







DockLock

Zero-point clamping system

QUICK CHANGE-OVER SYSTEMS

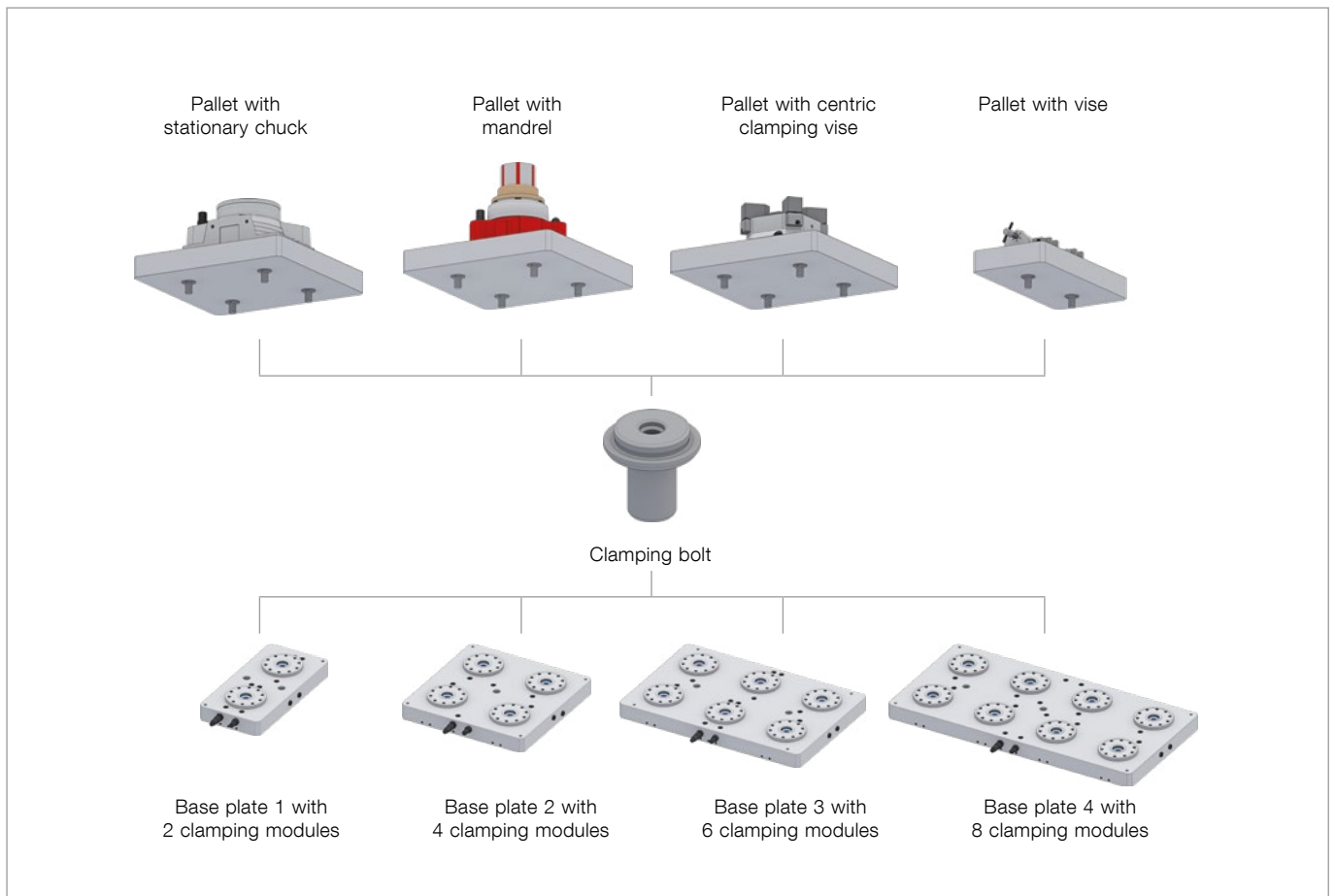
DockLock zero-point clamping system

DockLock types

	DockLock	DockLock AC
		
Applications	Manual clamping device change-over	Automated clamping device change-over
Sizes	20, 30, 50	20, 30
Actuation	Spring force	Spring force
Release	Hydraulic, pneumatic	Hydraulic, pneumatic
Draw-in forces of all sizes [kN]	12,5 – 30	9 – 20
Repeatability ≤ [mm]	0,005	0,005
Advantages	<ul style="list-style-type: none"> ■ Suitable for every application due to maximum draw-in and holding forces ■ Easy handling, since there is no jamming of the clamping bolts ■ Fast hydraulic or pneumatic release of clamping 	<ul style="list-style-type: none"> ■ Suitable for robot loading ■ Control and cleanliness concept ensures process-reliable removal of contamination ■ Suitable for every application due to maximum draw-in and holding forces ■ Easy handling, since there is no jamming of the clamping bolts
	 Page 6	 Page 18

QUICK CHANGE-OVER SYSTEMS
DockLock zero-point clamping system

DockLock – zero-point clamping system for stationary applications



- ➔ Use of the optimal clamping device for production at all times.
- ➔ Always manufacture the workpiece which is currently needed.
- ➔ The respective clamping device only has to be procured once.

QUICK CHANGE-OVER SYSTEMS

DockLock zero-point clamping system

Savings potentials

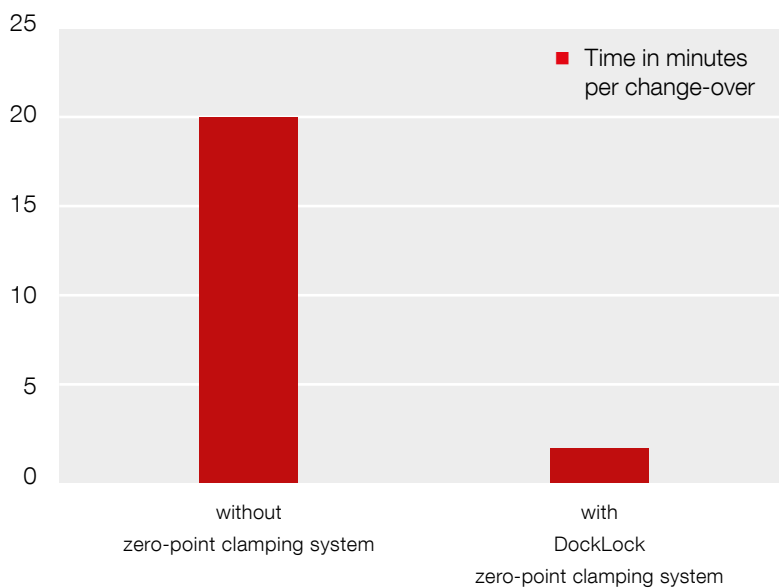
Initial conditions:

- 2x clamping device change-over / day
- Conventional clamping device change-over incl. alignment = 20 minutes
- Clamping device change-over with DockLock = 2 minutes
- Hourly rate including machine: 80.- EUR

Clamping device change-over	Costs per month	Costs per year	Savings per year*
without zero-point clamping system	1,120.- EUR [40 min. x 21 workdays]	13,440.- EUR [1,120 EUR x 12 months]	-
with DockLock zero-point clamping system	112.- EUR [4 min. x 21 workdays]	1,344.- EUR [112 EUR x 12 months]	12,096.- EUR + 151 additional work hours [> 18 shifts]

* Based on 2 clamping device change-overs per day. The more the change-overs the greater the savings!



Comparison







QUICK CHANGE-OVER SYSTEMS

DockLock zero-point clamping system

Selecting the right DockLock zero-point clamping system

Do you require automated set-up of your machine tool by a robot?	
Yes	No
 <p>DockLock AC Page 18</p>	 <p>DockLock Page 6</p>

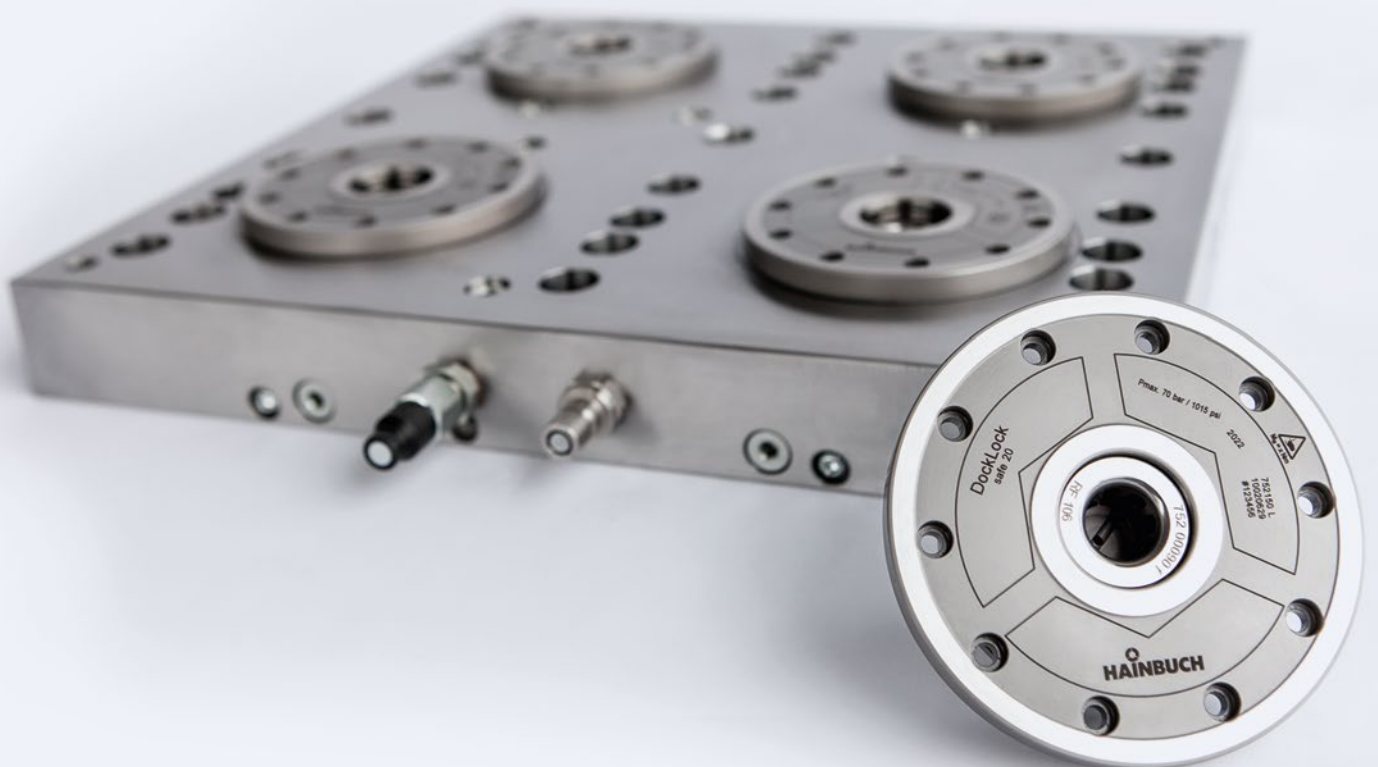
Which medium should be used to release the zero-point clamping system [spring actuation]?			
Hydraulic		Pneumatic	
 <p>safe Page 8</p>	 <p>autosafe Page 20</p>	 <p>airline Page 8</p>	 <p>autoairline Page 20</p>

Is the zero-point clamping system to be flush mounted in the machine, set-up or measuring table, etc.?			
Yes		No	
 <p>Built-in cylinder</p>	 <p>Flanged cylinder</p>	 <p>Built-up cylinder</p>	 <p>Base plate</p>

What is the required draw-in force for each zero-point clamping module?		
12.5 kN	20 kN	30 kN
Size 20	Size 30	Size 50

DOCKLOCK ZERO-POINT CLAMPING SYSTEM
DockLock

DockLock



Are you tired of losing so much time due to change-over on your machining center? Then we have something for you. The DockLock zero-point clamping system in the hydraulic or pneumatic version. One clamping device quick change-over system for stationary applications. It allows you to change your clamping devices in two minutes. And with repeatability of ≤ 0.005 mm, without alignment.

A special feature: form fit clamping with a collet or clamping segments. That means a rigid clamping set-up and higher repeatability. This also prevents clamping marks on the clamping bolt as opposed to zero-point clamping systems with balls or sliders, which lead to inaccuracies and consequently to replacement of the clamping bolts. Likewise, no contamination and chips can get through, which ensures low-wear operation and reduces maintenance expenses.

DockLock – the time-proven zero-point clamping system for high machine utilization.

Key advantages

- Suitable for every application due to maximum draw-in and holding forces
- Easy handling, since there is no jamming of the clamping bolts
- Fast hydraulic or pneumatic release of clamping
- Repeatability ≤ 0.005 mm, without alignment



Your benefits

- Enormous reduction in clamping device change-over times
- Higher machine availability due to external set-up
- Job-oriented manufacturing
- Shorter machine downtimes
- Shorter piece rates and throughput times

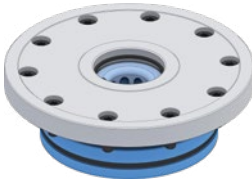



DOCKLOCK ZERO-POINT CLAMPING SYSTEM

DockLock

DockLock types

	safe	airline
		
Description	Zero-point clamping system, hydraulically actuated	Zero-point clamping system, pneumatically actuated
Sizes	20, 30, 50	20
Product variants	Built-in cylinder Flanged cylinder Built-up cylinder Base plates	Flanged cylinder Base plates
Draw-in force per clamping module [kN]	12,5 – 30	12,5
Clamping element	Collet	Clamping segments
Advantages	<ul style="list-style-type: none"> ■ High draw-in forces in a compact design ■ Disc spring clamping creates a vibration-dampening effect ■ All that is needed to generate the release force is a standard hydraulic unit 	<ul style="list-style-type: none"> ■ Process-reliable draw-in and holding forces due to pneumatic re-clamping with turbo function ■ Release force is generated by the machine's compressed air supply ■ Easy implementation in an existing machine, since no separate media supply has to be installed

DockLock clamping module types

	Built-in cylinder	Flanged cylinders	Built-up cylinder	Base plates
				
Description	For installation in base plates	For installation in machine tables	For installation on machine, set-up or measuring tables	Plate with integrated clamping modules
Sizes	20	20, 30, 50	20, 30, 50	20
Release	Hydraulic	Hydraulic, pneumatic	Hydraulic	Hydraulic, pneumatic
Draw-in force per clamping module [kN]	12,5	12,5 – 30	12,5 – 30	12,5
Advantages	<ul style="list-style-type: none"> ■ Low installation depth ■ Easy integration in diverse applications 	<ul style="list-style-type: none"> ■ Easy retrofitting is possible 	<ul style="list-style-type: none"> ■ No holes in the machine table are required ■ Easy retrofitting is possible 	<ul style="list-style-type: none"> ■ Entry level solution – easy to mount on the machine table ■ Available with 2, 4, 6 or 8 clamping modules

DockLock safe in detail

Designation				
<ol style="list-style-type: none"> 1 Clamping bolts for mounting on the plate / clamping device. Inclined raising of the plate is possible without damage to the clamping modules 2 Form fit clamping through collet 3 Maximum draw-in and holding force due to disc springs: mechanical clamping, hydraulic release 4 Central air-blast cleaning 5 Push-up function of the clamping bolt prevents damage to the centering bore 				
<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>	<p>5</p>

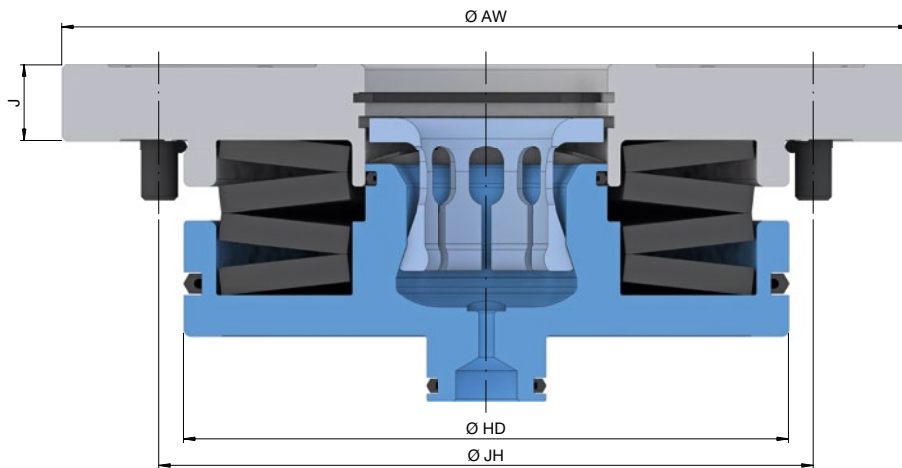
DockLock airline in detail

Designation					
<ol style="list-style-type: none"> 1 Clamping bolts for mounting on the plate / clamping device. Inclined raising of the plate is possible without damage to the clamping modules 2 3-face contact through clamping segments ensures self-locking clamping 3 Air sensing control is standard 4 Maximum draw-in and holding force due to a combination of springs and pneumatic re-clamping 5 Central air-blast cleaning 6 Form fit clamping with clamping segments 					
<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>	<p>5</p>	<p>6</p>




DOCKLOCK ZERO-POINT CLAMPING SYSTEM

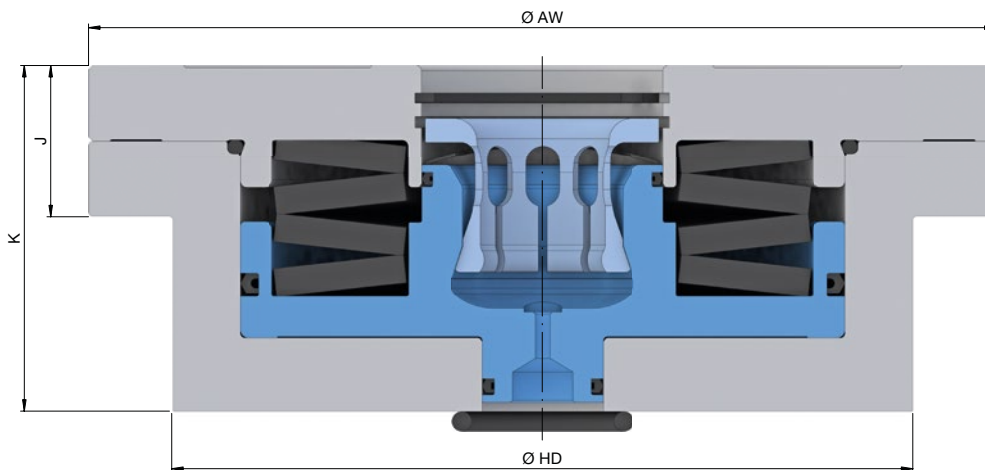
DockLock

DockLock safe built-in cylinder. Technical data





Size	20		
Min. draw-in force [kN]	12,5		
Min. holding power [kN]	40		
Repeatability ≤ [mm]	0,005		
Outer Ø [mm]	AW	112,3	
Outer Ø 2 [mm]	HD	80	
Height [mm]	J	10	
Bolt hole circle [mm]	JH	91	
Max. release pressure [bar]	70		
Bore depth for mounting [mm]	40		26 [-0,0
Release	Hydraulic		
Air-blast cleaning	Yes		No
Weight [kg]	1,7		1,6
In stock	✓		✓
Material no.	10020629		10020818

		
Clamping bolts	Pressure generator	Accessories
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DockLock safe flanged cylinder. Technical data

Size	20		30		50	
Min. draw-in force [kN]	12,5		16	20	30	
Min. holding power [kN]	40		50	60	90	
Repeatability ≤ [mm]			0,005			
Outer Ø [mm]	120		160		190	
Outer Ø 2 [mm]	98		124		154	
Overall height [mm]	K	45,7	39,7	47	65	74,5
Height [mm]	J	20		21	25	30
Max. release pressure [bar]			70			
Release	Hydraulic					
Air-blast cleaning	Yes	No		Yes		
Weight [kg]	1,8	2,8	3,3	3,6	8,1	
In stock	✓	✓	✓	✓	✓	
Material no.	10020628	10020817	10020644	10020643	10020646	

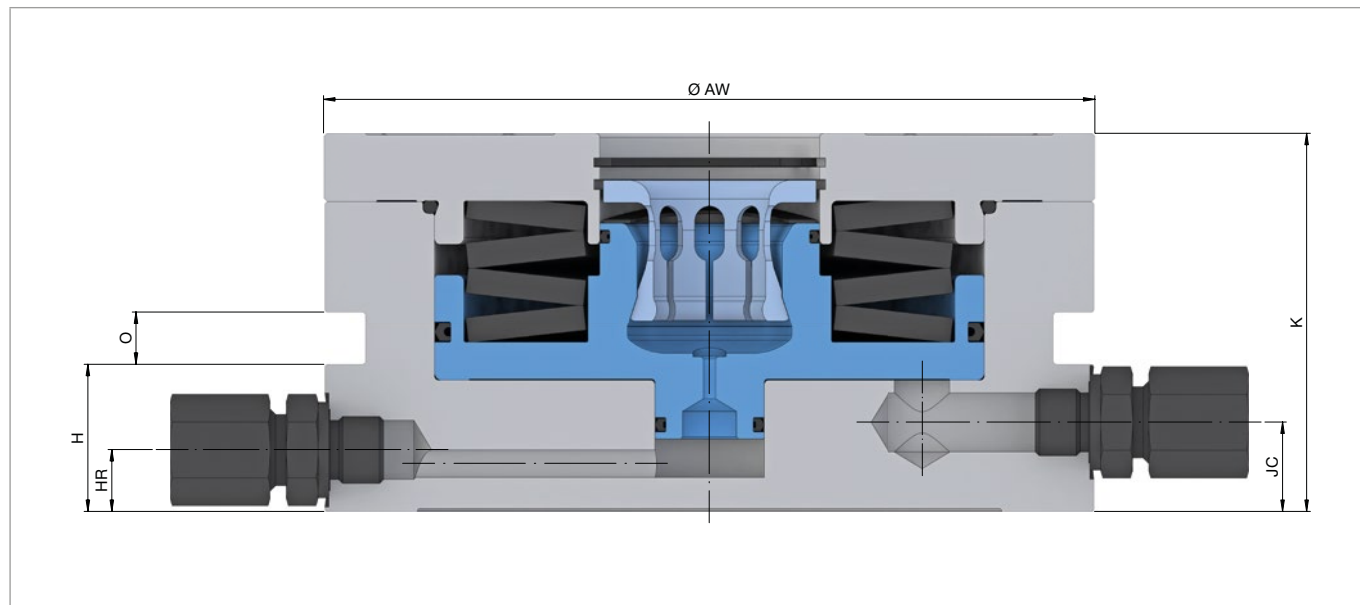


		
Clamping bolts	Pressure generator	Accessories
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DOCKLOCK ZERO-POINT CLAMPING SYSTEM

DockLock

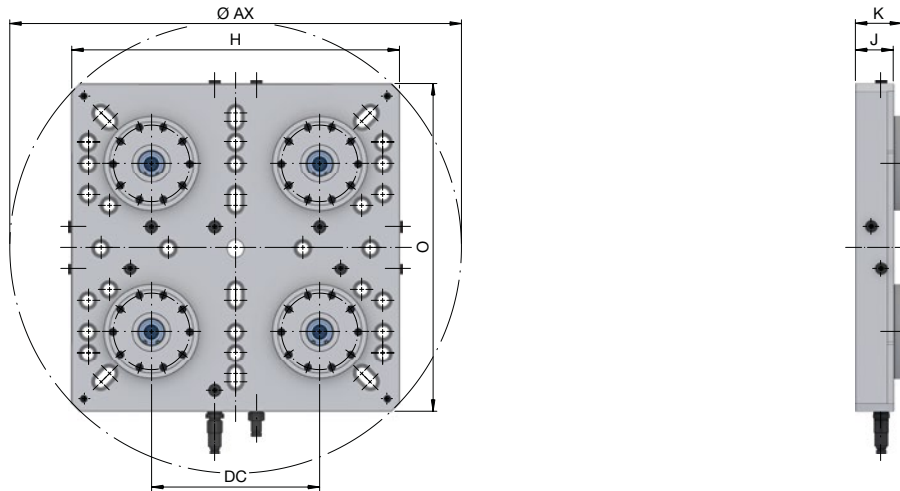
DockLock safe built-up cylinder. Technical data



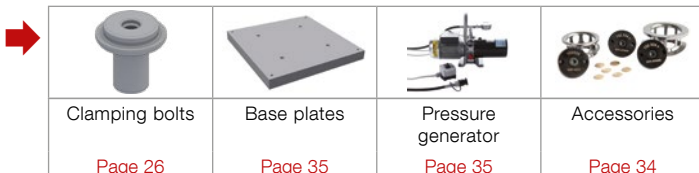
Size	20		30		50	
Min. draw-in force [kN]	12,5		20		30	
Min. holding power [kN]	40		60		90	
Repeatability ≤ [mm]			0,005			
Outer Ø [mm]	AW	112		160		190
Overall height [mm]	K	55	45	83		84,5
Length [mm]	H	21,4			28,5	
Length 2 [mm]	HR	9		12		11,5
Length 3 [mm]	JC	13		17,5		17
Width [mm]	O	7,6			12	
Connector size		G 1/8"			G 1/4"	
Max. release pressure [bar]		70				
Release		Hydraulic				
Air-blast cleaning	Yes		No		Yes	
Weight [kg]	3,9		3,1		3,5	8,2
In stock	✓		✓		✓	✓
Material no.	10020630		10020819		10020645	10020647

		
Clamping bolts	Pressure generator	Accessories
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DockLock safe base plates. Technical data



Size	20			
Min. draw-in force [kN]	25	50	75	100
Number of clamping positions	2	4	6	8
Min. holding power [kN]	80	160	240	320
Repeatability ≤ [mm]	0,005			
Length [mm]	H	396		
Width [mm]	O	196	396	596
Overall height [mm]	K	55		
Height [mm]	J	45		
Swing Ø	AX	445	560	716
Max. release pressure [bar]	70			
Release	Hydraulic			
Air-blast cleaning	Yes			
Linear dimensions of the clamping position [mm]	DC	200		
Weight [kg]	15,2	63,3	79,3	97,3
In stock	✓	✓	✓	✓
Material no.	10020631	10020632	10020633	10020634



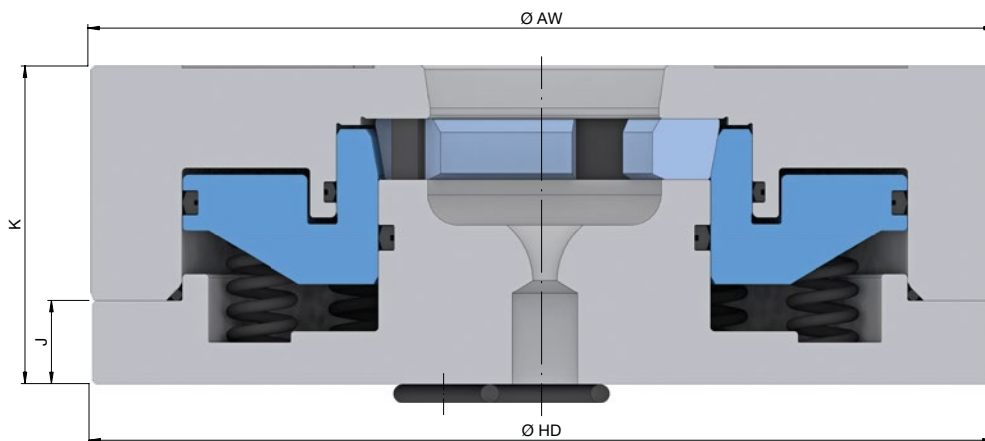
Scope of delivery

- Base plate
- Built-in cylinder
- Cover bolt

DOCKLOCK ZERO-POINT CLAMPING SYSTEM

DockLock

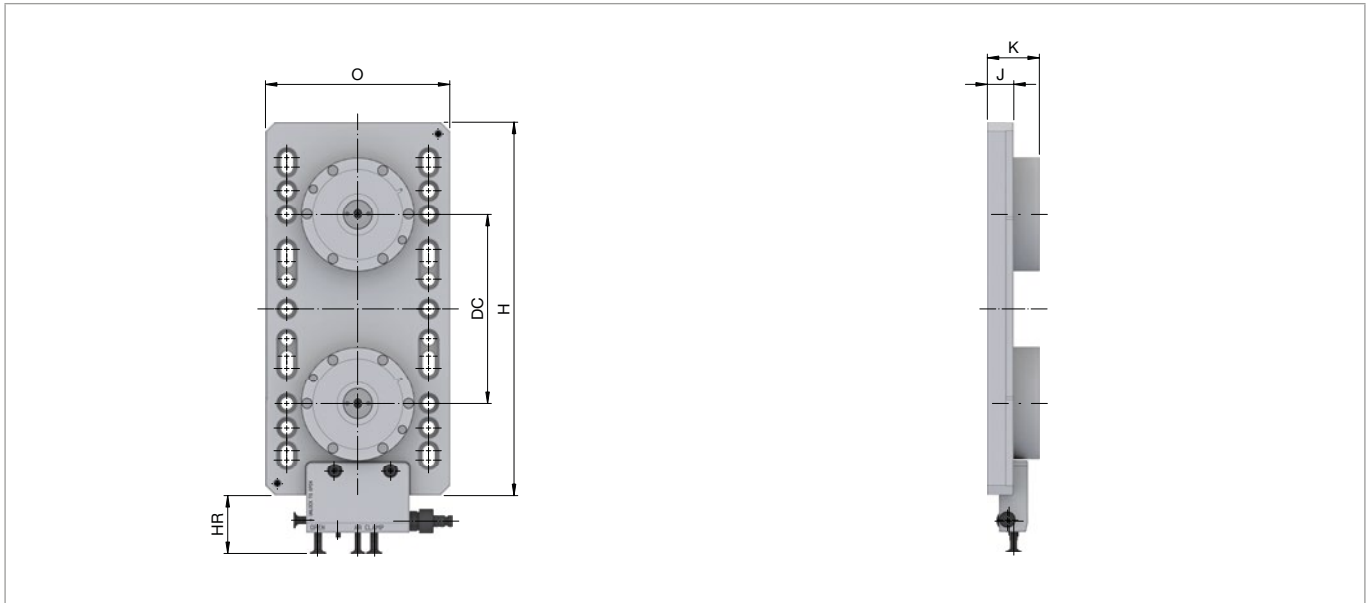
DockLock airline flanged cylinder. Technical data



Size		20
Min. draw-in force [kN]		12,5
Min. holding power [kN]		40
Repeatability ≤ [mm]		0,005
Outer Ø [mm]	AW	120
Outer Ø 2 [mm]	HD	119,7
Overall height [mm]	K	42
Height [mm]	J	11
Max. release pressure [bar]		12
Release		Pneumatic
Air-blast cleaning		Yes
Weight [kg]		3,7
In stock		✓
Material no.		10020648



DockLock airline base plates. Technical data



Size	20			
Min. draw-in force [kN]	25	50	75	100
Number of clamping positions	2	4	6	8
Min. holding power [kN]	80	160	240	320
Repeatability ≤ [mm]	0,005			
Length [mm]	H			
Length 2 [mm]	HR			
Width [mm]	O	195	395	595
Overall height [mm]	K	55		
Height [mm]	J	28		
Max. release pressure [bar]	12			
Release	Pneumatic			
Air-blast cleaning	Yes			
Linear dimensions of the clamping position [mm]	DC	200		
Weight [kg]	24,2	47,8	71,9	96,9
In stock	✓	✓	✓	✓
Material no.	10020649	10020650	10020651	10020652





Scope of delivery

- Base plate
- Built-in cylinder
- Cover bolt




DOCKLOCK ZERO-POINT CLAMPING SYSTEM

DockLock

Starter-sets

Product	Figure	Description	In stock	Material no.
DockLock safe		1x base plate safe 20 with 4 clamping modules with air-blast cleaning 4x clamping bolts safe 20 with centering function 4x clamping bolts safe 20 with compensating function 8x clamping bolts safe 20 without centering function	✓	10020906
DockLock airline		1x base plate airline 20 with 4 clamping modules with air-blast cleaning 4x clamping bolts airline 20 with centering function 4x clamping bolts airline 20 with compensating function 8x clamping bolts airline 20 without centering function	✓	10020907

Pallets or pressure generators can be ordered separately as needed.

		
	Base plates Page 35	Pressure generator Page 35

DOCKLOCK ZERO-POINT CLAMPING SYSTEM
DockLock

DockLock AC



You are short of personnel, but have to process your orders, preferably 24/7? Then the DockLock AC zero-point clamping system for automated fixture change-over, in either the hydraulic or pneumatic version, is perfect for you. The clamping device quick change-over system for stationary applications allows automated change-over of your clamping devices in two minutes. And with repeatability of ≤ 0.005 mm, without alignment.

The design of the form fit clamping and power transmission is identical to the DockLock for manual set-up. In addition, it is equipped with a closure at the clamping position as protection against contamination and chips. That ensures even less wear and reduces maintenance expenses. In addition, standard features include an air sensing control, air-blast support isles and a piston position control for a safe and reliable automated process.

DockLock AC – the zero-point clamping system for automated production.

Key advantages

- Suitable for robot loading
- Control and cleanliness concept ensures process-reliable removal of contamination
- Suitable for every application due to maximum draw-in and holding forces
- Easy handling, since there is no jamming of the clamping bolts
- Can also be used as a tool change interface for robots
- Repeatability ≤ 0.005 mm, without alignment


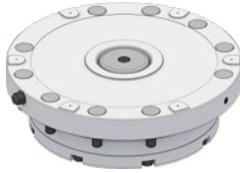
Your benefits

- High flexibility and long autonomous machine run times due to automated fixture change-over
- High machine availability due to unattended production
- Ensures reliable automation processes
- Less contamination thanks to protection at the clamping position
- Shorter piece rates and throughput times

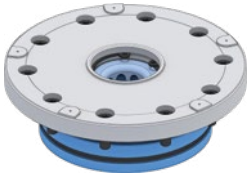


DOCKLOCK ZERO-POINT CLAMPING SYSTEM

DockLock AC

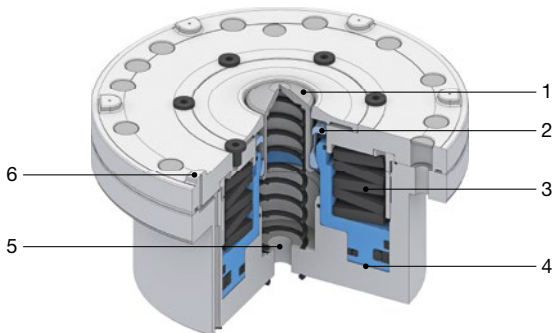
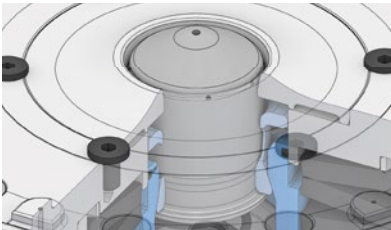
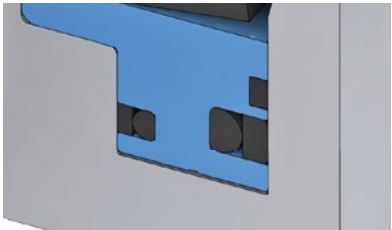
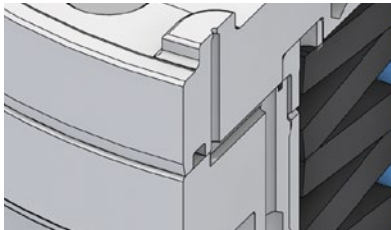
DockLock AC types

	autosafe	autoairline
		
Description	Zero-point clamping system for automation, hydraulically actuated	Zero-point clamping system for automation, pneumatically actuated
Sizes	20, 30	20
Product variants	Built-in cylinder Flanged cylinder Flanged cylinders with tapered center	Flanged cylinder
Draw-in force per clamping module [kN]	9 – 20	12,5
Clamping element	Collet	Clamping segments
Advantages	<ul style="list-style-type: none"> ■ High draw-in forces in a compact design ■ Disc spring clamping creates a vibration-dampening effect ■ All that is needed to generate the release force is a standard hydraulic unit 	<ul style="list-style-type: none"> ■ Process-reliable draw-in and holding forces due to pneumatic re-clamping with turbo function ■ Release force is generated by the machine's compressed air supply ■ Easy implementation in an existing machine, since no separate media supply has to be installed

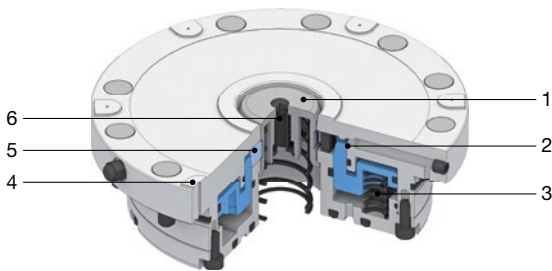
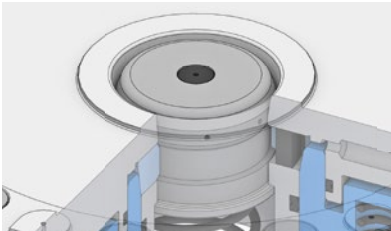
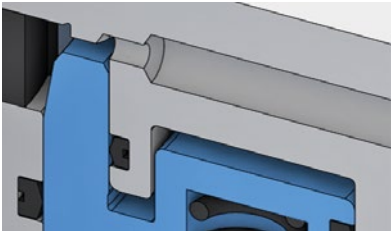
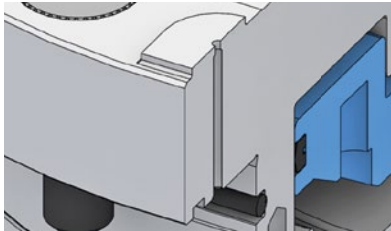
DockLock AC clamping module types

	Built-in cylinder	Flanged cylinders	Flanged cylinders with tapered center
			
Description	For installation in base plates	For installation in machine tables	For installation in machine tables
Sizes	20	20, 30	30
Release	Hydraulic	Hydraulic, pneumatic	Hydraulic
Draw-in force per clamping module [kN]	9	9 – 20	20
Advantages	<ul style="list-style-type: none"> ■ Low installation depth ■ Easy integration in diverse applications 	<ul style="list-style-type: none"> ■ Easy retrofitting is possible 	<ul style="list-style-type: none"> ■ Precentering of clamping bolts ■ Collets can be changed without removing the cover

DockLock AC autosafe in detail

Designation		
<ol style="list-style-type: none"> 1 Spring-loaded cap prevents penetration of chips 2 Form fit clamping through collet 3 Maximum draw-in and holding force due to disc springs: mechanical clamping, hydraulic release 4 Piston position control 5 Central air-blast cleaning 6 Air-blast support isles with integrated air sensing control 		
 <p>1</p>	 <p>4</p>	 <p>6</p>

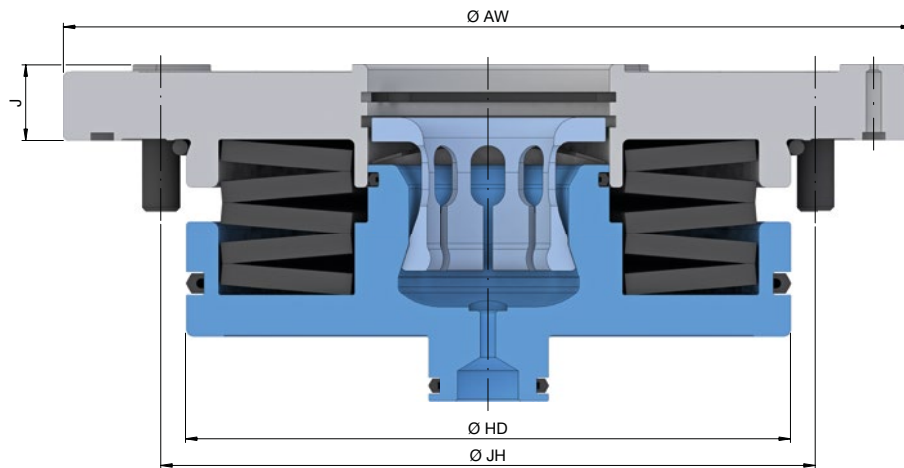
DockLock AC autoairline im Detail

Designation		
<ol style="list-style-type: none"> 1 Spring-loaded cap prevents penetration of chips 2 Piston position control 3 Maximum draw-in and holding force due to a combination of springs and pneumatic re-clamping 4 Air-blast support isles with integrated air sensing control 5 3-face contact through clamping segments ensures self-locking form fit clamping 6 Central air-blast cleaning 		
 <p>1</p>	 <p>2</p>	 <p>4</p>




DOCKLOCK ZERO-POINT CLAMPING SYSTEM

DockLock AC

DockLock AC autosafe built-in cylinder. Technical data



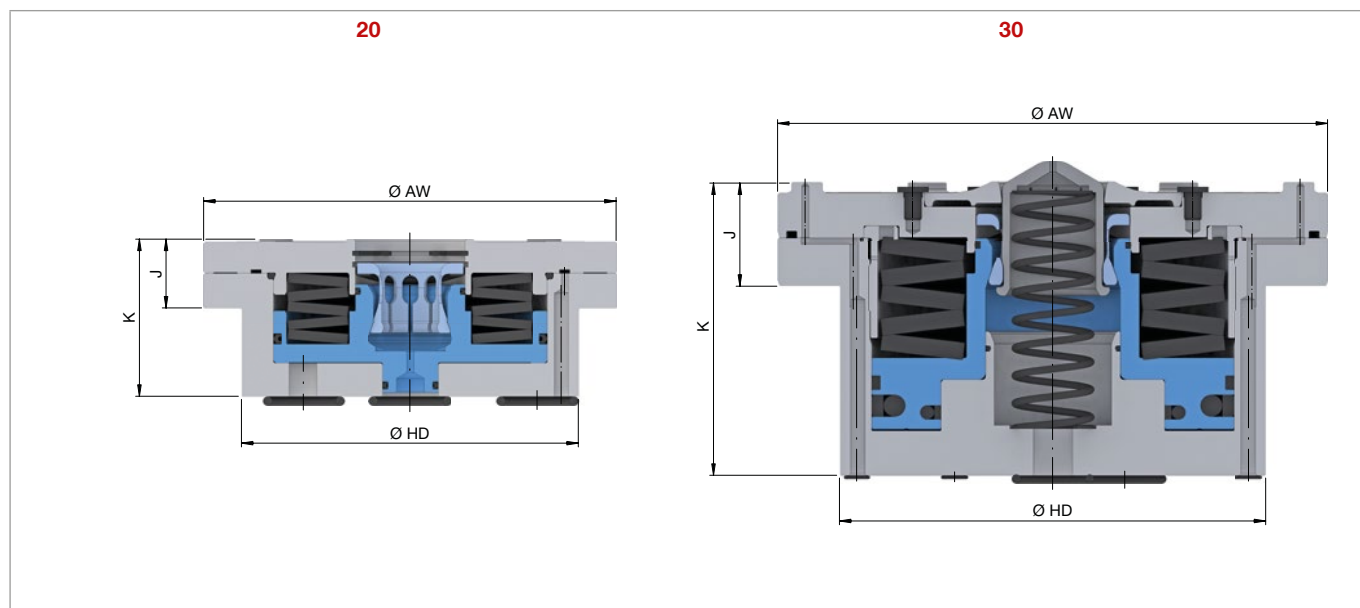
Size		20
Min. draw-in force [kN]		9
Min. holding power [kN]		40
Repeatability ≤ [mm]		0,005
Outer Ø [mm]	AW	112,3
Outer Ø 2 [mm]	HD	80
Height [mm]	J	10
Bolt hole circle [mm]	JH	91
Max. release pressure [bar]		70
Bore depth for mounting [mm]		40
Release		Hydraulic
Air-blast cleaning		Yes
Air-blast support isles		Yes
Piston position control		Yes
Air sensing control		Yes
Weight [kg]		1,6
In stock		✓
Material no.		10020662

		
Clamping bolts	Pressure generator	Accessories
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DOCKLOCK ZERO-POINT CLAMPING SYSTEM

DockLock AC

DockLock AC autosafe flanged cylinder. Technical data



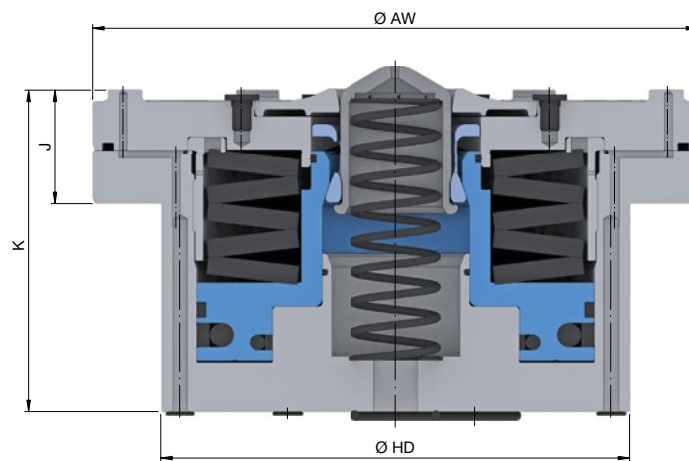
Size		20	30
Min. draw-in force [kN]		9	20
Min. holding power [kN]		40	60
Repeatability ≤ [mm]		0,005	
Outer Ø [mm]	AW	120	160
Outer Ø 2 [mm]	HD	98	124
Overall height [mm]	K	45,7	85
Height [mm]	J	20	25
Max. release pressure [bar]		70	95
Release		Hydraulic	
Air-blast cleaning		Yes	
Air-blast support isles		Yes	
Piston position control		Yes	
Air sensing control		Yes	
Weight [kg]		2,3	4,7
In stock		✓	✓
Material no.		10020661	10020666

		
Clamping bolts	Pressure generator	Accessories
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DOCKLOCK ZERO-POINT CLAMPING SYSTEM

DockLock AC

DockLock AC autosafe flanged cylinder with tapered center. Technical data



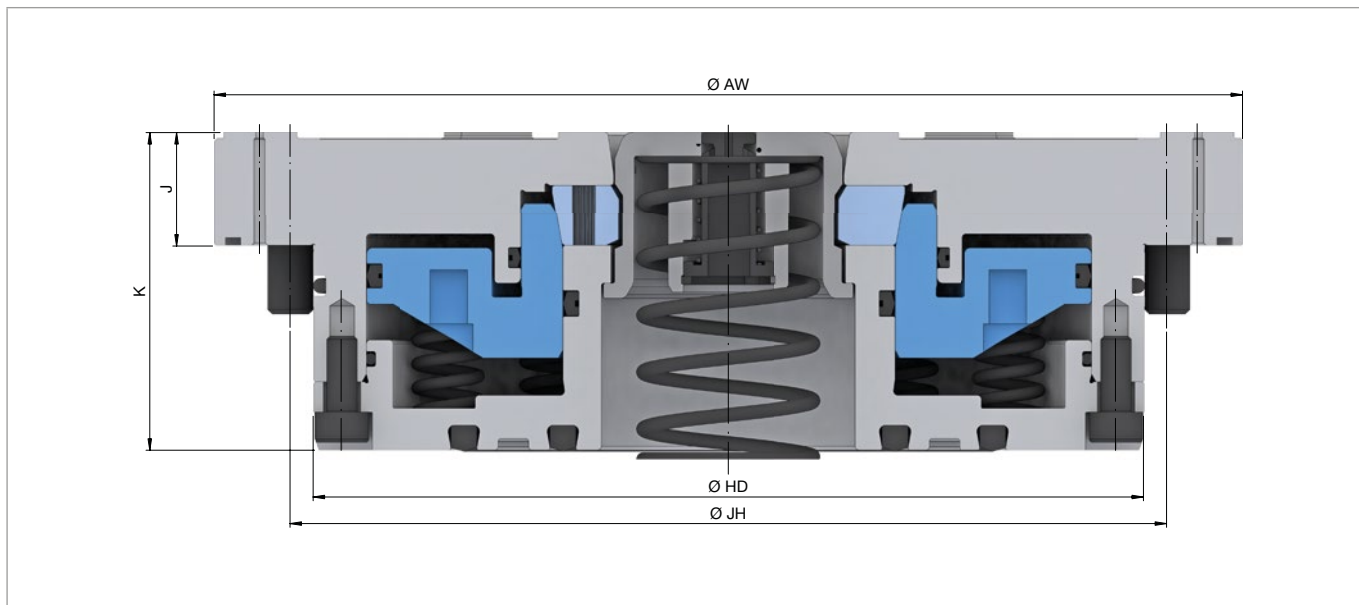
Size	30		
Min. draw-in force [kN]	20		
Type	C	B	N
Min. holding power [kN]	60		
Repeatability ≤ [mm]	0,005		
Outer Ø [mm]	AW	160	
Outer Ø 2 [mm]	HD	124	
Overall height [mm]	K	82	
Height [mm]	J	30	
Max. release pressure [bar]	95		
Release	Hydraulic		
Air-blast cleaning	Yes		
Air-blast support isles	Yes		
Air sensing control	Yes		
Piston position control	Yes		
Compensation function	No	Yes	No
Centering function	Yes	No	No
Weight [kg]	6,2	6,3	6,2
In stock	✓	✓	✓
Material no.	10020663	10020664	10020665

		
Clamping bolts	Pressure generator	Accessories
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DOCKLOCK ZERO-POINT CLAMPING SYSTEM

DockLock AC

DockLock AC autoairline flanged cylinder. Technical data



Size		20
Min. draw-in force [kN]		12,5
Min. holding power [kN]		40
Repeatability ≤ [mm]		0,005
Outer Ø [mm]	AW	136
Outer Ø 2 [mm]	HD	110
Overall height [mm]	K	42
Height [mm]	J	15
Bolt hole circle [mm]	JH	120
Max. release pressure [bar]		12
Release		Pneumatic
Air-blast cleaning		Yes
Air-blast support isles		Yes
Piston position control		Yes
Air sensing control		Yes
Weight [kg]		3,5
In stock		✓
Material no.		10020667

➔

	
Clamping bolts Page 26	Accessories Page 34

Clamping bolts



The clamping bolts are an important component of the DockLock system; they create the connection between the clamping module and the changing part. They are universal and can be inserted in the pallet, the clamping device or directly in the workpiece. Centering clamping bolts feature a high-precision collar for alignment in the clamping position of the clamping module. That ensures repeatability of ≤ 0.005 mm.

Form fit clamping of the collet or the clamping segments prevents clamping marks on the clamping bolts. Such marks would result in inaccuracies and consequently to replacement of the clamping bolts. The clamping bolts are available in three versions: centering clamping bolts, compensating clamping bolts, and clamping bolts without centering function.

Key advantages

- Clamping bolts are screwed into the pallet, the clamping device or directly into the workpiece
- Long service life due to form fit clamping in the collet or in the clamping segments
- Centering clamping bolts ensure high accuracy
- Compensating clamping bolts compensate offset in the X or Y axis
- Clamping bolts without centering function increase the clamping force

Your benefits

- High repeatability
- Inexpensive
- Universally applicable
- Long service life

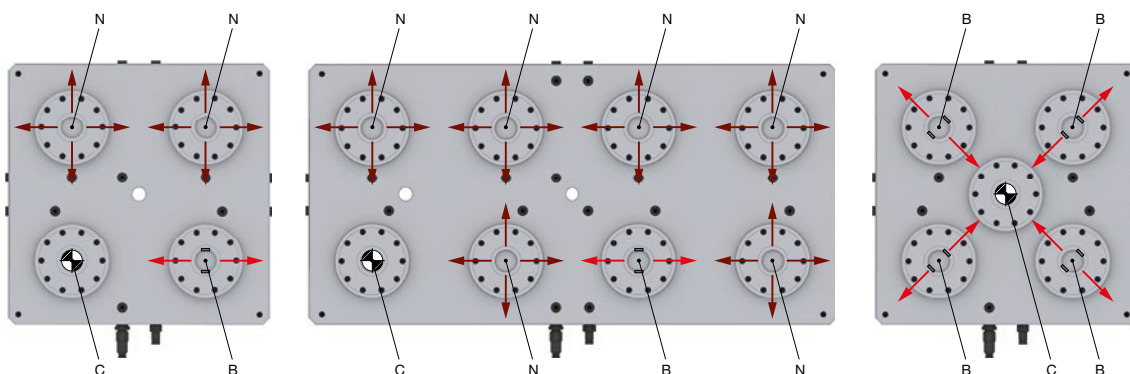
Recommended layout of clamping bolts for maximum precision

Designation

Type C Centering clamping bolt [defines the zero point]

Type B Compensating clamping bolt [positions the plate in the X or Y axis]

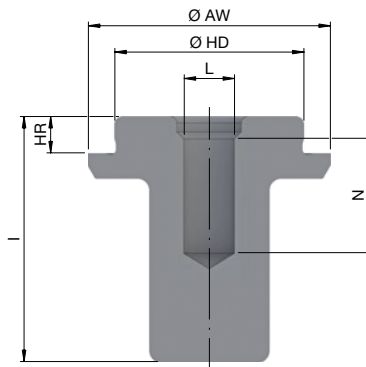
Type N Clamping bolt without centering function [for additional clamping force]



DOCKLOCK ZERO-POINT CLAMPING SYSTEM

Clamping bolts

Clamping bolt size 20 safe / autosafe. Technical data

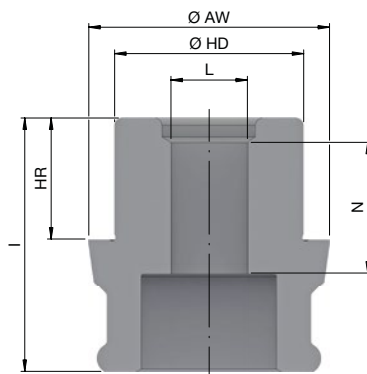


Size	20									
Total length [mm]	32,45					46,65				
Type	C		B		N	C		B		N
Compensation function	No		Yes			No		Yes		No
Centering function	Yes		No			Yes		No		
Suitable for air blast cleaning	No		Yes			No		Yes		
Length 2 [mm]	HR	4,8					19			
Outer Ø [mm]	AW	32				30	32			30
Outer Ø 2 [mm]	HD					25				
Thread size [M]	L					8				
Thread length [mm]	N					15				
Two-Part	No		Yes			No				
Weight [kg]						0,1				
In stock	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Material no.	10020674	10020676	10020680	10020820	10020678	10020673	10020675	10020679	10020677	

DOCKLOCK ZERO-POINT CLAMPING SYSTEM

Clamping bolts

Clamping bolt size 20 airline / autoairline. Technical data

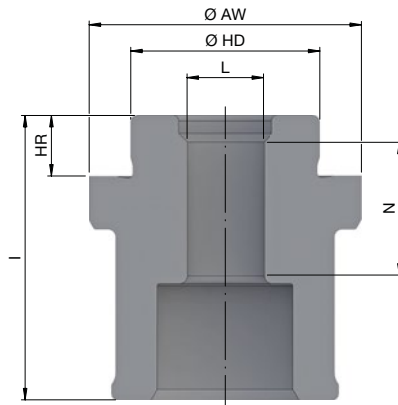


Size	20					
Total length [mm]	22,3			33,5		
Type	C	B	N	C	B	N
Compensation function	No	Yes	No	No	Yes	No
Centering function	Yes	No	No	Yes	No	No
Suitable for air blast cleaning	No			Yes		
Length 2 [mm]	HR	4,8		16		
Outer Ø [mm]	AW	32	30	32	16	30
Outer Ø 2 [mm]	HD	25				
Thread size [M]	L	12				
Thread length [mm]	N	12,5		17,3		
Two-Part				No		
Weight [kg]				0,1		
In stock	✓	✓	✓	✓	✓	✓
Material no.	10020691	10020693	10020692	10020688	10020690	10020689

DOCKLOCK ZERO-POINT CLAMPING SYSTEM

Clamping bolts

Clamping bolt size 30 safe. Technical data

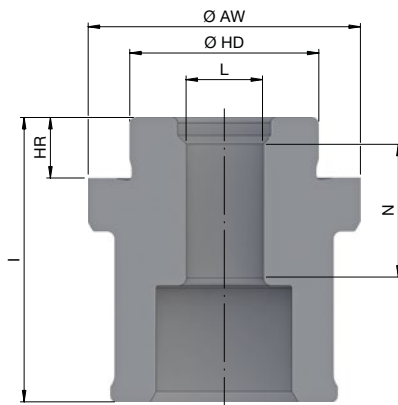


Size	30		
Total length [mm]	I	37,6	
Type	C	B	N
Compensation function	No	Yes	No
Centering function	Yes	No	
Suitable for air blast cleaning	Yes		
Length 2 [mm]	HR	8	
Outer Ø [mm]	AW	36	34,5
Outer Ø 2 [mm]	HD	25	
Thread size [M]	L	12	
Thread length [mm]	N	18	
Two-Part	No		
Weight [kg]	0,2		
In stock	✓	✓	✓
Material no.	10020682	10020684	10020683

DOCKLOCK ZERO-POINT CLAMPING SYSTEM

Clamping bolts

Clamping bolt size 30 autosafe. Technical data

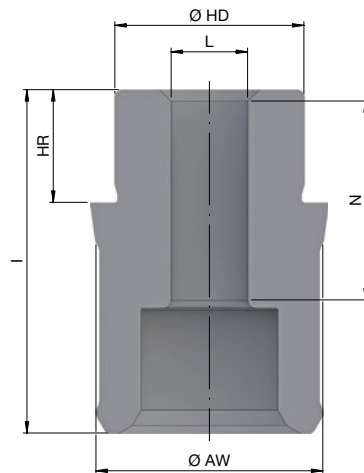


Size	30					
Total length [mm]	38,5			45,4		
Type	C	B	N	C	B	N
Compensation function	No	Yes	No	No	Yes	No
Centering function	Yes	No	Yes	Yes	No	No
Suitable for air blast cleaning	Yes			Yes		
Length 2 [mm]	HR	8		14,9		
Outer Ø [mm]	AW	30	28,9	30	28,9	
Outer Ø 2 [mm]	HD	25			25	
Thread size [M]	L	12			12	
Thread length [mm]	N	18		25		
Two-Part	No			No		
Weight [kg]	0,2			0,2		
In stock	✓	✓	✓	✓	✓	✓
Material no.	10020764	10020767	10020765	10020695	10020697	10020696

DOCKLOCK ZERO-POINT CLAMPING SYSTEM

Clamping bolts

Clamping bolt size 30 autosafe tapered. Technical data

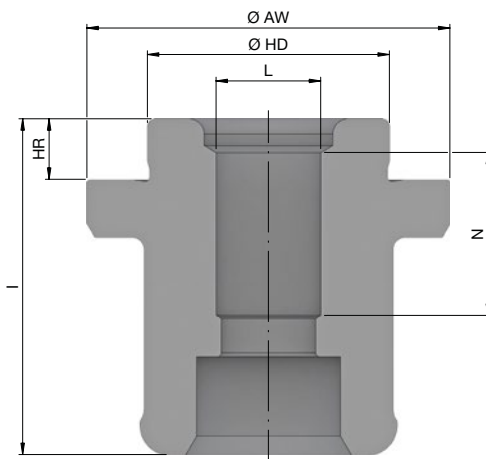


Size		30
Total length [mm]	I	45,4
Suitable for air blast cleaning		Yes
Length 2 [mm]	HR	14,9
Outer \varnothing [mm]	AW	30
Outer $\varnothing 2$ [mm]	HD	25
Thread size [M]	L	12
Thread length [mm]	N	25
Weight [kg]		0,2
In stock		✓
Material no.		10020694

DOCKLOCK ZERO-POINT CLAMPING SYSTEM

Clamping bolts

Clamping bolt size 50 safe. Technical data



Size	50		
Total length [mm]	I	44,4	
Type	C	B	N
Compensation function	No	Yes	No
Centering function	Yes	No	
Suitable for air blast cleaning	Yes		
Length 2 [mm]	HR	8	
Outer Ø [mm]	AW	48	46,5
Outer Ø 2 [mm]	HD	32	
Thread size [M]	L	16	
Thread length [mm]	N	21,5	
Two-Part	No		
Weight [kg]	0,3		
In stock	✓	✓	✓
Material no.	10020685	10020687	10020686

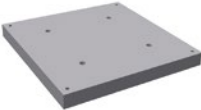
Accessories



DOCKLOCK ZERO-POINT CLAMPING SYSTEM


Accessories

Pallets for mounting of clamping devices

Suitable for	Figure	Number of clamping positions	Length [mm] H	Width [mm] O	Height [mm] J	Material	Weight [kg]	In stock	Material no.			
airline		2	395	195	40	Steel	24	✓	10020653			
					38	Aluminum	8,2	✓	10020654			
		4		395	40	Steel	48,5	✓	10020655			
					38	Aluminum	18	✓	10020656			
		6		595	45	Steel	82	✓	10020657			
					48	Aluminum	32	✓	10020658			
		8		795	45	Steel	110	✓	10020659			
					48	Aluminum	42	✓	10020660			
		safe			2	396	196	36	Steel	22	✓	10020635
								40	Aluminum	8,5	✓	10020636
4	396		36		Steel		44	✓	10020637			
			40		Aluminum		17,5	✓	10020638			
6	596		46		Steel		67	✓	10020639			
			50		Aluminum		33	✓	10020640			
8	796		46		Steel		113	✓	10020641			
			50		Aluminum		44	✓	10020642			

Clamping bolts are not included and must be ordered separately.

Pressure generator

Product	Figure	Description	Suitable for	In stock	Material no.
Hydraulic unit		Pressure generator with 2.3 l/min oil delivery rate and 65 bar / 950 psi outlet pressure, 110 V input voltage	safe autosafe	✓	10020745
		Pressure generator with 2.3 l/min oil delivery rate and 65 bar / 950 psi outlet pressure, 230 V input voltage		✓	10020744

DOCKLOCK ZERO-POINT CLAMPING SYSTEM

Accessories**Screws**

Product	Size	Description	Suitable for	Packaging unit	In stock	Material no.	
Cylindrical screw	20	M8x25 for mounting of the clamping bolt from above	safe autosafe	1	✓	10020715	
		M12x35 for mounting of the bracket	safe		✓	10020716	
	20/30	M5x12 with low head for support ring	autosafe	10	✓	10020699	
		M12x50 for mounting of the clamping bolt from above	safe autosafe airline autoairline	1	✓	10020701	
	30	M10x40 for mounting of the clamping bolt from below	safe autosafe		✓	10020700	
		M6x25 with low head for flange mounting			✓	10020702	
		M6x30 with low head for flange mounting		✓	10020703		
	30/50	M16x45 for mounting of the bracket	safe	2	✓	10020727	
	50	M8x30 with low head for flange mounting			✓	10020737	
		M8x40 with low head for flange mounting			6	✓	10020738
		M16x60 for mounting of the clamping bolt from above			1	✓	10020734
	Threaded pin	20	M8x30 for mounting of the clamping bolt from below	safe autosafe	1	✓	10020714

DOCKLOCK ZERO-POINT CLAMPING SYSTEM

Accessories

Various accessories

Product	Figure	Size	Description	Suitable for	In stock	Material no.
Cover bolt		20	For protection of clamping modules when not in use	airline	✓	10020760
		30		safe autosafe	✓	10020717
				safe	✓	10020728
		50			✓	10020735
Cover plate		20	Ø8.5 mm made of brass for protecting screw counterbores against contamination	safe autosafe	✓	10020726
		20/30	Ø10.5 mm made of brass for protecting screw counterbores against contamination		✓	10020708
		50	Ø13.5 mm made of brass for protecting screw counterbores against contamination	safe	✓	10020743
Support ring		20	For height adjustment of flanged cylinders	safe autosafe	✓	10020725
		30			✓	10020704
		50		safe	✓	10020742
Washer		20	For inclined extension	safe autosafe	✓	10020722
		30		safe	✓	10020730
		50			✓	10020736
Screw-in adapter		20	Mounting aid for mounting of the clamping bolt from below	safe autosafe	✓	10020720
Hydraulic hose			Replacement hose, 2 m, without coupling	safe	✓	10020746



DOCKLOCK ZERO-POINT CLAMPING SYSTEM

Accessories

Product	Figure	Size	Description	Suitable for	In stock	Material no.
Coupling sleeve			Connection dimension G 1/4" oil	safe	✓	10020752
			Connection dimension G 1/8" air		✓	10020749
Coupling plug			Connection dimension NW6 AIR	airline	✓	10020759
			Connection dimension G 1/8" air	safe	✓	10020747
			Connection dimension G 1/4" oil		✓	10020750
Positioning bushing		20	For pallet, for prepositioning	airline	✓	10020763
Reducing adapter			For screwing in, for connection dimensions 1/8" to 3/8"	safe	✓	10020757
			Long, for connection dimensions G 3/8" to G 1/4"		✓	10020756
			Long, for connection dimensions G 1/8" to G 1/4"		✓	10020754
Set-up plugs		20	For positioning of built-up cylinders	safe	✓	10020721
		30			✓	10020731
		50			✓	10020739
Bracket		20	For mounting of built-up cylinders	safe	✓	10020718
		30/50			✓	10020729
Dust cap			For coupling plug G 1/4" oil	safe	✓	10020751
			For coupling plug G 1/8" air		✓	10020748
			For coupling sleeve G 1/4" oil		✓	10020753

DOCKLOCK ZERO-POINT CLAMPING SYSTEM

Accessories

Product	Figure	Size	Description	Suitable for	In stock	Material no.
Support ring		20	Hardened, for pallets in automation	autosafe	✓	10020698
				autoairline	✓	10020761
		30	Hardened, for pallets in automation	autosafe	✓	10020707
Precentering bolt		20	For base plate, for prepositioning of pallets	safe airline	✓	10020762



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