

# Radial gripper DHRC

FESTO



## The cost-effective alternative

### Highlights

- Economical thanks to optimal price/performance ratio
- High repetition accuracy and high torque
- Long-life with integrated guide
- C- and T-slots for a wide range of sensors
- Reduced copper, zinc and nickel content for use in battery production

**The compact and light radial gripper DHRC is ideal for use in the electronics and small parts industry and also for battery production thanks to its reduced copper, zinc and nickel content. And it is cost-effective too, helping you to manage your production costs.**

### Reliable

The durable design and the rigidity of the gripper fingers ensures the DHRC has a long service life, without it losing any of its very high repetition accuracy. The opening angle is up to 180°, the side supporting frame of the gripper jaws enables a high torque load.

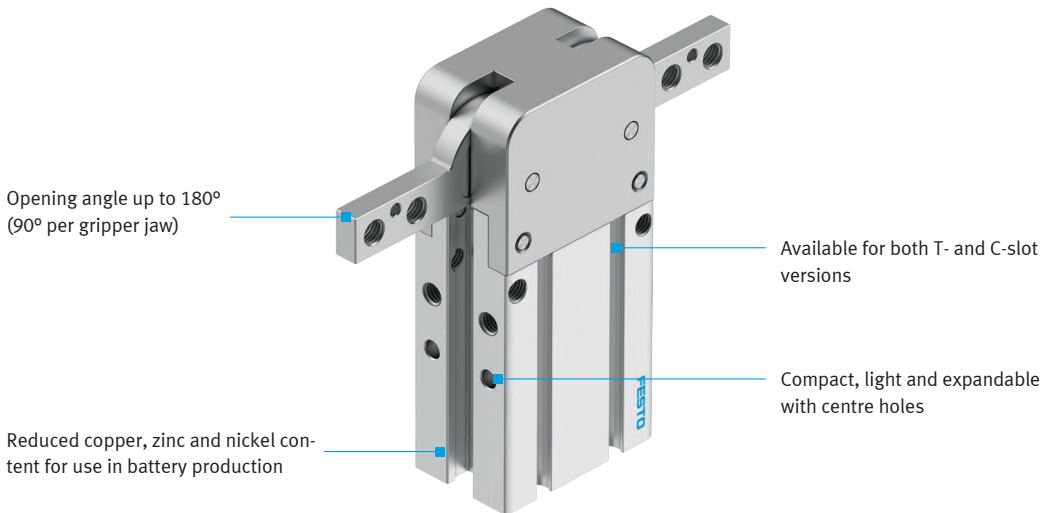
The DHRC is available in single-acting or double-acting versions and in many different sizes. A wide range of connection options makes mounting very easy. Gripping force retention is optionally available.

### Efficient and sustainable

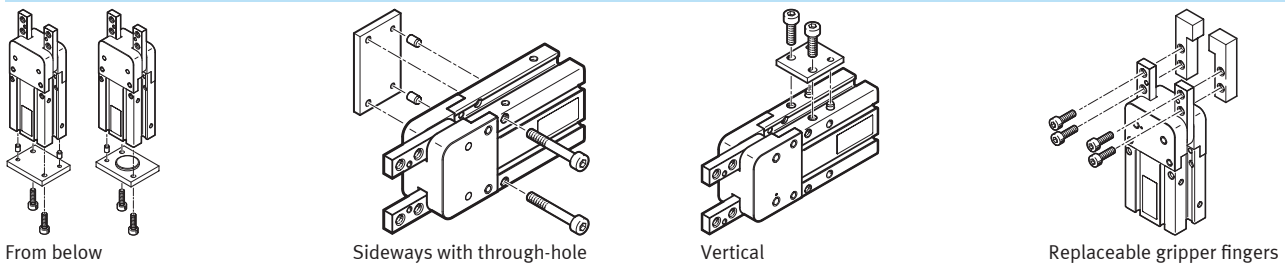
Our experts had several objectives in mind when they developed the DHRC: an attractive price, low weight and designed to save as much space as possible. The low content of copper, zinc and nickel also makes it suitable for battery production. Last but not least, the reduced material usage, the long service life and the low air consumption also make it extremely sustainable.

# Radial gripper DHRC

## Product overview



## Mounting



## Technical data

Size		6	10	16	20	25	32	
Mode of operation		Double-acting	Double-acting, single-acting, open					
Opening angle	[°]	180						
Repetition accuracy <sup>1)</sup>	[mm]	≤0.1						
Rotational symmetry	[mm]	≤0.2						
Max. interchangeability	[mm]	≤0.2						
Max. operating frequency	[Hz]	≤3			≤2			
Position sensing		Via proximity switch						
Type of mounting		Direct mounting via through-hole or thread						
		-			With through-hole and dowel pin, with female thread and dowel pin			
Operating pressure <sup>2)</sup>	[MPa]	0,25 ... 0,8	0,1 ... 0,8					
	[psi]	36,25 ... 116	14,5 ... 116					
Ambient temperature	[°C]	-10 ... +60						
Weight <sup>2)</sup>	[g]	24,5	54	111	218,4	438,5	716,5	
Min. opening time at 6 bar <sup>2)</sup>	[ms]	10	28	37	44	90	117	
Min. closing time at 6 bar <sup>2)</sup>	[ms]	19	43	53	57	117	129	
Total gripping torque at 6 bar	open <sup>2)</sup> [Ncm]	6,7	25,3	81,1	166,2	343,6	725,6	
	close <sup>2)</sup> [Ncm]	4,8	20,4	66,8	134,3	277,5	600,1	
Max. permissible static force Fz at the gripper jaws	[N]	12	35	60	100	140	210	
Max. permissible static torque at the gripper jaws	Mx [Nm]	0,3	0,5	2	4	7	12	
	My [Nm]	0,3	0,5	1	2	4	8	
	Mz [Nm]	0,3	0,5	2	4	7	12	

1) Under constant exposure to operating conditions, end-position drift occurs in the direction of movement of the gripper jaws at 100 consecutive strokes

2) Values for basic version; values for version with gripper force retention may vary!