

X04

Tiltrotator 2-4 ton



A tiltrotator optimized for compact excavators between 2 and 4 tonnes

Steelwrist small tiltrotators are developed with a focus on flexibility, building height and low weight, that is so important for compact excavators. With a steel cast structure, the weight can be reduced, while strength is maximized.

Take on a variety of tasks with a tiltrotator on your compact excavator

Compact excavators are often used in different construction projects like landscaping, material handling, stump removal or light demolition. With the tiltrotator you increase the ability to reach tight spaces, and save time and reduce wear on both machine and surroundings as the need for machine movements at the worksite is minimized. The tiltrotator is exceptionally useful when diaging trenches



minimized. The tiltrotator is exceptionally useful when digging trenches and for sewer lines in utility work, and in combination with a grapple you have a versatile setup for removing debris, or placing and removing trees.

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. A Direct Fit configuration is often chosen for compact excavators, where the tiltrotator is permanently mounted to the dipper arm.

Steelwrist quick couplers and tiltrotators follow the symmetrical standard (S-standard), the fastest growing coupler type internationally. The attachment coupler on the tiltrotator has Front Pin Hook (FPH), for safe work tool changes. The tiltrotator is delivered with a control system that fits your excavator regardless if you need a two or four hose solution.

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.

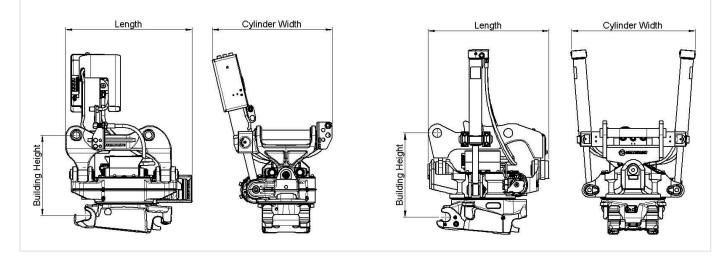
The X04 tiltrotator is also available with Verachtert (CW) coupler interface. For Verachtert (CW) the tiltrotator always has a Direct fit configuration.

Feknisk specifikation

Teknisk specifikation		
Machine Interface	S40	DF
Tiltrotator Quick Coupler	S40	S40
Machine weight [ton]	2-4	2-4
Max Breakout torque [kNm]	35	35
Weight from [kg]	120	120
Building height [mm]	343	324
Length [mm]	523	570
Cylinder width [mm]	499	437
Max tilt angle [degrees]	±45	±45
Max width dipper arm [mm]	-	142
Pin diameter [mm]	-	35-35
Pin distance [cc-measure] [mm]	-	130-240
Tilt Torque [kNm]	10,6	10,6
Rotational Torque [kNm]	3,9	3,9
Hydraulic AUX with gripper	1	1
Hydraulic AUX without gripper	1	1
Lifting hook [ton]	-	1
Oil Flow [l/min]	28	28
Max pressure [bar]	210	210
Max Pressure Separate AUX [bar]	_	_
Cofety colution	EDU	CDU

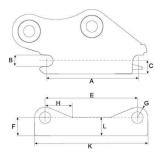
Safety solution

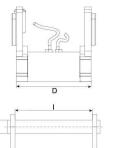
FPH FPH

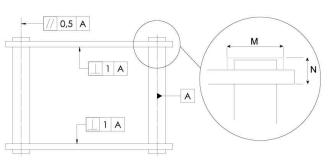


S-Standard

Symmetrical Quick Couplers for Excavators (S-standard)







Dimensions and tolerance table

Measure- ments (mm)	S30 /150	S30 /180	S40	S40 /240	S45	S50	S60	S70	S80	S90 /620	S90 /750	S100	S120
A	199,8	229,8	299,8	299,8	429,8	429,8	479,8	599,8	669,8	749,8	749,8	899,8	924,8
-Tolerance	±0,2	±0,2	± 0,2	± 0,2	± 0,2	± 0,2	± 0,2	±0,2	± 0,2	±0,2	± 0,2	± 0,2	± 0,2
B	30	30	40	40	45	50	60	70	80	90	90	100	120
-Tolerance	H9	H9	H9	H9	H9	H9	H9	H9	H9	H9	H9	H9	H9
С	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
	40	45	50	50	65	65	80	100	115	125	125	150	200
D	148	178	198	238	288	268	338	448	588	618	748	748	868
-Tolerance	± 1	± 1	±1	±1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	±1	± 1
E	200,5	230,5	300,5	300,5	430,5	430,5	480,5	600,5	670,5	750,5	750,5	900,5	925,5
-Tolerance	± 0,5	±0,5	±0,5	± 0,5	± 0,5	± 0,5	± 0,5	±0,5	± 0,5	± 0,5	± 0,5	± 0,5	± 0,5
F	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min
	45	50	55	55	70	70	85	115	135	155	155	175	240
G	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
	30	30	40	40	45	45	60	75	90	110	110	125	145
н	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
	85	85	100	100	125	125	150	250	250	250	250	250	250
l	152	182	202	242	292	272	342	452	592	622	752	752	872
-Tolerance	± 1	± 1	±1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1	± 1
J	30	30	40	40	45	50	60	70	80	90	90	100	120
-Tolerance	f8	f8	f8	f8	f8	f8	f8	f8	f8	f8	f8	f8	f8
к	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
L	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
	45	50	55	55	70	70	85	115	135	200	200	250	300
м	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
	62	62	72	72	77	77	92	102	122	132	132	142	162
N	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
	25	25	28	28	30	30	35	40	55	70	70	75	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

STEELWRIST AB

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