symmetrical standard (S standard), which is the fastest growing standard internationally. Thanks to the modular design it is possible to upgrade the tiltrotator from S-type to SQ-type. Steelwrist SQ is our high performing automatic oil connection technology used to easily change and connect hydraulic work tools on the excavator. Naturally all SQ products comply with the Open-S standard.

Easy installation with the guidance app

Our intuitive mobile app simplifies the tiltrotator installation process. It provides step-by-step instructions in most languages, making setup straightforward and user-friendly.

Control system

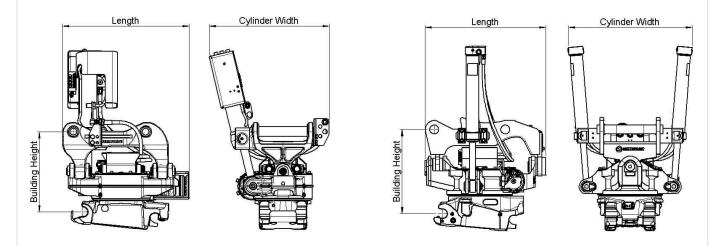
The tiltrotator is delivered with the advanced Quantum control system, where ergonomics, easy installation and fuel efficiency, remote support and automatic tool recognition, are important parts of the system.

Gripper cassette with enhanced reach and functionality (option)

The downward angled 3-finger gripper extends the reach of your excavator. With its improved geometry it gives you wide opening and near-complete closure, and it handles objects with unmatched precision. The robust design, including sturdy cylinder covers, ensures smooth operation in all your jobs.

Teknisk specifikatior				
Machine Interface	S60	SQ60	DF	DF
Tiltrotator Quick Coupler	S60	SQ60	S60	SQ60
Machine weight [ton]	15-20	15-20	15-20	15-20
Max Breakout torque [kNm]	180	180	180	180
Weight from [kg]	540	540	540	540
Building height [mm]	557	557	598	598
Length [mm]	812	812	930	930
Cylinder width [mm]	799	799	799	799
Height cylinder [mm]	510	510	510	510
Max tilt angle [degrees]	±45	±45	±45	±45
Max width dipper arm [mm]	_	_	335	335
Pin diameter [mm]	-	-	60-80	60-80
Pin distance [cc-measure] [mm]	_	_	300-500	300-500
Tilt Torque [kNm]	41,3	41,3	41,3	41,3
Rotational Torque [kNm]	9,2	9,2	9,2	9,2
Hydraulic AUX with gripper	1	1	1	1
Hydraulic AUX without gripper	2	2	2	2
Lifting hook [ton]	_	_	8	8
Oil Flow [l/min]	100	100	100	100
Max pressure [bar]	210	210	210	210
Max Pressure Separate AUX [bar]	350	350	350	350

Safety solution LockSense LockSense LockSense LockSense

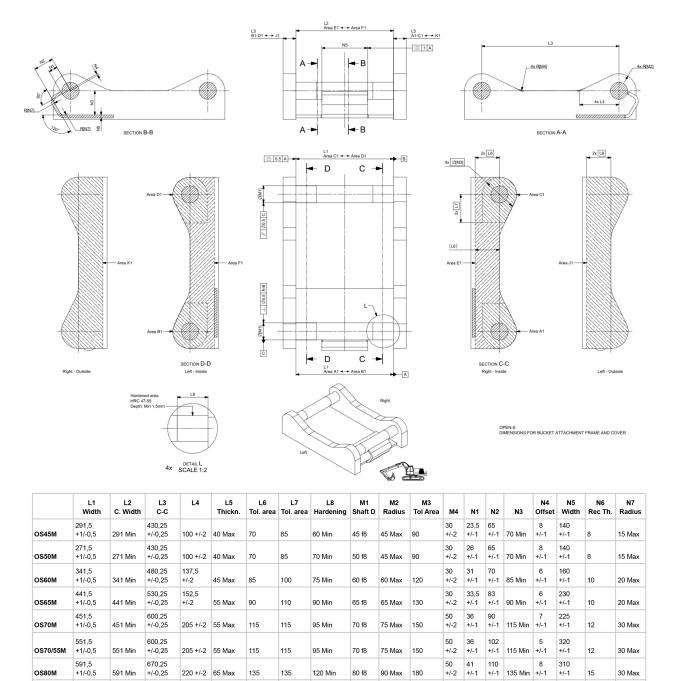


Work tools and Open-S -OPEN the world industry standard for fully automatic quick couplers

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.



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

90 f8

110 Max 220

160 Min

50 46 130

+/-2 +/-1 +/-1

751.5

+1/-0,5

OS90M

750.25

+/-0,25

225 +/-2 80 Max

155

150

751 Min

400

+/-1 15 30 Max

155 Min +/-1