

## Rotary indexing tables DHTG

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# Rotary indexing tables DHTG

Key features

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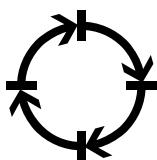
## At a glance

- Sturdy mechanical system
- Simple planning and commissioning
- Number of stations: 2, 3, 4, 6, 8, 12, 24
- Integrated functions:
  - Overload protection
  - Sensor function
  - Cushioning adjustment
  - Speed setting
  - Changing the direction of rotation

## Actuation options

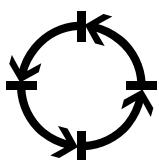
Clockwise

- Just one valve required



Anti-clockwise

- Just one valve required



Reciprocating motion

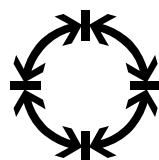
- Following conversion with reciprocating motion kit
- Two valves required



Variable actuation

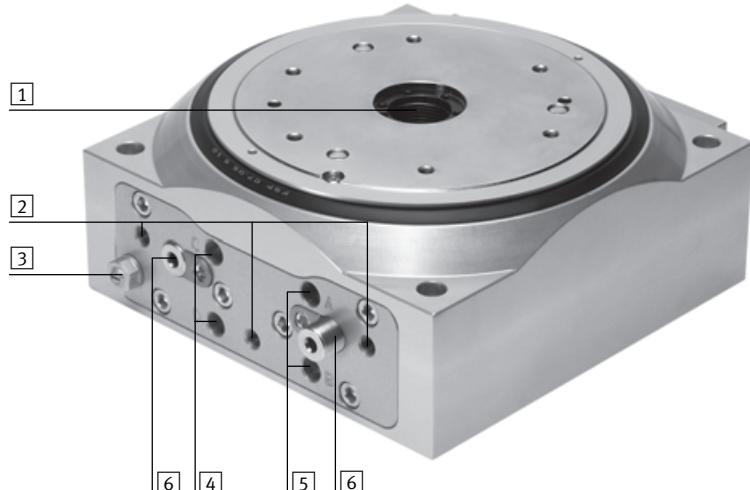
Left, right, reciprocating motion

- Following conversion with reciprocating motion kit
- Two valves required



## The technology in detail

- [1] Through-hole for energy throughfeed
- [2] Thread for position sensing
- [3] One-way flow control valve for regulating speed
- [4] Supply port for reciprocating operation
- [5] Supply port for clockwise or anti-clockwise rotation
- [6] Adjusting screw for cushioning adjustment



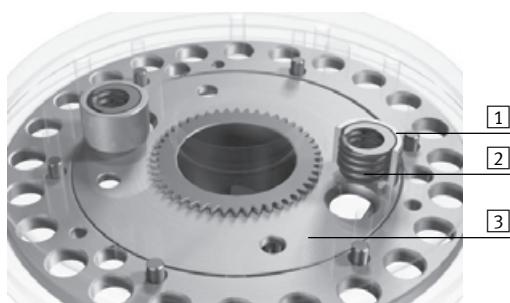
## Overload protection

To prevent the rotary indexing table from being damaged by an excessive mass moment of inertia, e.g. during setting operation or in the event of shock absorber failure, sizes 140 and 220 feature overload protection.

If the mass moment of inertia is too large, the securing pin is pressed against the spring force by the resulting radial force. It then slides forward on the toothed segment. This shift in

position between the index plate and toothed segment means that the securing pin can no longer engage and the rotary indexing table does not move. The table can be made ready for use again by turning it back.

- [1] Securing pin
- [2] Spring
- [3] Toothed segment



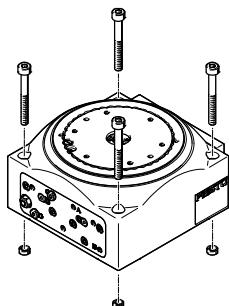
# Rotary indexing tables DHTG

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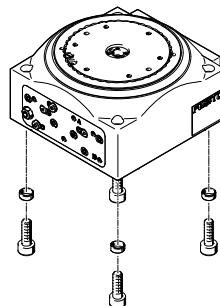
Key features

## Mounting options

Direct mounting from above



Direct mounting from below



## Typical applications

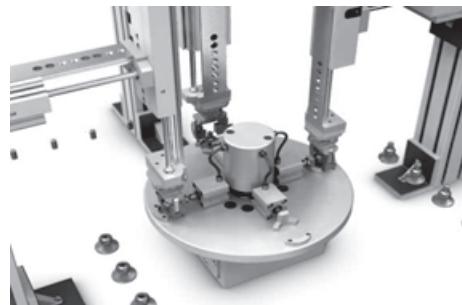
Basic rotary table

- Handling with minimum space requirement



Rotary table with rotary distributor

- For the transfer of compressed air and vacuum to the rotary table
- With 1 or 2 separate ducts



Rotary table with stationary centre section

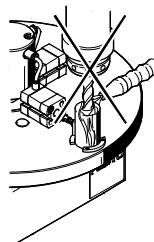
- For the mounting of handling units or other devices in the centre of the rotary indexing table



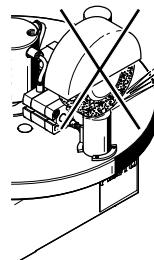
## Note

The rotary indexing tables are not designed for the following or similar sample applications:

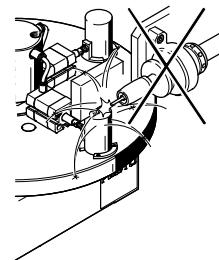
- Machining
- Aggressive media



- Grinding dust



- Welding spatter



# Rotary indexing tables DHTG

Type codes

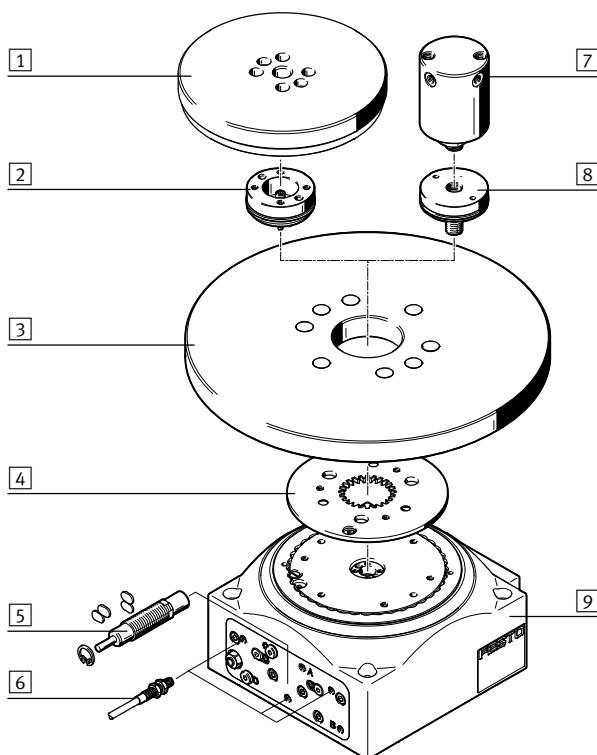
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DHTG	Rotary indexing table	DHTG	-	90	-	8	-	A
<b>Series</b>								
<b>Size</b>								
<b>Indexing stations</b>								
<b>Position sensing</b>								
A	For proximity sensor							

# Rotary indexing tables DHTG

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Peripherals overview



## Variants and accessories

Type	Brief description	➔ Page/Internet
[1] Unmachined plate, fixed	Example of representation, not included in scope of delivery	16
[2] Adapter kit DADG-AK	For mounting the unmachined plate DADG-UPF on the rotary table	16
[3] Unmachined plate, rotating	Example of representation, not included in scope of delivery	16
[4] Indexing conversion kit DADM-CK	The indexing steps can be adjusted at any time using the kit	19
[5] Reciprocating motion kit DADM-TK	Allows conversion from movement in one direction to reciprocating movement	19
[6] Proximity sensors SIEN	For sensing the switching position of the rotary indexing table	19
[7] Rotary distributor GF	Distributes the compressed air conducted through the centre of the rotary indexing table to the actuators on the unmachined rotating plate. Cannot be used in combination with the fixed unmachined plate DADG-UPF	17
[8] Adapter kit DADG-AK-...-G...	For mounting the rotary distributor on the rotary indexing table	18
[9] Rotary indexing table DHTG	Flexible range of applications: Anti-clockwise and clockwise rotation or reciprocating motion	6

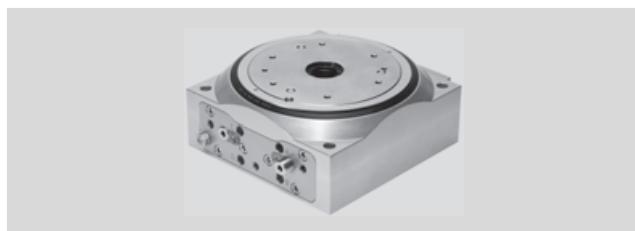
# Rotary indexing tables DHTG

Technical data

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- Ø - 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.

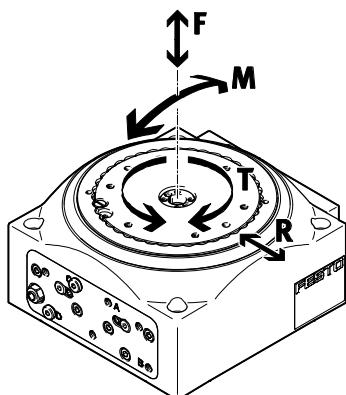
# Rotary indexing tables DHTG

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Technical data

## Static characteristic load values

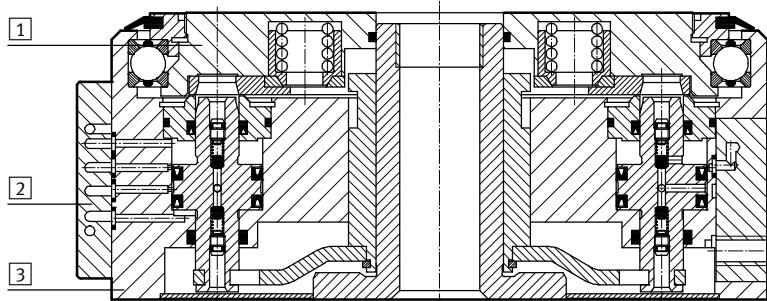
The indicated forces and torques refer to the locked table and can also act on the table plate.



Size	65	90	140	220
Forces				
Max. axial force F [N]	1000	2000	4000	5000
Max. radial force R [N]	2000	5000	6000	8000
Torques				
Max. tilting moment M [Nm]	100	150	300	500
Max. tangential moment T [Nm]	100	150	200	500

## Materials

Sectional view



## Rotary indexing table

[1] Plate	Galvanised steel
[2] Cover	Wrought aluminium alloy
[3] Housing	Wrought aluminium alloy
- Stops	Galvanised steel
- Seals	NBR, TPE-U (PU)
Note on material	Free of copper and PTFE Conforms to RoHS

# Rotary indexing tables DHTG

Technical data

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## Calculation of the cycle time

The rotary indexing tables are equipped with a hydraulic shock absorber, which means that the max. frequency of the shock absorber must also be taken into account when calculating the cycle time.

The switching time comprises:  
Switching time = Unlock, rotate, lock and return stroke of working piston.  
The cycle time is calculated as follows:  
Cycle time = Switching time + Processing time + Dwell time.

In the switching frequency graph, the max. achievable switching frequency is read in relation to the mass moment of inertia. From this the switching time can be calculated using  $T = 60/f$ . The processing time is calculated from the time required by

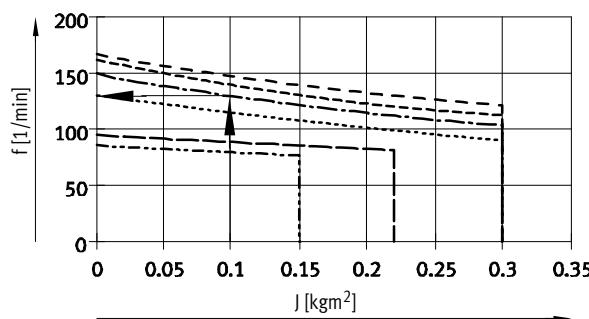
the respective customer application (e.g. time for component removal, press-in time, etc.). A dwell time may be necessary if the cycle time is shorter than the min. possible cycle time.

## Calculation example

DHTG-140 with 8 stations and a mass moment of inertia of  $0.1 \text{ kgm}^2$ .

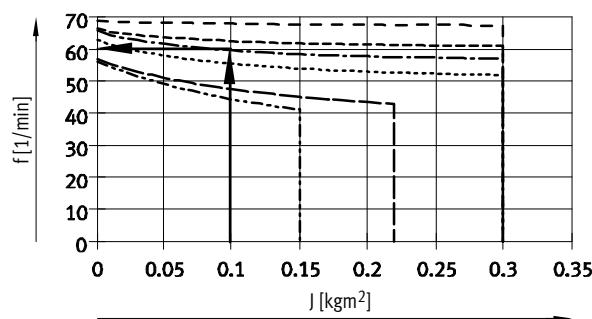
The customer application requires 300 ms per step for the insertion and removal of parts.

Switching frequency in rpm



$$T_{\text{switching time}} = \frac{1}{f} = \frac{60\text{s}}{130} = 0.461\text{s} = 461\text{ms}$$

Max. permissible cycle frequency



$$T_{\text{min. perm. cycle time}} = \frac{60\text{s}}{59} = 1.017\text{s} = 1017\text{ms}$$

Dwell time = Min. permissible cycle time – Switching time – Processing time  
Dwell time = 1017 ms – 461 ms – 300 ms = 256 ms.

Given the fact that the switching time + processing time is smaller than the min. permissible cycle time, the rotary indexing table must stay in the end position

before the next step is performed.  
In other words, between the switching an additional dwell time of 256 ms must be allowed for in the control sequence.

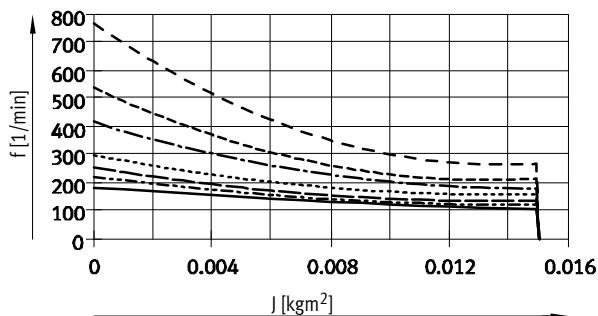
# Rotary indexing tables DHTG

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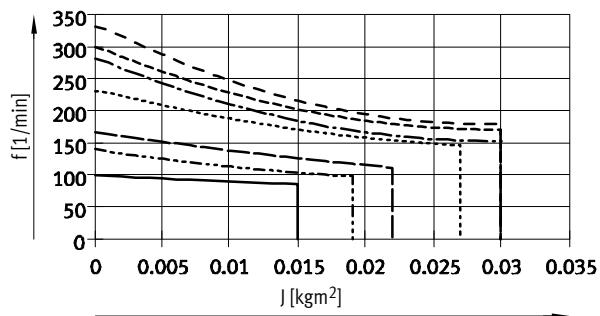
Technical data

Mass moment of inertia  $J$  as a function of switching frequency  $f$  and number of stations

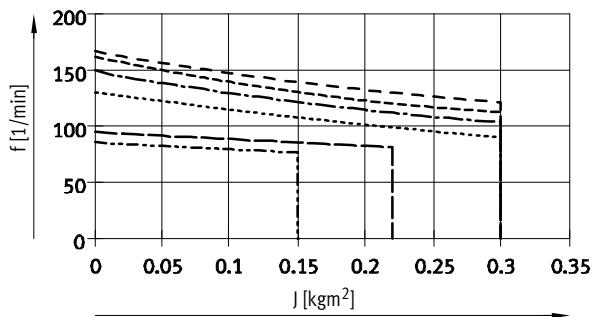
Size 65



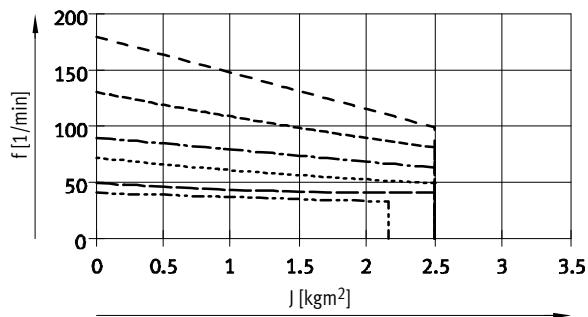
Size 90



Size 140

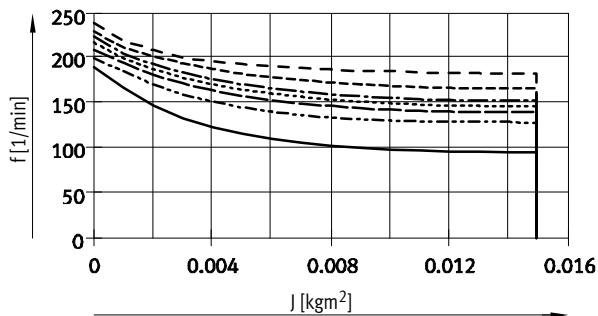


Size 220

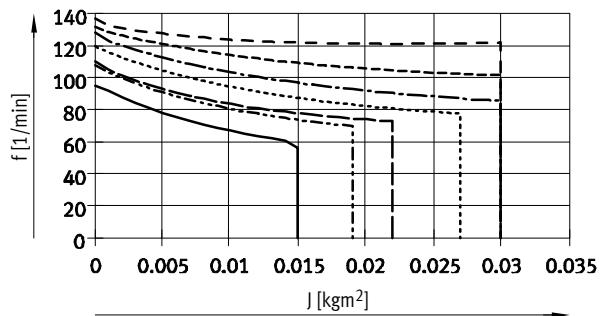


Max. permissible cycle frequency  $f$  as a function of mass moment of inertia  $J$

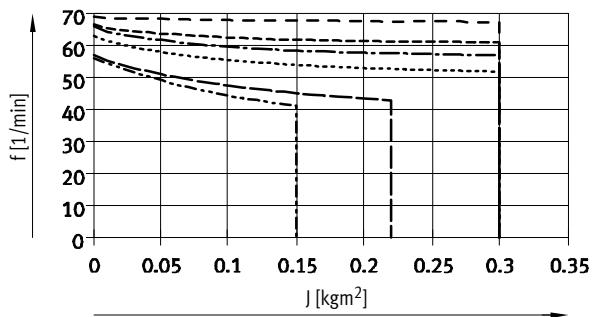
Size 65



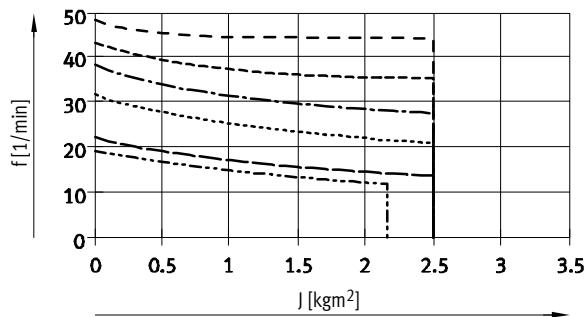
Size 90



Size 140



Size 220



- 2 indexing stations
- - - 3 indexing stations
- 4 indexing stations
- - - 6 indexing stations
- 8 indexing stations
- - - 12 indexing stations
- 24 indexing stations

# Rotary indexing tables DHTG

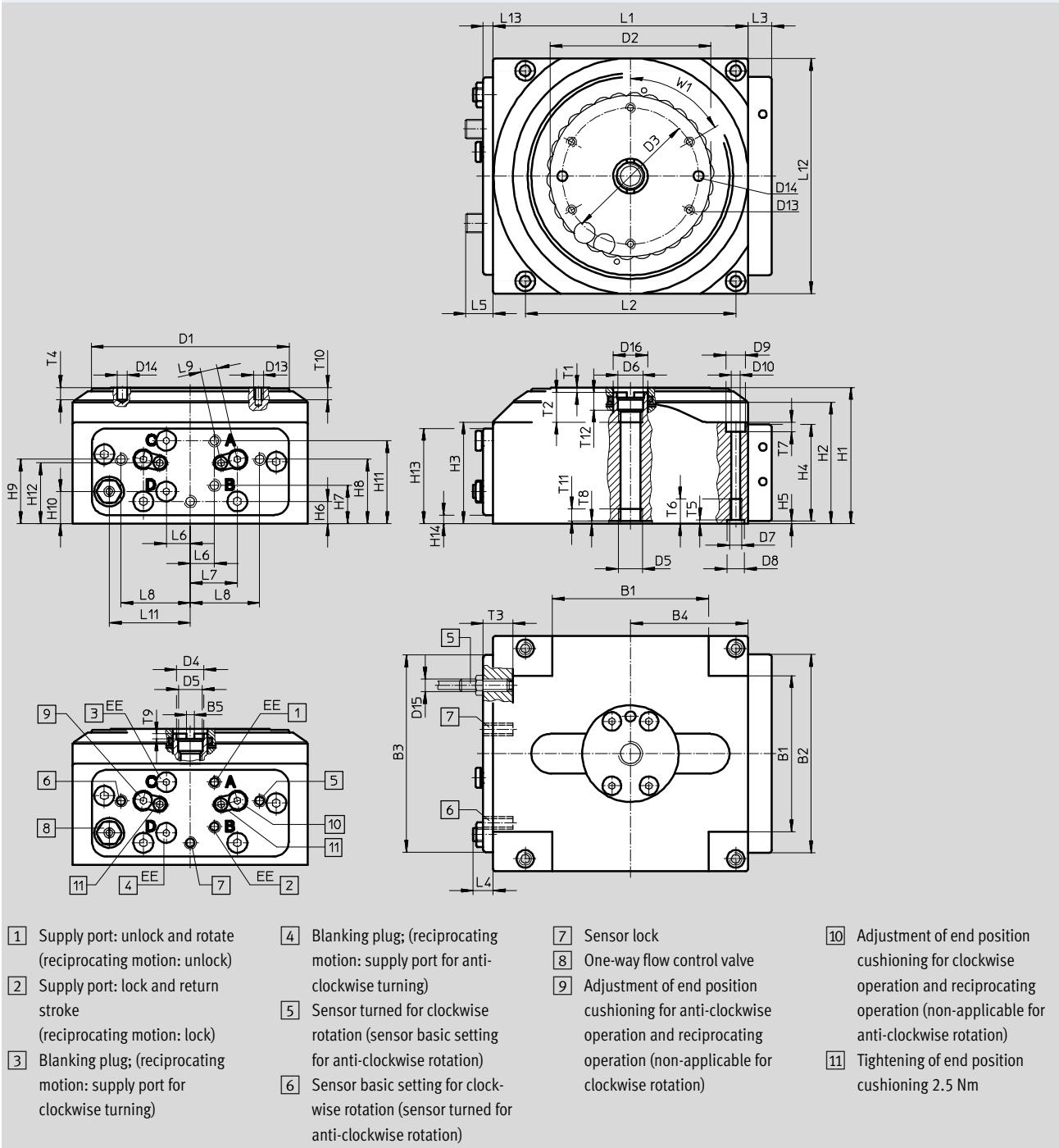
Technical data

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## Dimensions

Size 65

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- [1] Supply port: unlock and rotate (reciprocating motion: unlock)
- [2] Supply port: lock and return stroke (reciprocating motion: lock)
- [3] Blanking plug: (reciprocating motion: supply port for clockwise turning)

- [4] Blanking plug: (reciprocating motion: supply port for anti-clockwise turning)
- [5] Sensor turned for clockwise rotation (sensor basic setting for anti-clockwise rotation)
- [6] Sensor basic setting for clockwise rotation (sensor turned for anti-clockwise rotation)

- [7] Sensor lock
- [8] One-way flow control valve
- [9] Adjustment of end position cushioning for anti-clockwise operation and reciprocating operation (non-applicable for anti-clockwise rotation)

- [10] Adjustment of end position cushioning for clockwise operation and reciprocating operation (non-applicable for anti-clockwise rotation)
- [11] Tightening of end position cushioning 2.5 Nm

## Rotary indexing tables DHTG

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Technical data

Size	B1 <sup>3)</sup> ±2	B2	B3	B4	B5 +0,1	D1 Ø	D2 Ø	D3 <sup>1)</sup> Ø	D4 Ø	D5	D6 Ø H8	D7
65	63	80	79,5	47,5	3	80	65	55	11	G $\frac{1}{8}$	10	M5

Size	D8 Ø H8	D9 Ø	D10 Ø	D13	D14 Ø H8	D15	D16 Ø 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

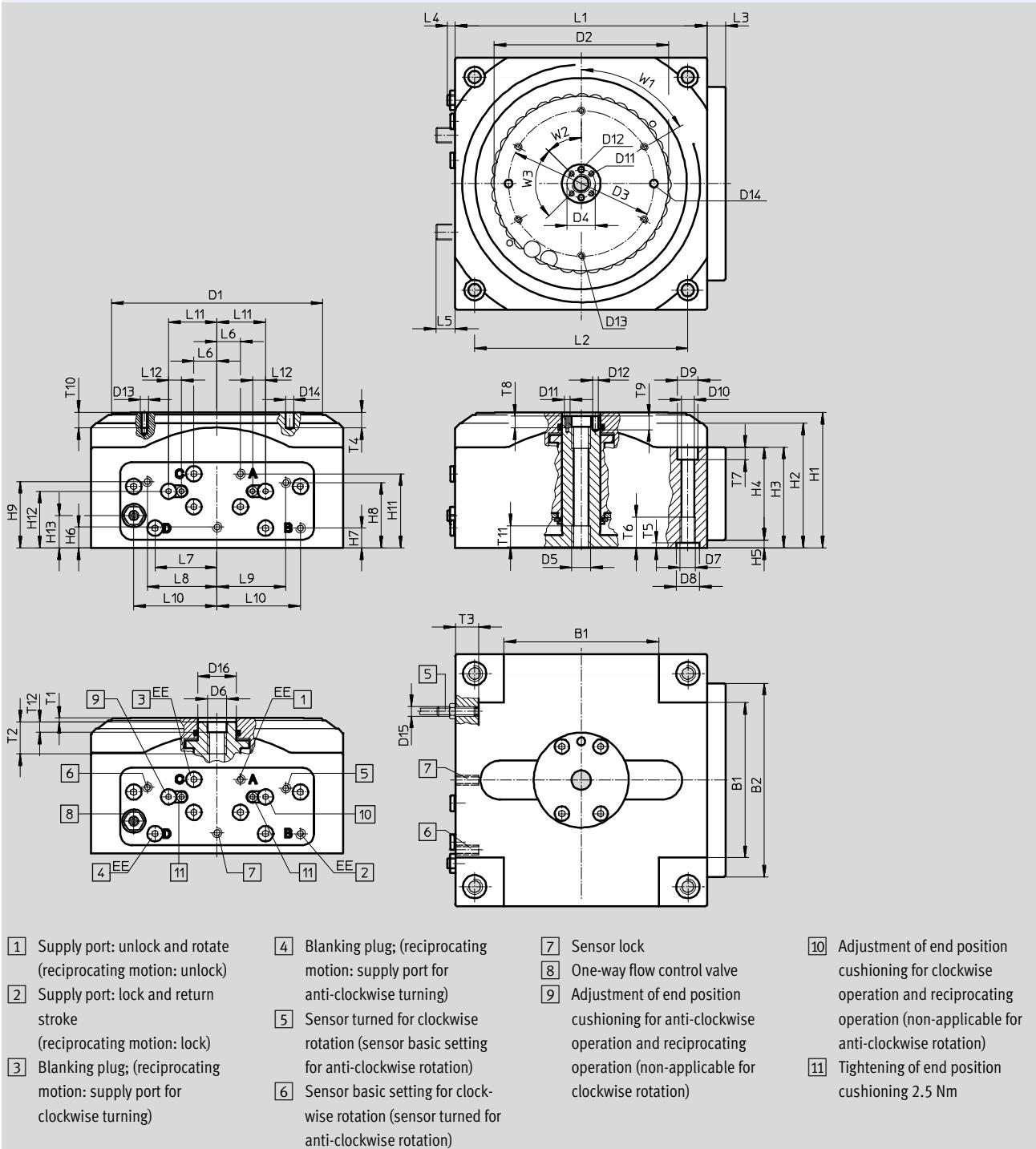
Technical data

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## Dimensions

Size 90

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## Rotary indexing tables DHTG

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Technical data

Size	B1 <sup>3)</sup> ±2	B2	D1 ∅	D2 ∅	D3 <sup>1)</sup> ∅	D4 <sup>1)</sup> ∅	D5	D6 ∅ H8	D7	D8 ∅ H8	D9 ∅	D10 ∅
90	80	100	109	90	75	14,5	G1/8	10	M8	12	10,5	6,4

Size	D11 ∅ H8	D12 ∅	D13 H8	D14 ∅	D15	D16 ∅ H8	EE	H1 ±0,5	H2	H3	H4	H5
90	M3	3	M4	4	M5x0,5	20	M5	70	64,4	52	48	4

Size	H6	H7	H8	H9	H11	H12	H13	L1 □ ±0,1	L2 <sup>1)</sup> □	L3	L4	L5 <sup>2)</sup> max
90	10,75	10,25	33,75	34,25	38,25	29,25	16,75	130	110	9,5	4	10

Size	L6	L7	L8	L9	L10	L11	L12	T1 ±1	T2 min	T3	T4	
90	12	32	36	35,5	43	25	6,7	2	16,5	12	8	

Size	T5 +0,1	T6 min	T7	T8	T9	T10	T11	T12	W1	W2	W3	
90	2,6	16	6,5	6	5	8	11	5,5	60°	45°	90°	

- 1) Tolerance between the centring holes: ±0,02
- 2) 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

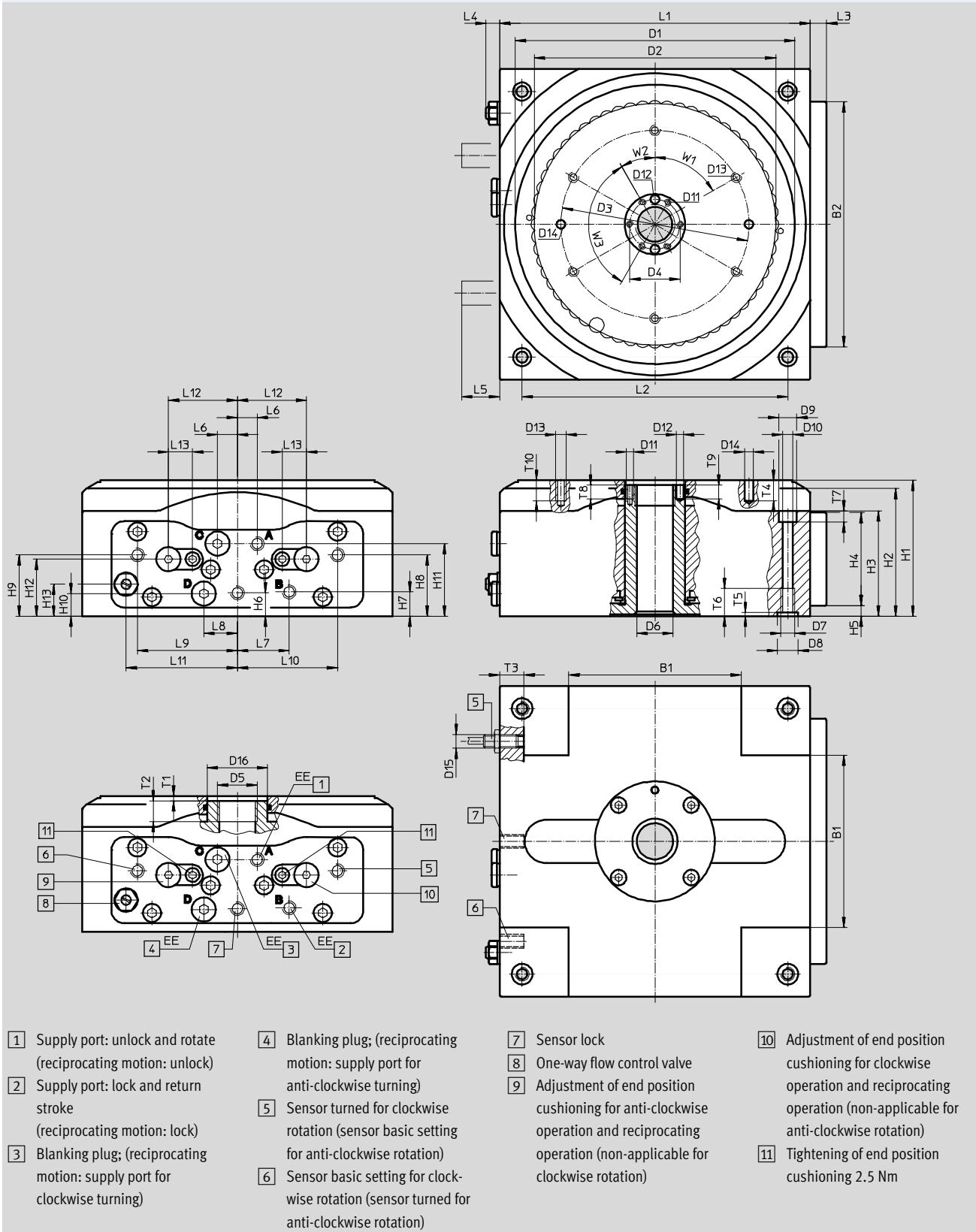
Technical data

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## Dimensions

Sizes 140, 220

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## Rotary indexing tables DHTG

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Technical data

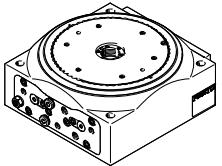
Size	B1 <sup>3)</sup> ±2	B2	D1 ∅	D2 ∅	D3 <sup>1)</sup> ∅	D4 <sup>1)</sup> ∅	D5	D6 ∅	D7	D8 ∅ H8	D9 ∅	D10 ∅	D11	D12 ∅ H8
140	100	142	159	140	109	29	M23x1	22	M8	12	10,5	64	M4	4
220	150	212	239	220	165	67	-	58,4	M10	15	13,5	8,4	M5	5

Size	D13	D14 ∅ H8	D15	D16 ∅ H8	EE	H1	H2	H3	H4	H5	H6	H7	H8	H9
140	M6	5	M8x1	35	G1/8	79	74	61	54	6	13,5	14	35,5	35,5
220	M8	6	M8x1	75	G1/8	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	L5 <sup>2)</sup> +1	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
- 2) Tolerance between the threaded holes and countersinks: ±0,02
- 2) Max. projection of shock absorber adjustment
- 3) 0,1 +0,05 recessed

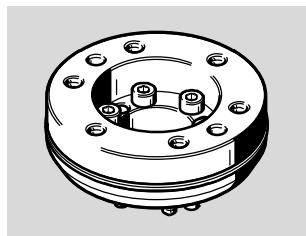
Ordering data		Size	Indexing stations	Part No.	Type
	65	2	2	<b>548076</b>	DHTG-65-2-A
			3	<b>555448</b>	DHTG-65-3-A
			4	<b>548077</b>	DHTG-65-4-A
			6	<b>548078</b>	DHTG-65-6-A
			8	<b>548079</b>	DHTG-65-8-A
			12	<b>548080</b>	DHTG-65-12-A
			24	<b>548081</b>	DHTG-65-24-A
	90	2	2	<b>548082</b>	DHTG-90-2-A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

# Rotary indexing tables DHTG

Accessories

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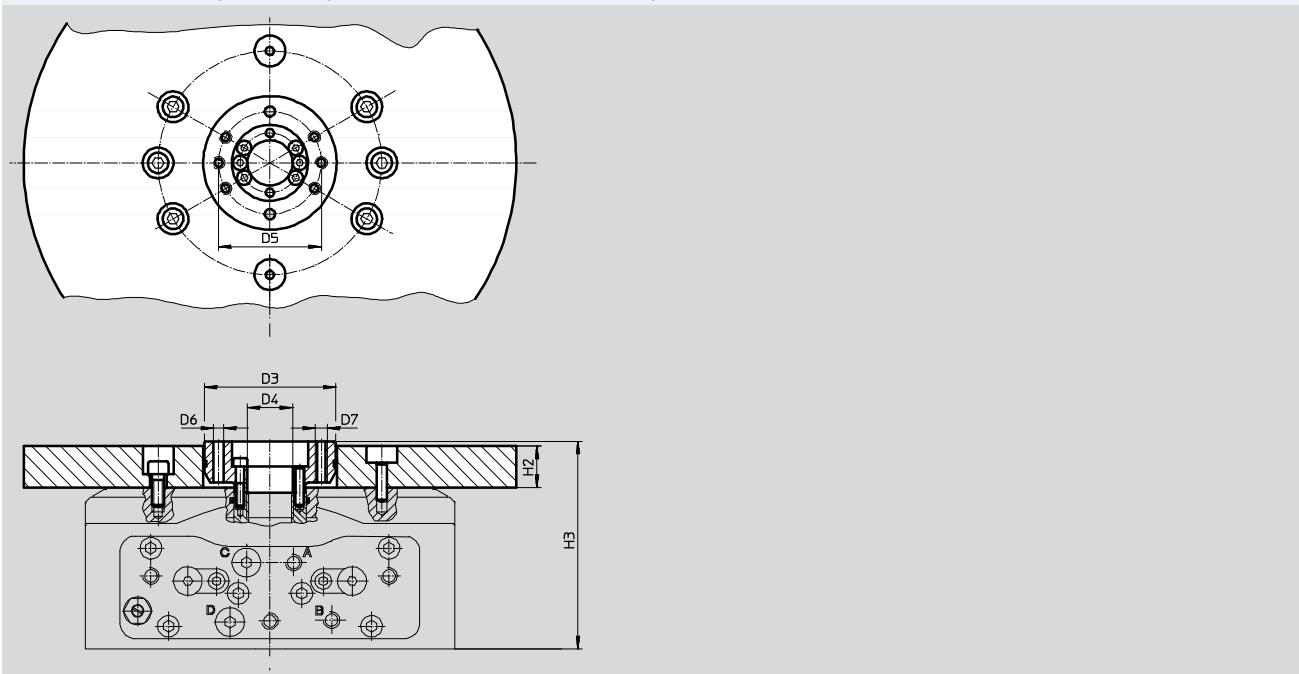
Adapter kit  
DADG-AK



## Dimensions

With rotating unmachined plate and adapter kit for mounting a fixed unmachined plate

Download CAD data → [www.festo.com](http://www.festo.com)



Size	D3 Ø +0.2	D4 Ø +0.2	D5 Ø	D6 Ø H7	D7	H2 max.	H3 ±0.5
DADG-AK-65	29	5	20	4	M4	15	72
DADG-AK-90	39	9	30	4	M4	15	87
DADG-AK-140	64	22	50	5	M6	20	101
DADG-AK-220	104	58.4	90	6	M8	20	111

## Ordering data – Adapter kit DADG-AK

	For size	Part No.	Type
	65	555424	DADG-AK-65
	90	555425	DADG-AK-90
	140	555426	DADG-AK-140
	220	555427	DADG-AK-220

# Rotary indexing tables DHTG

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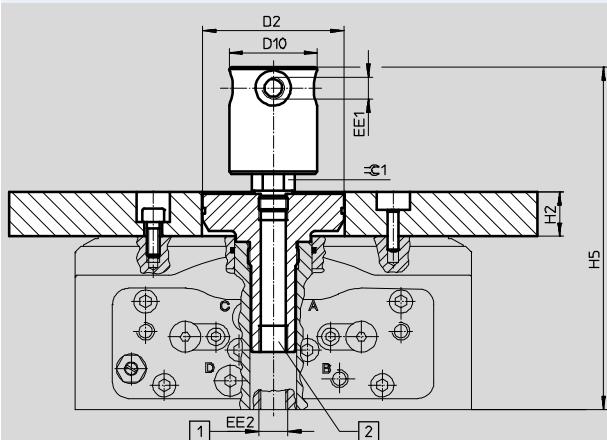
Accessories

**Rotary distributor**  
GF..., single  
GF...-2, multiple



## Dimensions

With rotary distributor GF... (single) and adapter kit DADG-AK...



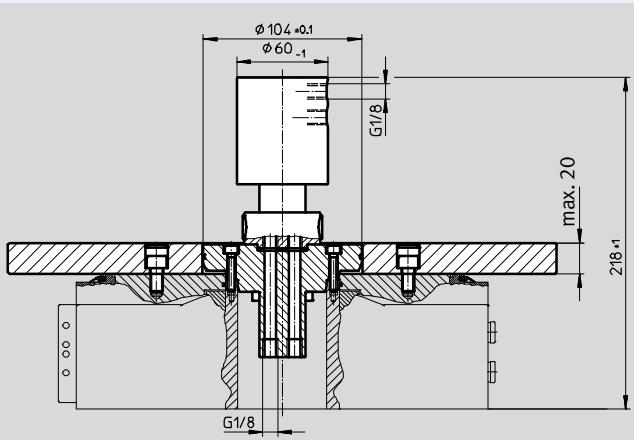
[1] External supply port for DHTG-65/90

[2] Internal supply port for DHTG-140/220

Download CAD data ➔ [www.festo.com](http://www.festo.com)

With rotary distributor GF-1/8-2 (multiple) and adapter kit DADG-AK-220-2G18

– For size 220



Size	D2	D10 ∅ +0.2	EE1	EE2	H2	H5	⊖C 1
DADG-AK-65-1G18 GF-1/8-M5	29	40	M5	G1/8	15	127.5	17
DADG-AK-90-1G18 GF-1/8-M5	39	40	M5	G1/8	15	142.5	17
DADG-AK-140-1G14 GF-1/4-1/8	64	40	G1/8	G1/4	20	155.5	17
DADG-AK-220-1G12 GF-1/2-1/4	104	60	G1/4	G1/2	20	187.5	27

# Rotary indexing tables DHTG

Accessories

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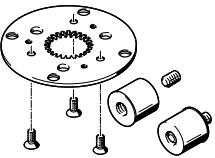
Ordering data – Rotary distributor GF			
	For size	Part No.	Type
	Single		
	65, 90	<b>539290</b>	GF-1/8-M5
	140	<b>539291</b>	GF-1/4-1/8
	220	<b>539292</b>	GF-1/2-1/4
	Multiple		
220	<b>539287</b>	GF-1/8-2	

Ordering data – Adapter kit DADG-AK			
	For size	Part No.	Type
	Single		
	65	<b>555428</b>	DADG-AK-65-1G18
	90	<b>555429</b>	DADG-AK-90-1G18
	140	<b>555430</b>	DADG-AK-140-1G14
	220	<b>555431</b>	DADG-AK-220-1G12
	Multiple		
220	<b>555432</b>	DADG-AK-220-2G18	

# Rotary indexing tables DHTG

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Accessories

Ordering data		For size	Indexing stations	Part No.	Type
<b>Indexing conversion kit DADM-CK</b>					
	65	2 3 4 6 8 12 24	548098 554389 548099 548100 548101 548102 548103	DADM-CK-65-2 DADM-CK-65-3 DADM-CK-65-4 DADM-CK-65-6 DADM-CK-65-8 DADM-CK-65-12 DADM-CK-65-24	
	90	2 3 4 6 8 12 24	548104 555445 548105 548106 548107 548108 548109	DADM-CK-90-2 DADM-CK-90-3 DADM-CK-90-4 DADM-CK-90-6 DADM-CK-90-8 DADM-CK-90-12 DADM-CK-90-24	
	140	3 4 6 8 12 24	555446 548110 548111 548112 548113 548114	DADM-CK-140-3 DADM-CK-140-4 DADM-CK-140-6 DADM-CK-140-8 DADM-CK-140-12 DADM-CK-140-24	
	220	3 4 6 8 12 24	555447 548115 548116 548117 548118 548119	DADM-CK-220-3 DADM-CK-220-4 DADM-CK-220-6 DADM-CK-220-8 DADM-CK-220-12 DADM-CK-220-24	

<b>Reciprocating motion kit DADM-TK</b>					
	65	90	140	220	Part No.
	-				548120 DADM-TK-65
					548121 DADM-TK-90
					563304 DADM-TK-140
					563305 DADM-TK-220

<b>Ordering data – Proximity sensors, inductive</b>					Technical data → Internet: sien
	For size	Contact	Connection	Part No.	Type
	65, 90	N/O contact	Plug	150371	SIEN-M5B-PS-S-L
		N/C contact	Plug	150375	SIEN-M5B-PO-S-L
	140, 220	N/O contact	Cable	150386	SIEN-M8B-PS-K-L
			Plug	150387	SIEN-M8B-PS-S-L
		N/C contact	Cable	150390	SIEN-M8B-PO-K-L
			Plug	150391	SIEN-M8B-PO-S-L

<b>Ordering data – Connecting cables</b>					Technical data → Internet: nebu
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Type
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541333	NEBU-M8G3-K-2.5-LE3
			5	541334	NEBU-M8G3-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541338	NEBU-M8W3-K-2.5-LE3
			5	541341	NEBU-M8W3-K-5-LE3

## Product Range and Company Overview

### A Complete Suite and Company Overview

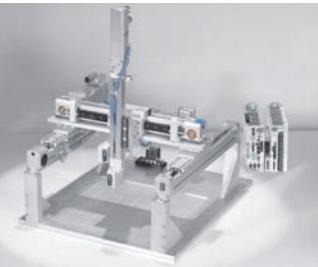
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Complete custom engineered solutions



**Custom Control Cabinets**  
Comprehensive engineering support and on-site services



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**PLCs and I/O Devices**  
PLC's, operator interfaces, sensors and I/O devices

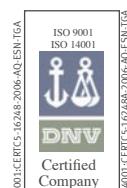
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Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 16,000 employees in 60 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

### Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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