

# ROTARY CYLINDERS

## SERIES SH

### ▶ PRODUCT ADVANTAGES



#### “The flexible”

##### ▶ Movable to four positions

The two separately or jointly controlled rotors provide you with the greatest flexibility in positioning your work-pieces

##### ▶ High torque rating

The optimal ratio of installation space and torque reduces interference contours and creates precious space in your application

##### ▶ 360° swivel angle

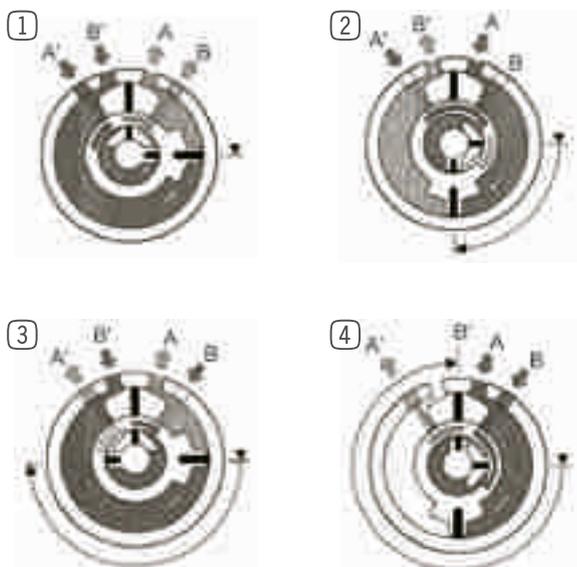
Do you want your application to be flexible and individualised? The infinitely variable 360° adjustable swivel angle lets you!

### ▶ SERIES CHARACTERISTICS

Installation size	
SH-XX	
 <b>1.5 million maintenance-free cycles (max.)</b>	●
 <b>IP54</b>	●
 <b>Positionability - 4 positions</b>	●
 <b>Adjustable swivel angle</b>	●



## ► BENEFITS IN DETAIL



- ① **0-position**
  - High-pressure air in 1B and 2B: Internal- and external blades go to the 0-position
- ② **First 90°-intermediate adjustment**
  - High-pressure air A and A': The external blade swivel up to the external limit stop (Stopper) at 90 °.
- ③ **Second 90°-intermediate setting**
  - High-pressure air B and B': The external blade swivels with the internal 90° limit stop to the 0-position. The internal blade swivel 180° set opposite each other.
- ④ **Third 90°-intermediate adjustment**
  - High-pressure air A and B: The external blade swivels with the internal blade in the movement direction at 90°.

## ► TECHNICAL DATA

Installation size	Swivel angle [°]	Torque [Nm]	Weight [kg]	IP class
SH-5	360	0,59 - 2,73	0.52	IP54
SH-20	360	2,35 - 7,2	1.13	IP54

## ► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: [www.zimmer-group.com](http://www.zimmer-group.com). Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

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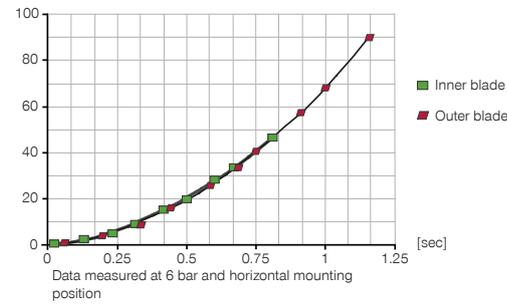
## INSTALLATION SIZE SH-20

### ▶ PRODUCT SPECIFICATIONS



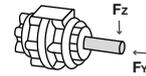
#### ▶ Moment of inertia

[kg cm<sup>2</sup>] Shows the expected swivel time vs the calculated moment of inertia



#### ▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	125
FZ [N]	255

### ▶ RECOMMENDED ACCESSORIES



#### ENERGY SUPPLY



**GV1-8X8**  
Straight Fittings - Quick Connect Style



#### ENERGY SUPPLY



**DRV1-8X6**  
Flow Control Valves - with Swivel joint

Order no.	Technical data
	<b>SH-20</b>
Swivel angle [°]	360
Torque outer blade [Nm]	7.2
Torque inner blade [Nm]	2.35
Swivel time outer blade [s]	1.1
Swivel time inner blade [s]	0.8
Repetition accuracy +/- [°]	3
Operating pressure min. [bar]	3
Operating pressure max. [bar]	7
Nominal operating pressure [bar]	6
Air volume per cycle outer blade [cm <sup>3</sup> ]	72
Air volume per cycle inner blade [cm <sup>3</sup> ]	23
Weight [kg]	1.13

