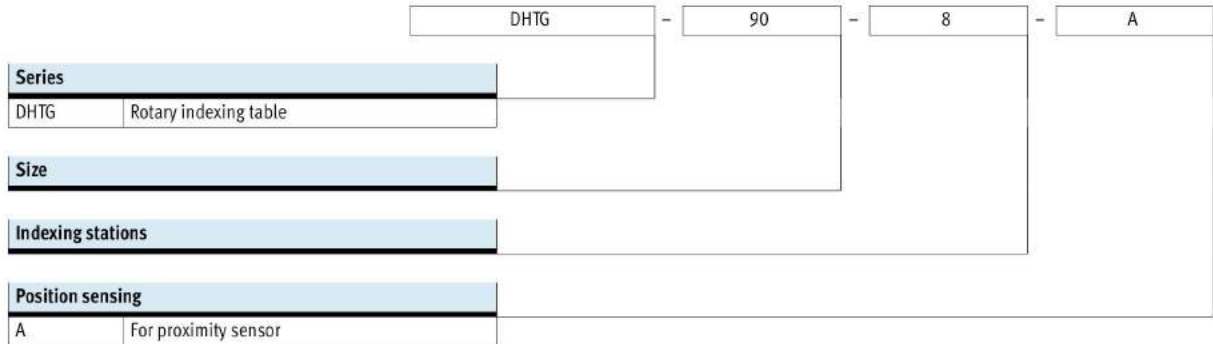


# Rotary indexing tables DHTG


Type codes



# Rotary indexing tables DHTG

Technical data


FESTO

-  Size  
65, 90, 140, 220
- Indexing stations  
2, 3, 4, 6, 8, 12, 24



General technical data					
Size	65	90	140	220	
Pneumatic connection	M5		G1/8		
Design	Gear coupling				
	Rack and pinion				
	Force-guided motion sequence				
Mode of operation	Double-acting				
Type of mounting	Via through-holes and centring sleeve				
Mounting position	Any				
Cushioning	Adjustable shock absorber stroke, hard characteristic curve				
Indexing stations	2, 3, 4, 6, 8, 12, 24		3, 4, 6, 8, 12, 24		
Torque at 6 bar	[Nm]	2.1	4.4	18.1	58.9
Parallelism of plate <sup>1)</sup>	[mm]	≤ 0.04			
Axial eccentricity of plate <sup>2)</sup>	[mm]	≤ 0.02			
Concentricity of plate <sup>3)</sup>	[mm]	≤ 0.02			
Repetition accuracy of swivel angle	[°]	≤ 0.03			
Max. mass moment of inertia without flow control <sup>4)</sup>	[kgm <sup>2</sup> ]	0.016	0.03	0.3	2.5
Cycle time without flow control		→ 8			
Position sensing	For inductive proximity sensors				
Product weight	[kg]	2.0	4.5	10	24

- 1) Parallelism of the upper plate surface relative to the housing support
- 2) Measured on the upper surface of the plate at the plate edge relative to the housing support
- 3) Measured on the internal diameter of the plate relative to the housing
- 4) Operation with flow control can increase the mass moment of inertia by 50%. The service life of the shock absorber is reduced in this case. The mass moment of inertia depends on the number of stations and the switching frequency (→ 9)

-  Note

The "clockwise" rotation of the table can be controlled via an internal flow control valve in combination with the reciprocating motion kit.

For "anti-clockwise" rotation, external actuation via an additional one-way flow control valve GRLA is needed.

Operating and environmental conditions	
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)
Operating pressure	[bar] 4 ... 8
Ambient temperature	[°C] 5 ... 60
Storage temperature	[°C] -20 ... +80
Protection class	IP54
Corrosion resistance class CRC <sup>1)</sup>	2

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070  
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

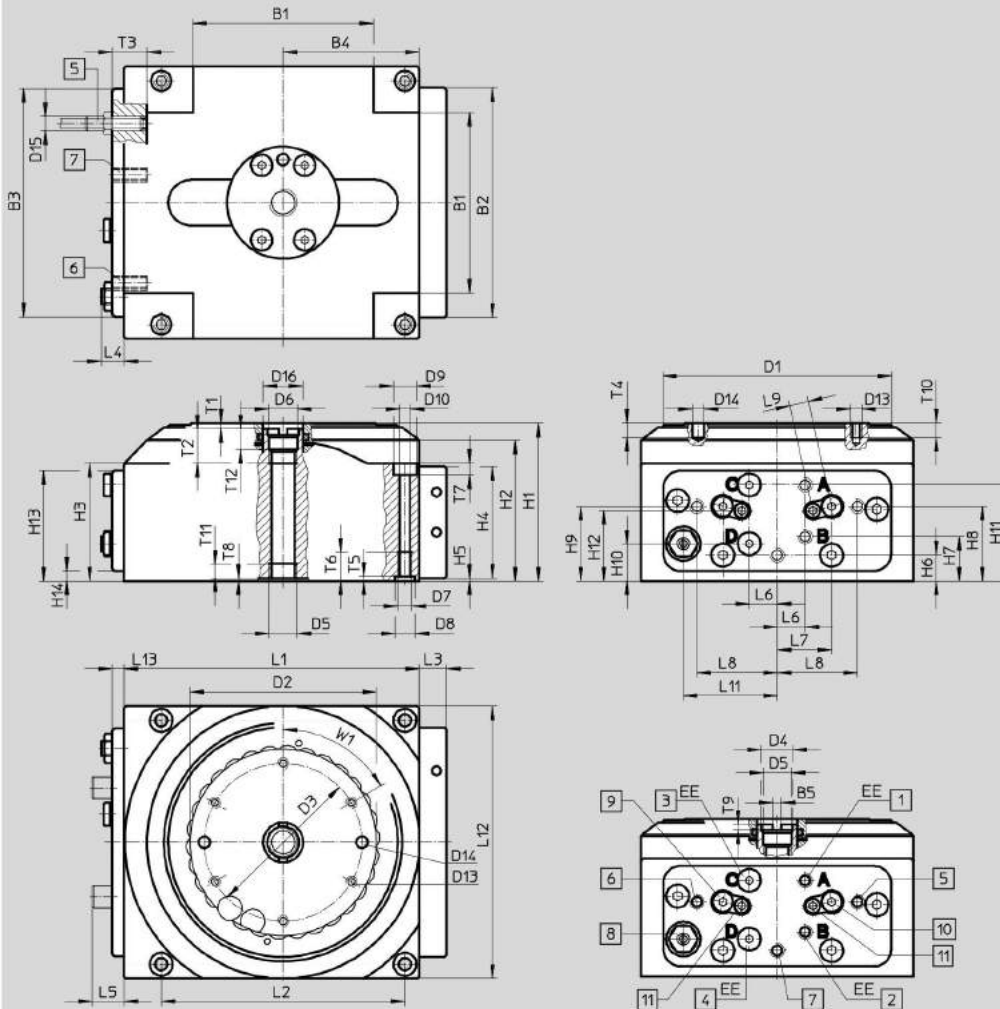
# Rotary indexing tables DHTG

Technical data



## Dimensions

Size 65



- |   |   |   |  |
|---|---|---|--|
| <ul style="list-style-type: none"> <li>1 Supply port: unlock and rotate (reciprocating motion: unlock)</li> <li>2 Supply port: lock and return stroke (reciprocating motion: lock)</li> <li>3 Blanking plug; (reciprocating motion: supply port for clockwise turning)</li> </ul> | <ul style="list-style-type: none"> <li>4 Blanking plug; (reciprocating motion: supply port for anti-clockwise turning)</li> <li>5 Sensor turned for clockwise rotation (sensor basic setting for anti-clockwise rotation)</li> <li>6 Sensor basic setting for clockwise rotation (sensor turned for anti-clockwise rotation)</li> </ul> | <ul style="list-style-type: none"> <li>7 Sensor lock</li> <li>8 One-way flow control valve</li> <li>9 Adjustment of end position cushioning for anti-clockwise operation and reciprocating operation (non-applicable for clockwise rotation)</li> </ul> | <ul style="list-style-type: none"> <li>10 Adjustment of end position cushioning for clockwise operation and reciprocating operation (non-applicable for anti-clockwise rotation)</li> <li>11 Tightening of end position cushioning 2.5 Nm</li> </ul> |
|---|---|---|--|

## Rotary indexing tables DHTG

Technical data

FESTO

Size	B1 <sup>3)</sup>	B2	B3	B4	B5	D1 ∅	D2 ∅	D3 <sup>1)</sup> ∅	D4 ∅	D5	D6 ∅ H8	D7	
65	±2	80	79,5	47,5	+0,1	3	80	65	55	11	G <sup>1</sup> / <sub>8</sub>	10	M5

Size	D8 ∅ H8	D9 ∅	D10 ∅	D13	D14 ∅ H8	D15	D16 ∅ H8	EE	H1 ±0,5	H2	H3	H4
65	7	8	4,3	M4	4	M5x0,5	14	M5	55	49	41	39

Size	H5	H6	H7	H8	H9	H10	H11	H12	H13	H14	L1 ±0,1	L2 <sup>1)</sup> □
65	1	9	15,5	26	26	13	33,5	24,5	38,5	3,5	103	85

Size	L3	L4	L5 <sup>2)</sup> max	L6	L7	L8	L9	L11	L12 ±0,1	L13 ±0,1	T1 ±1	T2 min
65	9,5	8	11	9,75	19	28	6,7	32,75	95	3,5	2	14

Size	T3 min	T4 min	T5 +0,1	T6 min	T7	T8	T9	T10 min	T11 min	T12	W1
65	12	5	1,6	10	4	0,5	2	6	5	7	60°

- 1) Tolerance between the centring holes: ±0.02  
Tolerance between the threaded holes and countersinks: ±0.2
- 2) Max. projection of shock absorber adjustment
- 3) 0.1 +0.05 recessed

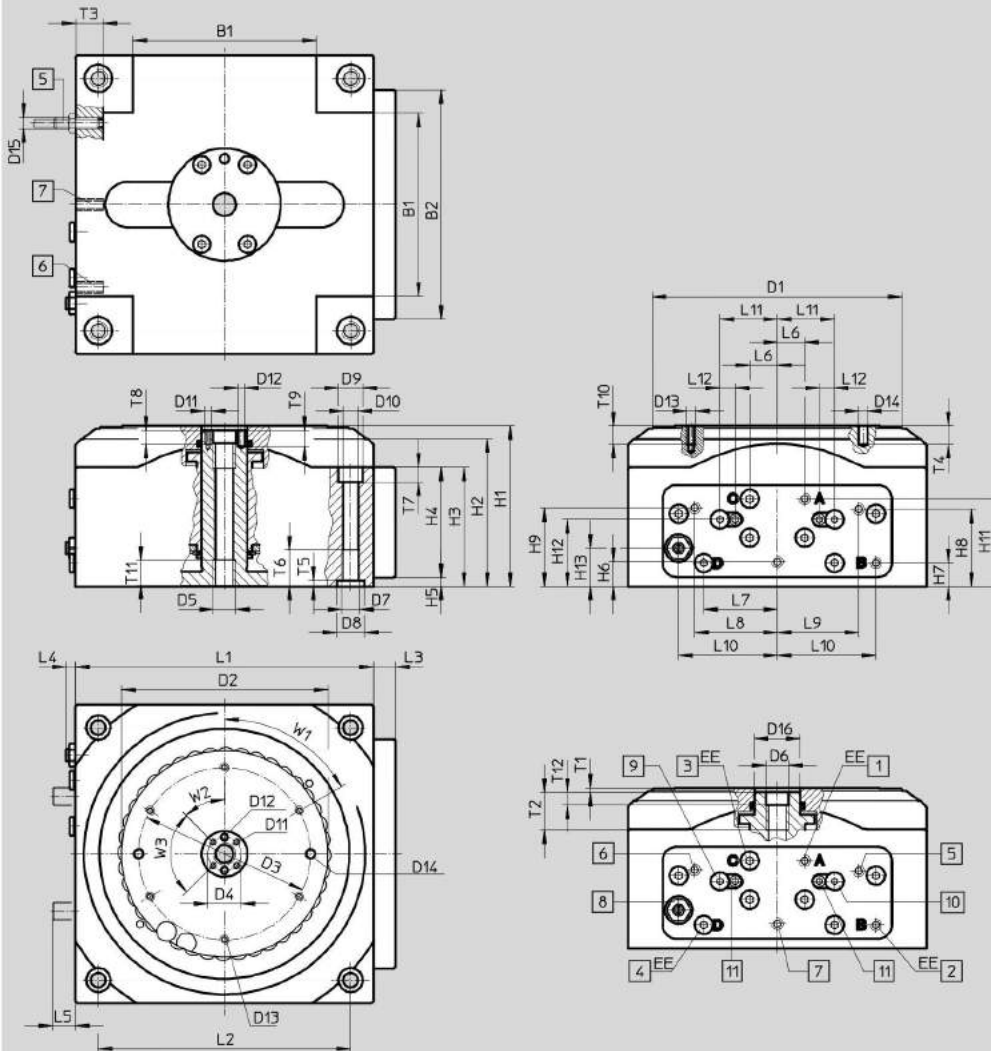
# Rotary indexing tables DHTG

Technical data



## Dimensions

Size 90



- |   |   |   |  |
|---|---|---|--|
| <ul style="list-style-type: none"> <li>1 Supply port: unlock and rotate (reciprocating motion: unlock)</li> <li>2 Supply port: lock and return stroke (reciprocating motion: lock)</li> <li>3 Blanking plug; (reciprocating motion: supply port for clockwise turning)</li> </ul> | <ul style="list-style-type: none"> <li>4 Blanking plug; (reciprocating motion: supply port for anti-clockwise turning)</li> <li>5 Sensor turned for clockwise rotation (sensor basic setting for anti-clockwise rotation)</li> <li>6 Sensor basic setting for clockwise rotation (sensor turned for anti-clockwise rotation)</li> </ul> | <ul style="list-style-type: none"> <li>7 Sensor lock</li> <li>8 One-way flow control valve</li> <li>9 Adjustment of end position cushioning for anti-clockwise operation and reciprocating operation (non-applicable for clockwise rotation)</li> </ul> | <ul style="list-style-type: none"> <li>10 Adjustment of end position cushioning for clockwise operation and reciprocating operation (non-applicable for anti-clockwise rotation)</li> <li>11 Tightening of end position cushioning 2.5 Nm</li> </ul> |
|---|---|---|--|

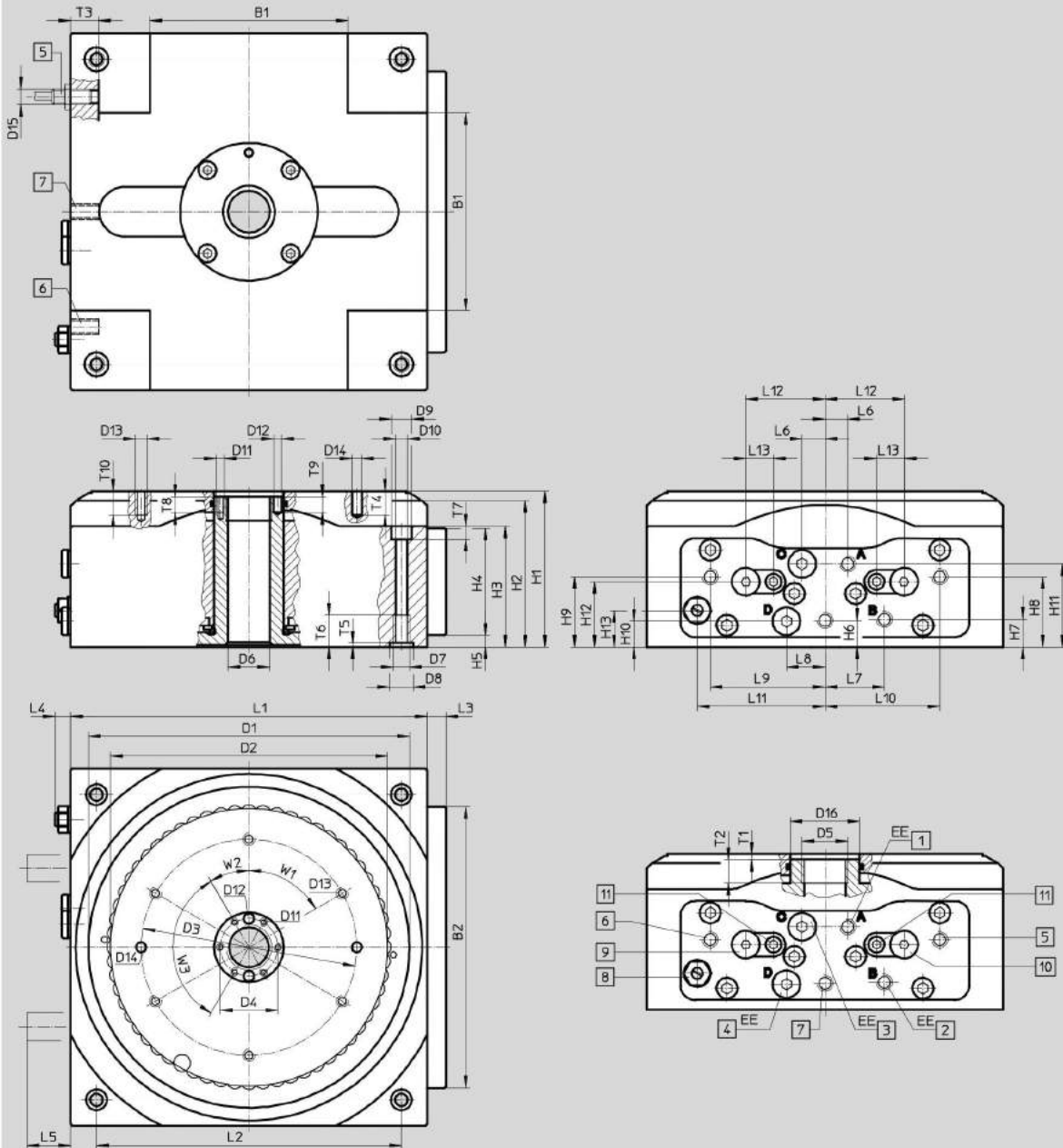
# Rotary indexing tables DHTG

Technical data

FESTO

## Dimensions

Sizes 140, 220



- |   |   |   |  |
|---|---|---|--|
| <ul style="list-style-type: none"> <li>1 Supply port: unlock and rotate (reciprocating motion: unlock)</li> <li>2 Supply port: lock and return stroke (reciprocating motion: lock)</li> <li>3 Blanking plug; (reciprocating motion: supply port for clockwise turning)</li> </ul> | <ul style="list-style-type: none"> <li>4 Blanking plug; (reciprocating motion: supply port for anti-clockwise turning)</li> <li>5 Sensor turned for clockwise rotation (sensor basic setting for anti-clockwise rotation)</li> <li>6 Sensor basic setting for clockwise rotation (sensor turned for anti-clockwise rotation)</li> </ul> | <ul style="list-style-type: none"> <li>7 Sensor lock</li> <li>8 One-way flow control valve</li> <li>9 Adjustment of end position cushioning for anti-clockwise operation and reciprocating operation (non-applicable for clockwise rotation)</li> </ul> | <ul style="list-style-type: none"> <li>10 Adjustment of end position cushioning for clockwise operation and reciprocating operation (non-applicable for anti-clockwise rotation)</li> <li>11 Tightening of end position cushioning 2.5 Nm</li> </ul> |
|---|---|---|--|

# Rotary indexing tables DHTG

Technical data

Size	B1 <sup>3)</sup> ±2	B2	D1 ∅	D2 ∅	D3 <sup>1)</sup> ∅	D4 <sup>1)</sup> ∅	D5	D6 ∅	D7	D8 ∅ H8	D9 ∅	D10 ∅	D11	D12 ∅ H8
140	100	142	159	140	109	29	M23x1	22	M8	12	10,5	6,4	M4	4
220	150	212	239	220	165	67	–	58,4	M10	15	13,5	8,4	M5	5

Size	D13	D14 ∅ H8	D15	D16 ∅ H8	EE	H1 ±0,5	H2	H3	H4	H5	H6	H7	H8	H9
140	M6	5	M8x1	35	G½	79	74	61	54	6	13,5	14	35,5	35,5
220	M8	6	M8x1	75	G½	89	83,5	68,5	64	4,5	13,5	24,5	15	15

Size	H10	H11	H12	H13	L1 □ ±0,1	L2 <sup>1)</sup> □	L3	L4 +1	L5 <sup>2)</sup> max	L6	L7	L8	L9	L10	L11
140	13	42	33	18,5	180	154	9,5	8,25	22	11,5	30	19,5	58	57,5	64,5
220	24,5	50,5	36,5	24	270	228	12	4,6	22	41	41	41	61	61	99,5

Size	L12	L13	T1 ±1	T2 min	T3 min	T4 min	T5 +0,1	T6 min	T7	T8 min	T9 min	T10 min	W1	W2	W3
140	40	14	3	12	14	8	2,6	16	6,5	8	8	11	60°	30°	120°
220	68	14	4	–	19	8	3,1	20	8,5	10	10	11	60°	30°	120°

- 1) Tolerance between the centring holes: ±0.02  
Tolerance between the threaded holes and countersinks: ±0.2
- 2) Max. projection of shock absorber adjustment
- 3) 0.1 +0.05 recessed

Ordering data				
	Size	Indexing stations	Part No.	Type
	65	2	548076	DHTG-65-2-A
		3	555448	DHTG-65-3-A
		4	548077	DHTG-65-4-A
		6	548078	DHTG-65-6-A
		8	548079	DHTG-65-8-A
		12	548080	DHTG-65-12-A
		24	548081	DHTG-65-24-A
		90	2	548082
	3		555449	DHTG-90-3-A
	4		548083	DHTG-90-4-A
	6		548084	DHTG-90-6-A
	8		548085	DHTG-90-8-A
	12		548086	DHTG-90-12-A
	24		548087	DHTG-90-24-A
	140		3	555450
		4	548088	DHTG-140-4-A
		6	548089	DHTG-140-6-A
		8	548090	DHTG-140-8-A
		12	548091	DHTG-140-12-A
		24	548092	DHTG-140-24-A
	220	3	555451	DHTG-220-3-A
		4	548093	DHTG-220-4-A
		6	548094	DHTG-220-6-A
		8	548095	DHTG-220-8-A
12		548096	DHTG-220-12-A	
24		548097	DHTG-220-24-A	