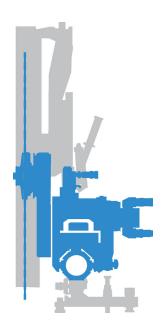




OPERATING INSTRUCTIONS

WALL SAW DZ-S2

Index 001



Congratulations!

With a Hydrostress unit from TYROLIT, you have chosen a tried and tested piece of equipment which has been designed and built to leading technical standards. Only genuine TYROLIT Hydrostress replacement parts can guarantee quality and interchangeability. We are unable to fulfil our warranty obligations if maintenance work is neglected or carried out unprofessionally. Any repair work must be carried out by trained personnel only.

Our aftersales service is available to help ensure that your TYROLIT Hydrostress units remain in perfect working order.

We hope that you enjoy untroubled and fault-free working with your TYROLIT unit.

TYROLIT Hydrostress

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TYROLIT Hydrostress AG Witzbergstrasse 18 CH-8330 Pfäffikon Switzerland Tel. 0041 (0) 44 952 18 18 Fax 0041 (0) 44 952 18 00

1 Safety



These instructions are just one part of the documentation which is supplied together with the wall saw. These instructions go together with the «Safety Manual / System Description for Wall Saws» to form a complete set of documentation.



DANGER

Failure to comply with the safety instructions in the «Safety Manual / System Manual» may result in serious injury or even death.

Please ensure that the «Safety Manual / System Description for Wall Saws» has been read and understood in full.



DANGER

Cuts from the saw blade.

- Always wear protective gloves when working on the wall saw, particularly when working on the saw blade.
- Always use the blade guard when operating the wall saw.



DANGER

Serious injury or material damage as a result of uncontrolled movements of the wall saw.

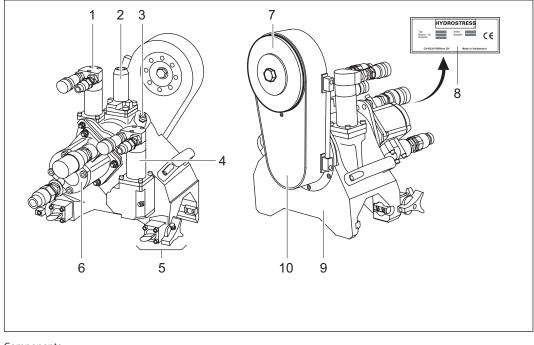
Never connect or disconnect hoses while the drive unit is running.

2 **Description**

2.1 Wall saw system

The layout and functions of the wall saw systems are described in the «Safety Manual / System Description for Wall Saws».

2.2 Wall saw

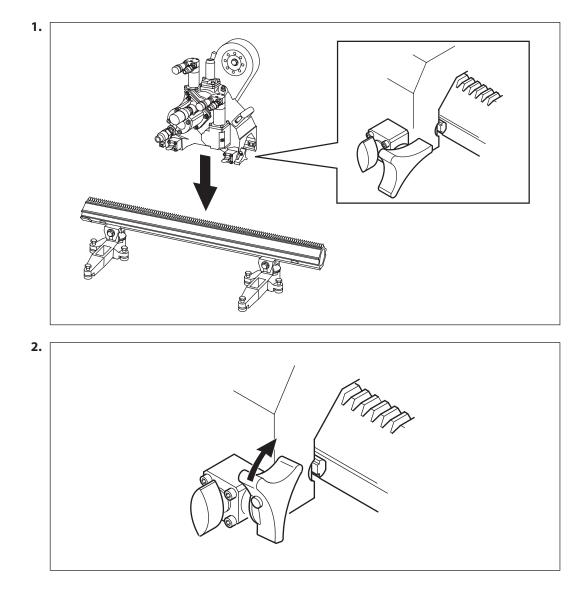


Components

- 1 Feed motor, swivel
- 2 Blade guard holder
- 3 Water connection
- 4 Feed motor, travel
- 5 Lock unit
- 6 Blade drive motor
- 7 Saw blade holder
- 8 Name plate
- 9 Chassis
 - 10 Belt swivel arm

3 Assembly / disassembly

3.1 Place the wall saw on the guide rail

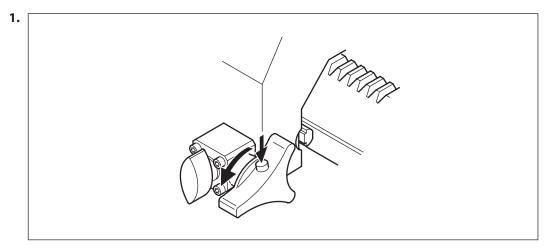


A Click B Click Click

3.2 Adjustment of the closure

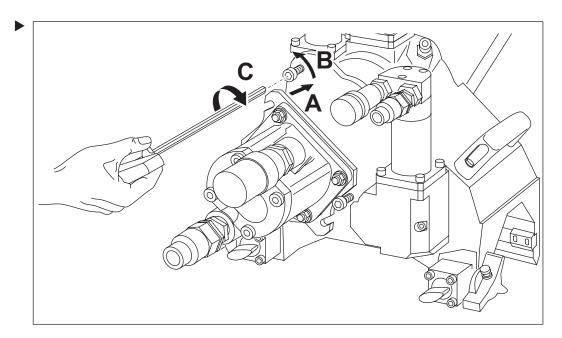
A: Rotate as far as the stop. B: Rotate back two notch positions.

3.3 Release the closure



2. Perform the remaining assembly steps in reverse order.

3.4 Mount the drive motor



3.5 Mount the saw blade



DANGER

It can cause death or serious injury if the saw blade flies away.
 ▶ Only use original screws and bolts from TYROLIT Hydrostress AG.



DANGER

Serious injury can be caused by sudden start-up of the saw blade.

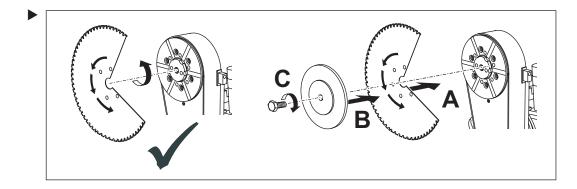
- Switch off the drive unit before working on the saw blade.
- Depressurize the hoses.

3.5.1 Fixing saw blade in position

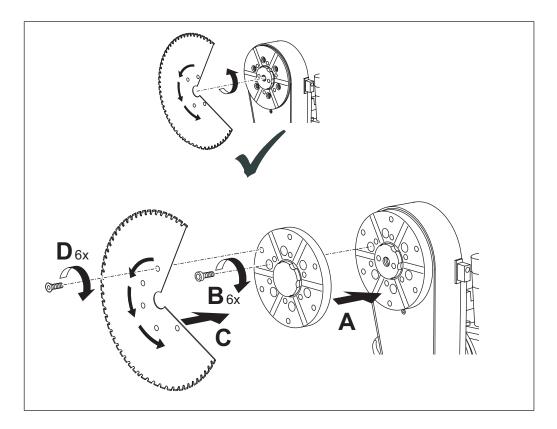


The direction of rotation of the saw blade must match the direction of rotation of the machine. Correct alignment: Countersinking of the fastening bores against the blade cover.

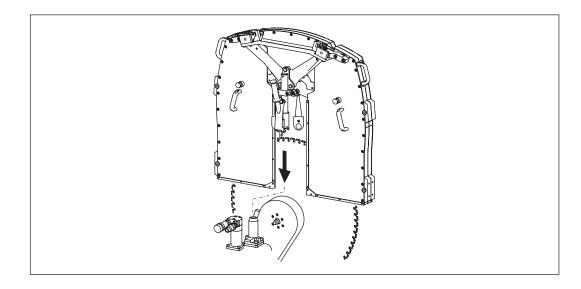
For normal cuts



For flush cuts



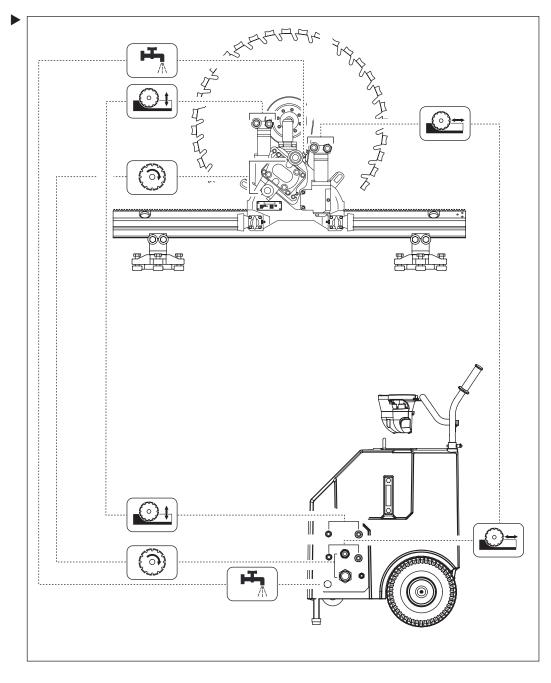
3.6 Mount the blade guard



▶ Mount the blade guard according to the instruction leaflet.

3.7 Connecting the wall saw to the drive unit

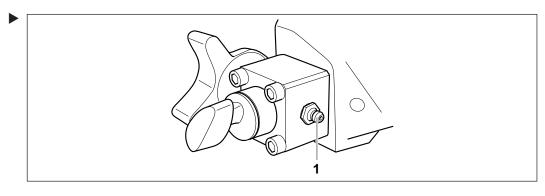
- \checkmark The drive unit is isolated from the power supply.
- ✓ Couplings are clean.
- ✓ Hoses are undamaged.



4 Servicing and maintenance

		Before every commissioning	At end of work	Weekly	Yearly	After faults	After damage
Wall saw	 Retighten loose bolts, screws and nuts (refer to the tightening torque speci- fications) 	X	A	5	~	× X	X
Prism guides	► Check for wear			X			
	Replace before the anchoring screws of the guide prisms touch the rail or the chassis touches the rail						X
Y-guides	 Apply 2-3 applications of grease to the lubricating nipples 			Х			
Couplings	 Check for leak-tightness and damage and replace as required 			Х			
Swivel arm	Clean with water		X				
	• Check the saw blade uptake for wear	Х				Х	Х
Feed motor	Check cleanliness and leak-tightness	Х	X			Х	X
Drive motor	Check cleanliness and leak-tightness	Х	X			Х	X
Water economy	Check water line for cleanliness and leak-tightness	Х				Х	X
	► Blow out water		X				
Saw blade	Clean with water		X				
	► Check for wear	Х	X			X	X
Service	To be performed by TYROLIT Hydros- tress AG or an authorised workshop	After 100	0 / 300 / 50)0 / 700 hoi	urs		

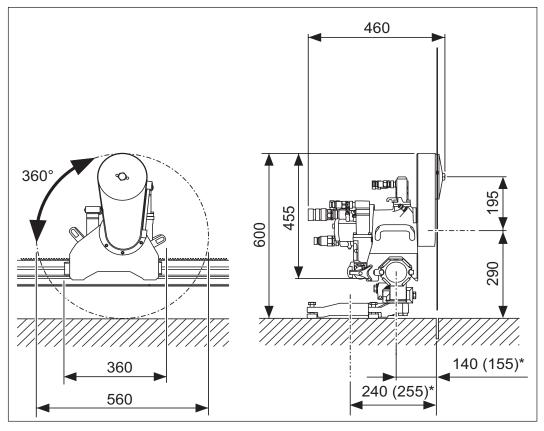
4.1 Lubricate lock unit



1 Grease nipple

5 Technical data

5.1 Dimensions



Dimensions (* with flush cutting flange)

5.2 Design

Design	
Parameter	Value
Construction	Cast aluminium / steel
Rotatable swivel arm	360°
Power transmission	toothed belt
Blade drive transmission	1:2
Lock unit	Low-wearing, suitable for all VS and VAS rails
Rail mounting	Locking and securing function at the prism guide
Blade drive motor	Secured by means of quick-release device (hydraulic motor size 2)
Feed motor	Gerotor
Flush cutting	Special flange (+15 mm)
Normal cutting:	Standard blade hub with blade cover
Water	Water connection on chassis

5.3 Weight

Weight	
Parameter	Value
Wall saw head, incl. feed motors without blade drive motor	27 kg
Blade drive motor, size 2	5.5 kg

5.4 Blade drive motor

Blade drive motor	
Parameter	Value
Hydraulic motors	1100 to 3333 rpm.
Size	2
Absorption volume	12 to 30 cm ³
Transmission ratio	1:2
Operating pressure	max. 260 bar
Туре	External geared motor

Rotational speeds, hydraulic motors for wall saws							
	4						
		cm³ 12	cm³ 16	cm³ 18	cm³ 22	cm³ 26	cm³ 30
l/min	33	2750	2063	1833	1500	1269	1100
l/min	40	3333	2500	2222	1818	1538	1333
l/min	45	3750	2813	2500	2045	1731	1500
l/min	50	4167	3125	2778	2273	1923	1667
l/min	60	5000	3750	3333	2727	2308	2000

Operation possible

Operation not possible

5.5 Feed motor, travel

Feed motor, travel				
Parameter	Value			
Hydraulic motors	187 rpm			
Туре	Gerotor			
Operating pressure	max. 120 bar			
Output torque	50 Nm			
Feed force	6,000 N			
Feed	Toothed wheel on rail			

5.6 Feed motor, swivel

Feed motor, swivel				
Parameter	Value			
Hydraulic motors	187 rpm			
Туре	Gerotor			
Operating pressure	max. 120 bar			
Output torque	50 Nm»			
Swivel range (swivel arm)	360°			
Feed force	3,000 N			

5.7 Saw blades

Saw blades				
Parameter		Value		
Saw blade max.		Ø 1,200 mm		
Fully detachable saw blade		Ø 900 mm		
Blade holder		Ø 60 mm		
Blade flange mounting at wall sav	V	fixed		
Saw blade fixing on blade flange		central screw		
Saw blade fixing (flush cuts)		6 countersunk head screws reference circle 130 mm		
Blade cover mounting on blade fla	ange	1 hexagonal bolt		
Blade flange Ø		165 mm		
Cutting depth	Ø 800 mm	310 mm		
Ø 900 mm		360 mm		
	Ø 1000 mm	410 mm		
Ø 1200 mm		510 mm		

5.8 Lubricants, fluids and sealants

Lubricants, fluids and sealants				
Parameter		Value		
Lubricating grease (lock unit)	Penetration	265 to 295		
	NLGI	2		

5.9 Connectable drive units

The wall saw must only be operated with the coordinated drive units from TYROLIT Hydrostress.

Drive unit power requirements:				
Parameter	Value			
Minimum output:	12 kW (max. operating pressure 260 bar)			
Maximum performance	20 kW (max. operating pressure 260 bar)			

Water connection				
Parameter	Value			
Pressure	2 to 6 bar			
Quantity	At least 6 l/min			
Max. temperature	25 ℃			

EC Declaration of Conformity

Description	Wall saw
Type designation	DZ-S2

We declare under our own liability that this product complies with the following directives and standards:

Directive applied

2006/42/EG from 17. May 2006

Standards applied

EN ISO 12100:2010 EN ISO 4413:2010

TYROLIT Hydrostress AG

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Pfäffikon, 14.09.2021

11. flag

Roland Kägi Operations + R&D Machines

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