Rotary indexing table DHTG

FESTO

Characteristics

At a glance Link dhtg

- Sturdy mechanical system
- Easy project planning and commissioning
- Indexing: 2, 3, 4, 6, 8, 12, 24

Integrated functions:
- Overload protection
- Sensor function
- Cushioning adjustment
- Speed setting
- Changing the direction of rotation

Modes of operation:
- Clockwise
- Anticlockwise
- Reciprocating motion
- Flexible control (anticlockwise, clockwise, reciprocating motion)

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 high, the locking 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 back can be made ready for use again by turning it back.

This product is not designed for the following application examples:
- Machining
- Aggressive media
- Grinding dust
- Welding spatter

Diagrams Link dhtg

The diagrams shown in this document are also available online. These can be used to display precise values.

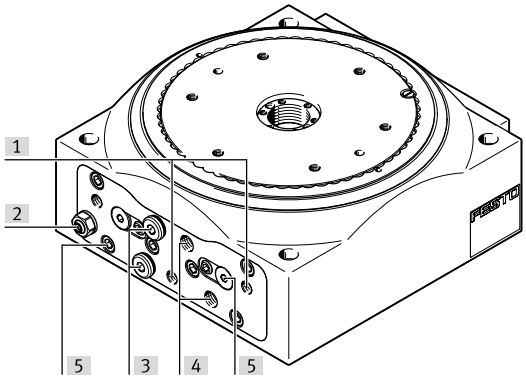
Position sensing

[A]	For proximity sensor

By using proximity switches, any position can be detected.

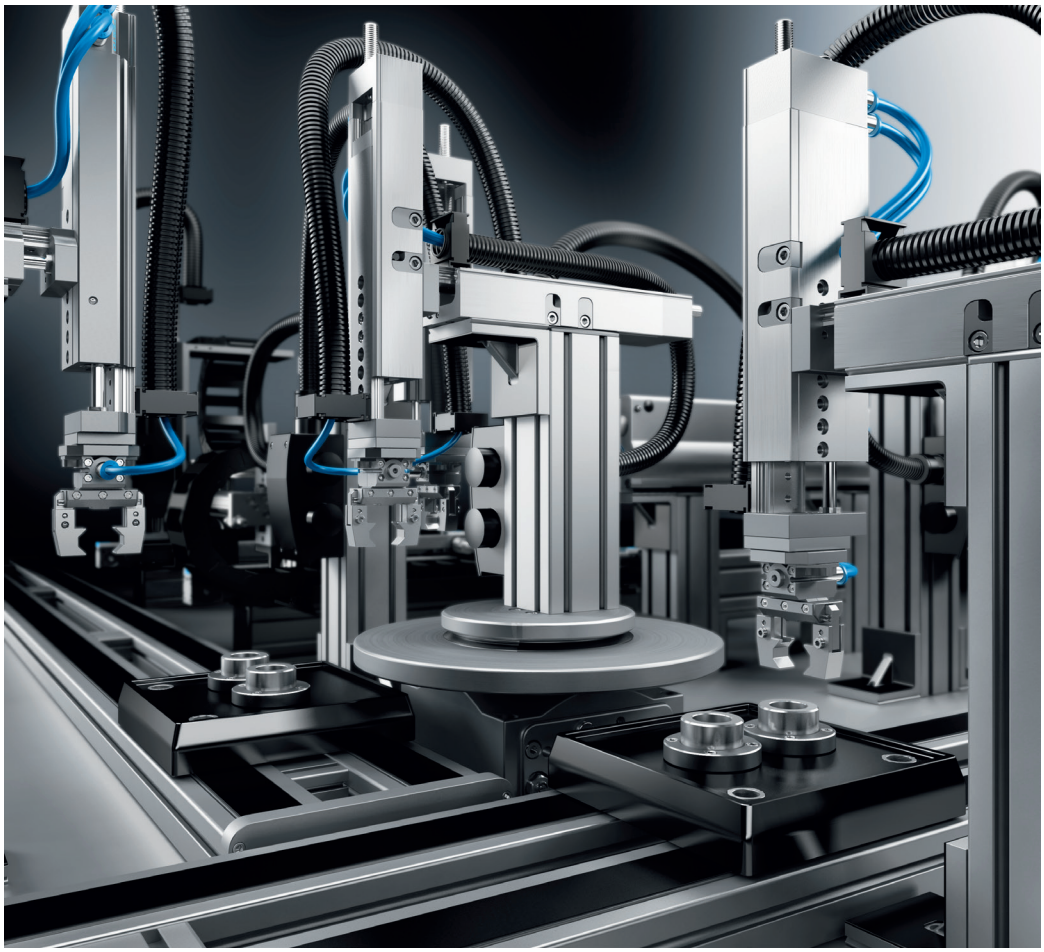
Characteristics

Overview



[1] Thread for position sensing
[2] One-way flow control valve for regulating speed
[3] Compressed air connection for reciprocating motion
[4] Compressed air connection for clockwise or anticlockwise rotation
[5] Adjusting screw for cushioning setting

Application example



Rotating plate and fixed plate: for mounting handling units or other devices in the centre of the rotary indexing table

Type code

001	Series	
DHTG	Rotary indexing table	

002	Size	
65	65	
90	90	
140	140	
220	220	

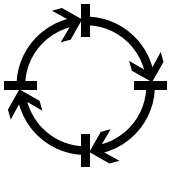
003	Indexing	
2	2 indexing stations	
3	3 indexing stations	
4	4 indexing stations	
6	6 indexing stations	
8	8 indexing stations	
12	12 indexing stations	
24	24 indexing stations	

004	Position sensing	
A	For proximity sensor	

005	Cycle direction	
	Clockwise rotation	
L	Anticlockwise rotation	

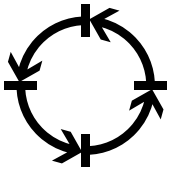
Datasheet

Operating mode: clockwise rotation



- Only one valve required

Operating mode: anticlockwise rotation

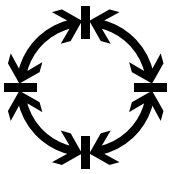


- Only one valve required

Operating mode: reciprocating motion

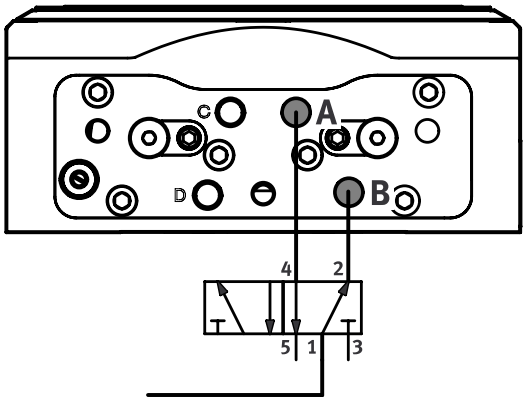
- After conversion with a reciprocating motion kit
- Two valves required

Operating mode: flexible control (clockwise/anticlockwise/reciprocating motion)



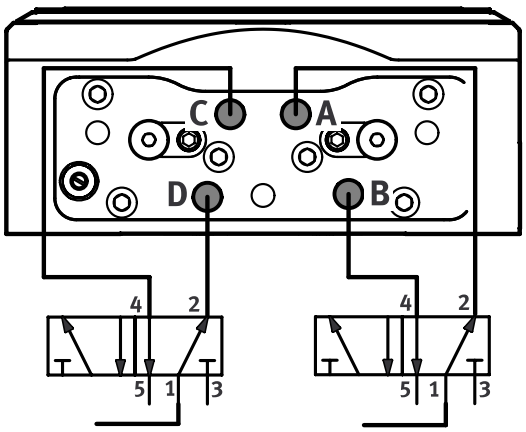
- After conversion with a reciprocating motion kit
- Two valves required

Example of simple interface: clockwise/anticlockwise rotation



Datasheet

Example of simple interface: reciprocating motion/flexible control



General technical data

Size [1]	65	90	140	220
Pneumatic connection	Female thread M5		Female thread G1/8	
Mode of operation	Double-acting			
Design	Gear coupling Rack and pinion Force pilot operated motion sequence			
Type of mounting	Via through-hole and centring sleeve			
Mounting position	optional			
Cushioning	Shock absorber, hard characteristic curve, adjustable			
Pitch	2, 3, 4, 6, 8, 12, 24		3, 4, 6, 8, 12, 24	
Theoretical torque at 0.6 MPa (6 bar, 87 psi)	2.1 Nm	4.4 Nm	18.1 Nm	58.9 Nm
Parallelity poppet valve [2]	≤0.04 mm			
Axial eccentricity poppet valve [3]	≤0.02 mm			
Concentricity poppet valve [4]	≤0.02 mm			
Repetition accuracy of swivel angle	≤0.03 deg			
Mass moment of inertia [5]	160 kgcm²	300 kgcm²	3,000 kgcm²	25,000 kgcm²
Position detection	Via inductive sensors			
Product weight	1,900 g	4,500 g	10,000 g	24,000 g

1) Note: The „clockwise“ rotation of the plate can be controlled via an internal flow control valve in combination with the reciprocating motion kit. The „anticlockwise“ rotation of the plate has to be controlled externally via an additional one-way flow control valve GRLA.

2) Parallelism of the plate surface in relation to the housing support

3) Measured on the surface and at the edge of the plate in relation to the housing support

4) Measured on the inner diameter of the plate in relation to the housing

5) 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 indexing stations and the switching frequency.

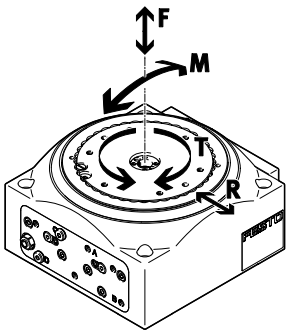
Datasheet

Operating and environmental conditions

Size	65	90	140	220
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]			
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)			
Operating pressure	0.3 ... 0.8 MPa			
Operating pressure	3 ... 8 bar			
Operating pressure	43.5 ... 116 psi			
Ambient temperature	5 ... 60°C			
Storage temperature	-20 ... 80°C			
Degree of protection [1]	IP54			
Sound pressure level	≤70 dB(A)			
Corrosion resistance class CRC [2]	2 - Moderate corrosion stress			

1) The specified degree of protection applies to the top of the rotary indexing table. The underside must be provided with appropriate external protection for the environment.
2) More information www.festo.com/x/topic/kbk

Load values



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

F = Axial force
R = Radial force
M = Tilting moment
T = Tangential torque

Size	65	90	140	220
Max. axial force static	1,000 N	2,000 N	4,000 N	5,000 N
Max. radial force static	2,000 N	5,000 N	6,000 N	8,000 N
Max. pull-out torque static	100 Nm	150 Nm	300 Nm	500 Nm
Max. tangential torque static	100 Nm	150 Nm	200 Nm	500 Nm

Materials

Size	65	90	140	220
Material cover	Wrought aluminium alloy			
Material housing	Wrought aluminium alloy			
Material poppet valve	Galvanised steel			
Material stops	Galvanised steel			
Material seals	NBR TPE-U(PU)			
Note on materials	RoHS-compliant			
LABS (PWIS) conformity	VDMA24364-B2-L			

Calculating 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 is made up of: switching time = unlocking, turning, locking and return stroke of the working piston.
The cycle time is calculated as follows: cycle time = switching time + processing time + dwell time.

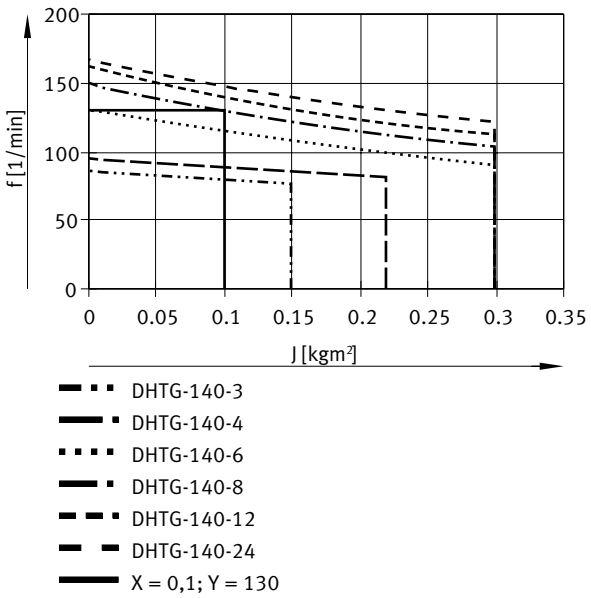
The maximum achievable switching frequency as a function of the mass moment of inertia is shown in the switching frequency diagram. The switching time can be calculated from this using T = 60/f. The processing time is calculated based on the time required for the customer application (e.g. time for component removal, press-in time, etc.). A dwell time may be necessary if the cycle time is shorter than the minimum possible cycle time.

Datasheet

Calculation of the cycle time, calculation example

DHTG-140 with 8 indexing stations and a mass moment of inertia of 0.1kgm2.
The customer application requires 300 ms per step for inserting and removing parts.

Calculating the cycle time, calculation example – switching frequency

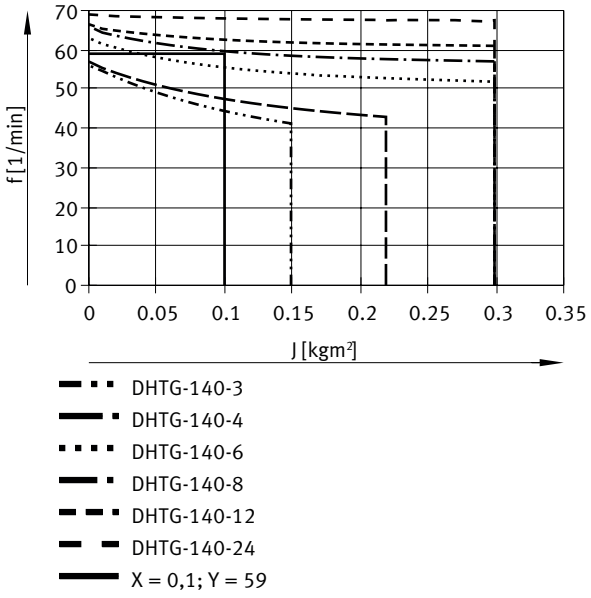


TSwitching time = 1/f = 60 s / 130 = 0.461 s = 461 ms

Dwell time = min. permissible cycle time – switching time – processing time
Dwell time= 1017 ms - 461 ms - 300 ms = 256 ms

As the switching time + processing time is shorter than the min. permissible cycle time, the rotary indexing table must also dwell in the end position before the next cycle is executed. This means that an additional dwell time of 256 ms between switching operations must be allowed for in the control sequence.

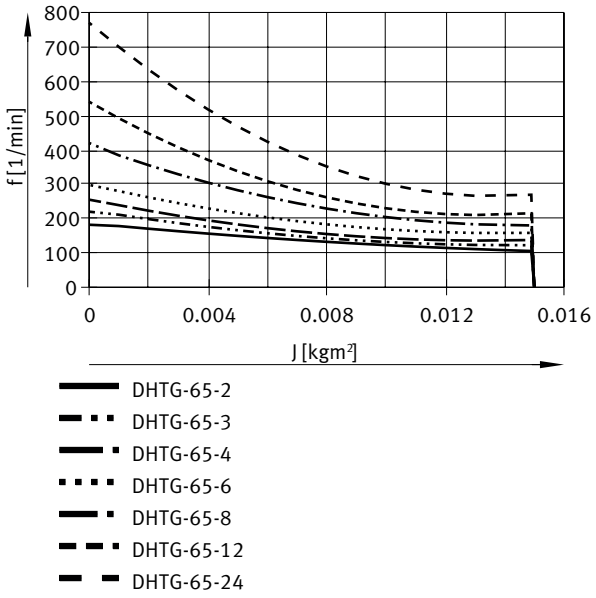
Calculating the cycle time, calculation example – max. permissible cycle frequency



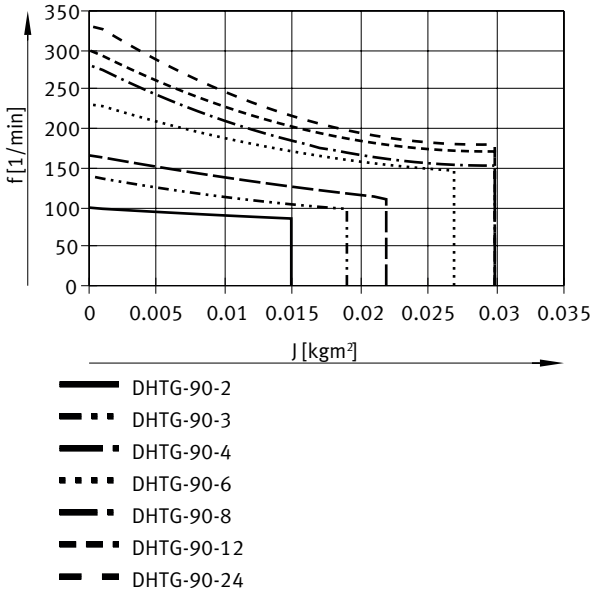
Tmin. permissible cycle time = 60 s / 59 = 1.017 s = 1017 ms

Datasheet

Mass moment of inertia J as a function of switching frequency f and number of indexing stations – DHTG-65

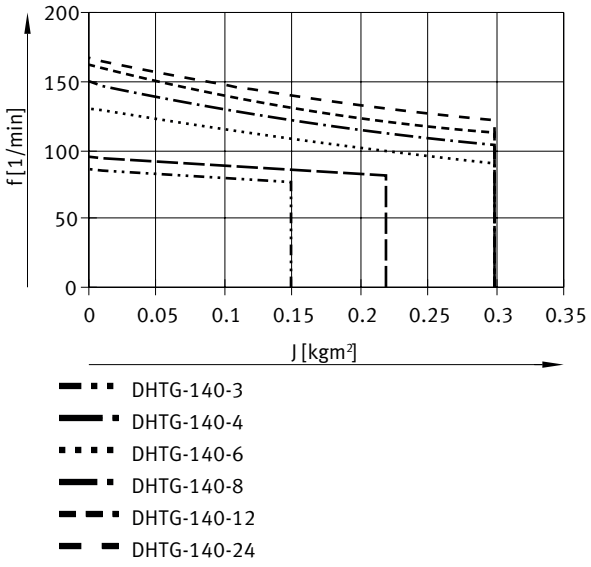


Mass moment of inertia J as a function of switching frequency f and number of indexing stations – DHTG-90

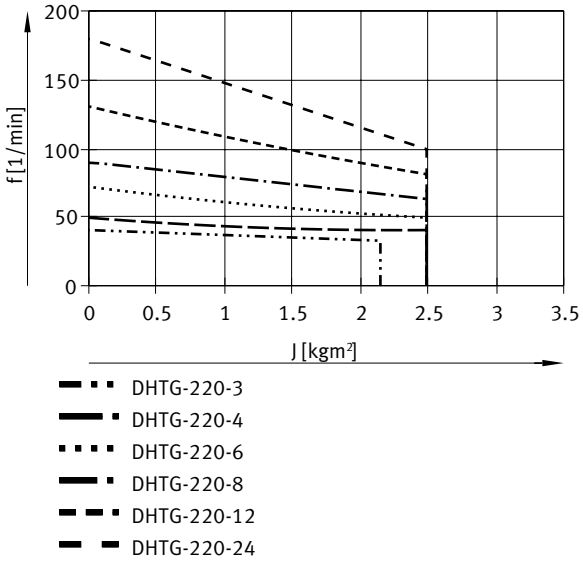


Datasheet

Mass moment of inertia J as a function of switching frequency f and number of indexing stations – DHTG-140

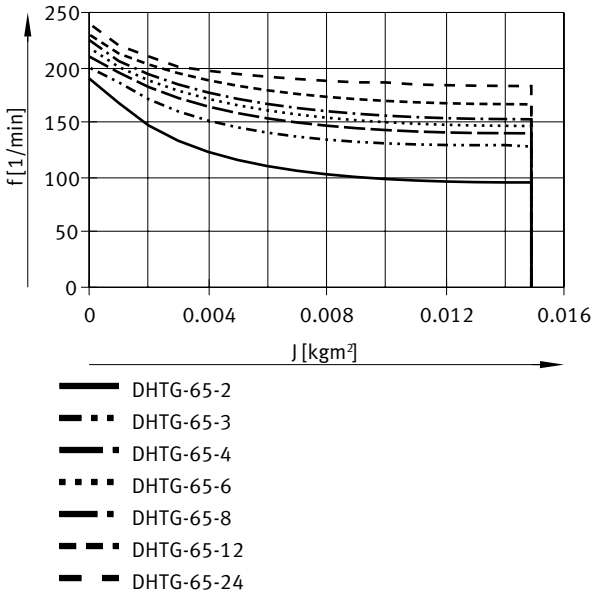


Mass moment of inertia J as a function of switching frequency f and number of indexing stations – DHTG-220

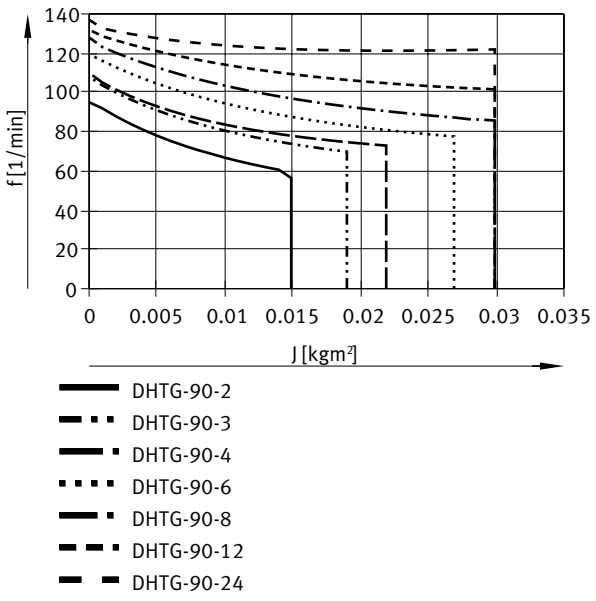


Datasheet

Max. permissible cycle frequency f as a function of mass moment of inertia J – DHGT-65

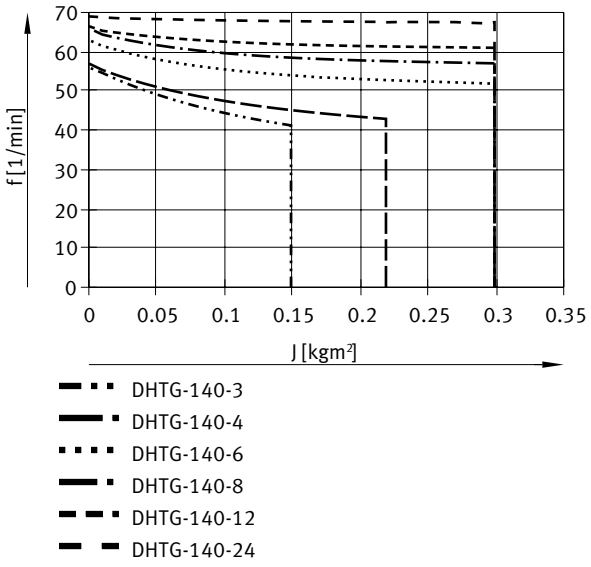


Max. permissible cycle frequency f as a function of mass moment of inertia J – DHTG-90

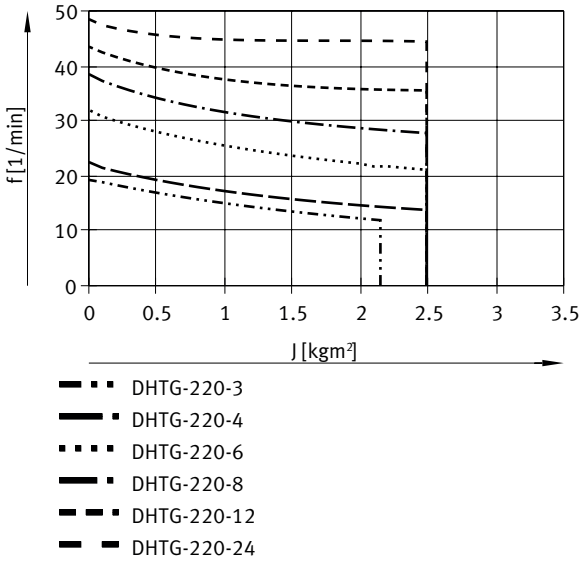


Datasheet

Max. permissible cycle frequency f as a function of mass moment of inertia J – DHTG-140

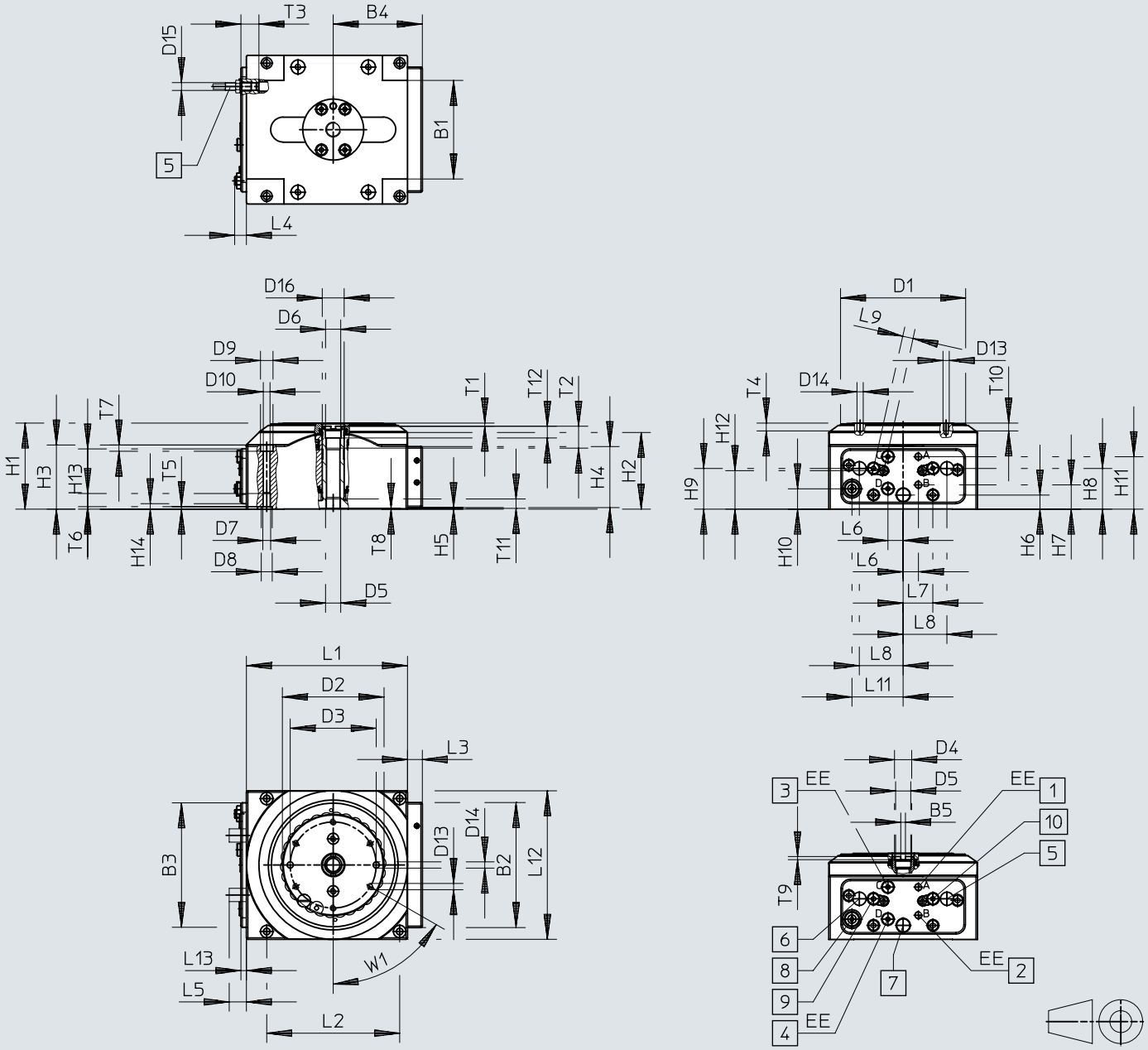


Max. permissible cycle frequency f as a function of mass moment of inertia J – DHTG-220



Dimensions

Dimensions – Rotary indexing table DHTG-65 Download CAD data www.festo.com



[1] Compressed air connection: unlock and turn (reciprocating motion: unlock)
[2] Compressed air connection: lock and return stroke (reciprocating motion: lock)
[3] Sealing plug (for reciprocating motion: rotate compressed air connection clockwise)
[4] Sealing plug (for reciprocating motion: rotate compressed air connection anticlockwise)
[5] Sensor turned for clockwise rotation (initial sensing position for anticlockwise rotation)
[6] Sensor for clockwise rotation initial position (sensor turned for anticlockwise rotation)
[7] Lock sensing
[8] One-way flow control valve
[9] Adjustment of end-position cushioning for anticlockwise rotation and reciprocating motion (not applicable for clockwise rotation)
[10] Adjustment of end-position cushioning for clockwise rotation and reciprocating motion (not applicable for anticlockwise rotation)

Dimensions

	B1[3] ±2	B2	B3	B4	B5 +0,1	D1 Ø	D2 Ø	D3[1] Ø	D4 Ø	D5	D6 Ø H8	D7	D8 Ø H8	D9 Ø	D10 Ø
DHTG-65	63	80	79,5	47,5	3	80	65	55	11	G1/8	10	M5	7	8	4,3

	D13	D14 Ø H8	D15	D16 Ø H8	EE	H1 ±0,5	H2	H3	H4	H5	H6	H7	H8	H9	H10
DHTG-65	M4	4	M5x0,5	14	M5	55	49	41	39	1	9	15,5	26	26	13

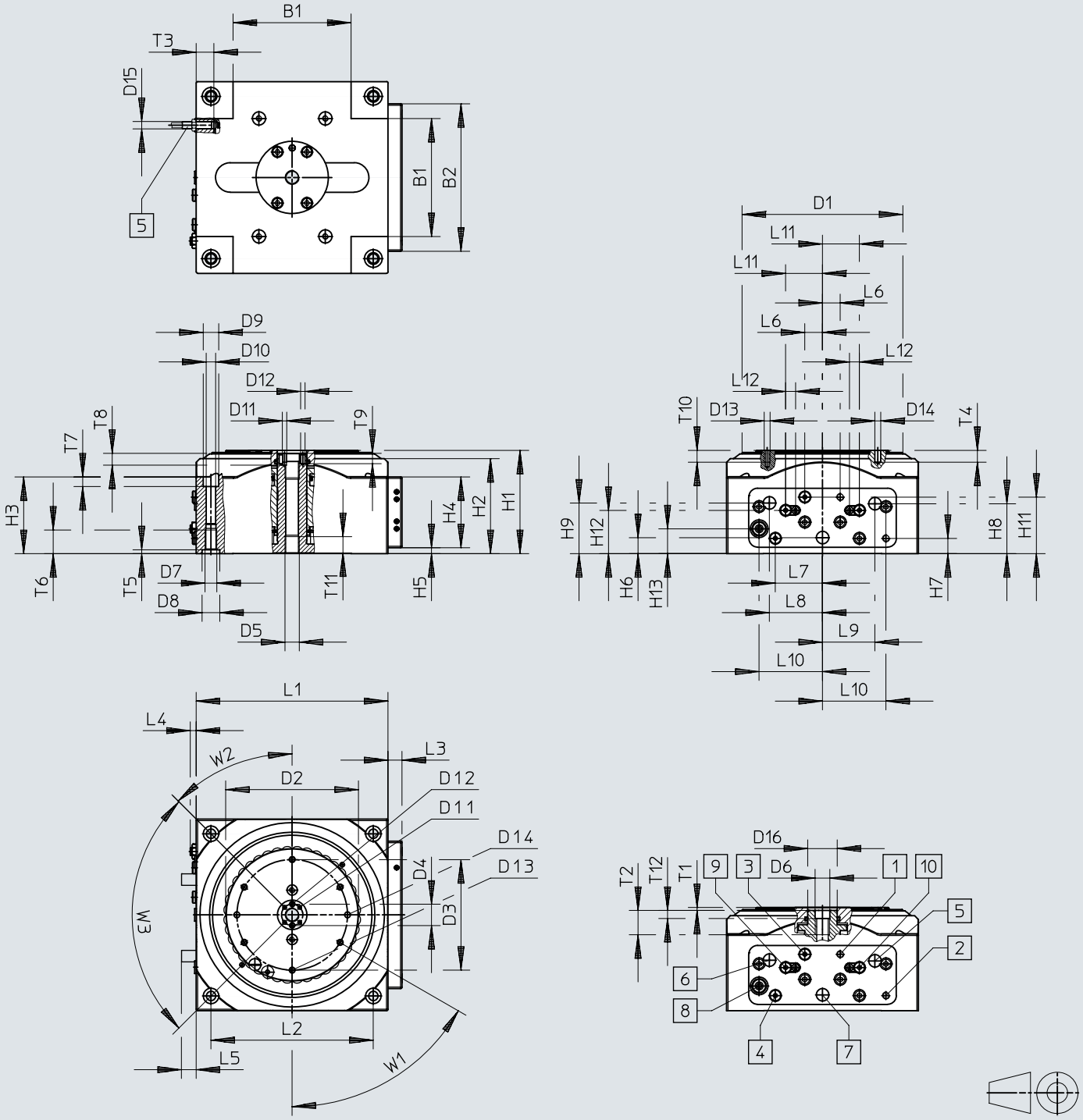
	H11	H12	H13	H14	L1 ±0,1	L2[1] ™	L3	L4 +1	L5[2] max	L6	L7	L8	L9	L11	L12 ±0,1
DHTG-65	33,5	24,5	38,5	3,5	103	85	9,5	7,5	11	9,75	19	28	6,75	32,75	95

	L13 +0,1	T1 ±1	T2 min	T3 min	T4 min	T5 +0,1	T6 min	T7	T8	T9	T10 min	T11 min	T12	W1
DHTG-65	3,5	2	14	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

Dimensions

Dimensions – Rotary indexing table DHTG-90 Download CAD data www.festo.com



[1] Compressed air connection: unlock and turn (reciprocating motion: unlock)
[2] Compressed air connection: lock and return stroke (reciprocating motion: lock)
[3] Sealing plug (for reciprocating motion: rotate compressed air connection clockwise)
[4] Sealing plug (for reciprocating motion: rotate compressed air connection anticlockwise)
[5] Sensor turned for clockwise rotation (initial sensing position for anticlockwise rotation)
[6] Sensor for clockwise rotation initial position (sensor turned for anticlockwise rotation)
[7] Lock sensing
[8] One-way flow control valve
[9] Adjustment of end-position cushioning for anticlockwise rotation and reciprocating motion (not applicable for clockwise rotation)
[10] Adjustment of end-position cushioning for clockwise rotation and reciprocating motion (not applicable for anticlockwise rotation)

Dimensions

	B1[3] ±2	B2	D1 Ø	D2 Ø	D3[1] Ø	D4[1] Ø	D5	D6 Ø	D7	D8 Ø H8	D9 Ø	D10 Ø	D11	D12 Ø H8	D13
DHTG-90	80	100	109	90	75	14,5	G1/8	10	M8	12	10,5	6,4	M3	3	M4

	D14 Ø H8	D15	D16 Ø H8	EE	H1 ±0,5	H2	H3	H4	H5	H6	H7	H8	H9	H11
DHTG-90	4	M5x0,5	20	M5	70	64,4	52	48	4	10,75	10,25	33,75	34,25	38,25

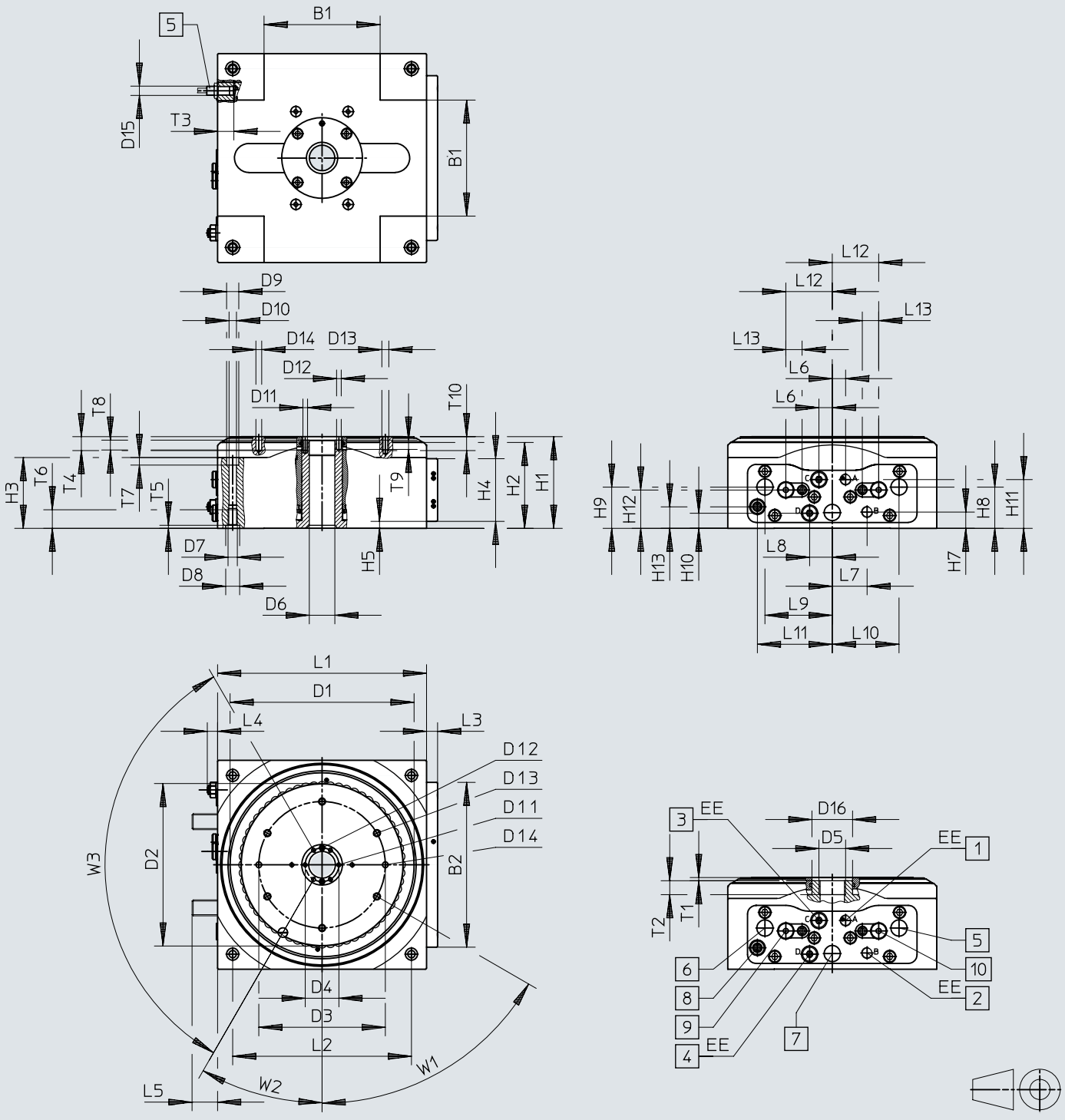
	H12	H13	L1 ™ ±0,1	L2[1] ™	L3	L4	L5[2] max	L6	L7	L8	L9	L10	L11	L12
DHTG-90	29,25	16,75	130	110	9,5	4	10	12	32	36	35,5	43	25	6,7

	T1 ±1	T2 min	T3	T4 min	T5 +0,1	T6 min	T7	T8	T9 min	T10 min	T11 min	T12	W1	W2	W3
DHTG-90	2	16,5	12	8	2,6	16	6,5	6	5	8	11	5,5	60°	45°	90°

1) Tolerance for centring hole ±0.02 mm Tolerance for thread ±0.1 mm
2) Max. projection of shock absorber adjustment
3) 0.1 +0.05 recessed

Dimensions

Dimensions – Rotary indexing table DHTG-140/-220 Download CAD data www.festo.com



[1] Compressed air connection: unlock and turn (reciprocating motion: unlock)
[2] Compressed air connection: lock and return stroke (reciprocating motion: lock)
[3] Sealing plug (for reciprocating motion: rotate compressed air connection clockwise)
[4] Sealing plug (for reciprocating motion: rotate compressed air connection anticlockwise)
[5] Sensor turned for clockwise rotation (initial sensing position for anticlockwise rotation)
[6] Sensor for clockwise rotation initial position (sensor turned for anticlockwise rotation)
[7] Lock sensing
[8] One-way flow control valve
[9] Adjustment of end-position cushioning for anticlockwise rotation and reciprocating motion (not applicable for clockwise rotation)
[10] Adjustment of end-position cushioning for clockwise rotation and reciprocating motion (not applicable for anticlockwise rotation)

Dimensions

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

	D13	D14 ø H8	D15	D16 ø H8	EE	H1 ±0,5	H2	H3	H4	H5	H6	H7	H8	H9
DHTG-140	M6	5	M8x1	35	G1/8	79	74	61	54	6	13,5	14	35,5	35,5
DHTG-220	M8	6	M8x1	75	G1/8	89	83,5	68,5	64	4,5	13,5	24,5	15	15

	H10	H11	H12	H13	L1 ™ ±0,1	L2[1] ™	L3	L4 +1	L5[2] max	L6	L7	L8	L9	L10	L11
DHTG-140	13	42	33	18,5	180	154	9,5	8,9	22	11,5	30	19,5	58	57,5	64,5
DHTG-220	24,5	50,5	36,5	24	270	228	12	4,6	22	41	41	41	61	61	99,5

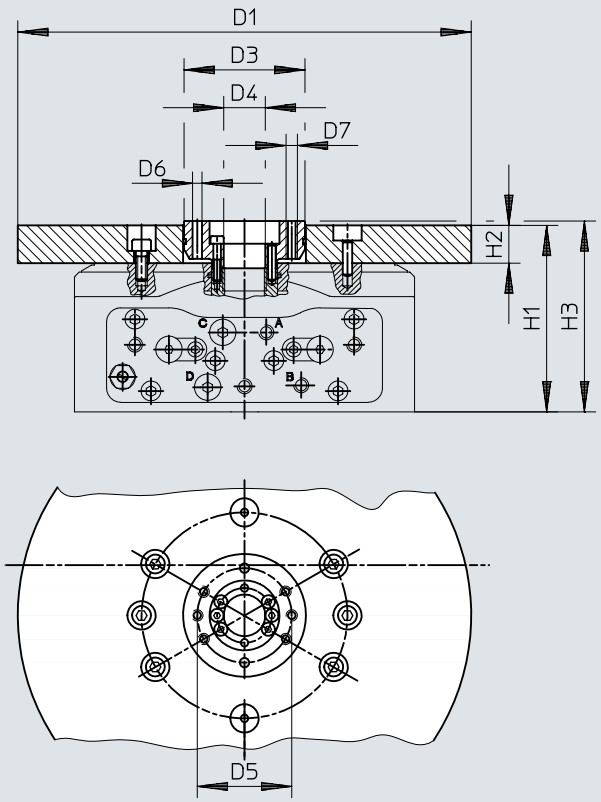
	L12	L13	T1 ±1	T2 min	T3 min	T4 min	T5 +0,1	T6 min	T7	T8 min	T9 min	T10 min	W1	W2	W3
DHTG-140	40	14	3	12	14	8	2,6	16	6,5	8	8	11	60°	30°	120°
DHTG-220	68	14	4	–	19	8	3,1	20	8,5	10	10	11	60°	30°	120°

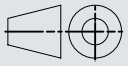
1) Tolerance between the centring holes: ±0.02 / Tolerance between the threaded holes and countersinks: ±0.2
2) Max. projection of shock absorber adjustment
3) 0.1 +0.05 recessed

Dimensions

Dimensions – Adapter kit DADG-AK – with rotating plate and adapter kit DADG-AK for mounting a fixed plate

Download CAD data www.festo.com



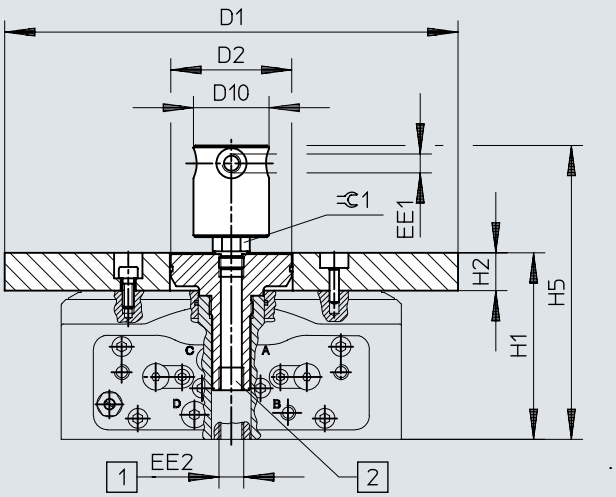


	D3 ø +0,2	D4 ø +0,2	D5 ø	D6 ø H7	D7	H2 max.	H3 ±0,5
DADG-AK-65	29	5	20	4	M4	15	72
DADG-AK-90	39	9	30	4	M4	15	87
DADG-AK-140	64	22	50	5	M6	20	101
DADG-AK-220	104	58,4	90	6	M8	20	111

Dimensions

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

Download CAD data www.festo.com



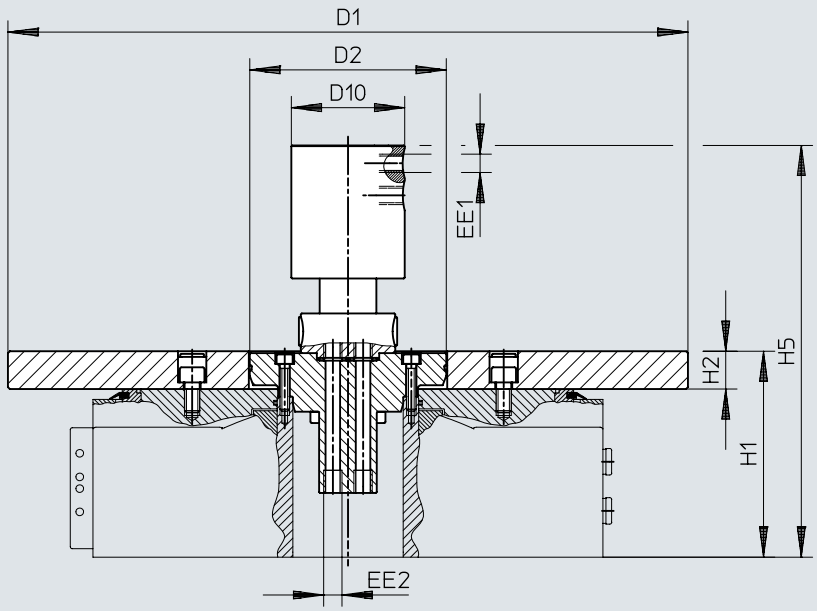
[1] With DHTG-65/90 the compressed air connection is external
[2] With DHTG-140/220 internal compressed air connection

	D2	D10 ⌀ +0,2	EE1	EE2	H2 max.	H5 ±1	⌀ 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

Dimensions

Dimensions – Rotary distributor GF-1/8-2 (multiple) and adapter kit DADG-AK-220-2G18

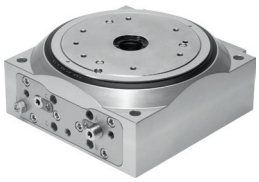
Download CAD data www.festo.com



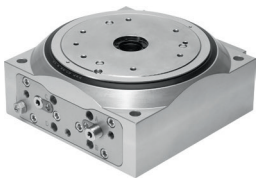
	D2	D10 ø +0,2	EE1	EE2	H2 max.	H5 ±1	⊂ 1
DADG-AK-220-2G18 GF-1/8-2	104	60	G1/4	G1/2	20	187,5	27

Ordering data

DHTG-... - clockwise

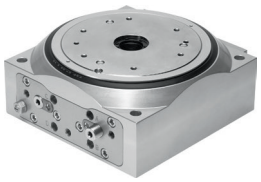
	Size	Pitch	Pneumatic connection	Product weight	Part no.	Type
	65	2	Female thread M5	1,900 g	548076	DHTG-65-2-A
		3			555448	DHTG-65-3-A
		4			548077	DHTG-65-4-A
		6			548078	DHTG-65-6-A
		8			548079	DHTG-65-8-A
		12			548080	DHTG-65-12-A
		24			548081	DHTG-65-24-A
	90	2		4,500 g	548082	DHTG-90-2-A
		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	Female thread G1/8	10,000 g	555450	DHTG-140-3-A
		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		24,000 g	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

DHTG-...-L - anticlockwise rotation

	Size	Pitch	Pneumatic connection	Product weight	Part no.	Type
	65	2	Female thread M5	1,900 g	8213364	DHTG-65-2-A-L
		3			8213365	DHTG-65-3-A-L
		4			8213366	DHTG-65-4-A-L
		6			8213367	DHTG-65-6-A-L
		8			8213368	DHTG-65-8-A-L
		12			8213369	DHTG-65-12-A-L
		24			8213370	DHTG-65-24-A-L
	90	2		4,500 g	8213371	DHTG-90-2-A-L
		3			8213372	DHTG-90-3-A-L
		4			8213373	DHTG-90-4-A-L
		6			8213374	DHTG-90-6-A-L
		8			8213375	DHTG-90-8-A-L
		12			8213376	DHTG-90-12-A-L
		24			8213377	DHTG-90-24-A-L
	140	3	Female thread G1/8	10,000 g	8213378	DHTG-140-3-A-L
		4			8213379	DHTG-140-4-A-L
		6			8213380	DHTG-140-6-A-L
		8			8213381	DHTG-140-8-A-L
		12			8213382	DHTG-140-12-A-L
		24			8213383	DHTG-140-24-A-L
	220	3		24,000 g	8213384	DHTG-220-3-A-L
		4			8213385	DHTG-220-4-A-L
		6			8213386	DHTG-220-6-A-L

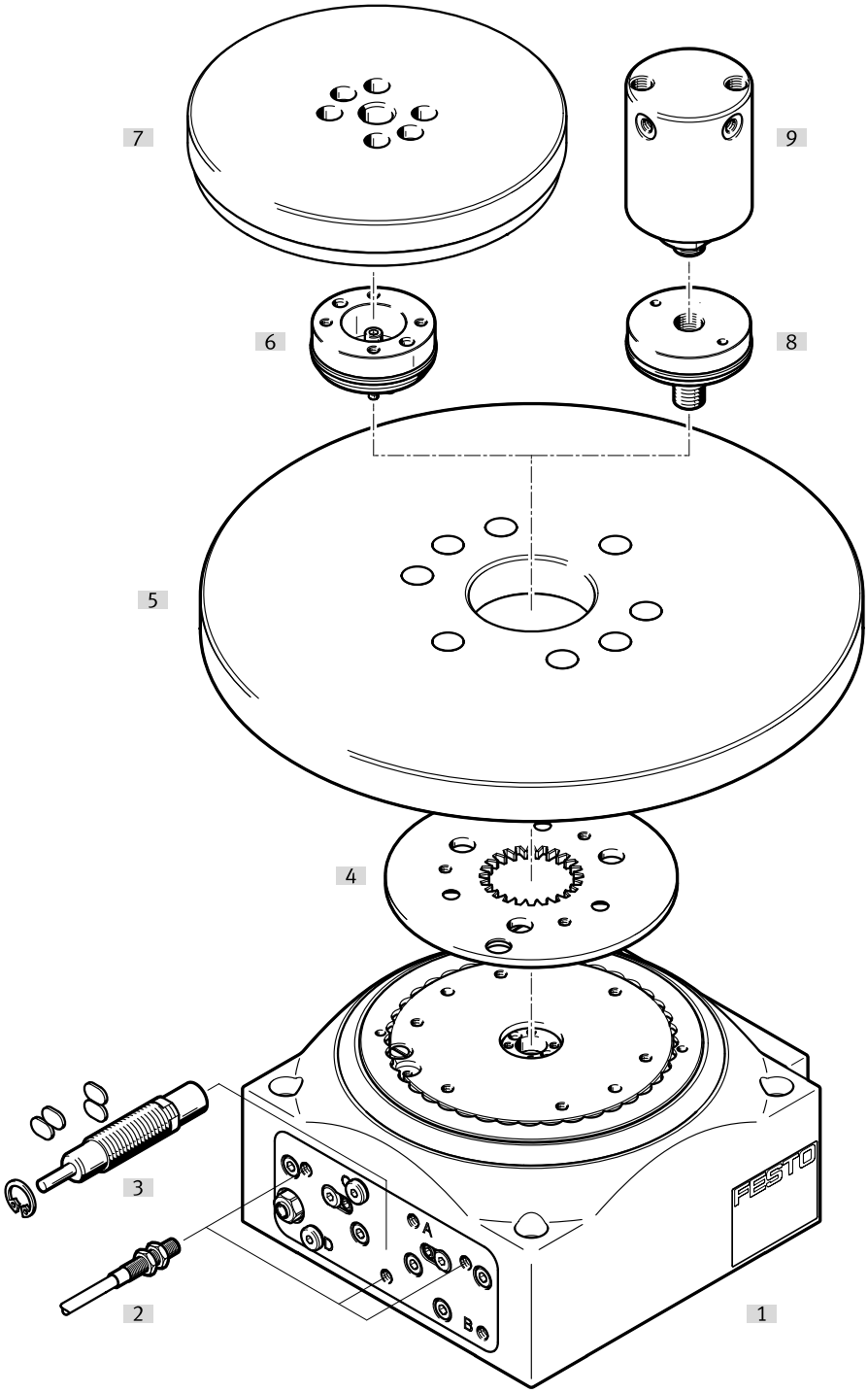
Ordering data

DHTG-...-L - anticlockwise rotation

	Size	Pitch	Pneumatic connection	Product weight	Part no.	Type
	220	8	Female thread G1/8	24,000 g	**8213387**	**DHTG-220-8-A-L**
		12			**8213388**	**DHTG-220-12-A-L**
		24			**8213389**	**DHTG-220-24-A-L**

Peripherals

Peripherals overview



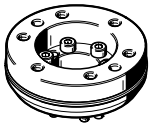
Accessories			→ Link
	Type/order code	Description	
[1]	Rotary indexing table DHTG	Flexible application range: anticlockwise rotation, clockwise rotation or reciprocating motion	dhtg
[2]	Proximity switch SIEN	For sensing the switching position of the rotary indexing table	27
[3]	Reciprocating motion kit DADM-TK	Allows conversion from movement in one direction to reciprocating movement	27
[4]	Indexing conversion kit DADM-CK	The step angle can be adjusted at any time using the kit	27
[5]	Plate, rotating	Sample image (plate not available from Festo)	dhtg
[6]	Adapter kit DADG-AK	For mounting a blank plate on the rotary indexing table	26
[7]	Plate, solid	Sample image (plates not available from Festo)	dhtg
[8]	Adapter kit DADG-AK-...-...G...	For mounting the rotary distributor on the rotary indexing table	26

Peripherals

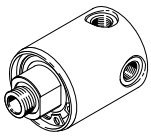
Accessories			→ Link
	Type/order code	Description	
[9]	Rotary distributor GF	Distributes the compressed air fed through the centre of the rotary indexing table to the actuators on the rotating blank plate. Cannot be used in connection with a fixed blank plate.	26

Accessories

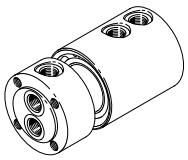
Adapter kit DADG-AK

	Description	Material screws	Product weight	Part no.	Type
	For size 65	Steel, Galvanised	35 g	**555424**	**DADG-AK-65**
	For size 90		110 g	**555425**	**DADG-AK-90**
	For size 140		375 g	**555426**	**DADG-AK-140**
	For size 220		730 g	**555427**	**DADG-AK-220**

Rotary distributor GF-..., single

	Description	Material housing	Product weight	Part no.	Type
	For size 65, 90	Brass, nickel-plated	400 g	**539290**	**GF-1/8-M5**
	For size 140		370 g	**539291**	**GF-1/4-1/8**
	For size 220		1,190 g	**539292**	**GF-1/2-1/4**

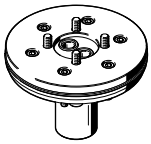
Rotary distributor GF-..., multiple

	Description	Material housing	Product weight	Part no.	Type
	For size 220	Brass, nickel-plated	1,770 g	**539287**	**GF-1/8-2**

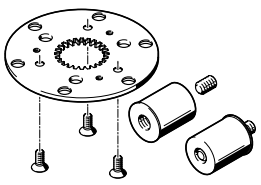
Adapter kit DADG-AK-...-1G..., single

	Description	Material plate	Product weight	Part no.	Type
	For size 65	Wrought aluminium alloy	25 g	**555428**	**DADG-AK-65-1G18**
	For size 90		45 g	**555429**	**DADG-AK-90-1G18**
	For size 140		190 g	**555430**	**DADG-AK-140-1G14**
	For size 220		630 g	**555431**	**DADG-AK-220-1G12**

Adapter kit DADG-AK-...-2G..., multiple

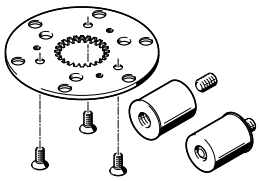
	Description	Material plate	Product weight	Part no.	Type
	For size 220	Wrought aluminium alloy	635 g	**555432**	**DADG-AK-220-2G18**

Indexing conversion kit DADM-CK

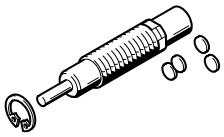
	Description	Indexing	Material plate	Part no.	Type
	For size 65	2 indexing stations	Steel	**548098**	**DADM-CK-65-2**

Accessories

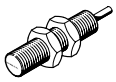
Indexing conversion kit DADM-CK

	Description	Indexing	Material plate	Part no.	Type
	For size 65	3 indexing stations	Steel	**554389**	**DADM-CK-65-3**
		4 indexing stations		**548099**	**DADM-CK-65-4**
		6 indexing stations		**548100**	**DADM-CK-65-6**
		8 indexing stations		**548101**	**DADM-CK-65-8**
		12 indexing stations		**548102**	**DADM-CK-65-12**
		24 indexing stations		**548103**	**DADM-CK-65-24**
	For size 90	2 indexing stations		**548104**	**DADM-CK-90-2**
		3 indexing stations		**555445**	**DADM-CK-90-3**
		4 indexing stations		**548105**	**DADM-CK-90-4**
		6 indexing stations		**548106**	**DADM-CK-90-6**
		8 indexing stations		**548107**	**DADM-CK-90-8**
		12 indexing stations		**548108**	**DADM-CK-90-12**
		24 indexing stations		**548109**	**DADM-CK-90-24**
	For size 140	3 indexing stations		**555446**	**DADM-CK-140-3**
		4 indexing stations		**548110**	**DADM-CK-140-4**
		6 indexing stations		**548111**	**DADM-CK-140-6**
		8 indexing stations		**548112**	**DADM-CK-140-8**
		12 indexing stations		**548113**	**DADM-CK-140-12**
		24 indexing stations		**548114**	**DADM-CK-140-24**
	For size 220	3 indexing stations		**555447**	**DADM-CK-220-3**
		4 indexing stations		**548115**	**DADM-CK-220-4**
		6 indexing stations		**548116**	**DADM-CK-220-6**
		8 indexing stations		**548117**	**DADM-CK-220-8**
		12 indexing stations		**548118**	**DADM-CK-220-12**
		24 indexing stations		**548119**	**DADM-CK-220-24**

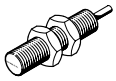
Reciprocating motion kit DADM-TK

	Description	Material screws	Part no.	Type
	For size 65	Steel	**548120**	**DADM-TK-65**
	For size 90		**548121**	**DADM-TK-90**
	For size 140		**563304**	**DADM-TK-140**
	For size 220		**563305**	**DADM-TK-220**

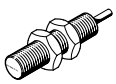
Proximity switch SIEN, inductive, without cable – for size 65 ... 90 Link sien

	Type of mounting	Switching output	Electrical connection	Part no.	Type
	Via lock nut	PNP	Plug M8, A-coded	**150375**	**SIEN-M5B-PO-S-L**
				150371	**SIEN-M5B-PS-S-L**

Proximity switch SIEN, inductive, without cable – for size 140 ... 220 Link sien

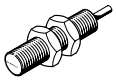
	Type of mounting	Switching output	Electrical connection	Part no.	Type
	Via lock nut	PNP	Plug M8, A-coded	**150391**	**SIEN-M8B-PO-S-L**
				150387	**SIEN-M8B-PS-S-L**

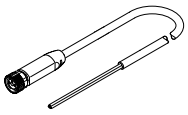
Proximity switch SIEN, inductive, with cable – for size 140 ... 220 Link sien

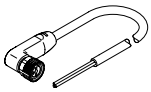
	Type of mounting	Switching output	Electrical connection	Cable length	Part no.	Type
	Via lock nut	PNP	Open end	2.5 m	**150386**	**SIEN-M8B-PS-K-L**

Accessories

Proximity switch SIEN, inductive, with cable – for size 140 ... 220 Link sien

	Type of mounting	Switching output	Electrical connection	Cable length	Part no.	Type
	Via lock nut	PNP	Open end	2.5 m	**150390**	**SIEN-M8B-PO-K-L**

	Electrical connection 1, connector system	Electrical connection 2, connector system	Electrical connection 2, number of connections/ cores	Cable length	Part no.	Type
	M8x1, A-coded, to EN 61076-2-104	Open end	3	2.5 m	★ **8078223**	**NEBA-M8G3-U-2.5-N-LE3**
				5 m	★ **8078224**	**NEBA-M8G3-U-5-N-LE3**

	Electrical connection 1, connector system	Electrical connection 2, connector system	Electrical connection 2, number of connections/ cores	Cable length	Part no.	Type
	M8x1, A-coded, to EN 61076-2-104	Open end	3	2.5 m	★ **8078230**	**NEBA-M8W3-U-2.5-N-LE3**
				5 m	★ **8078231**	**NEBA-M8W3-U-5-N-LE3**