

# XTR2

## Tiltrotator 0-2 tonnes

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### A tiltrotator for the smallest excavators

Steelwrist small tiltrotators are developed with a focus on flexibility, building height and low weight that is so important for compact excavators. The XTR2 is positioned between the smallest TCX tilt coupler for machines below 2 tonnes and the X04 tiltrotator for excavators from 2,5

to 4 tonnes. A compact excavator with a tiltrotator is a good choice for construction work at busy and confined sites in the city, with workers and citizens on the move nearby. The tiltrotator brings more manoeuvrability in a sensitive area, while delivering excellent earthmoving capacities and efficiency for the excavator.

The XTR2 tiltrotator has a number of innovative design solutions and comes with either a Direct Fit or an S30 top for the connection to the excavator. The coupler side (bottom) of the tiltrotator is available in a hydraulic locking for S30. The hydraulic lock version with the integrated Front Pin Hook is probably the only tiltrotator in this class that has work tool safety to support CE requirements. A Direct Fit configuration is often chosen for compact excavators, where the tiltrotator is permanently mounted to the dipper arm.

#### Optimized range of work tools

With a complete set of Steelwrist S30 work tools for the XTR2 tiltrotator, such as grading-, digging-, cable/trenching- and v-ditch bucket, multi grapple, asphalt cutter and ripper, the excavator turns into an efficient and versatile tool carrier that can do work in a wide range of applications.

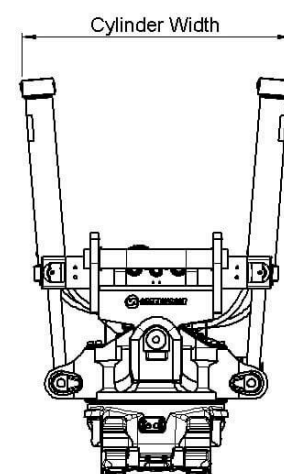
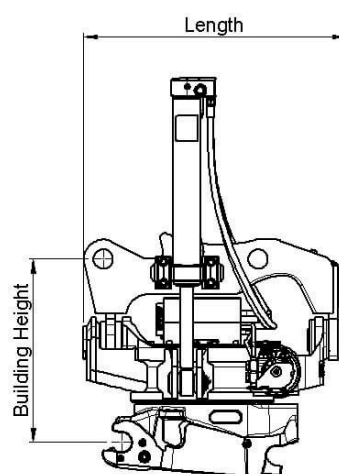
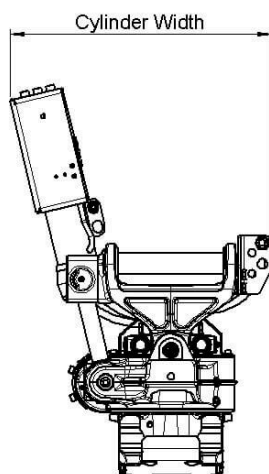
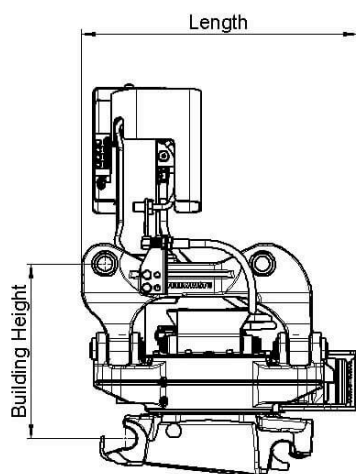
#### Control systems

Steelwrist supply two types of tiltrotator control system. The QuantumConnect platform with state-of-the-art components makes installation and operation of the tiltrotator easier than ever before. The platform includes the InstallMate and QuantumConnect apps, and with sophisticated connectivity the system is always up to date. The four hose proportional machine control is the more basic system.





| Tiltrotator                     | XTR2 | XTR2   |  |  |
|---------------------------------|------|--------|--|--|
| Machine Interface               | S30  | DF     |  |  |
| Tiltrotator Quick Coupler       | S30  | S30    |  |  |
| Machine weight [ton]            | 0-2  | 0-2    |  |  |
| Max Breakout torque [kNm]       | 22   | 22     |  |  |
| Weight from [kg]                | 80   | 80     |  |  |
| Building height [mm]            | 273  | 273    |  |  |
| Length [mm]                     | 444  | 444    |  |  |
| Cylinder width [mm]             | 367  | 335    |  |  |
| Height cylinder [mm]            | 230  | 230    |  |  |
| Max tilt angle [degrees]        | ±40  | ±40    |  |  |
| Max width dipper arm [mm]       | –    | 125    |  |  |
| Pin diameter [mm]               | –    | 25-35  |  |  |
| Pin distance [cc-measure ] [mm] | –    | 85-185 |  |  |
| Tilt Torque [kNm]               | 4,7  | 4,7    |  |  |
| Rotational Torque [kNm]         | 1,4  | 1,4    |  |  |
| Hydraulic AUX with gripper      | –    | –      |  |  |
| Hydraulic AUX without gripper   | 1    | 1      |  |  |
| Lifting hook [ton]              | –    | 0,75   |  |  |
| Oil Flow [l/min]                | 20   | 20     |  |  |
| Max pressure [bar]              | 210  | 210    |  |  |
| Max Pressure Separate AUX [bar] | –    | –      |  |  |
| Safety solution                 | FPH  | FPH    |  |  |



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

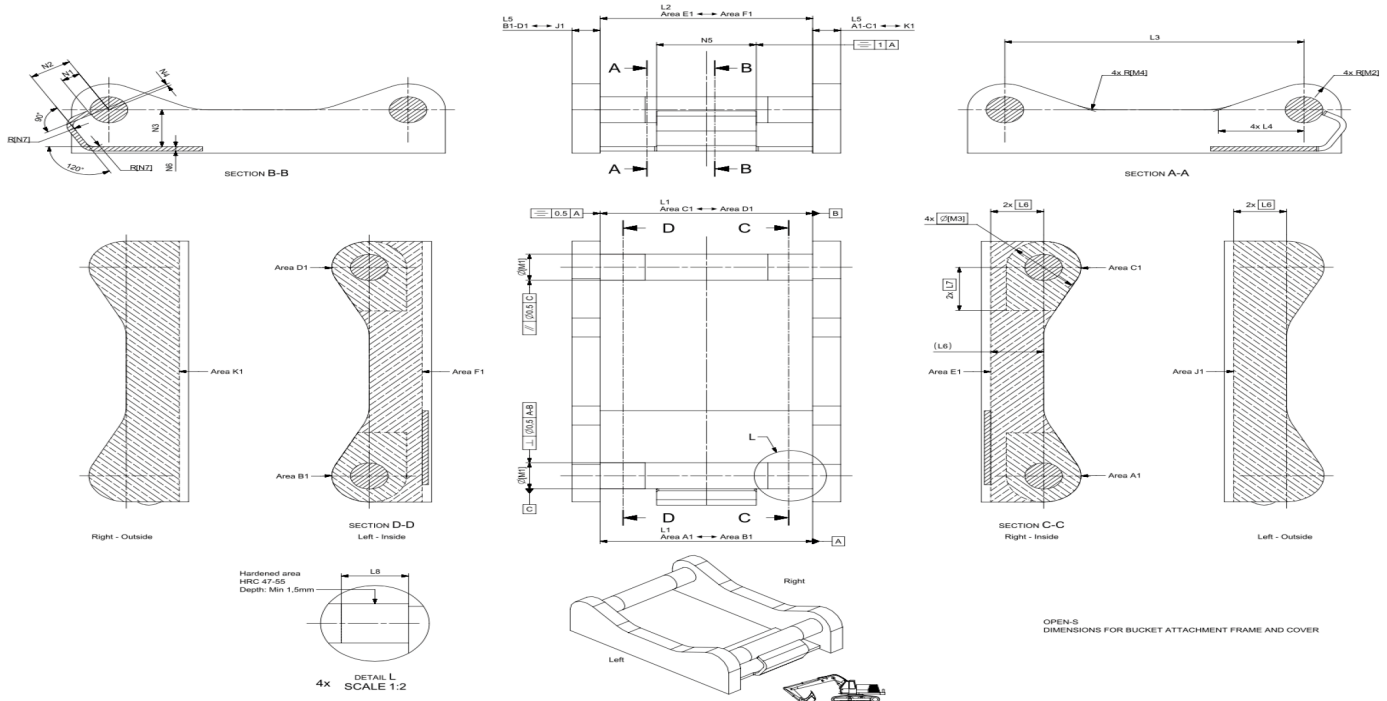


The Symmetrical Quick Coupler standard for excavators (the S-Standard) is an industry standard that was originally defined in 2006 by the Swedish Trade Association for Suppliers of Mobile Machines.

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.



OPEN-S  
DIMENSIONS FOR BUCKET ATTACHMENT FRAME AND COVER

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

Standardization by the Open-S Alliance, Revision A, May 17, 2021 | For more information please see [www.opens.org](http://www.opens.org)

