



Tool Changers

pneumatic

SOMMER
automatic





Tool Changer

Ord. no.	Handling weight recommended* [kg]	Pneumatic Connectors [pieces]	Page
Product Information			6
WW50F	10	4	10
WW50L	-	4	10
WW80F	20	6	12
WW80L	-	6	12
WW100F	20	12	14
WW100L	-	12	14
WW120F - F	40	9	16
WW120F - B/99	80	9	16
WW120L - B	-	9	16
WW180F - B	180	6	18
WW180L - B	-	6	18
WW220F	180	16	22
WW220L	-	16	22
WW250F	500	optional	24
WW250L	-	optional	24
Energy elements for WW120-B and WW180-B			20
Plug connector for WW50-WW100 and WW220			26
Energy elements for WW250			27
Storage station for WW50 - WW120-B			28



Tool Coupling

Ord. no.	Handling weight recommended* [kg]	Weight [g]	Page
Product Information			32
WK50F	4	240	34
WK50L	-	170	34



Manuel Changer

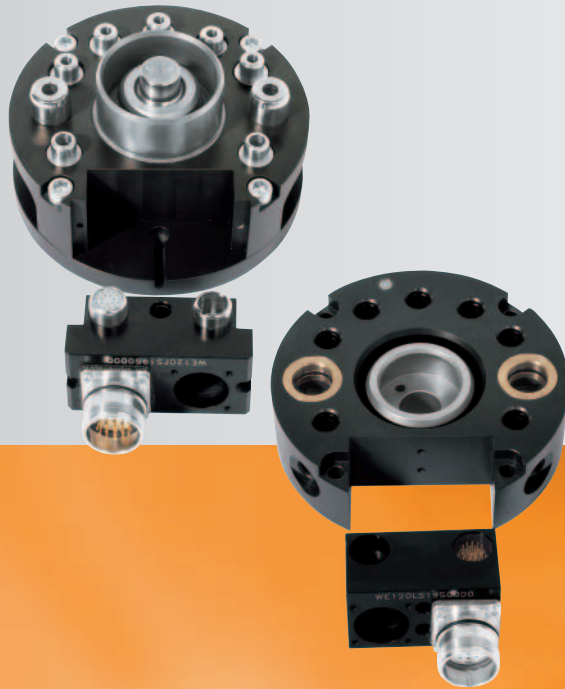
Ord. no.	Handling weight recommended* [kg]	Weight [g]	Page
Product Information			38
HWR80F	100	620	40
HWR80L	-	340	40





Tool Changers

pneumatic



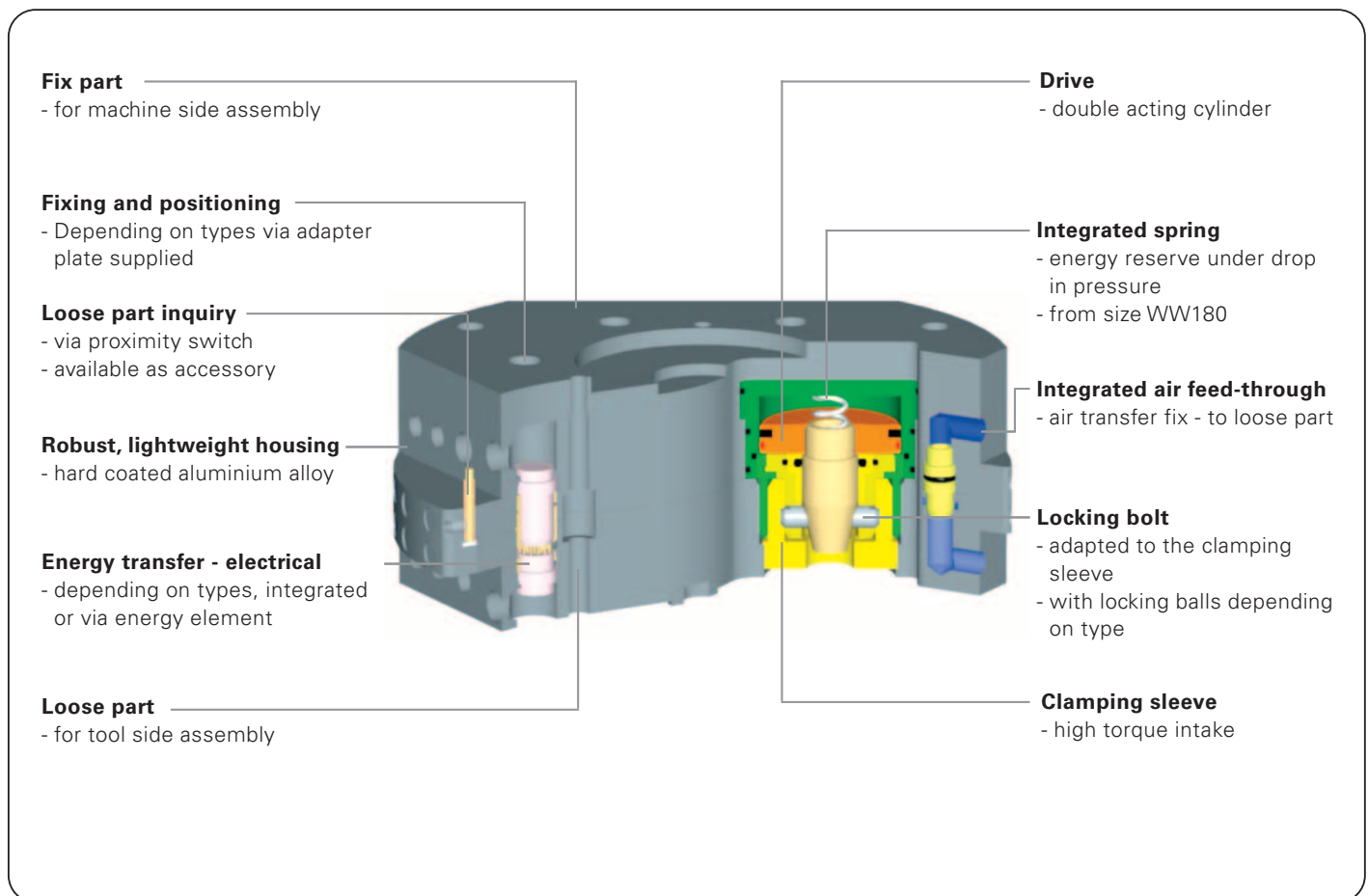
WW50 up to WW250

Tool Changer

Features

- High force and torque intake
- Self limitation under drop in pressure
- Up to 24 pneumatic feed-through possible and up to 60 electrical signals transferable

Functional diagram



Terms

Handling weight:	guide value, when dimensioning, the force and moment loads must be observed
Locking stroke:	distance covered by the loose part during locking
Cycle:	changing procedure
Maintenance:	<p>maintenance free up to 1 Mio. cycle (please see the owner's manual for conditions, download from www.sommer-automatic.com)</p> <ul style="list-style-type: none"> • long maintenance intervals keep costs down • long durability

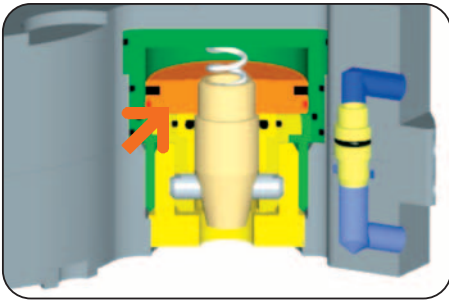
Model

F:	Fix part, machine side assembly
L:	Loose part, tool assembly
-99:	Locking via locking pins

Order no.	Recommended handling weight* [kg]	Pneumatic energy transfer [quantity]	Electrical energy transfer [number of pins]
WW50F	10	4	5
WW50L	-	4	5
WW80F	20	6	16
WW80L	-	6	16
WW100F	20	12	16
WW100L	-	12	16
WW120F - F	40	9	optional
WW120F - B-99	80	9	optional
WW120L - B	-	9	optional
WW180F - B	180	6	optional
WW180L - B	-	6	optional
WW220F	180	16	20
WW220L	-	16	20
WW250F	500	optional	optional
WW250L	-	optional	optional

* Moment loads must be observed!

Tool Changer

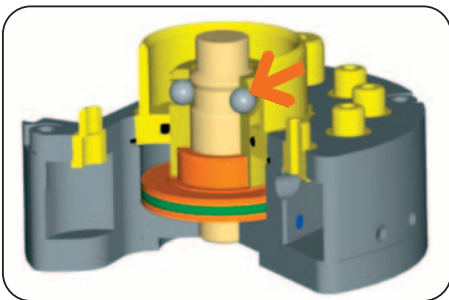


Locking drive

Double acting pneumatic cylinder

(With integrated pressure spring from size WW180)

- Process safe
- Safeguarded locking force under drop in pressure via mechanical self limitation
- additional via pressure spring

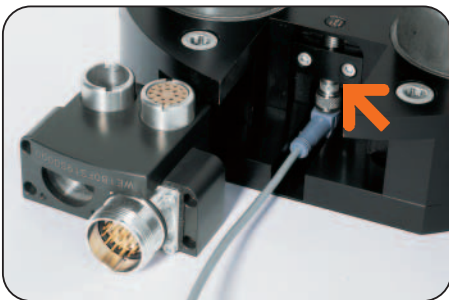


Locking mechanics

positive connection via locking balls

(by indexing both adapted to the clamping sleeve from size WW120/99)

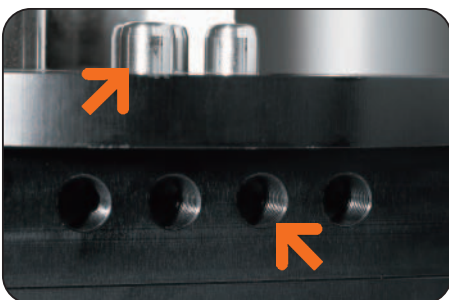
- Highest torque intake due to line contact (from size WW120/99)
- Self limitation under drop in pressure



Sensing

Direct position sensing of loose part via proximity switch

- Process safe
- No additional interference contour



Air transfer

Up to 24 pneumatic feed-through

- Energy supply for application on the loose part
- Vacuum suitable



Electrical transfer

Up to 20 signals transferable in series

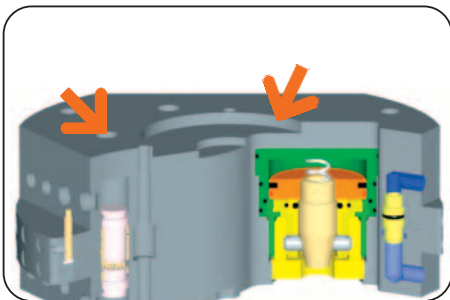
- No additional interference contours, as integrated into housing
- Upgradeable to up to 60 transferable signals (see page 26)
- Coding possible



Energy element

available for size WW120-B, WW180-B and WW250

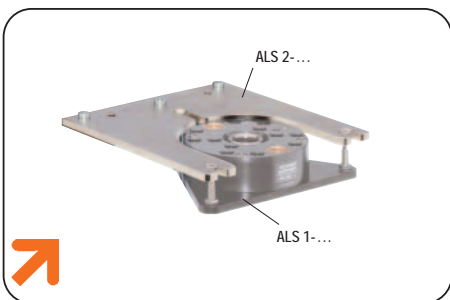
- Standardised and packaged
- Short set up time for maintenance work
- Available as accessory



Machine connection

via adapter plate supplied, direct connection depending on size

- Simple and cost-effective connection to design
- Centring disc available as accessory



Storage station

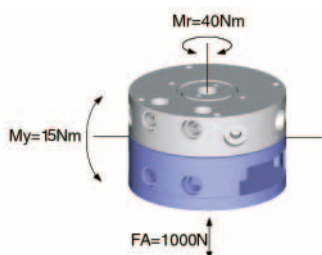
Available as accessory for tool changers WW50 to WW120-B

- Standardised, cost-saving solution
- Easy assembly

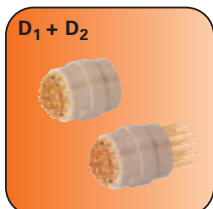
Tool Changer

Forces and Moments

Max allowable static forces and moments in locked situation



Included in the delivery

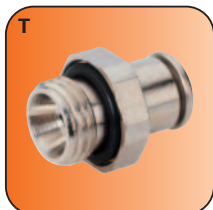


Plug connector
male/female 5-pole
Order no. 0B-305CNL (F)
Order no. 0B-305CNA (L)

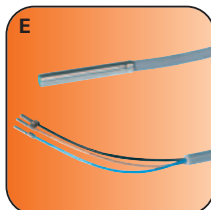


Assembly tool
Order no. MW0002 (F)

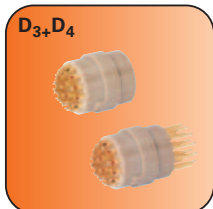
Accessory list



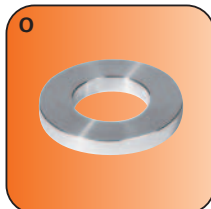
Pneumatic fittings
Order no. GVM5



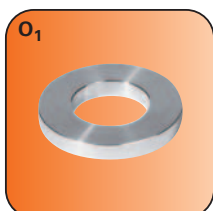
Proximity switch
Order no. NJ3-E2-01



Plug connector
Order no. see S. 26



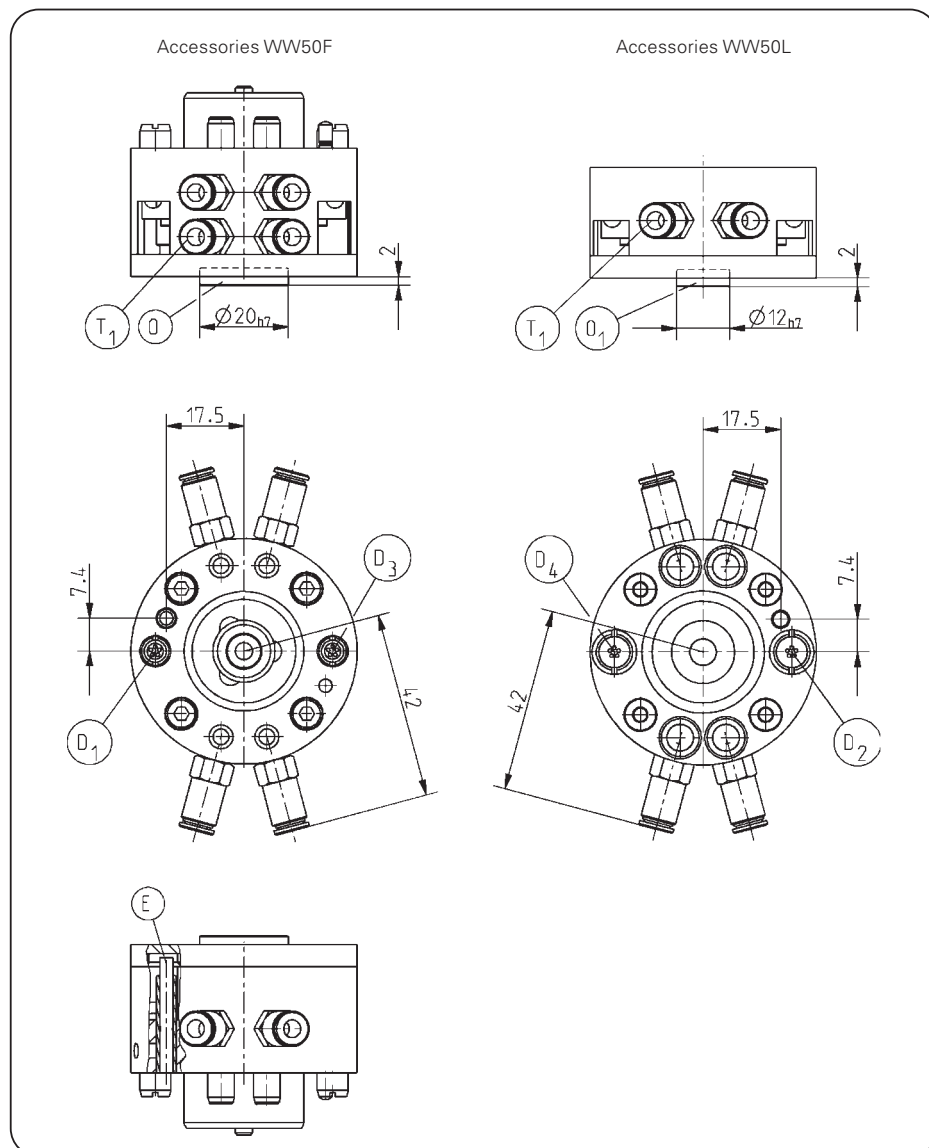
Centring disc
Order no. ZE20H7x4



Centring disc
Order no. ZE12H7x4



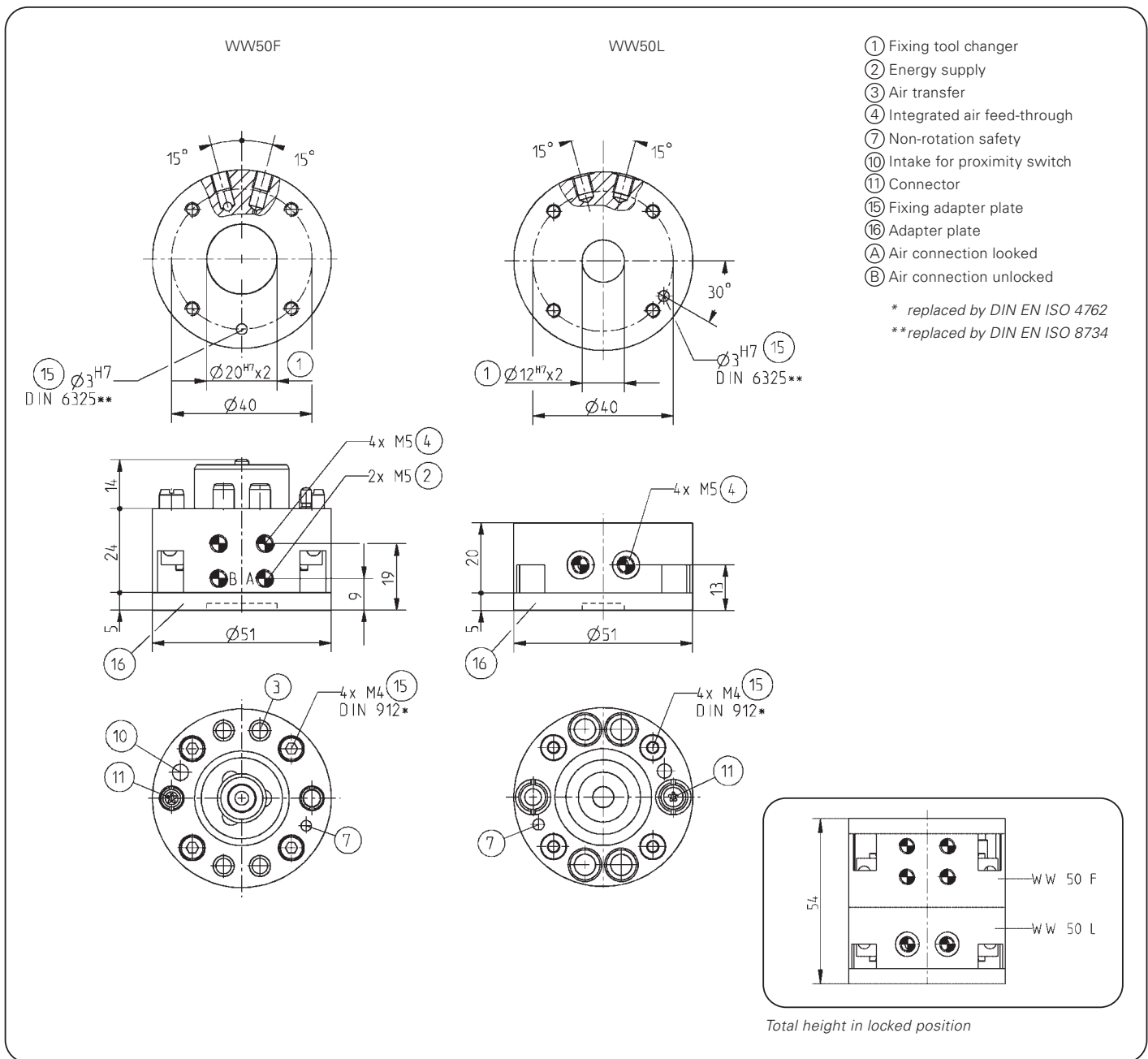
Plug 3-pole
Order no. S12-G-3



Subject to change without prior notice

Order no.:	WW50F	WW50L
Locking stroke [mm]*:	4	-
Recommended handling weight [kg]**:	10	-
Self limitation when locking:	mech.	mech.
Electrical energy transfer 5 pole***:	1x	1x
Electrical energy transfer (freely usable):	1x	1x
Pneumatic energy transfer M5:	4x	4x
Min./max. operating pressure [bar]:	4/8	-
Repeatability +/- [mm]:	0,02	0,02
Air volume per cycle [cm³]:	6	-
Min./max. operating temperature [°C]:	5/80	5/80
Weight [g]:	240	170

All data measured at 6 bar
 * at max. deviation of 1.5 mm
 ** Moment loads must be observed!
 *** Included in the delivery (see page 26)

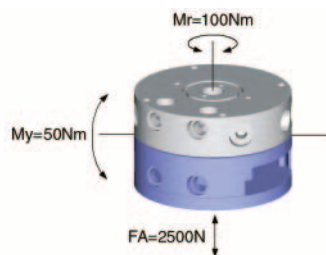


Subject to change without prior notice

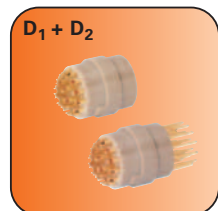
Tool Changer

Forces and Moments

Max allowable static forces and moments in locked situation



Included in the delivery



Plug connector
16-pole
Order no. 2B-316CNL (F)
Order no. 2B-316CNA (L)



Assembly tool
Order no. MW003 (F)

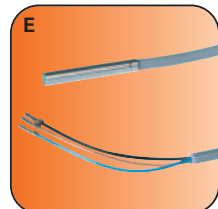
Accessory list



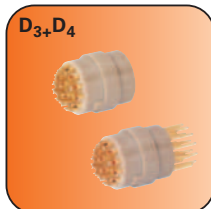
Pneumatic fittings
Order no. GVM5



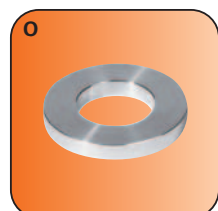
Pneumatic fittings
Order no. WVM5



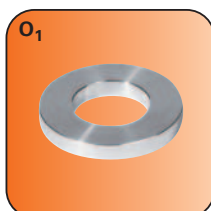
Proximity switch
Order no. NJ3-E2-01



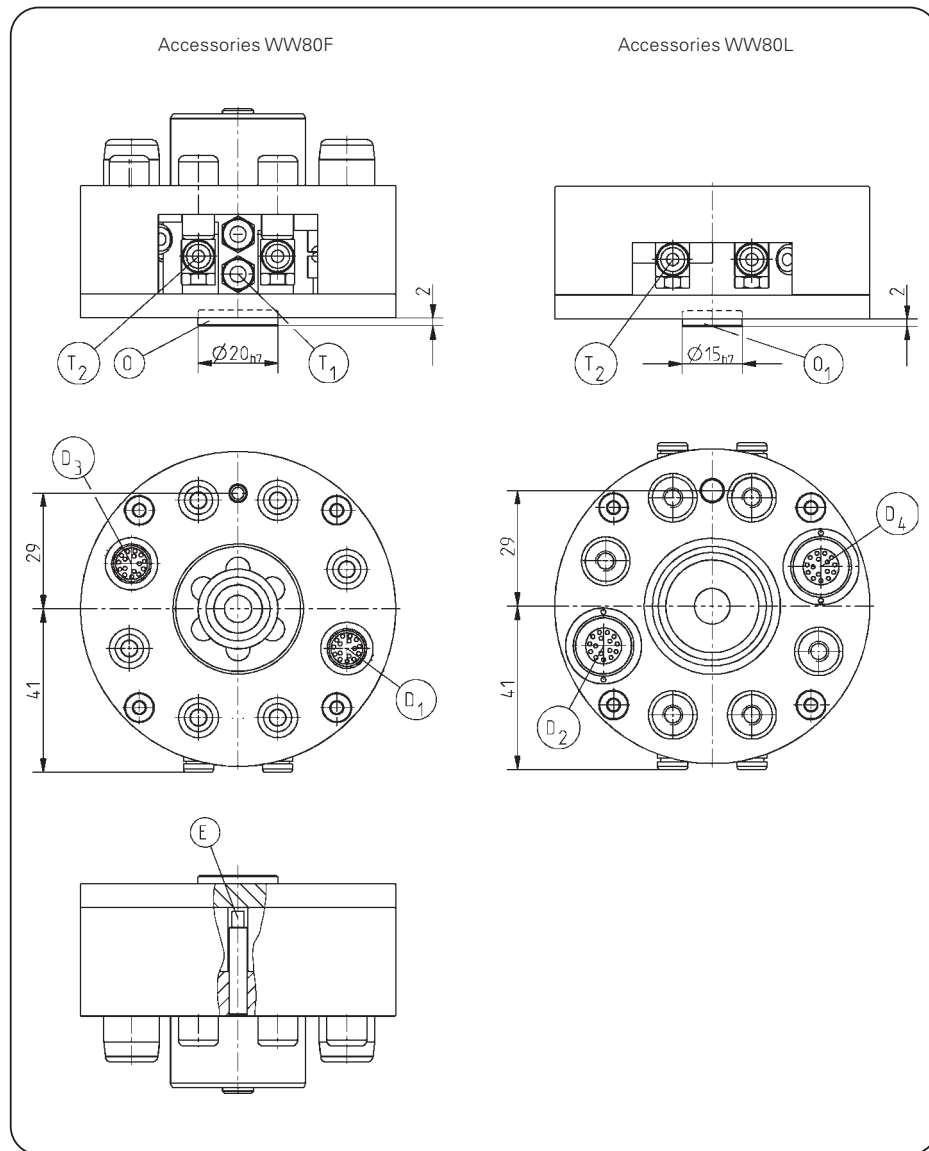
plug connector
Order no. see S. 26



Centring disc
Order no. ZE20H7x4



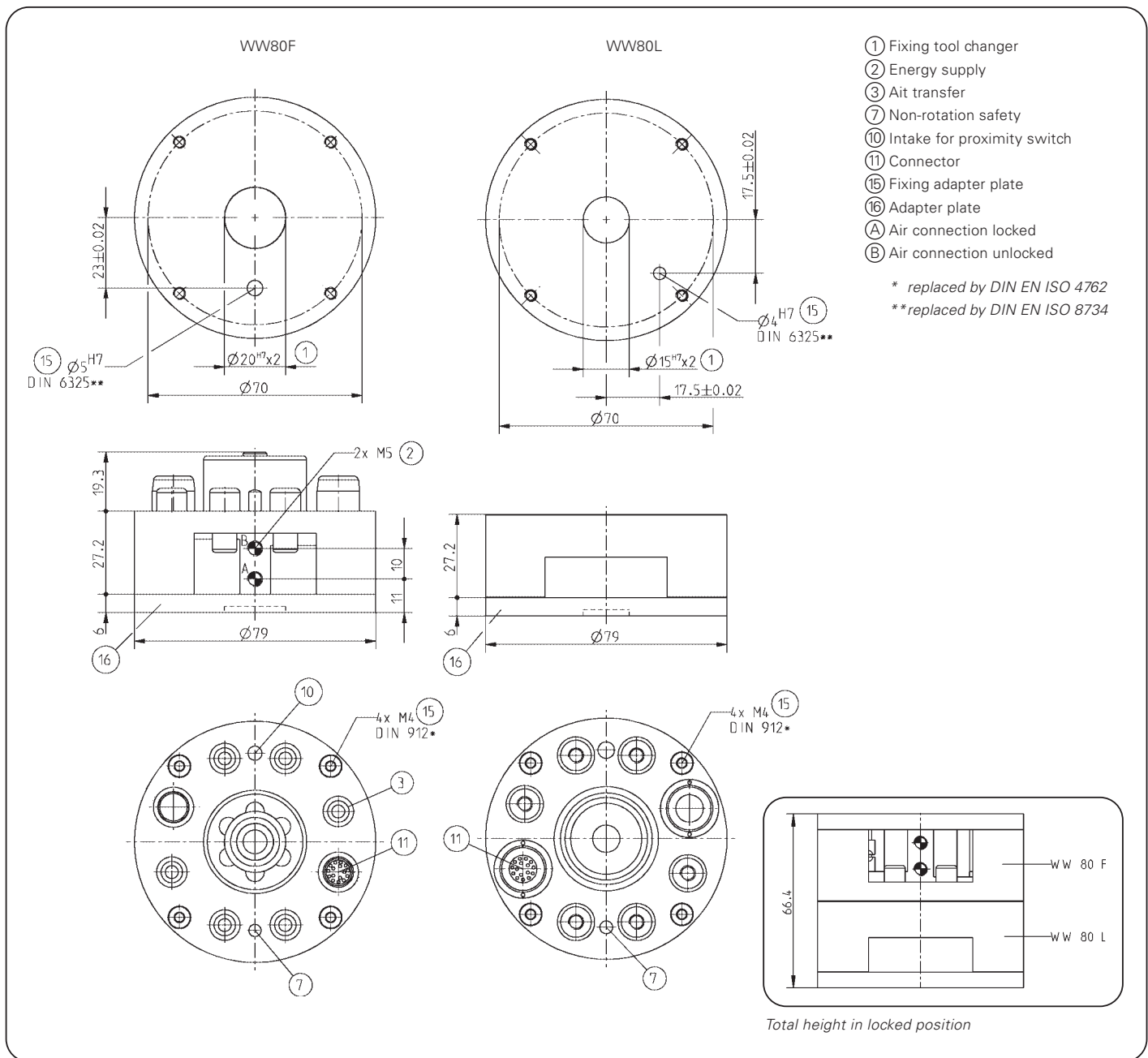
Centring disc
Order no. ZE15H7x4



Subject to change without prior notice

Order no.:	WW80F	WW80L
Locking stroke [mm]*:	6	-
Recommended handling weight [kg]**:	20	-
Self limitation when locking:	mech.	mech.
Electrical energy transfer 16 pole***:	1x	1x
Electrical energy transfer (freely usable):	1x	1x
Pneumatic energy transfer M5:	6x	6x
Min./max. operating pressure [bar]:	4/8	-
Repeatability +/- [mm]:	0,02	0,02
Air volume per cycle [cm³]:	11	-
Min./max. operating temperature [°C]:	5/80	5/80
Weight [g]:	460	370

All data measured at 6 bar
 * at max. deviation of 1.5 mm
 ** Moment loads must be observed!
 *** Included in the delivery (see page 26)

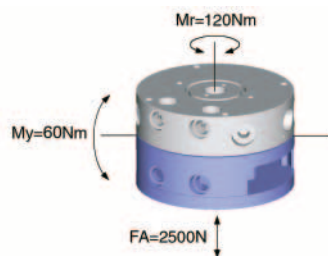


Subject to change without prior notice

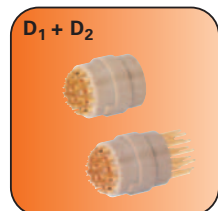
Tool Changer

Forces and Moments

Max allowable static forces and moments in locked situation



Included in the delivery

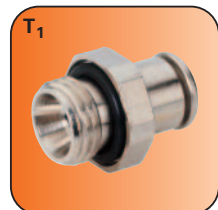


Plug connector
16-pole
Order no. 2B-316CNL (F)
Order no. 2B-316CNA (L)

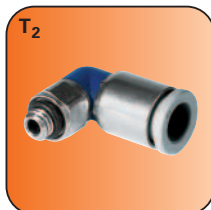


Assembly tool
Order no. MW0003 (F)

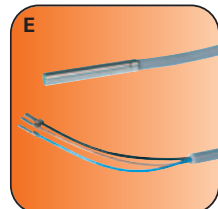
Accessory list



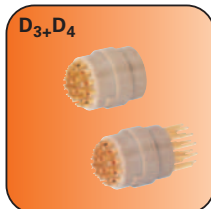
Pneumatic fittings
Order no. GVM5



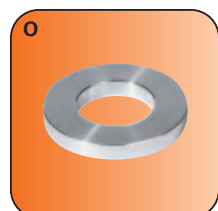
Pneumatic fittings
Order no. WVM5



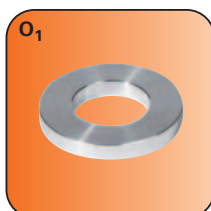
Proximity switch
Order no. NJ3-E2-01



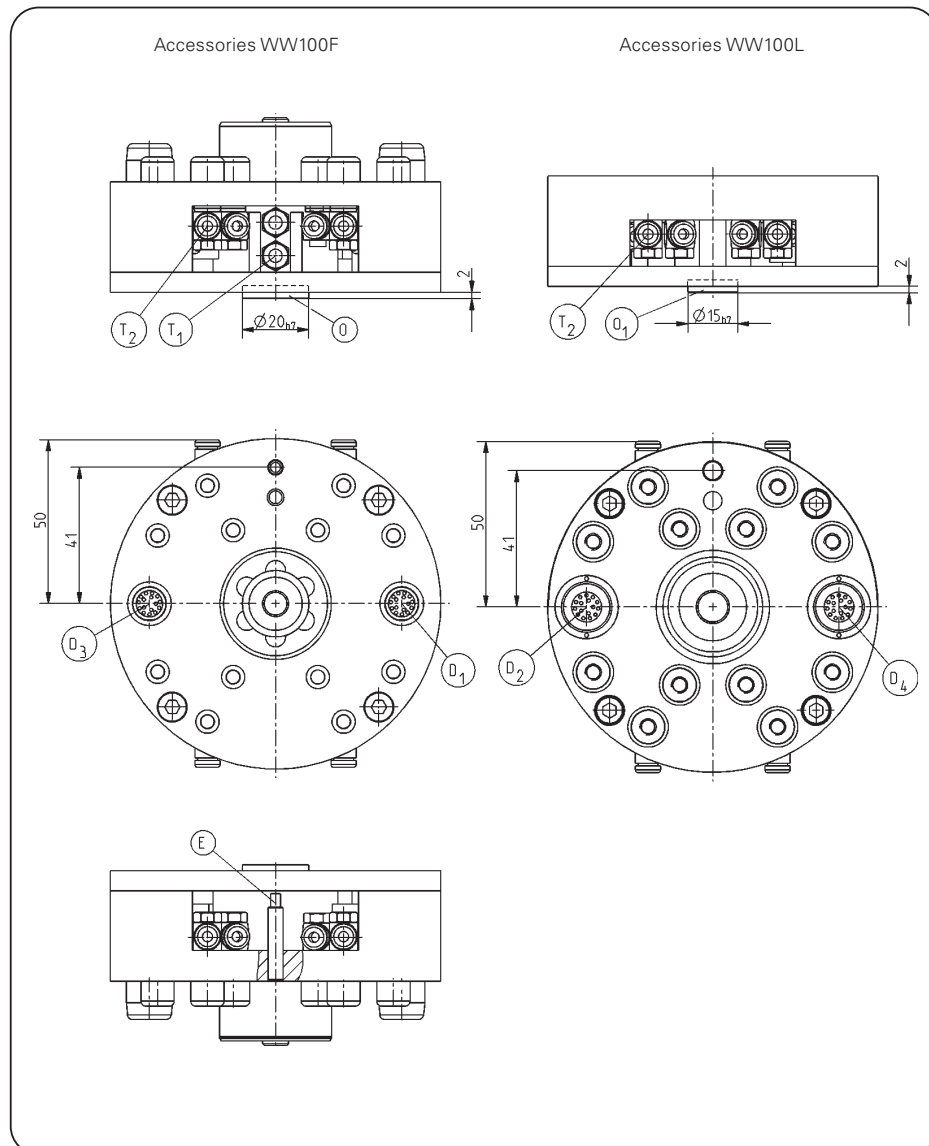
Plug connector
Order no. see S. 26



Centring disc
Order no. ZE20H7x4



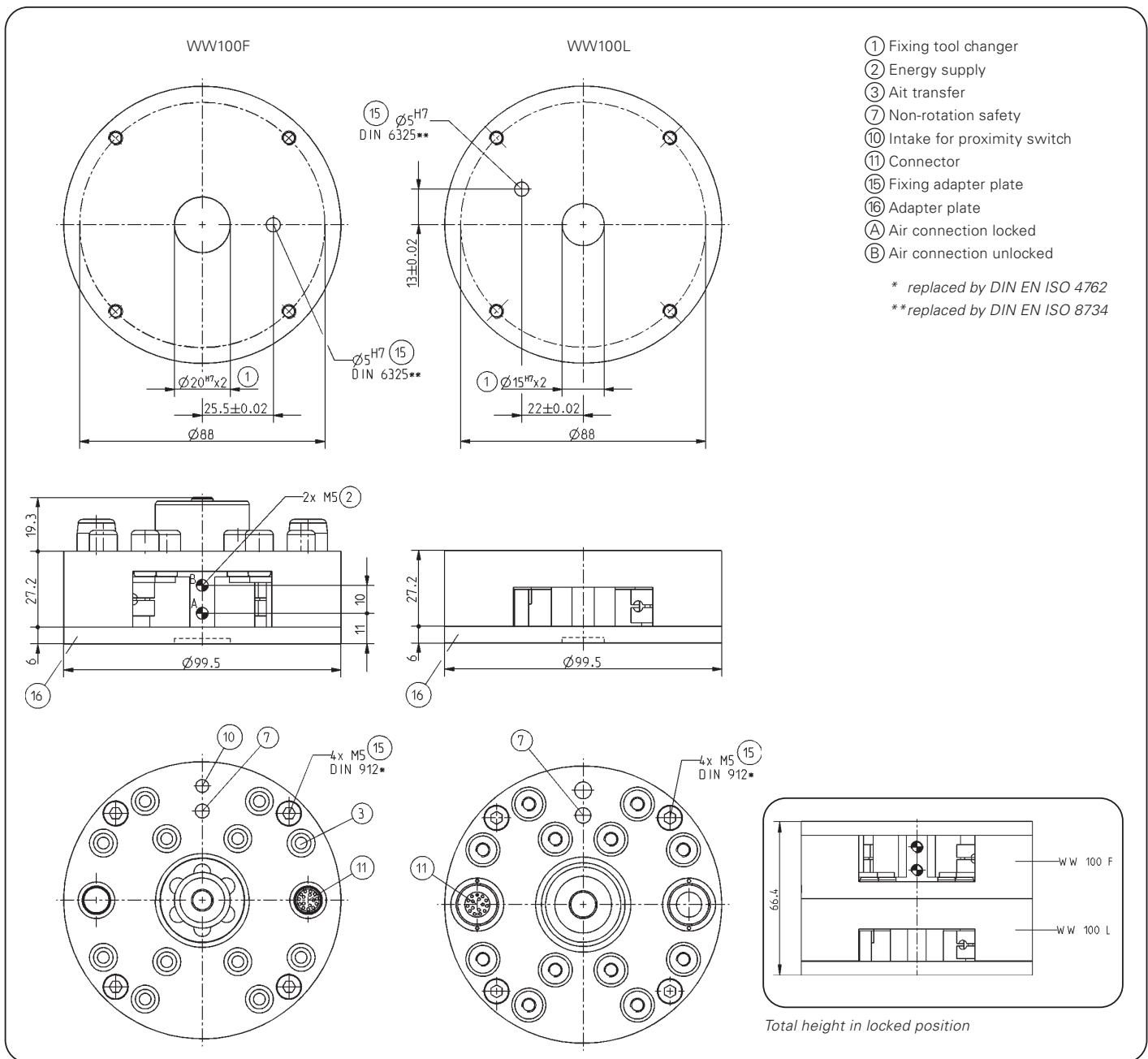
Centring disc
Order no. ZE15H7x4



Subject to change without prior notice

Order no.:	WW100F	WW100L
Locking stroke [mm]*:	6	-
Recommended handling weight [kg]**:	20	-
Self limitation when locking:	mech.	mech.
Electrical energy transfer 16 pole***:	1x	1x
Electrical energy transfer (freely usable):	1x	1x
Pneumatic energy transfer M5:	12x	12x
Min./max. operating pressure [bar]:	4/8	-
Repeatability +/- [mm]:	0,02	0,02
Air volume per cycle [cm³]:	11	-
Min./max. operating temperature [°C]:	5/80	5/80
Weight [g]:	670	540

All data measured at 6 bar
 * at max. deviation of 1.5 mm
 ** Moment loads must be observed!
 *** Included in the delivery (see page 26)

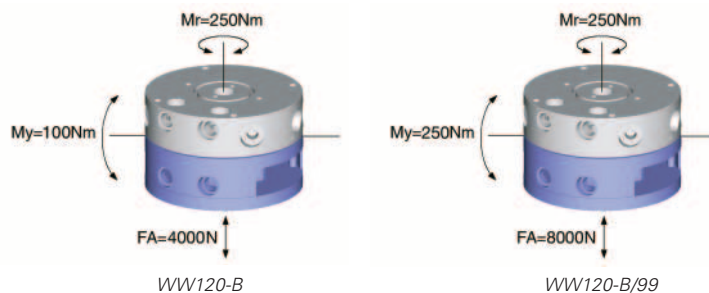


Subject to change without prior notice

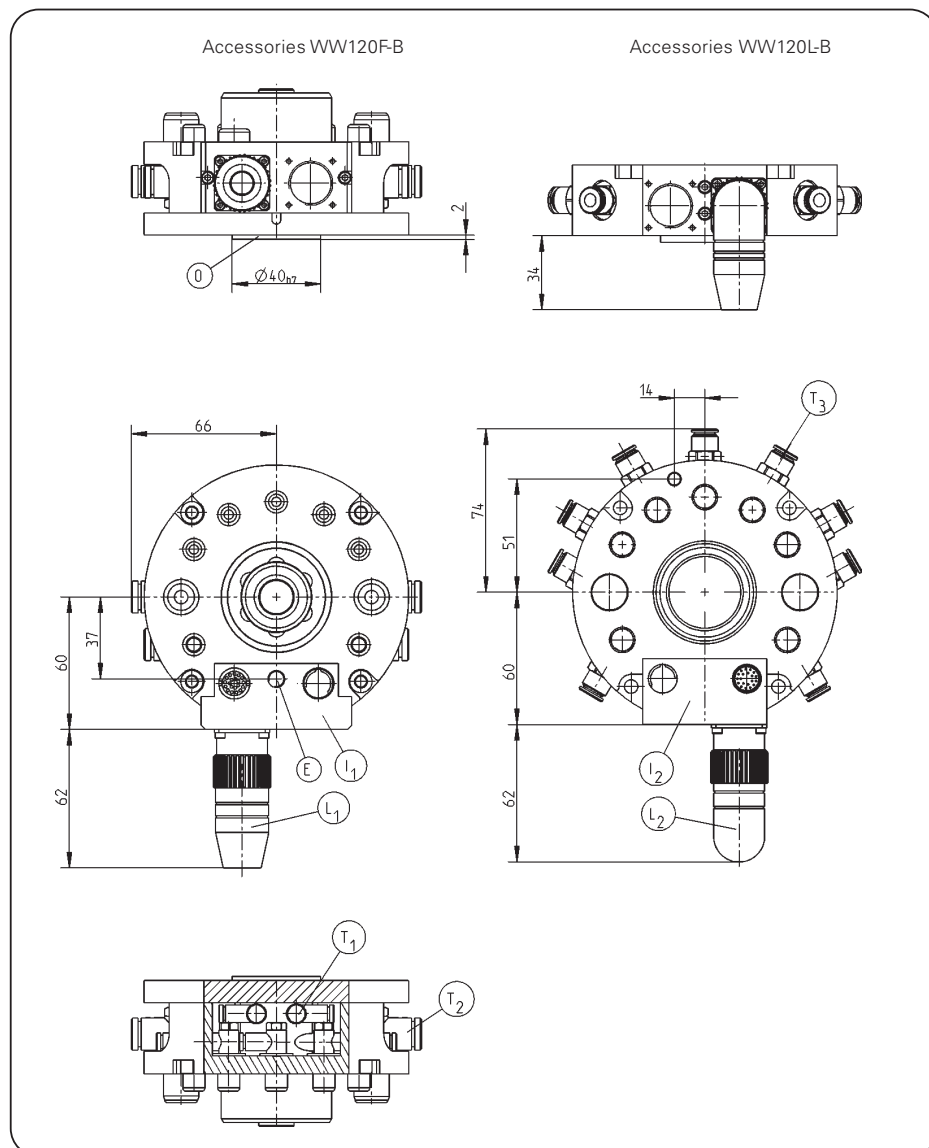
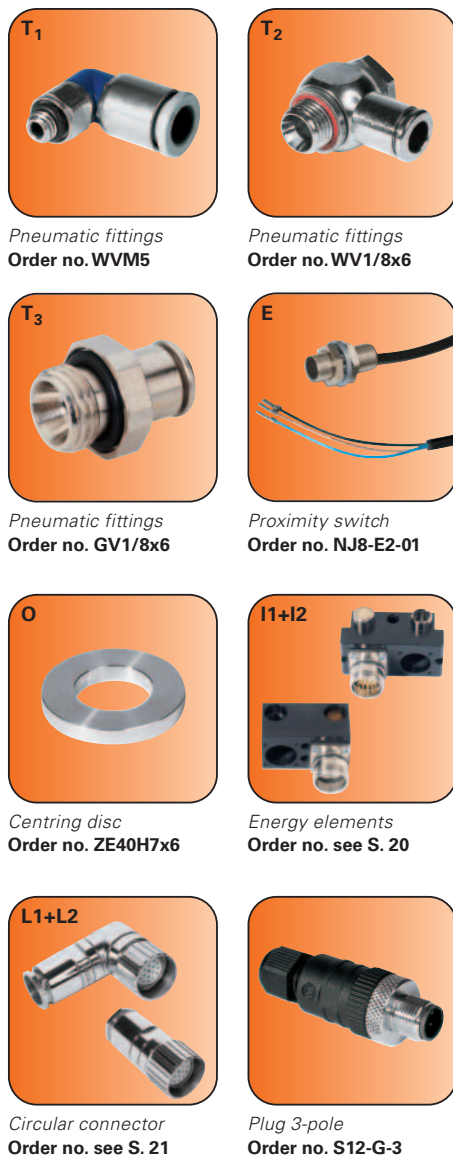
Tool Changer

Forces and Moments

Max allowable static forces and moments in locked situation



Accessory list

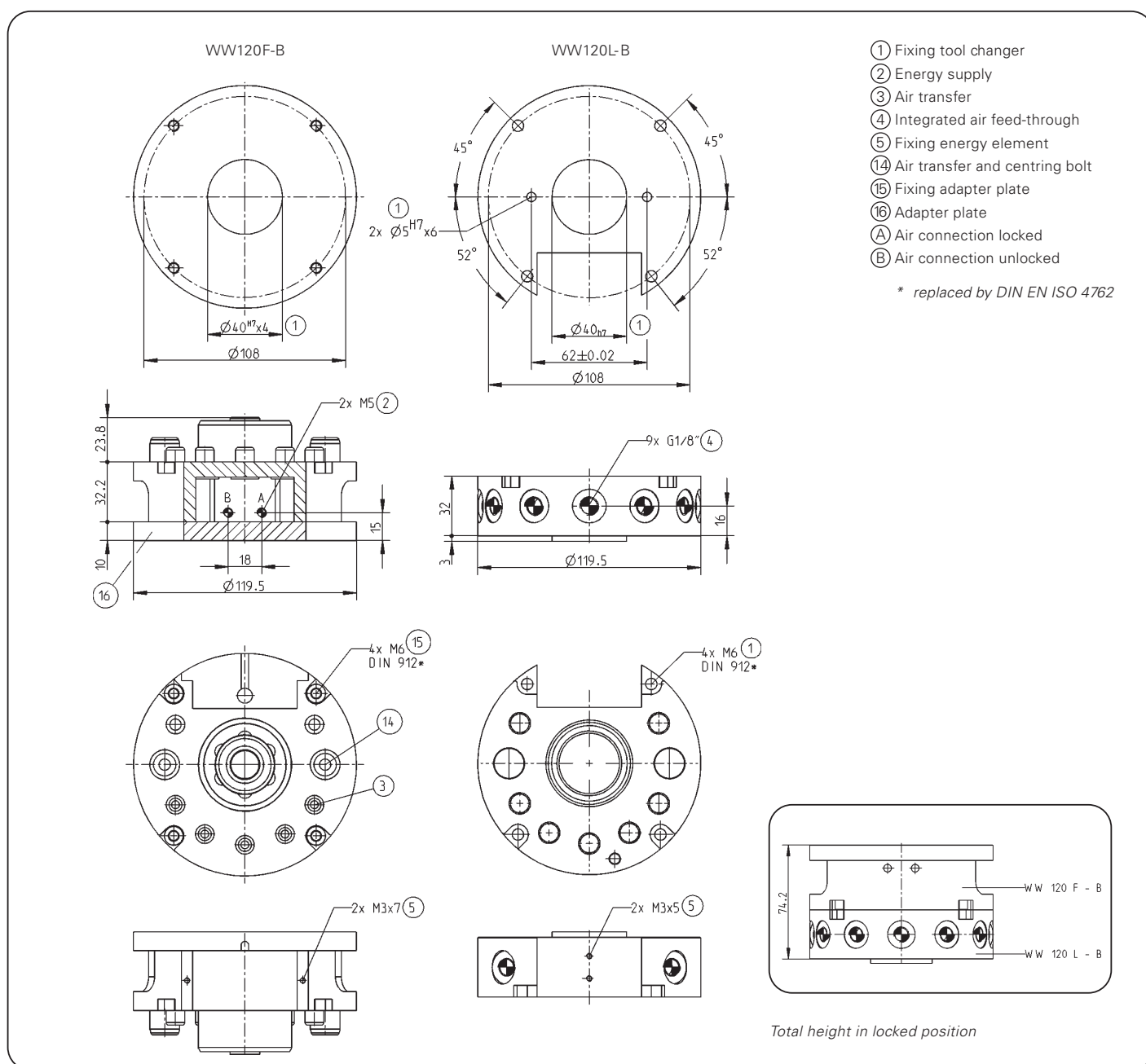


Subject to change without prior notice



Order no.:	WW120F-B	WW120F-B-99	WW120L-B
Locking stroke [mm]*:	8	1	-
Recommended handling weight [kg]**:	40	80	-
Self limitation when locking:	mech.	mech.	mech.
Electrical energy transfer***:	optional	optional	optional
Pneumatic energy transfer 1/8" + M5:	4x + 5x	4x + 5x	4x + 5x
Min./max. operating pressure [bar]:	4/8	4/8	-
Repeatability +/- [mm]:	0.02	0.02	0.02
Air volume per cycle [cm³]:	27	27	-
Min./max. operating temperature [°C]:	5/80	5/80	5/80
Weight [kg]:	1.2	1.2	1.0

All data measured at 6 bar
 * at max. diviation of 1.5 mm
 ** Moment loads must be observed!
 *** Included in the delivery (see page 26)

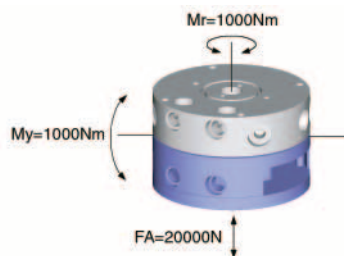


Subject to change without prior notice

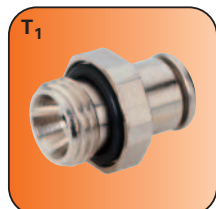
Tool Changer

Forces and Moments

Max allowable static forces and moments in locked situation



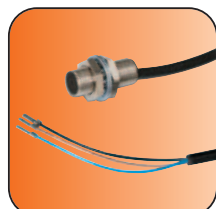
Accessory list



T₁
Pneumatic fittings
Order no. GV1/8x6



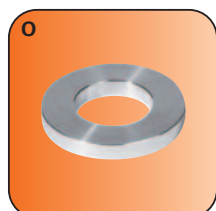
E
Proximity switch
Order no. NJ8-E2S-05



Proximity switch
Order no. NJ8-E2-01



I1+I2
Energy elements
Order no. see S. 20



O
Centring disc
Order no. ZE25H7x6



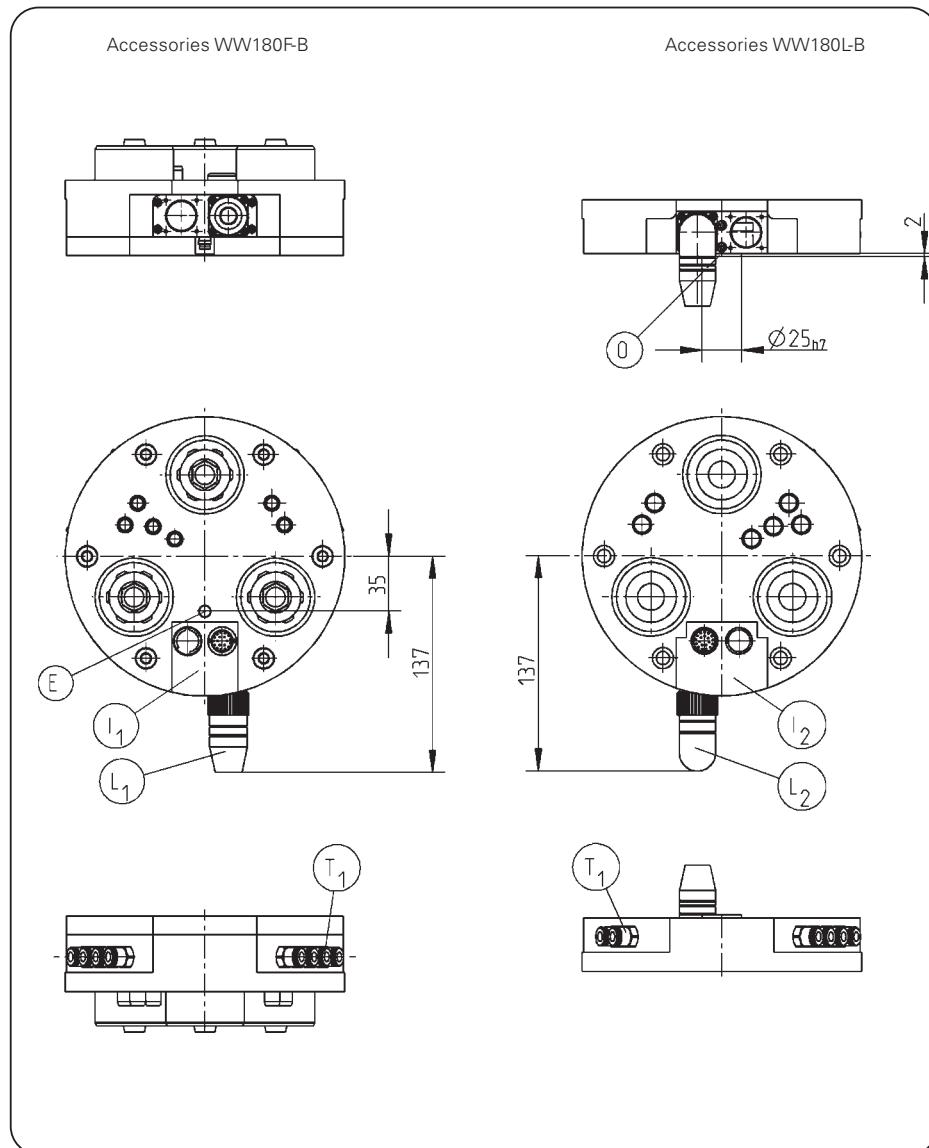
L1+L2
Circular connector
Order no. see S. 21



Cable angled plug
Order no. KAW500



Plug 3-pole
Order no. S12-G-3

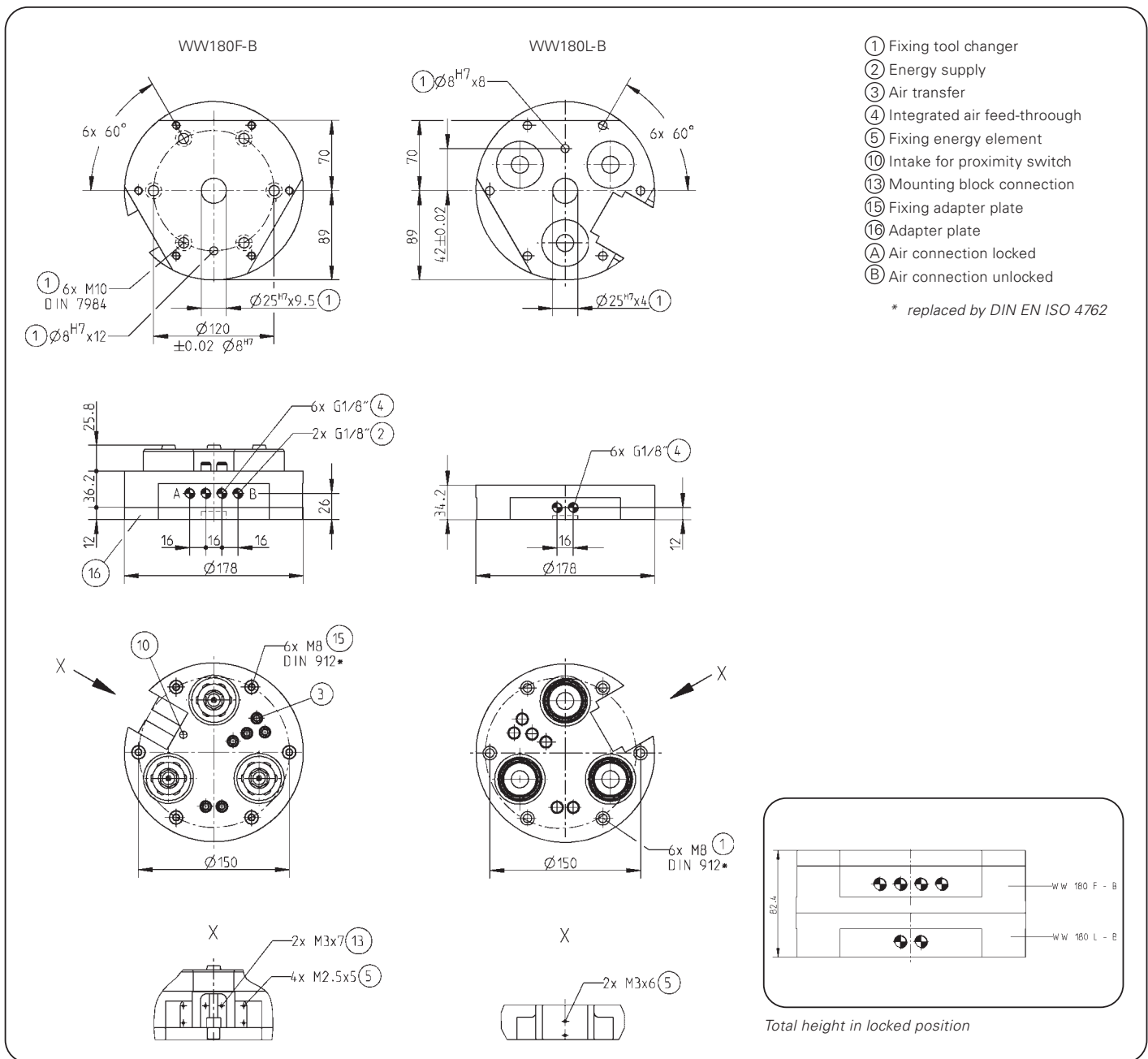


Subject to change without prior notice



Order no.:	WW180F-B	WW180L-B
Locking stroke [mm]*:	1,5	-
Recommended handling weight [kg]**:	180	-
Self limitation when locking:	mech.	mech.
Electrical energy transfer***:	optional	optional
Pneumatic energy transfer 1/8" + M5:	6	6
Min./max. operating pressure [bar]:	4/8	-
Repeatability +/- [mm]:	0,02	0,02
Air volume per cycle [cm³]:	90	-
Min./max. operating temperature [°C]:	5/80	5/80
Weight [kg]:	3,7	2,1

All data measured at 6 bar
 * at max. deviation of 1.5 mm
 ** Moment loads must be observed!
 *** Included in the delivery (see page 26)

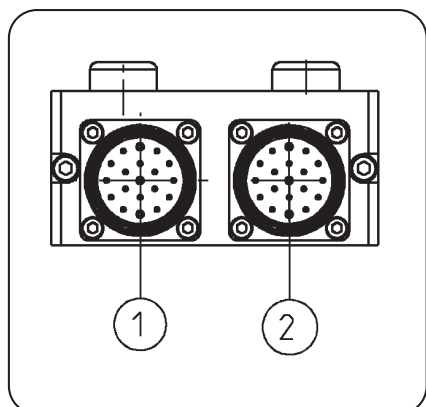


Subject to change without prior notice

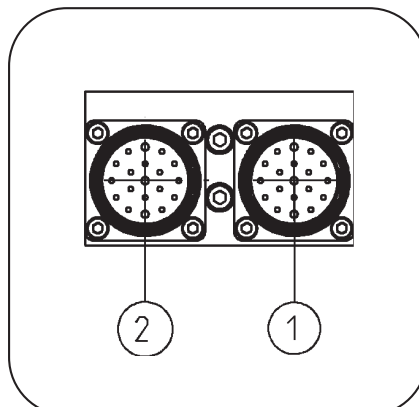
Energy elements

WW-B

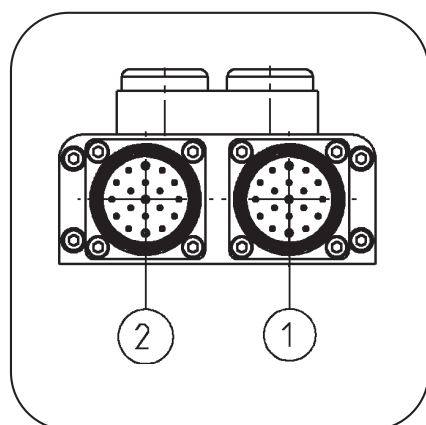
Order example:



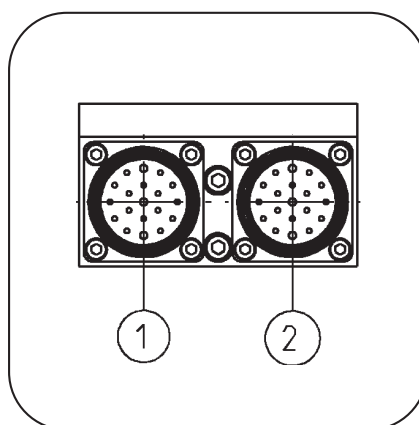
WE120FS19S19



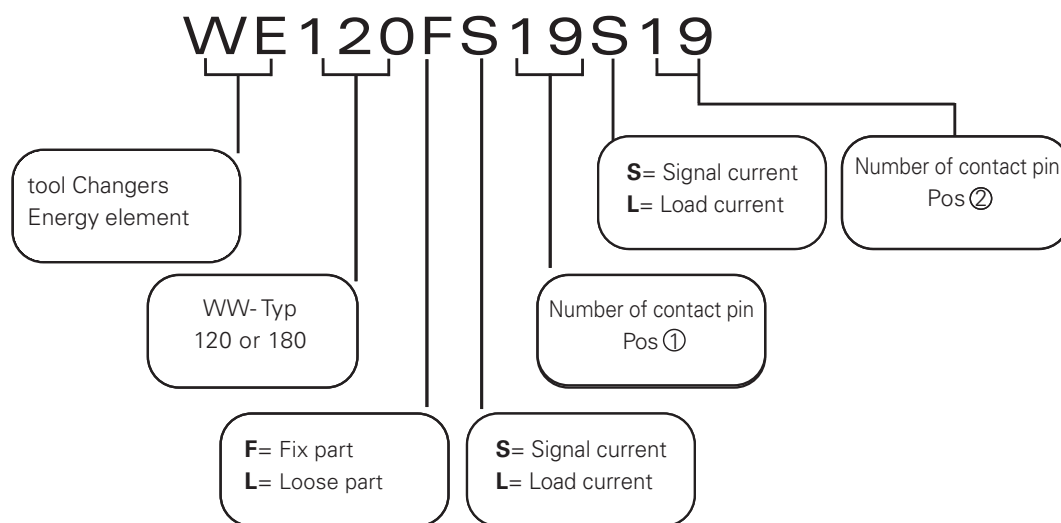
WE120LS19S19



WE180FS19S19



WE180LS19S19



Energy elements WE for WW120-B and WW180-B

Technical data for energy elements with integrated signal current (complete mounted and soldered)

Current typ	Number of contact pins Pos.1*	Nominal current [A]		Operating voltage** [V]		Current typ	Number of contact pins Pos. 2*	Nominal current [A]		Operating voltage** [V]	
		WE120	WE180	WE120	WE180			WE120	WE180	WE120	WE180
Order no.		WE120	WE180	WE120	WE180	Order no.		WE120	WE180	WE120	WE180
S	07	15	17	300							
S	12	9	12	300							
S	19	6	8	150							
S	07	15	17	300		S	07	15	17	300	
S	07	15	17	300		S	12	9	12	300	
S	07	15	17	300		S	19	6	8	150	
S	12	9	12	300		S	12	9	12	300	
S	12	9	12	300		S	19	6	8	150	
S	19	6	8	150		S	19	6	8	150	

Technical data for energy elements with integrated load current and signal current (complete mounted and soldered)

Current typ	Number of contact pins Pos.1*	Nominal current [A]		Operating voltage** [V]		Current typ	Number of contact pins Pos. 2*	Nominal current [A]		Operating voltage** [V]	
		WE120	WE180	WE120	WE180			WE120	WE180	WE120	WE180
Order no.		WE120	WE180	WE120	WE180	Order no.		WE120	WE180	WE120	WE180
L	06	17	24	600							
L	06	17	24	600		L	06	17	24	600	
L	06	17	24	600		S	07	15	17	300	
L	06	17	24	600		S	12	9	12	300	
L	06	17	24	600		S	19	6	8	150	

L= Load current with 6 pins 6 (5+PE)

* see order example

** Indicated for user grounding, 60 V without grounding

Assembly tool



Order no.

MW004

MW005

suitable for WE120

suitable for WE180

Remark:

Assembly tool will be needed for maintenance work.

Circular connector



Straight fix part:

Order no.

RSTVLM23G**06**B

RSTVSM23G**07**B

RSTVSM23G**12**B

RSTVSM23G**19**B

Straight loose part:

Order no.

RSTVLM23G**06**S

RSTVSM23G**07**S

RSTVSM23G**12**S

RSTVSM23G**19**S



Angle fix part:

Order no.

RSTVSM23W**07**B

RSTVSM23W**12**B

RSTVSM23W**19**B

Angle loose part:

Order no.

RSTVSM23W**07**S

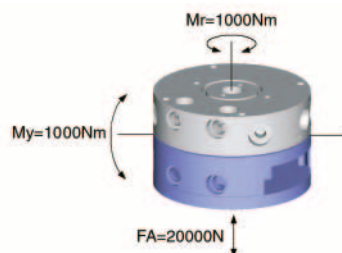
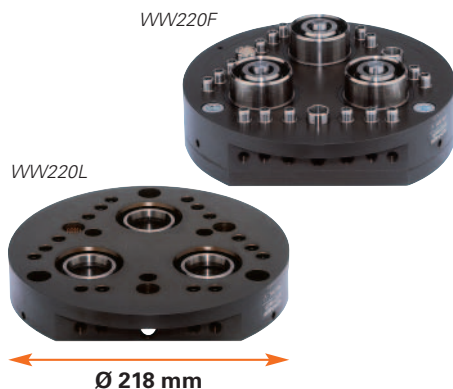
RSTVSM23W**12**S

RSTVSM23W**19**S

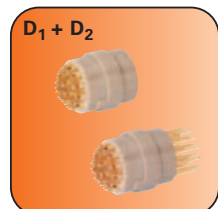
Tool Changer

Forces and Moments

Max allowable static forces and moments in locked situation



Included in the delivery

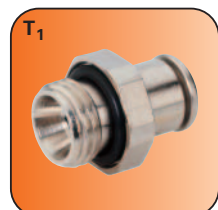


Plug connector
5-pole
Order no 4B-320L (F)
Order no 4B-320A (L)



Assembly tool
Order no. MW0005 (F)

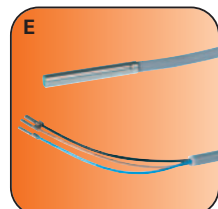
Accessory list



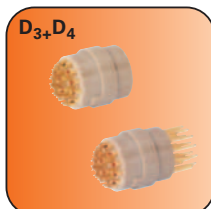
Pneumatic fittings
Order no. GV1/8x6



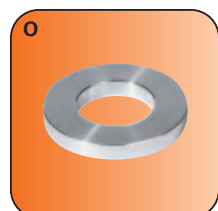
Pneumatic fittings
Order no. GV1/4x8



Proximity switch
Order no. NJ3-E2-01



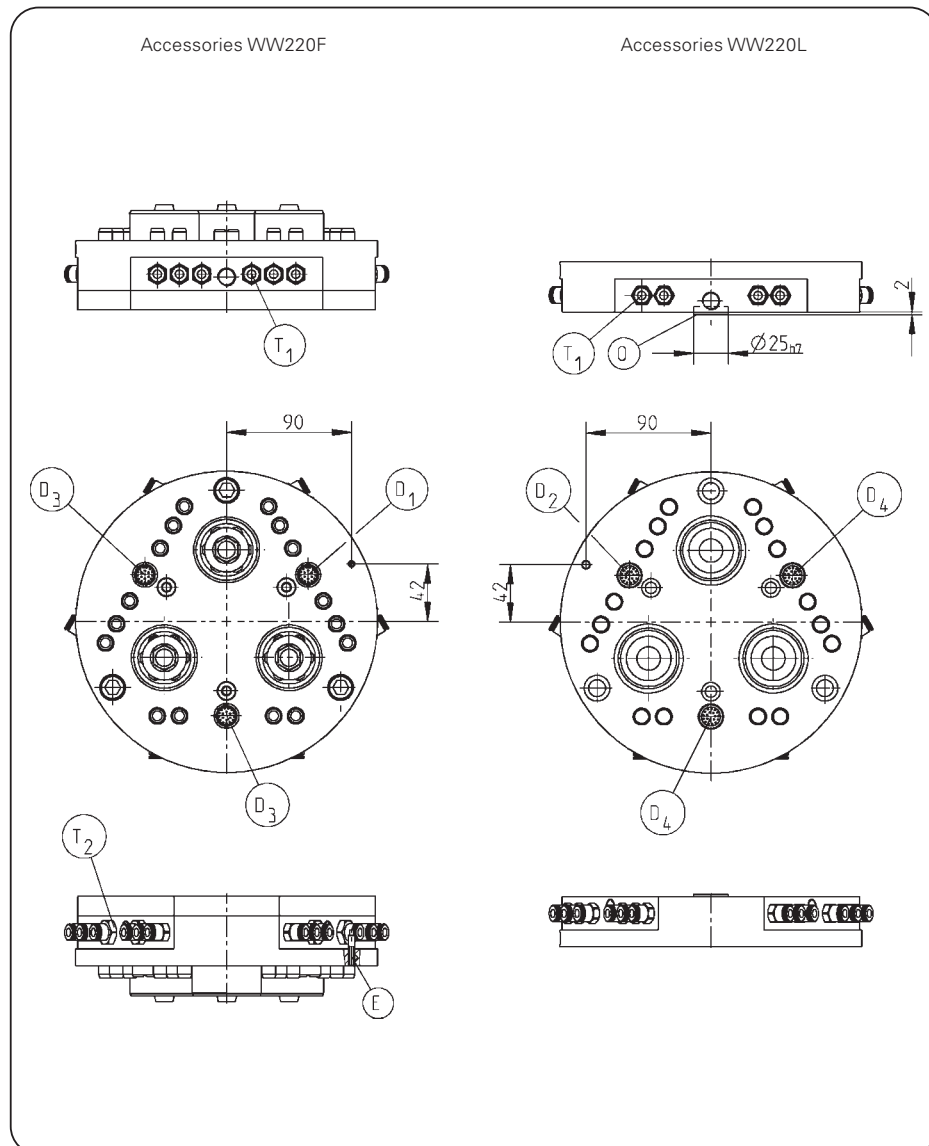
Plug connector
Order no. see S. 26



Centring disc
Order no. ZE25H7x6



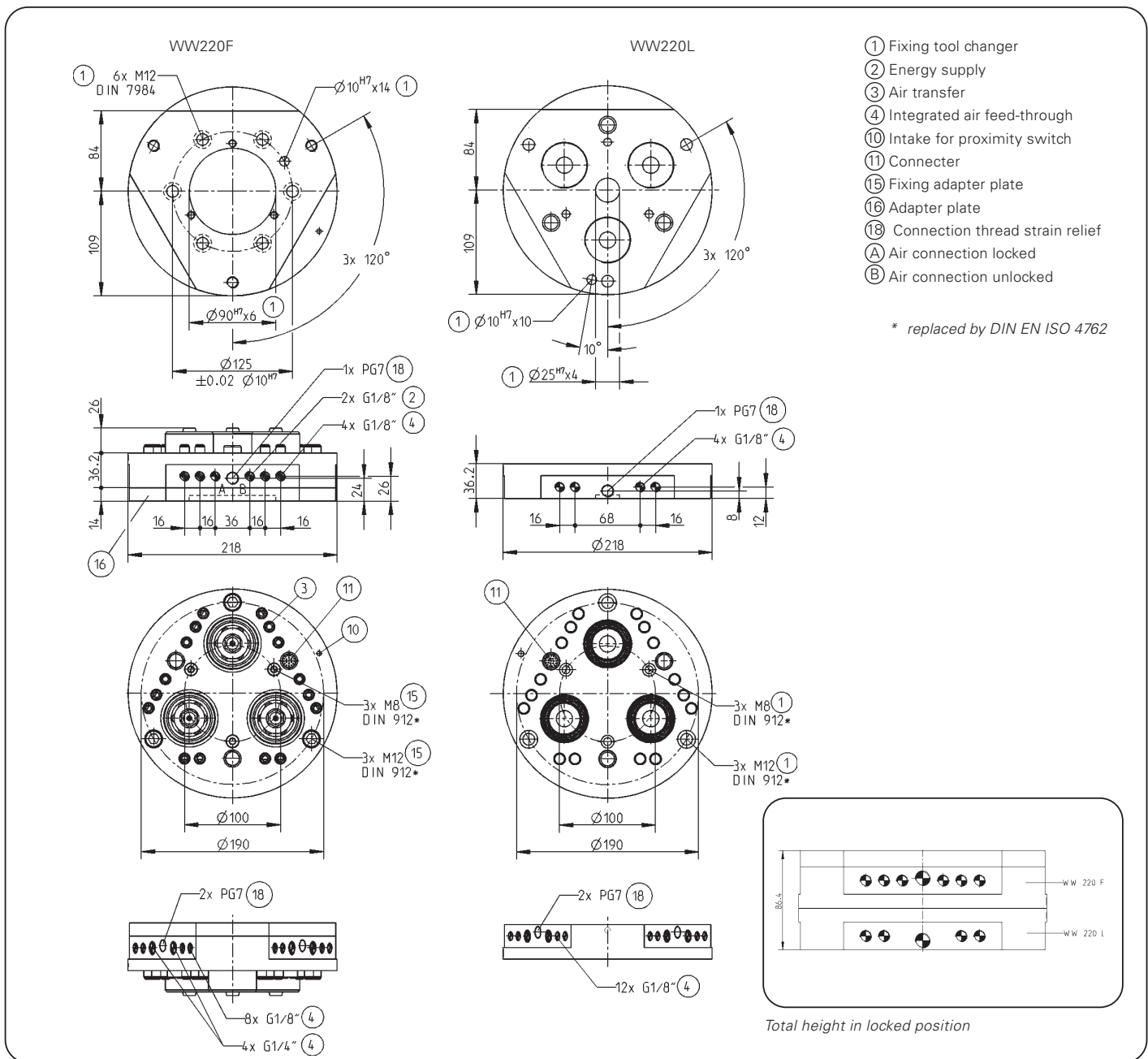
Plug 3-pole
Order no. S12-G-3



Subject to change without prior notice

Order no.:	WW220F	WW220L
Locking stroke [mm]*:	1,5	-
Recommended handling weight [kg]**:	180	-
Self limitation when locking:	mech.	mech.
Electrical energy transfer 20-pole***:	1x	1x
Electrical energy transfer (freely usable):	1x	1x
Pneumatic energy transfer M5:	4 + 12	4 + 12
Min./max. operating pressure [bar]:	4/8	-
Repeatability +/- [mm]:	0,02	0,02
Air volume per cycle [cm³]:	90	-
Min./max. operating temperature [°C]:	5/80	5/80
Weight [kg]:	5,2	3,1

All data measured at 6 bar
 * at max. deviation of 1.5 mm
 ** Moment loads must be observed!
 *** Included in the delivery (siehe page 26)

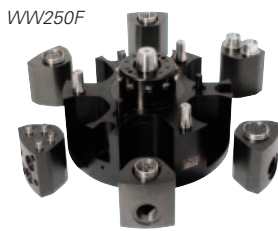
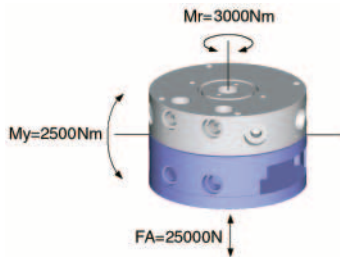


Subject to change without prior notice

Tool Changer

Forces and Moments

Max allowable static forces and moments in locked situation



Ø 248 mm

Accessory list



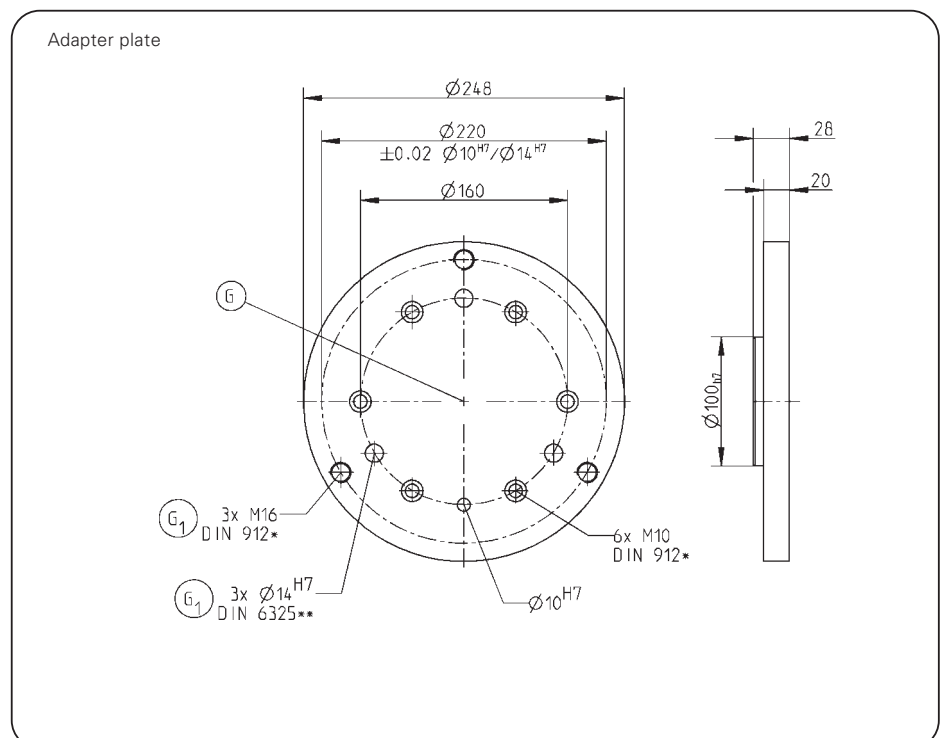
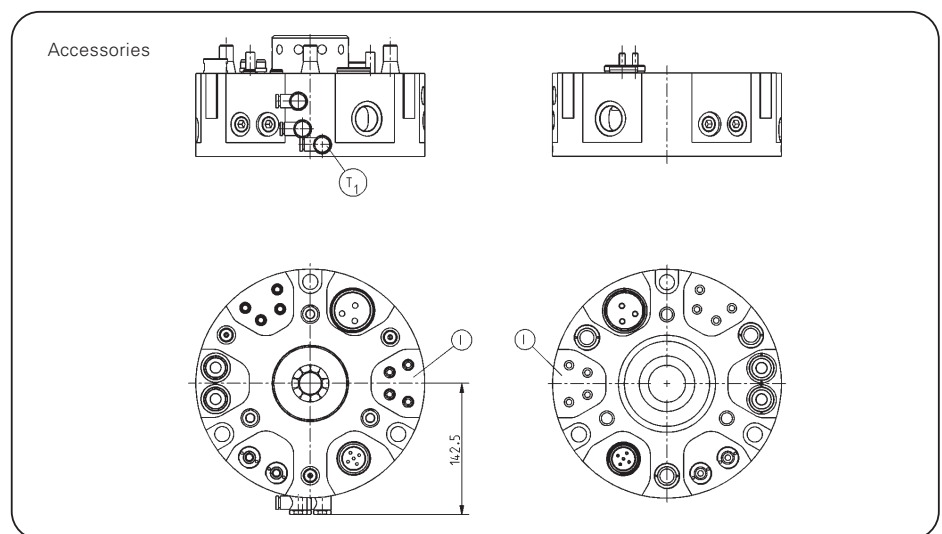
Pneumatic fittings
Order no. GV1/4x8



Energy elements
Order no. see S. 27



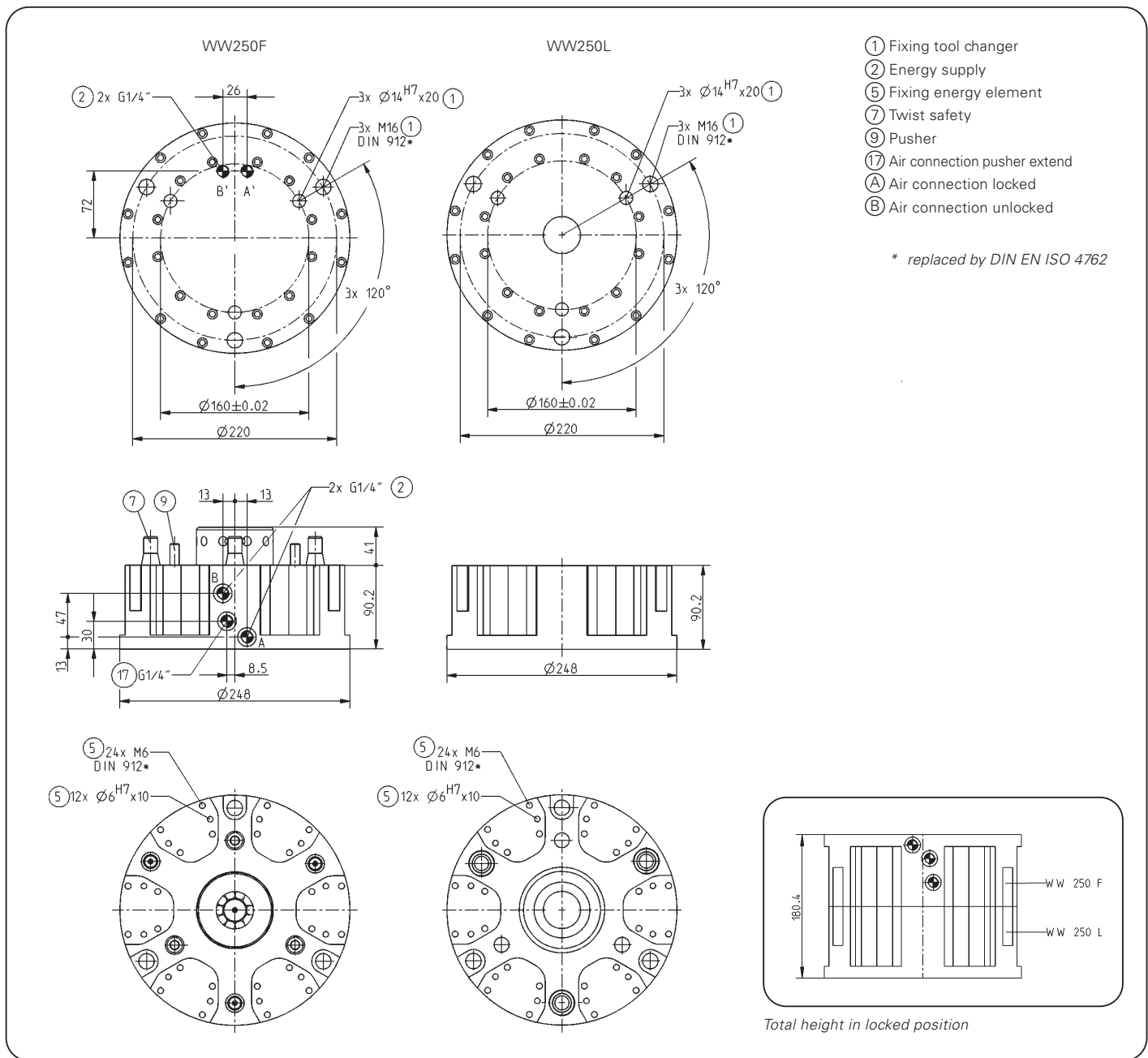
Adapter plate
Order no. APWW250F



Subject to change without prior notice

Order no.:	WW250F	WW250L
Locking stroke [mm]*:	3	-
Recommended handling weight [kg]**:	500	-
Self limitation when locking:	mech.	mech.
Electrical energy transfer (freely usable):	6	6
Energieübertragung fluidisch***:	optional	optional
Electrical energy transfer***:	optional	optional
Min./max. operating pressure [bar]:	4/8	-
Repeatability +/- [mm]:	0.02	0.02
Air volume per cycle [cm³]:	470	-
Min./max. operating temperature [°C]:	5/80	5/80
Weight [kg]:	14.5	12

All data measured at 6 bar
 * at max. deviation of 1.5 mm
 ** Moment loads must be observed!
 *** see page 27



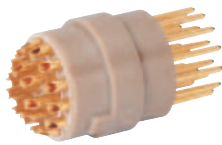
Subject to change without prior notice

Tool Changer

Plug connector



CNL: Socket for fix part



CNA: Socket for loose part

Numero d'ordine:	0B-302CNL	0B-302CNA	0B-303CNL	0B-303CNA	0B-304CNL	0B-304CNA	0B-305CNL
Corrente nominale [A]:	10	10	8	8	7	7	6,5
Tensione di esercizio AC [kV]:	0.46	0.46	0.42	0.42	0.46	0.46	0.26
Tensione di esercizio DC [kV]:	0.66	0.66	0.60	0.60	0.66	0.66	0.40
Number of contact pins:	2	2	3	3	4	4	5
to match:	WW50F	WW50L	WW50F	WW50L	WW50F	WW50L	WW50F

Numero d'ordine:	0B-305CNA	2B-302CNL	2B-302CNA	2B-303CNL	2B-303CNA	2B-304CNL	2B-304CNA
Corrente nominale [A]:	6,5	30	30	17	17	15	15
Tensione di esercizio AC [kV]:	0.26	0.70	0.70	0.56	0.56	1.00	1.00
Tensione di esercizio DC [kV]:	0.40	1.00	1.00	0.83	0.83	1.30	1.30
Number of contact pins:	5	2	2	3	3	4	4
to match:	WW50L	WW80F + WW100F	WW80F + WW100L	WW80F + WW100F	WW80L + WW100L	WW80L + WW100L	WW80L + WW100L

Numero d'ordine:	2B-305CNL	2B-305CNA	2B-307CNL	2B-307CNA	2B-312CNL	2B-312CNA	2B-316CNL
Corrente nominale [A]:	14	14	11	11	7	7	6
Tensione di esercizio AC [kV]:	0.86	0.86	0.50	0.50	0.56	0.56	0.50
Tensione di esercizio DC [kV]:	1.20	1.20	0.73	0.73	0.83	0.83	0.73
Number of contact pins:	5	5	7	7	12	12	16
to match:	WW80F + WW100F	WW80L + WW100L	WW80F + WW100F	WW80L + WW100L	WW80F + WW100F	WW80L + WW100L	WW80F + WW100F

Numero d'ordine:	2B-316CNA	2B319CNL	2B-319CNA	4B-304CNL	4B-304CNA	4B306CNL	4B-306CNA
Corrente nominale [A]:	6	5	5	30	30	24	24
Tensione di esercizio AC [kV]:	0.50	0.46	0.46	0.93	0.93	0.93	0.93
Tensione di esercizio DC [kV]:	0.73	0.66	0.66	1.30	1.30	1.30	1.30
Number of contact pins:	16	19	19	4	4	6	6
to match:	WW80L + WW100L	WW80F + WW100F	WW80L + WW100L	WW220F	WW220L	WW220F	WW220L

Numero d'ordine:	4B-310CNL	4B-310CNA	4B-312CNL	4B-312CNA	4B-316CNL	4B316CNA	4B-320CNL
Corrente nominale [A]:	17	17	7,5	7,5	10	10	8
Tensione di esercizio AC [kV]:	0.70	0.70	0.50	0.50	1.00	1.00	0.70
Tensione di esercizio DC [kV]:	1.00	1.00	0.70	0.70	1.40	1.40	1.00
Number of contact pins:	10	10	12	12	16	16	20
to match:	WW220F	WW220L	WW220F	WW220L	WW220F	WW220L	WW220F

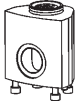
Numero d'ordine:	4B-320CNA	4B-330CNL	4B-320CNA
Corrente nominale [A]:	8	5	5
Tensione di esercizio AC [kV]:	0.70	0.46	0.46
Tensione di esercizio DC [kV]:	1.00	0.66	0.66
Number of contact pins:	20	30	30
to match:	WW220L	WW220F	WW220L

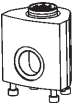
Inductive switch:

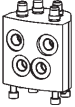


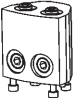
Order no.:	NJ3-E2-01
Current [mA]:	50
Nominal switching gap [mm]:	0.6
Diameter [mm]:	4.5


Energy elements for WW250

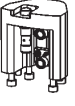
electrical	Order no.:	WE250FS104	WE250LS104	WE250FS106	WE250LS106
	Suitable for:	WW250F	WW250L	WW250F	WW250L
	Number of contact pins:	4+PE	4+PE	6+PE	6+PE
	Nominal current [A]:	27	27	27	27
	Operating voltage AC [V]:	400	400	400	400
	Weight [kg]:	0,6	0,6	0,6	0,6

	Order no.:	WE250FS115	WE250LS11	WE250FS2	WE250LS2
	Suitable for:	WW250F	WW250L	WW250F	WW250L
	Number of contact pins:	15+PE	15+PE	2+PE	2+PE
	Nominal current [A]:	16	16	135	135
	Operating voltage AC [V]:	250	250	550	550
	Weight [kg]:	0.6	0.6	0.6	0.6

fluid	Order no.:	WE250FP1	WE250LP1	WE250FP2	WE250LP2
	Suitable for:	WW250F	WW250L	WW250F	WW250L
	Connection:	4 x G1/4"	4 x G1/4"	4 x G1/8"	4 x G1/8"
	Energy supply air:	yes	yes	yes	yes
	Energy supply hydr./water:	no	no	no	no
	Weight [kg]:	0.7	0.7	0.7	0.7

	Order no.:	WE250FH2DL *	WE250LH2DL *	WE250FH2D **	WE250LH2D **
	Suitable for:	WW250F	WW250L	WW250F	WW250L
	Connection:	2 x G3/8"	2 x G3/8"	2 x G3/8"	2 x G3/8"
	Energy supply air:	no	no	no	no
	Energy supply hydr./water:	yes	yes	yes	yes
	Weight [kg]:	0.9	0.9	0.9	0.9

Empty element	Order no.:	WE250N
	Suitable for:	WW250F
	Energy supply air:	no
	Energy supply hydr./water:	no
	Weight [kg]:	0,8

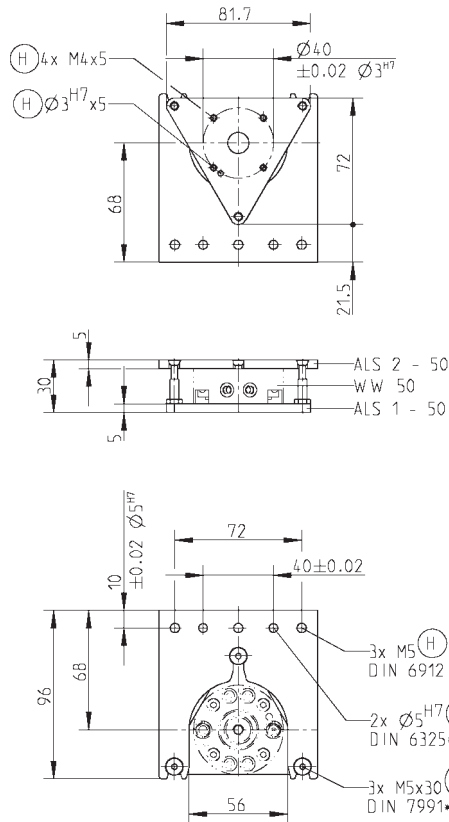
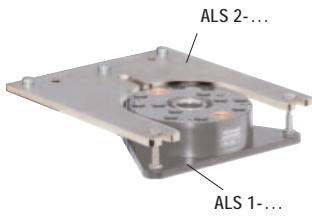
Sensing	Order no.:	WE250A ***
	Suitable for:	WW250F+L
	Weight [kg]:	0.4

Accessories	
Sensing loose part:	Order no. NJ12-E2S
Sensing locked:	Order no. MFS12MS
Sensing unlocked:	Order no. MFS12MS

* Coupling under pressure 0-10 bar possible
 ** Coupling under pressure 10-300 bar possible
 *** for sensing of the loose part, the WE250N is required

Storage station

ALS1-50
ALS2-50

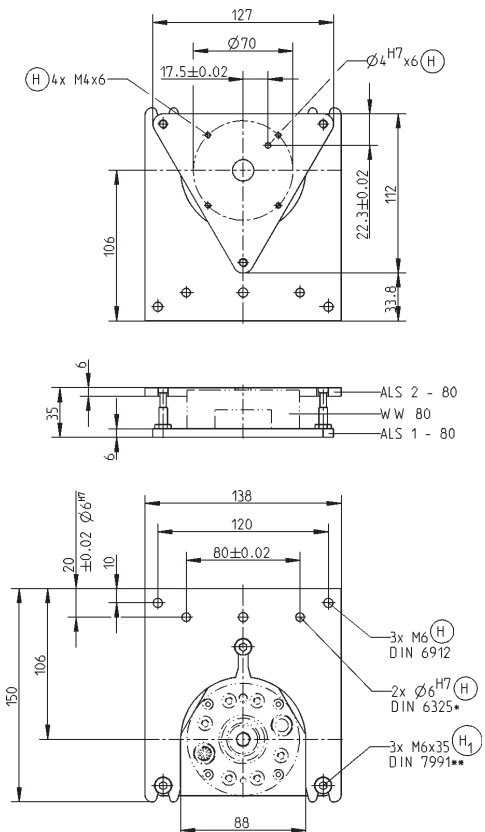


- (H) Fixing ALS
- (H) Screws included in the delivery ALS1-50

* replaced by DIN EN ISO 28734
** replaced by DIN EN ISO 10642

Order no.:
ALS1-50
ALS2-50
suitable for WW50

ALS1-80
ALS2-80



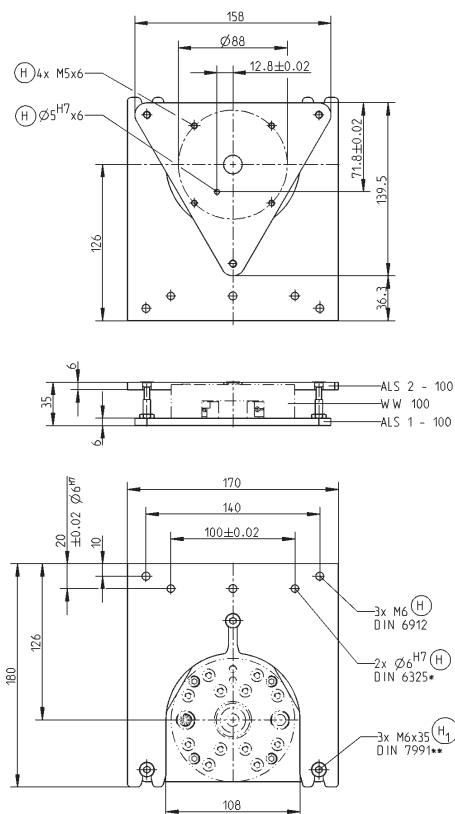
- (H) Fixing ALS
- (H) Screws included in the delivery ALS1-80

* replaced by DIN EN ISO 28734
** replaced by DIN EN ISO 10642

Order no.:
ALS1-80
ALS2-80
suitable for WW80

Subject to change without prior notice

ALS1-100
ALS2-100

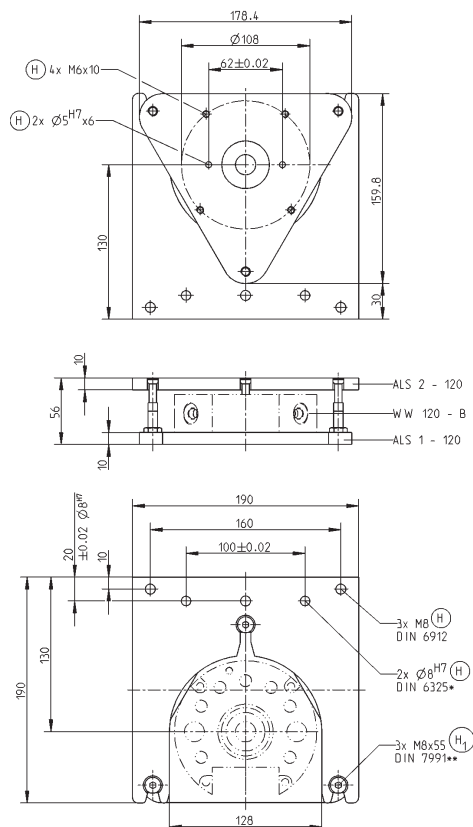


- (H) Fixing ALS
- (H) Screws included in the delivery ALS1-100

* replaced by DIN EN ISO 28734
** replaced by DIN EN ISO 10642

Order no.:
ALS1-100
ALS2-100
suitable for WW100

ALS1-120
ALS2-120



- (H) Fixing ALS
- (H) Screws included in the delivery ALS1-120

* replaced by DIN EN ISO 28734
** replaced by DIN EN ISO 10642

Order no.:
ALS1-120
ALS2-120
suitable for WW120-B



Tool Coupling

pneumatic



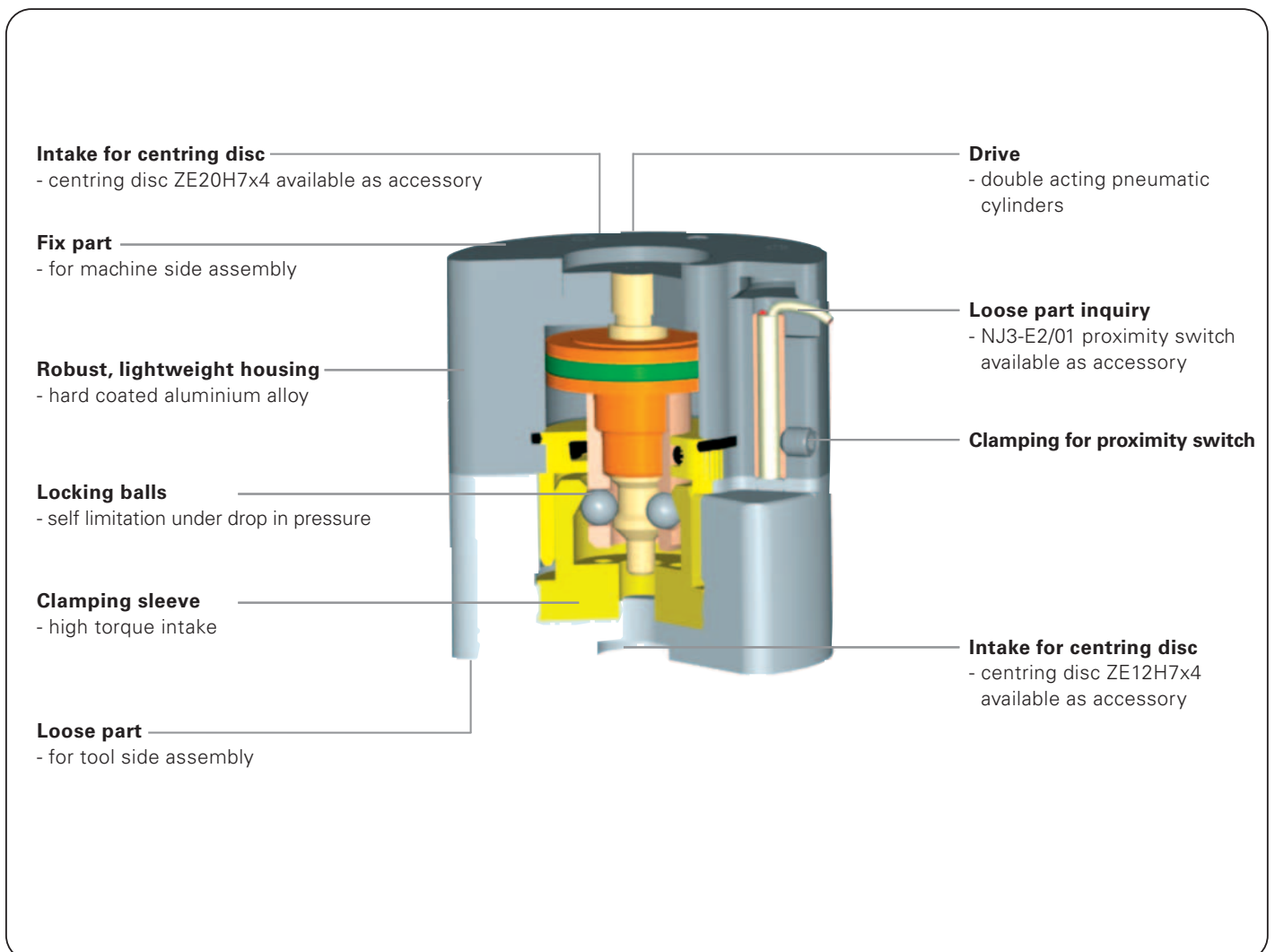
WK50

Tool Coupling

➤ Features

- Cost-effective tool coupling, without electrical transfer
- Self limitation under drop in pressure
- Adapter plate included in delivery

Functional diagram



Terms

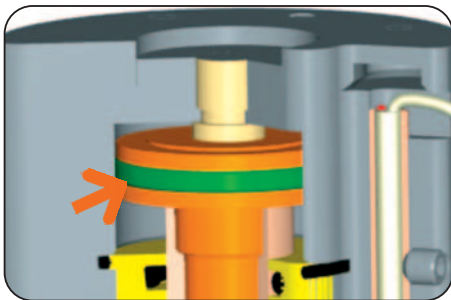
- Handling weight:** guide value, when dimensioning, the force and moment loads must be observed
- Locking stroke:** distance covered by the loose part during locking
- Cycle:** changing procedure
- Maintenance:** maintenance free bis 1 Mio. cycle
(please see the owner’s manual for conditions, download from www.sommer-automatic.com)
 - long maintenance intervals keep costs down
 - long durability

Model

- F:** Fix part, maschine side assembly
- L:** Loose part, tool side assembly

Order no.	Recomented Handlings weight* [kg]	Weight [g]
WK50F	4	240
WK50L	-	170

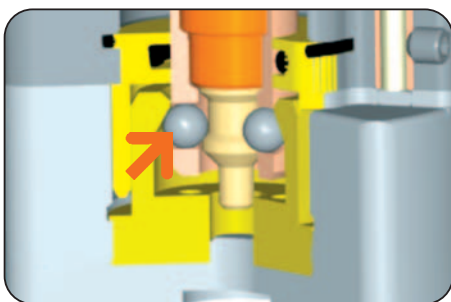
* Moment loads must be observed!



Locking drive

double acting pneumatic cylinder

- Process safe
- Safeguarded locking force under drop in pressure via mechanical self limitation



Locking mechanics

possitive connection via locking balls

- High force and torque intake
- Self limitation under drop in pressure



Machine connection

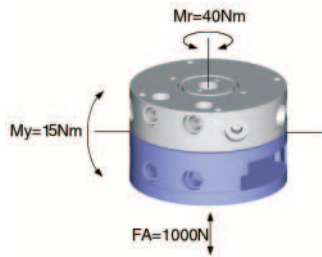
via adapter plate supplied

- Simple and cost-effective connection to design
- Centring discs available as accessory

Tool Coupling

Forces and Moments

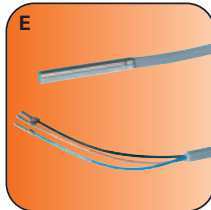
Max allowable static forces and moments



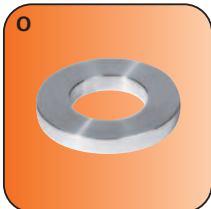
Accessory list



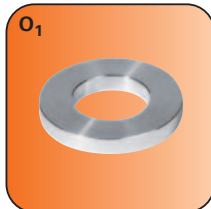
Pneumatic fittings
Order no. GVM5



Proximity switch
Order no. NJ3-E2-01



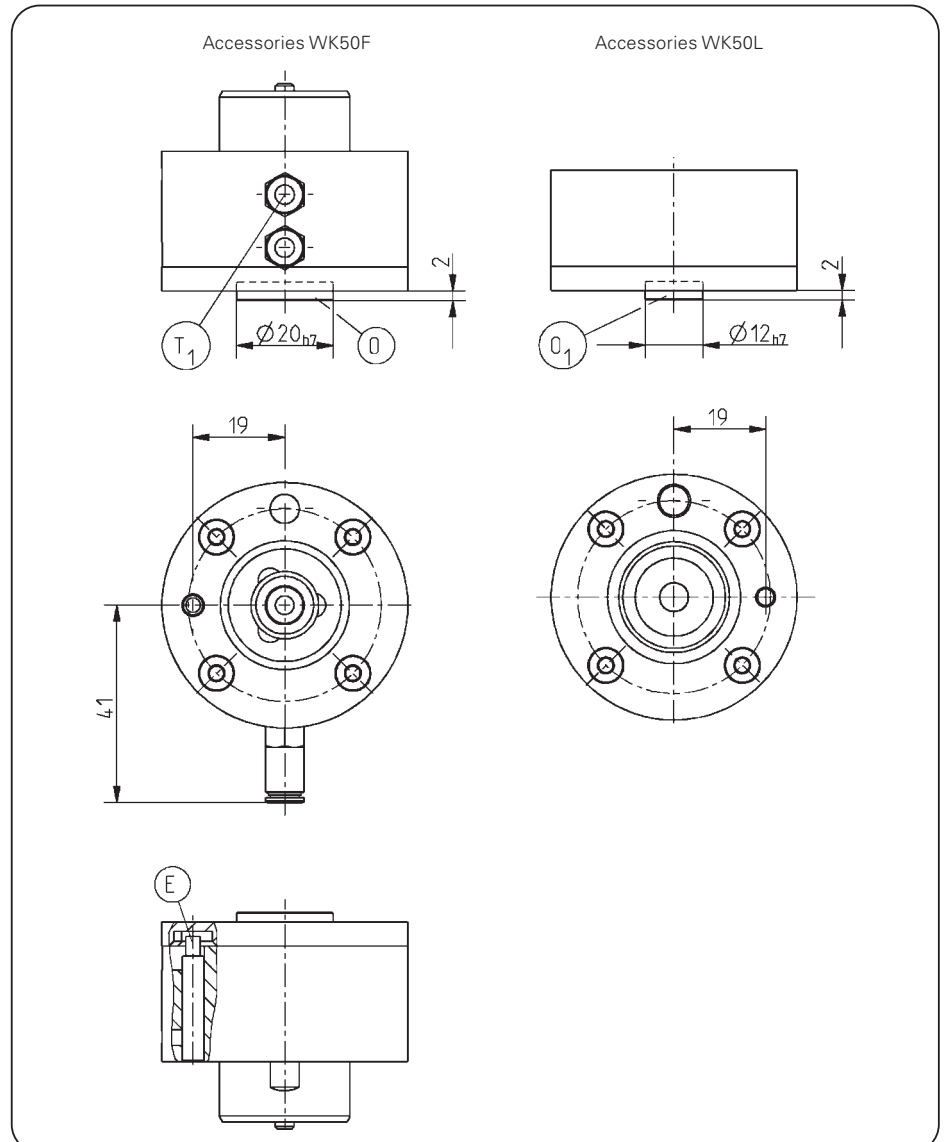
Centring disc
Order no. ZE20H7x4



Centring disc
Order no. ZE12H7x4



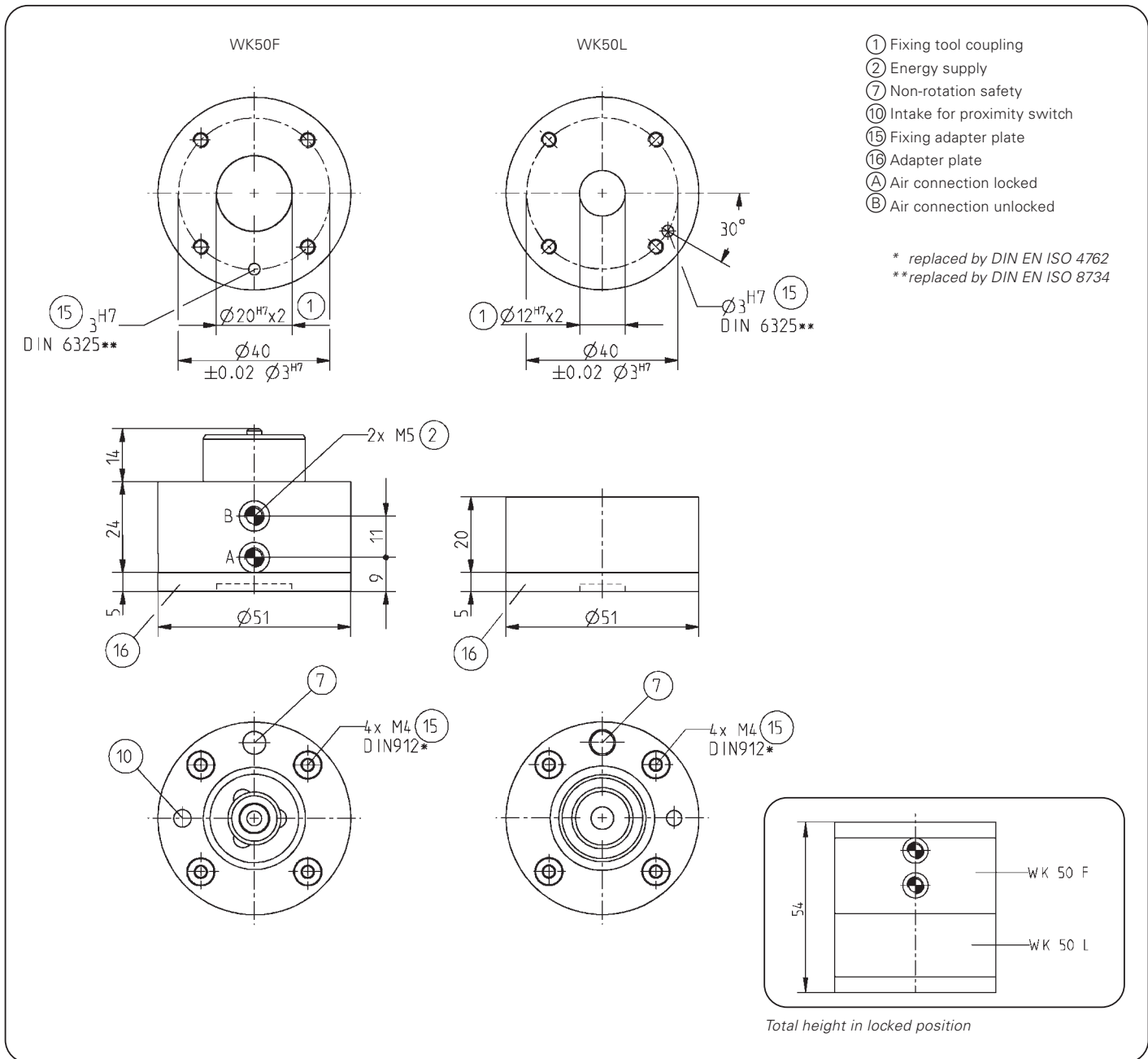
Plug 3-pole
Order no. S12-G-3



Subject to change without prior notice

Order no.:	WK50F	WK50L
Locking stroke [mm]*:	4	-
Recommended handling weight [kg]**:	10	-
Self limitation when locking:	mech.	mech.
Min./max. operating pressure [bar]:	4/8	-
Repeatability +/- [mm]:	0,02	0,02
Min./max. operating temperature [°C]:	5/80	5/80
Weight [g]:	240	170

All data measured at 6 bar
 * at max. deviation of 1.5 mm
 ** Moment loads must be observed!



Subject to change without prior notice



Manuel Changer



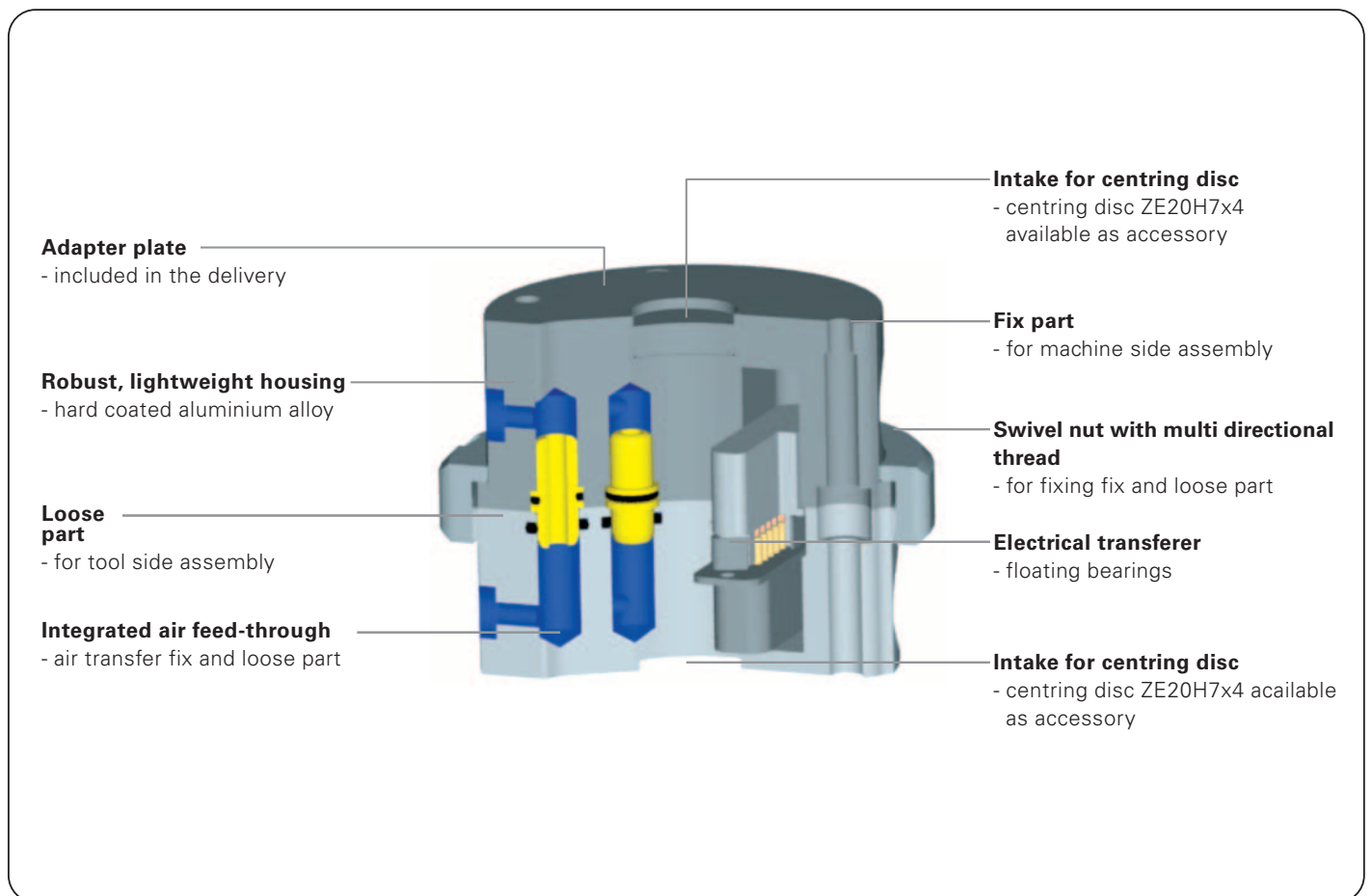
HW80

Manuel Changer

Features

- Easy handling
- Adapter plate included in delivery
- Mass-produced, integrated power and air connection

Functional diagram



Terms

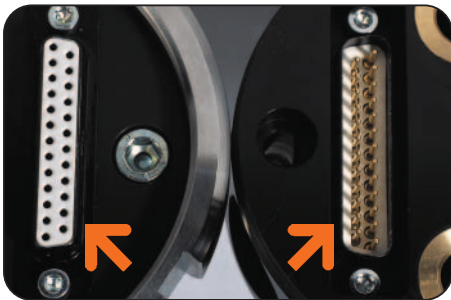
- Handling weight:** guide value, when dimensioning, the force and moment loads must be observed
- Locking stroke:** distance covered by the loose part during locking
- Cycle:** changing procedure
- Maintenance:** maintenance free

Model

- F:** Fix part, maschine side assembly
- L:** Loose part, tool side assembly

Order no.	Recomended Handlings weight* [kg]	Weight [g]
HW80F	100	620
HW80L	-	340

* Moment loads must be observed!



Electrical transfer

25 signals transferable in series

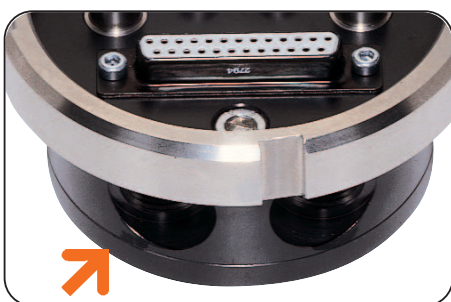
- Floating bearing sub D plug connector
- No additional interference contours, as integrated into housing



Air transfer

6 pneumatic feed-through

- Energy supply for application on the loose part
- Vacuum suitable



Machine connection

Fix part via adapter plate supplied

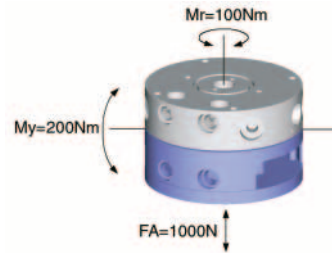
Loose part has direct screw on option

- Simple and cost-effective connection to design
- Centring discs available as accessories

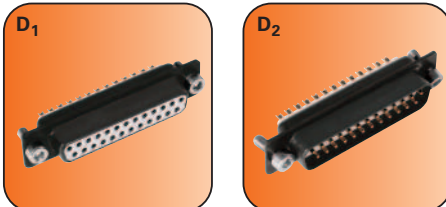
Manuel Changer

Forces and Moments

Max allowable static forces and moments



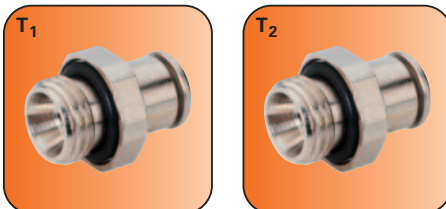
Included in the delivery



Sub-D plug connector
 25-pole
 Order no. CODUB00250

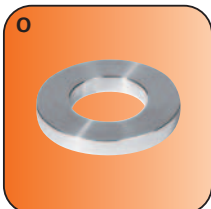
Sub-D plug connector
 25-pole
 Order no. CODUS00250

Accessory list

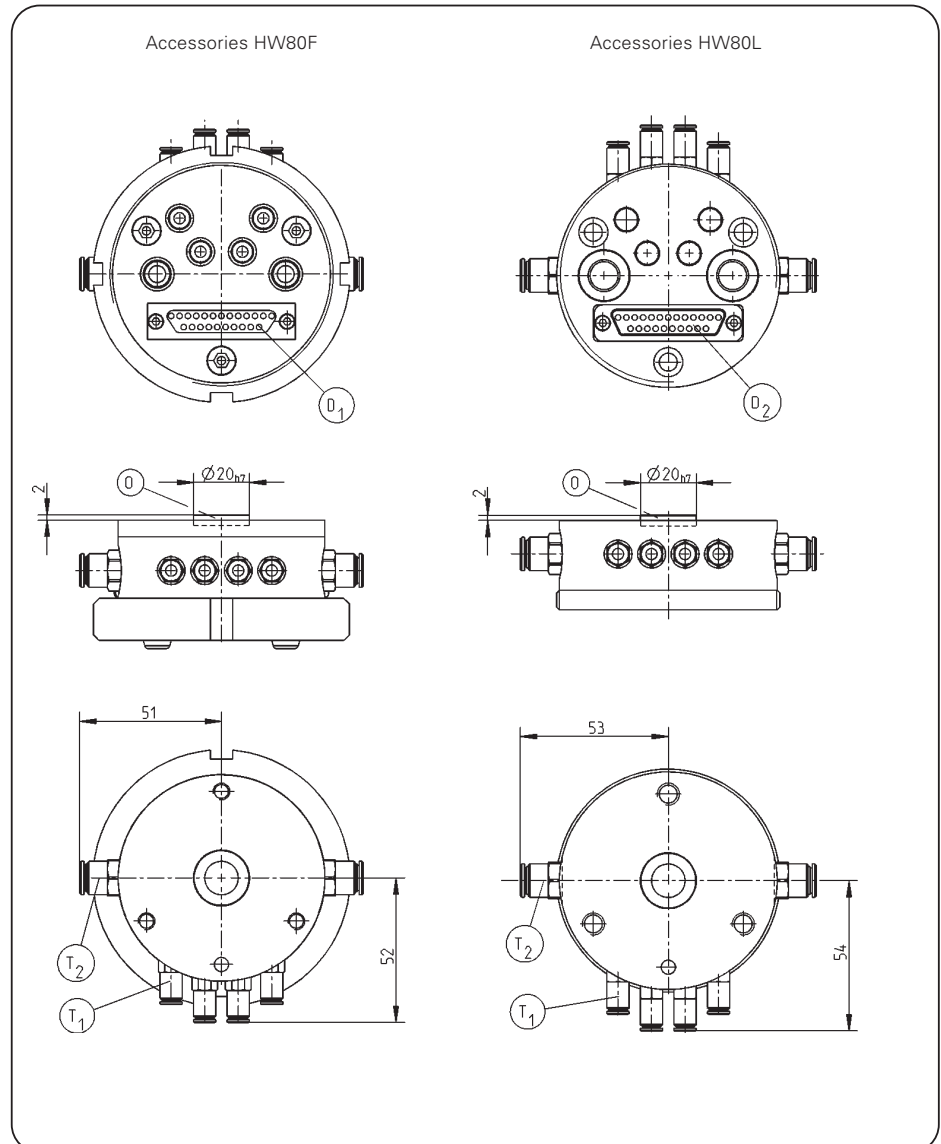


Pneumatic fittings
 Order no. GVM5

Pneumatic fittings
 Order no. GVM1/8x6



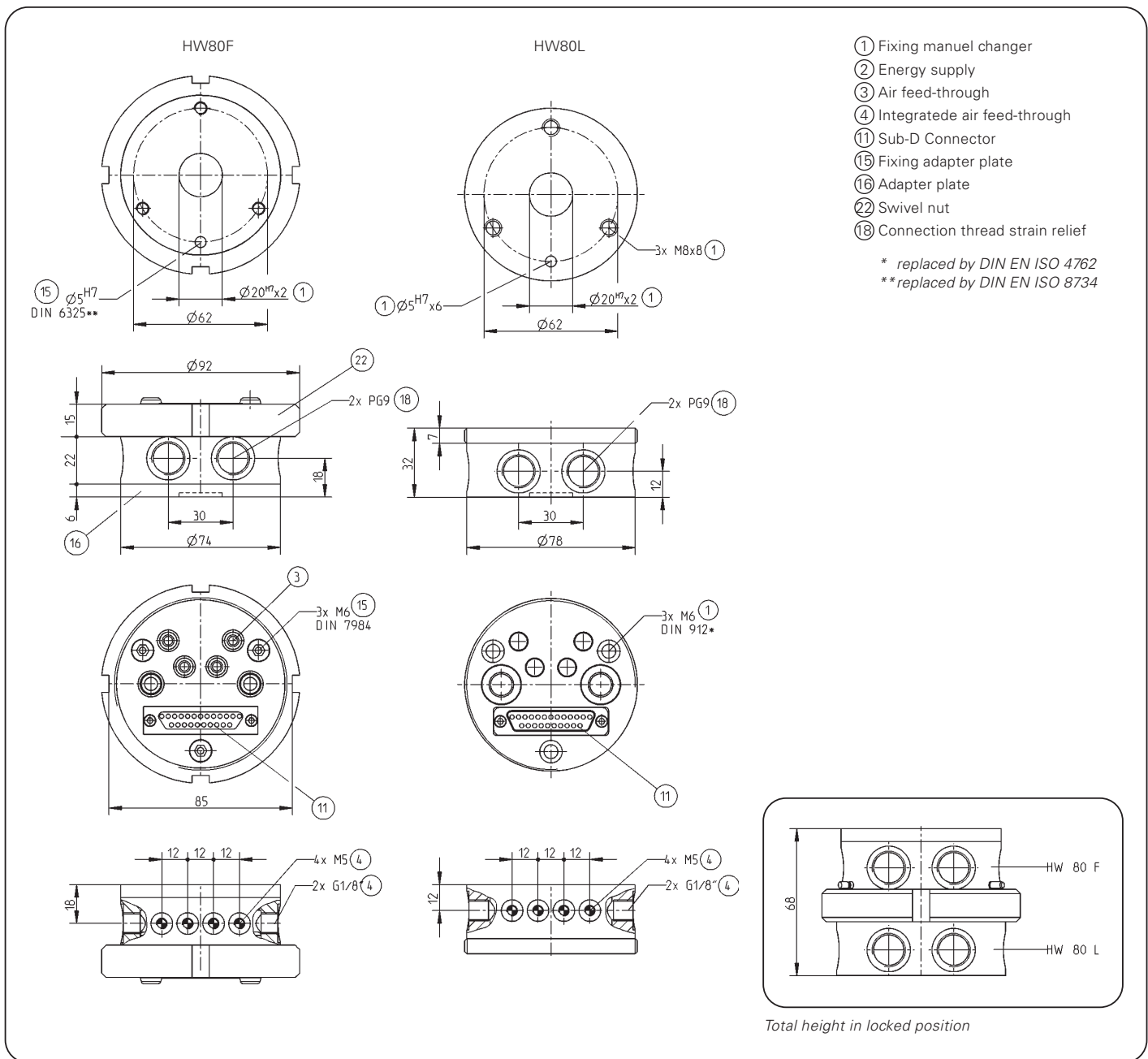
Centring disc
 Order no. ZE20H7x4



Subject to change without prior notice

Order no.:	HW80F	HW80L
Recommended handling weight [kg]*:	100	-
Electrical energy transfer 25 pole**:	1x	1x
Nominal current [A]:	5	
Operating voltage [V]:	60	
Pneumatic energy transfer M5 + 1/8" [quantity]:	4 + 2	4 + 2
Min./max. operating pressure [bar]:	4/8	-
Repeatability +/- [mm]:	0,02	0,02
Min./max. operating temperature [°C]:	5/80	5/80
Weight [g]:	620	340

* Moment loads must be observed!
 ** Included in the delivery



Subject to change without prior notice



➤ Grippers <i>pneumatic</i>	01
➤ Grippers <i>electrical</i>	02
➤ Grippers <i>hydraulic</i>	03
➤ Grippers <i>Special</i>	04
➤ Grip & Rotate Modules <i>pneumatic</i>	05
➤ Separators	06
➤ Swivel Units <i>pneumatic</i>	07
➤ Swivel Units <i>electrical</i>	08
➤ Swivel Units <i>hydraulic</i>	09
➤ Rotation Jaws <i>pneumatic</i>	10
➤ Axial Compensation Modules	11
➤ Tool Changers	12
➤ Robotics Accessories	13
➤ Linear Cylinders	14
➤ Shock Absorber	15
➤ Air Vane Motors	16
➤ Rotary Cylinders	17
➤ Vacuum Components	18