

X12 S50

Tiltrotator 7-12 tonnes

A tiltrotator for excavators between 7 and 12 tonnes

The Steelwrist tiltrotator is designed to deliver the power and durability that is a must for mid-sized and larger excavators. Our tiltrotators have a low building height, high tilt angle and an unbeatable relationship between strength and weight thanks to steel casted components. The tiltrotator enables you to rotate your 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.

The coupler has Front Pin Lock safety solution, a mechanical lock of the front shaft which significantly limits the risk of an unintended drop of work tools. It is possible to upgrade from S to SQ at a later stage, even if this was not ordered from the beginning. Steelwrist SQ is a high performing automatic oil connection technology used in quick couplers and tiltrotators on excavators to connect hydraulic work tools.

High flow hydraulics and Absolute Rotation sensor

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.

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. [Read more](#)

Tiltrotator options

Gripper Cassette

Equip the tiltrotator with a gripper cassette with a finger gripper that will make your excavator even more flexible. The gripper cassette can be retrofitted. [Read more](#)

Central lubrication

Our tiltrotators can be equipped directly from factory with central lubrication that fits all central lubrication systems on the market. Central lubrication can also be automatically connected to a work tool beneath the tiltrotator. [Read more](#)



Measurement

Type	S50/S50	Direct Fit/S50
Width (mm)	565	565
Length (mm)	625	689
Building height (mm)	425	494
Cylinder width (mm)	676	678
Weight from (kg)	310	352
Width with gripper (mm)	580	580
Length with gripper (mm)	764	829
Gripper reach (mm)	508	508
Weight with gripper from (kg)	370	370
Pin distance (cc-measure) (mm)		240-365
Max width dipper arm (mm)		272
Pin diameter (mm)		40-60

⚙️ Technical specification

Type	S50/S50	Direct Fit/S50
Recommended machine weight (tonnes)	7-12	7-12
Top unit	S50	Direct Fit
Attachment coupler	S50	S50
Max tilt angle (degrees)	45	45
Necessary flow (litre/min)	70-90	70-90
Pressure (bar)	210	210
Hydraulic extras without grip	2	2
Hydraulic AUX with grip	1	1
Rotational speed (r/m)	8	8
Rotational force (kNm)	5,4	5,4
Tilt power (kNm)	29	29
Lubrication of the gear housing	Grease	Grease