



Rotor coupler 12-20 tonnes



Rotor coupler for excavators between 12 and 20 tonnes

Steelwrist rotor couplers bring a new level of versatility and precision compared to a standard coupler. The flexibility provided by the XR20 rotor coupler makes your excavator able to take on a variety of tasks, maximizing the utilization of the machine. Designed to perform, our robust gearbox allows for precise and efficient rotation of any work tool. With 360° full rotation freedom you get maximum manoeuvrability and effectiveness.

Excavators equipped with rotor couplers become more versatile machines that can easily change work tools for digging, lifting, crushing or using a grapple, making them suitable for a broad range of applications in construction, demolition, landscaping, and more.



Steelwrist XR20 rotor coupler has a robust design and still a low building height and weight. Installation is fast and easy as no separate control system is required. The machine needs to be equipped with minimum one dual connection auxiliary line, and an additional auxiliary line can be used to operate the gripper unit (option) or a hydraulic work tool under the rotor coupler.

Modular design for upgrade to SQ/Open-S

The XR20 rotor coupler 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.

High flow swivel joint for enhanced capabilities

Our rotor couplers have high flow swivel joints, enabling the use of high flow-demanding work tools such as hydraulic breakers, compactors and grapples. The high flow swivel design ensures maximum flow efficiency, allowing your work tools to perform at their best.

Innovative LockSense safety technology

Equipped with our patented LockSense technology, Steelwrist rotor couplers offer an advanced, sensorbased work tool locking system. This technology provides a robust and secure solution for safe work tool changes, compliant with safety regulations.

Gripper cassette (option)

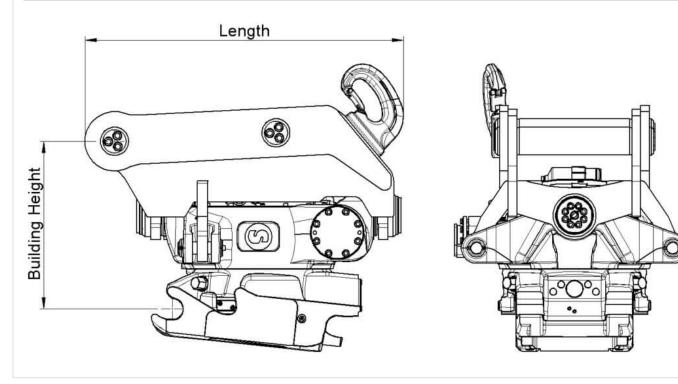
The downward angled 3-finger gripper extends the reach of your excavator. With its improved geometry it gives you wide opening and near-complete closure, and it handles objects with unmatched precision. The robust design, including sturdy cylinder covers, ensures smooth operation in all your jobs.

Absolute rotation sensor (option)

Upgrade your coupler with an Absolute rotation sensor for improved accuracy, control and integration with Machine Control Systems (MCS).

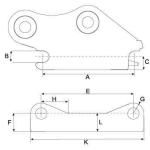
F Teknisk specifikation

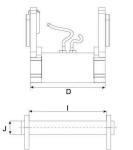
reknisk specifikation		
Quick coupler	S 60	SQ60
Machine weight [ton]	12-20	12-20
Max Breakout torque kNm]	180	180
Veight from [kg]	490	490
Building height [mm]	487	487
ength [mm]	925	925
Max width dipper arm mm]	335	335
Pin diameter [mm]	60-80	60-80
Pin distance [cc-measure] mm]	300-500	300-500
Rotational Torque [kNm]	8,8	8,8
Hydraulic AUX with gripper	1	1
Hydraulic AUX without gripper	2	2
ifting hook [ton]	8	8
Dil Flow [l/min]	65	65
A	210	210
Max pressure [bar]		
Max pressure [bar] Max Pressure Separate AUX [bar]	350	350

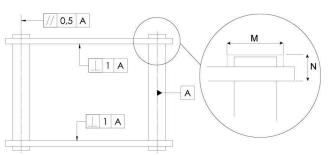


S-Standard

Symmetrical Quick Couplers for Excavators (S-standard)







Dimensions and tolerance table S40 S40 /240 S45 S70 S100 S120 S30 /150 S30 /180 S50 56 **S80** S90 /620 S90 /750 A -Tolerance 199,8 ±0,2 229,8 299,8 ±0,2 ±0,2 299,8 429,8 429,8 479,8 ±0,2 ±0,2 ±0,2 ±0,2 599,8 ± 0,2 669,8 ±0,2 749,8 ± 0,2 749,8 ± 0,2 899,8 ± 0,2 924,8 ± 0,2 B -Tolerance 30 H9 40 H9 70 H9 80 H9 90 H9 100 H9 120 H9 30 H9 40 H9 45 H9 50 H9 60 H9 90 H9 С Max 40 Max 45 Max 50 Max 65 Max 50 Max 65 Max 80 Max 100 Max 115 Max 125 Max 125 Max 150 Max 200 D -Tolerance 148 ±1 178 ±1 198 ±1 238 ±1 288 ±1 268 ±1 338 ± 1 448 ± 1 588 ±1 618 ± 1 748 ±1 748 ±1 868 ±1 E -Tolerance 200,5 ± 0,5 230,5 300,5 ±0,5 ±0,5 300,5 ± 0,5 430,5 ± 0,5 430,5 ±0,5 480,5 ±0,5 600,5 ± 0,5 670,5 ±0,5 750,5 ± 0,5 750,5 ± 0,5 900,5 ±0,5 925,5 ± 0,5 Min 45 Min 50 Min 55 Min 55 Min 70 Min 70 Min 85 Min 115 Min 135 Min 155 Min 155 Min 175 Min 240 G Max 30 Max 30 Max 40 Max 40 Max 45 Max 45 Max 60 Max 75 Max 90 Max 110 Max 110 Max 125 Max 145 н Max 85 Max 85 Max 100 Max 100 Max 125 Max 125 Max 150 Max 250 Max 250 Max 250 Max 250 Max 250 Max 250 752 ±1 152 ±1 182 ±1 202 ±1 242 ±1 292 ±1 272 ±1 342 ±1 452 ± 1 592 ±1 622 ±1 752 ±1 872 ±1 I -Tolerance J -Tolerance K 30 f8 30 f8 40 f8 40 f8 45 f8 50 f8 60 f8 70 f8 80 f8 90 f8 90 f8 100 f8 120 f8 Max 260 Max 290 Max 380 Max 380 Max 520 Max 520 Max 600 Max 740 Max 830 Max 1000 Max 1000 Max 1150 Max 1250 Max 45 Max 50 Max 55 Max 55 Max 70 Max 70 Max 85 Max 115 Max 135 Max 200 Max 200 Max 250 Max 300 м Max 62 Max 62 Max 72 Max 72 Max 77 Max 77 Max 92 Max 102 Max 122 Max 132 Max 132 Max 142 Max 162 N Max 25 Max 25 Max 28 Max 28 Max 30 Max 30 Max 35 Max 40 Max 55 Max 70 Max 70 Max 75 Max 80

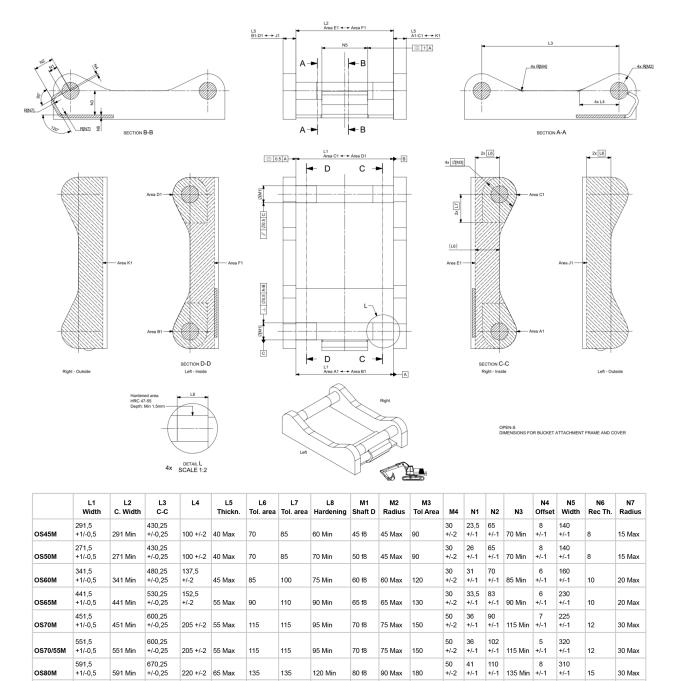
Quick Coupler Size	Width (mm)	Shaft c-c (mm)	Shaft diameter (mm)	Minimum Positive Torque (kNm)	Minimum Negative Torque (kNm)	Max recommended machine weigh (ton)
S30/150	150	200	30	28	20	2
S30/180	180	230	30	28	20	2
S40	200	300	40	35	23	6
S40/240	240	300	40	40	26	7
S45	290	430	45	65	42	11
S50	270	430	50	65	42	11
S60	340	480	60	150	75	18
S70	450	600	70	300	195	30
S80	590	670	80	600	390	40
S90/620	620	750	90	1000	650	70
S90/750	750	750	90	1000	650	70
S100	750	900	100	1200	775	85
S120	925	870	120	1600	1000	100

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

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