

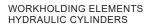


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### Threaded-Body Universal Cylinder

Compact design excellent for punching, pressing, and assembly operations with high forces available. The threaded-body universal cylinders are delivered with the same piston diameters and strokes as the wellproven block cylinders. Hydraulic connection is made at the cylinder bottom by hydraulic tubing or hoses. They can be used as clamping cylinders for workpiece clamping as well as for general motion tasks.

#### Single-Acting

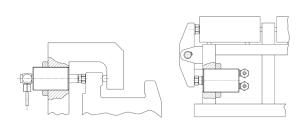
Part Number	Push Fo	rce (kN)	Pull Fo	rce (kN)	Stroke	А	L	Weight
	100 bar	500 bar	100 bar	500 bar	(mm)		(mm)	(kg)
CLR-1311-205	2	10	1.2	6.1	8	M40x1.5	72	0.78
CLR-1311-225	2	10	1.2	6.1	20	M40x1.5	107	1.07
CLR-1311-025	2	10	1.2	6.1	20	M45x1.5	110	1.13
CLR-1313-005	4.9	24.5	2.9	14.5	8	M48x1.5	84	0.88
CLR-1313-025	4.9	24.5	2.9	14.5	20	M48x1.5	114	1.28
CLR-1314-105	8	40.2	4.9	24.5	10	M55x1.5	96	1.38
CLR-1314-125	8	40.2	4.9	24.5	20	M55x1.5	121	1.75

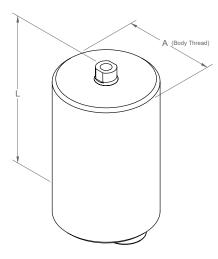
#### **Double-Acting**

Part Number	Push Fo	orce (kN)	Pull Fo	rce (kN)	Stroke	А	L	Weight
	100 bar	500 bar	100 bar	500 bar	(mm)		(mm)	(mm)
CLR-1341-305	2	10	1.2	6.1	16	M40x1.5	72	0.77
CLR-1341-365	2	10	1.2	6.1	50	M40x1.5	107	1.04
CLR-1341-395	2	10	1.2	6.1	100	M40x1.5	160	1.59
CLR-1341-105	2	10	1.2	6.1	16	M45x1.5	75	0.66
CLR-1341-165	2	10	1.2	6.1	50	M45x1.5	110	1.1
CLR-1341-195	2	10	1.2	6.1	100	M45x1.5	163	1.68
CLR-1343-105	4.9	24.5	2.9	14.5	20	M48x1.5	84	0.85
CLR-1343-165	4.9	24.5	2.9	14.5	50	M48x1.5	114	1.21
CLR-1343-195	4.9	24.5	2.9	14.5	100	M48x1.5	164	1.81
CLR-1344-105	8	40.2	4.9	24.5	25	M55x1.5	96	1.32
CLR-1344-165	8	40.2	4.9	24.5	50	M55x1.5	121	1.63
CLR-1344-195	8	40.2	4.9	24.5	100	M55x1.5	171	2.38
CLR-1345-105	12.6	62.8	7.7	38.3	25	M65x1.5	99	1.84
CLR-1345-165	12.6	62.8	7.7	38.3	50	M65x1.5	124	2.34
CLR-1345-195	12.6	62.8	7.7	38.3	100	M65x1.5	174	3.35



Application Example





#### Accessories

Part Number	Stroke (mm)
CLR-3300-699	Lock Nut M40x1.5
CLR-3300-326	Lock Nut M45x1.5
CLR-3300-324	Lock Nut M48x1.5
CLR-3300-992	Lock Nut M55x1.5
CLR-3301-661	Lock Nut M65x1.5
CLR-3300-673	Lock Nut M75x1.5

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### **Threaded-Body Cylinders**

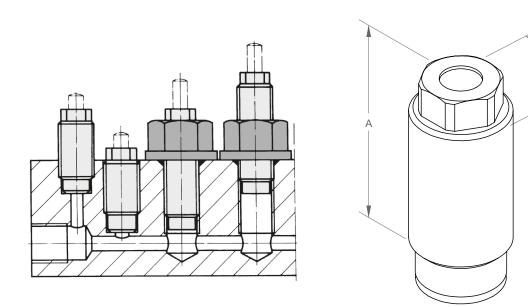
#### Great for clamping smaller workpieces in multiple clamping fixtures.

The minimum cylinder spacing from center-to-center is only 15 mm. Sealing is made with the supplied sealing ring in the threaded hole.



Part Number		Force (kN)	Stroke	A	В	Weight	
	100 bar	500 bar	(mm)	(mm)	(mm)	(g)	
CLR-1458-001	0.5	2.5	5	27	M12x1.5	16	
CLR-1458-002	0.5	2.5	10	40	M12x1.5	24	

Application Example



Subject to modifications, for all engineering and technical data please see data sheets at roemheld.com

(Body Thread)

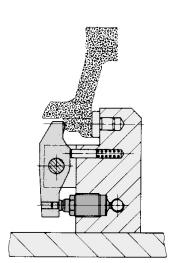
### **Threaded-Body Cylinders**

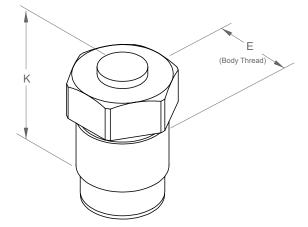
Versatile push clamps that provide considerable force in a small size. These can be threaded directly into tapped holes in the fixture down to the hex-section of the cylinder body. Spacings between cylinders can be minimized when cylinders are arranged in a row, since the oil is fed through drilled passages in the fixture.



Part Number	Push Fo	orce (kN)	Stroke	K Height	E	Weight
	100 bar	500 bar	(mm)	(mm)	(mm)	(kg)
CLR-1460-100	1.1	5.7	10	38	M22x1.5	0.08
CLR-1460-101	1.1	5.7	10	45	M22x1.5	0.08
CLR-1460-110	1.1	5.7	10	45.5	M22x1.5	0.08
CLR-1461-100	2.0	10.1	12	46.5	M26x1.5	0.15
CLR-1461-101	2.0	10.1	12	52.5	M26x1.5	0.15
CLR-1461-110	2.0	10.1	12	54	M26x1.5	0.15
CLR-1462-100	3.1	15.7	15	56	M30x1.5	0.22
CLR-1462-101	3.1	15.7	15	65.5	M30x1.5	0.22
CLR-1462-110	3.1	15.7	15	69.5	M30x1.5	0.22

Application Example





### **Block Cylinders**

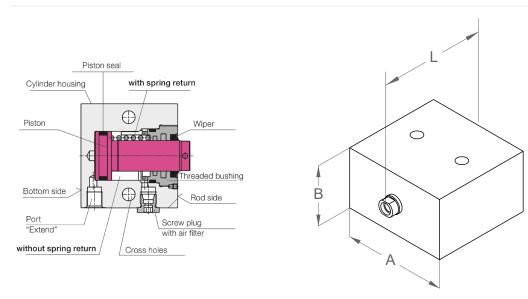
**Compact single-acting design with many applications:** positioning, moving, clamping, closing, supporting, locking, lifting, riveting or pushing. Used for all hydraulically-operated linear movements that do not require a retraction force or where the piston is retracted by an external force. Easy to mount on flat surfaces, horizontally or vertically. *Note: Version K, manifold mount by o-ring seals.* 



#### Single-Acting

Part Number	Push Fo	orce (kN)	Stroke	A	В	L	Weight
	100 bar	500 bar	(mm)	(mm)	(mm)	(mm)	(kg)
CLR-1511-000K	2	10	8	60	35	62	0.8
CLR-1511-005	2	10	8	60	35	62	0.8
CLR-1513-000K	4.9	24.5	8	65	45	71	1.2
CLR-1513-005	4.9	24.5	8	65	45	71	1.2
CLR-1514-100K	8	40.2	10	75	55	85	2
CLR-1514-105	8	40.2	10	75	55	85	2
CLR-1515-000K	12.6	62.8	10	85	63	89	2.76
CLR-1515-005	12.6	62.8	10	85	63	89	2.76
CLR-1516-000K	19.5	98.5	12	100	75	100	4.5

#### Application Example



### **Block Cylinders**

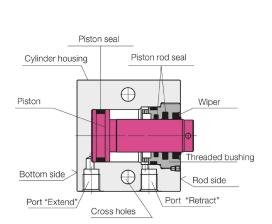
**Compact double-acting design with many applications:** positioning, moving, clamping, closing, supporting, locking, bending, riveting, punching, opening & closing, lifting & lowering, pushing & pulling. The double-acting function gives the most reliable process and repeatability, along with high force generation in both axial directions. *Note: Versions K & L are manifold mount by o-ring seals.* 

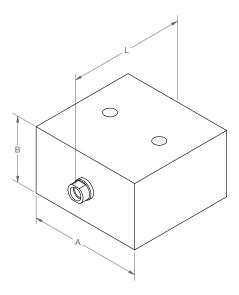
#### Double-Acting

Part Number	Push Fo	orce (kN)	Pull Fo	rce (kN)	Stroke	А	в	L	Weight
Part Number	100 bar	500 bar	100 bar	500 bar	(mm)	A	D	(mm)	(kg)
CLR-1541-100K	2.0	10	1.2	6.1	16	60	35	62	0.9
CLR-1541-105	2.0	10	1.2	6.1	16	60	35	62	0.9
CLR-1541-160L	2.0	10	1.2	6.1	50	60	35	97	1.4
CLR-1541-165	2.0	10	1.2	6.1	50	60	35	97	1.4
CLR-1543-100K	4.9	24.5	2.9	14.5	20	65	45	71	1.4
CLR-1543-105	4.9	24.5	2.9	14.5	20	65	45	71	1.4
CLR-1543-160L	4.9	24.5	2.9	14.5	50	65	45	101	2.0
CLR-1543-165	4.9	24.5	2.9	14.5	50	65	45	101	2.0
CLR-1544-100K	8.0	40.2	4.9	24.5	25	75	55	85	2.2
CLR-1544-105	8.0	40.2	4.9	24.5	25	75	55	85	2.2
CLR-1544-160L	8.0	40.2	4.9	24.5	50	75	55	110	2.7
CLR-1544-165	8.0	40.2	4.9	24.5	50	75	55	110	2.7
CLR-1545-100K	12.6	62.8	7.7	38.3	25	85	63	89	2.9
CLR-1545-105	12.6	62.8	7.7	38.3	25	85	63	89	2.9
CLR-1545-160L	12.6	62.8	7.7	38.3	50	85	63	114	3.6
CLR-1545-165	12.6	62.8	7.7	38.3	50	85	63	114	3.6
CLR-1546-100K	19.5	98.5	11.6	57.9	25	100	75	100	4.8
CLR-1546-105	19.5	98.5	11.6	57.9	25	100	75	100	4.8
CLR-1546-160L	19.5	98.5	11.6	57.9	50	100	75	125	6.0
CLR-1546-165	19.5	98.5	11.6	57.9	50	100	75	125	6.0



Application Example





### Pull-Type Cylinders

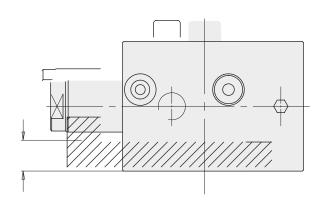
**Pull-clamp version of our popular Block Cylinders series.** This series was expanded by a single-acting variant with return spring. The piston rod is extended in the off-position.

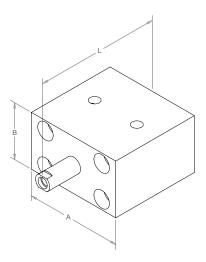


#### Single-Acting

Part Number	Pull Fo 100 bar	orce (kN) 500 bar	Stroke (mm)	A (mm)	B (mm)	L (mm)	Weight (kg)
CLR-1571-105	1.1	6.0	8.0	60	35	78	0.8
CLR-1573-105	2.7	14.3	8.0	65	45	91	1.2
CLR-1574-105	4.6	24.2	10.0	75	55	110	1.8
CLR-1575-105	7.3	37.9	10.0	85	63	114	2.6
CLR-1576-105	11.0	57.3	12.0	100	75	125	3.8

Application Example





### Hollow-Piston Cylinders

**These clamps, also known as "hydraulic nuts", automate the tightening and clamping of bolts and threaded rods.** The pistons of this cylinder range are provided with a through hole and internal thread. In connection with a standard tie rod and C-washer combination a variety of applications are possible. *For CLR-1756-XXX, the flange is an accessory.* 



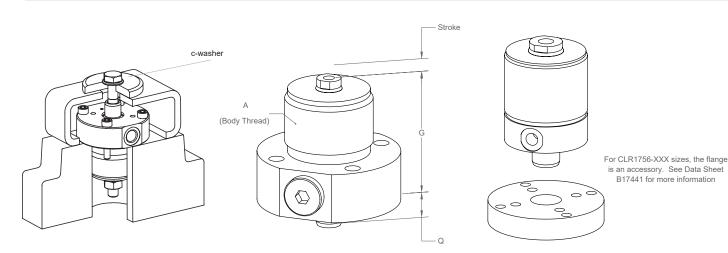
#### Single-Acting

Part Number	Push Force (kN)	Pull Fo	rce (kN)	Stroke	А	G	Q	Weight
ranthumber	Spring Force only	100 bar	500 bar	(mm)	(mm)	(mm)	(mm)	(kg)
CLR-1752-004	0.09	2.0	10	6	M40x1.5	58	12	0.8
CLR-1754-004	0.2	6.0	30	8	M48x1.5	68	14	1.1
CLR-1755-004	0.27	9.4	47	10	M60x1.5	80	19	1.8
CLR-1756-004	0.38	14.7	73.6	12	M75x1.5	94	23	2.5

#### Double-Acting

Part Number	Push Fo	Push Force (kN)		Pull Force (kN)		А	G	Q	Weight
Fait Number	100 bar	500 bar	100 bar	500 bar	(mm)	(mm)	(mm)	(mm)	(kg)
CLR-1752-023	2.0	10	2.0	10	10	M40x1.5	58	12	0.8
CLR-1754-023	4.8	24	6.0	30	12	M48x1.5	68	14	1.1
CLR-1755-023	7.6	38	9.4	47	16	M60x1.5	80	19	1.8
CLR-1756-023	11.9	57.9	14.7	73.6	20	M75x1.5	94	23	2.5

#### Application Example



### **Hinge Clamps**

The most robust hinge clamp on the market. A great low-cost hydraulic clamping element with many installation and connecting possibilities. If the clamping lever is completely retracted, unimpeded loading and unloading of the fixture can be effected. Clamp, Clamping Levers, Contact Bolts and Lock Nuts all sold separately.

#### Clamps

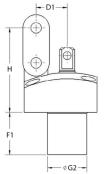
Part Number	Max Clampingforce (kN) with Standard Clamp Lever	A (mm)	B (mm)	D1 (mm)	F1 (mm)	G2 (mm)	H (mm)	Weight (kg)
CLR-1825-130	3.8	55	55	23.5	32	29.8	64	1.0
CLR-1825-230	9.7	70	70	33	43	41.8	92.5	2.3
CLR-1825-330	14.4	85	85	37	44.5	51.8	113	3.8
CLR-1825-430	21.5	100	100	43.5	52.5	64.8	128	6.1

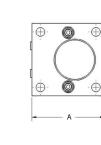
#### **Standard Levers**

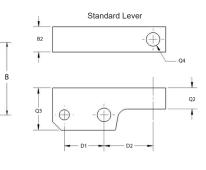
Part Number	Clamp Size	B2 (mm)	D1 (mm)	D2 (mm)	Q2 (mm)	Q3 (mm)	Q4 (mm)	Weight (kg)
CLR-3548-510	1	15	23.5	29	12.5	25	M8	0.2
CLR-3548-556	2	20	33	39.5	20	40	M12	0.5
CLR-3548-587	3	25	37	49	25	50	M16	0.9
CLR-3548-1035	4	30	43.5	60.5	28	55	M16	1.4

#### Long Blank Levers

Part Number	Clamp Size	B2 (mm)	D1 (mm)	D3 (mm)	Q3 (mm)	Weight (kg)	Clamp Size
CLR-3548-511	1	15	23.5	59.5	25	0.2	1
CLR-3548-557	2	20	33	81.5	40	0.5	2
CLR-3548-588	3	25	37	98	50	0.9	3
CLR-3548-1036	4	30	43.5	114	55	1.4	4



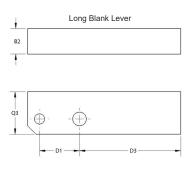






Contact Bolt

Accessories



Subject to modifications, for all engineering and technical data please see data sheets at roemheld.com



Φ

Lock Nut

CLR-3300-111

CLR-3300-113

CLR-3300-114

CLR-3300-114

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### **Compact Clamp**

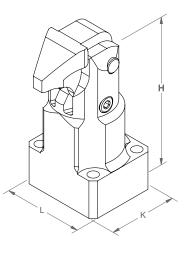


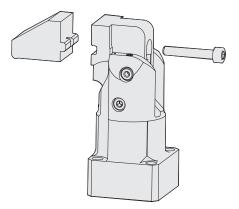
These clamps are extremely compact with a small footprint. The clamp has a unique double-acting pull-type cylinder where part of the linear stroke is used to swing the clamping lever over the workpiece, and the remaining stroke lowers the lever downward onto the workpiece without side load.

Part Number	Lever Type	Clamp Force (kN)	Stroke (mm)	H (mm)	K (mm)	L (mm)	Weight
		250 bar	(((((()))))))))))))))))))))))))))))))))	(11111)	(11111)	(11111)	(kg)
CLR-1801-210	Short	3.2	5	74.8	34.5	40	0.46
CLR-1801-230	Long	TBD	5	74.8	34.5	40	0.74
CLR-1801-250	Universal	TBD	5	74.8	34.5	40	0.46
CLR-1802-210	Short	4.5	5	80.8	41.5	45	0.69
CLR-1802-230	Long	TBD	5	80.8	41.5	45	1.05
CLR-1802-250	Universal	TBD	5	80.8	41.5	45	0.73
CLR-1803-210	Short	7.5	7	95.4	52	58	1.29
CLR-1803-230	Long	TBD	7	95.4	52	58	1.77
CLR-1803-250	Universal	TBD	7	95.4	52	58	1.27
CLR-1804-210	Short	11.5	8.5	98.6	54	59	1.42
CLR-1804-230	Long	TBD	8.5	98.6	54	59	1.93
CLR-1804-250	Universal	TBD	8.5	98.6	54	59	1.44

#### Application Example







#### **NEW** Universal Lever

Make and mount custom levers on the compact clamp using the universal lever with integrated swing mechanism.

### Flat Lever Clamps

**Robust zero play linkage with integrated position monitoring.** The flat lever clamp is a compact hydraulic clamping element for fixtures with oil supply through drilled channels. The flat clamping lever allows machining of surfaces that are only a few millimeters above the integrated position monitoring.

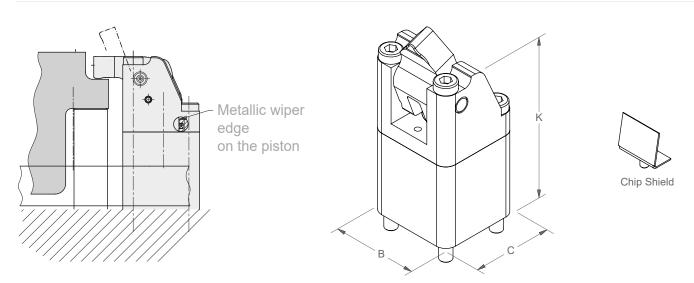


C Part Number Size		Clamp Force (kN)	Clamping Height	B (mm)	C (mm)	K	Weight	
	120 ba		ar (mm)		(mm)	(mm)	(kg)	
CLR-1829-513D18	1	2.96	55.3 - 58.0	35	33	66	0.45	
CLR-1829-523D24	2	4.27	66.9 - 70.5	42	42	82	0.87	
CLR-1829-533D28	3	7.41	79.1 - 83.4	53	54	99	1.7	
CLR-1829-543D33	4	9.75	88.7 - 9.08	66	63	114	2.88	

#### Accessories

Part Number	Description
CLR-0353-81404	Chip Shield for Size 1
CLR-0353-81405	Chip Shield for Size 2
CLR-0353-81406	Chip Shield for Size 3
CLR-0353-81407	Chip Shield for Size 4

#### Application Example



Subject to modifications, for all engineering and technical data please see data sheets at roemheld.com

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ROEMHELD North America (Seller) components are carefully designed, manufactured, inspected, and individually tested prior to shipment. In the unlikely case you find a defect in materials or workmanship within 2 years after the original sale of the component, we will promptly repair or replace the component, in accordance with our Limited Warranty below. Our liability is limited to replacement or repair of the component and this warranty does not apply to altered, misused or misapplied products or to any defect caused by neglect, carelessness or abuse of the component.

#### LIMITED WARRANTY

Seller warrants that the product described herein will be free from defects in material and workmanship. If any failure to conform to this warranty be found within 2 years after the original sale of the component, from the date of sale by Seller, and Seller is given immediate notification thereof, Seller, upon being satisfied of the existence of such nonconformity, will, at Seller's option, correct the same by replacement of the defective product or making suitable repairs. If Seller is unable to correct such nonconformity by replacement of the product or making suitable repairs, whether due to the nature of such nonconformity, the use of the product, or for any other reason, Seller will refund to you the price set forth herein, or where appropriate, the unit price for such number or quantity of products as shall have such nonconformity which Seller is unable to correct, upon Seller's receipt of the nonconforming product f.o.b. its plant; provided, however, no product shall be returned to Seller without its express written consent; and provided further that such receipt of any nonconforming product will not be required where it is no longer possible for you to return the same to Seller. In no event shall Seller be liable to you, either directly or by way of contribution or indemnity, for direct, special, incidental or consequential damages such as, but not limited to, property damage, loss of profit, damages based on loss of use of the product, or damages for cover, whether the claim for any such damages be based on warranty, express or implied, contract, tort, or otherwise.

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### **Compact Swing Clamps**

Single Acting Threaded-body Version

#### Extremely small, economical clamps suitable for many applications.

Clockwise and counterclockwise versions are available with swing angles of 90°, 60°, and 45°. The 0° version can be used as push and pull-type cylinder with anti-rotation piston. Standard 90° versions can easily be converted to 90° CW, 90° CCW, or 0°.



#### **Bottom Flange Type**

Part Number	Body Type	Swing Direction	Oil Connection	Pull Force (kN)	Stro (mi		A	E	G	Weight
	2003			350 bar	Swing	Clamp	(mm)	(mm)	(mm)	(kg)
CLR-1849-011	Bottom Flange	Clockwise	Fittings	2.55	10	6	108.5	35	50	0.42
CLR-1849-021	Bottom Flange	Counter Clockwise	Fittings	2.55	10	6	108.5	35	50	0.42
CLR-1849-022	Bottom Flange	Clockwise	O-Ring	2.55	10	6	108.5	35	50	0.42
CLR-1849-012	Bottom Flange	Counter Clockwise	O-Ring	2.55	10	6	108.5	35	50	0.42

#### **Top Flange Type**

Part Number Body Type	Body Type	Swing Direction	Oil	Pull Force (kN)	Stro (m		A	E (mm)	G	Weight
	5 51	0	Connection	350 bar	Swing	Clamp	(mm)	(mm)	(mm)	(kg)
CLR-1849-013	Top Flange	Clockwise	Fittings	2.55	10	6	108.5	40	40	0.35
CLR-1849-023	Top Flange	Counter Clockwise	Fittings	2.55	10	6	108.5	40	40	0.35
CLR-1849-014	Top Flange	Clockwise	O-Ring	2.55	10	6	108.5	40	40	0.42
CLR-1849-024	Top Flange	Counter Clockwise	O-Ring	2.55	10	6	108.5	40	40	0.42

#### Accessories

Part Number	Description			
CLR-0354-057	Clamping Arm with Contact Bolt		6	
CLR-0354-082	Double Clamping Arm			Clamping
CLR-3548-900	Clamping Arm, Blank	) )	۲	Arm with Contact Bolt
CLR-3527-076	Flange Nut M27x1.5	G		<u> </u>
		Clamps and Accessories Sold Seperately	G	Flange Nut Clamp Shown with Optional Clamping Arm with Contact Bolt and Flange Nut

Subject to modifications, for all engineering and technical data please see data sheets at roemheld.com

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### **Compact Swing Clamps**

**Double Acting** 

Hydraulic swing clamps are used for clamping of workpieces when it is essential to keep the clamping area free of straps and clamping components for unrestricted workpiece loading and unloading.



#### Bottom Flange Type

	Body Type	Swing Direction	Oil	Pull Force (kN)	Stro (m		A	E	G (mm)	Weight (kg)
		Ū.	Connection	350 bar	Swing	Clamp	(mm)	(mm)		
CLR-1850-111	Bottom Flange	Clockwise	Fittings	2.63	8	8	108.5	35	50	0.42
CLR-1850-121	Bottom Flange	Counter Clockwise	Fittings	2.63	8	8	108.5	35	50	0.42
CLR-1850-112	Bottom Flange	Clockwise	O-Ring	2.63	8	8	108.5	35	50	0.42
CLR-1850-122	Bottom Flange	Counter Clockwise	O-Ring	2.63	8	8	108.5	35	50	0.42

#### Top Flange Type

Part Number Body Typ	Body Type	Swing Direction	Oil	Pull Force (kN)	Stro (mi		A	E	G	Weight
	, , ,	3	Connection	350 bar	Swing	Clamp	(mm)	(mm)	(mm)	(kg)
CLR-1850-113	Top Flange	Clockwise	Fittings	2.63	8	8	108.5	40	40	0.35
CLR-1850-123	Top Flange	Counter Clockwise	Fittings	2.63	8	8	108.5	40	40	0.35
CLR-1850-114	Top Flange	Clockwise	O-Ring	2.63	8	8	108.5	40	40	0.42
CLR-1850-124	Top Flange	Counter Clockwise	O-Ring	2.63	8	8	108.5	40	40	0.42

#### Accessories

Part Number	Description			
	Decemption			
CLR-0354-057	Clamping Arm with Contact Bolt	1		Clamping
CLR-0354-082	Double Clamping Arm		Ø	Arm with Contact Bolt
CLR-3548-900	Clamping Arm, Blank			
CLR-3527-076	Flange Nut M27x1.5		Á	- The
			G	Flange Nut
	<b>O</b>	Clamps and Accessories Sold Seperately	E E	Clamp Shown with Optior Clamping arm with Conta Bolt and Flange Nut

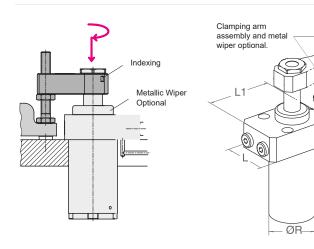
### Swing Clamps with Robust Swing Mechanism

**Up to 86% more clamping force than competition with same length arms.** These top-flange robust swing clamps are ideal when you have the need for speed and long, heavy custom arms. An integral flow-control orifice allows using high-flow-rate power sources without separate flow restrictors. Available in five sizes and with position monitoring. Double acting only.

#### Top Flange Type

Part Number	Swing Direction	Pull Force (kN)	Stro (m		н	L	L1	ØR	Weight (kg)
T art Number	enning Entertain	350 bar	Swing	Clamp	(mm)	(mm)	(mm)	(mm)	
CLR-1843-A090-L23D	Counter Clockwise	7.5	11	12	162.3	50	70	45	1.7
CLR-1843-A090-R23D	Clockwise	7.5	11	12	162.3	50	70	45	1.7
CLR-1844-A090-L24D	Counter Clockwise	10.5	12	12	175.8	62	81	52	2.3
CLR-1844-A090-R24D	Clockwise	10.5	12	12	175.8	62	81	52	2.3
CLR-1845-A090-L30D	Counter Clockwise	18.4	15	15	204.8	75	95	60	3.9
CLR-1845-A090-R30D	Clockwise	18.4	15	15	204.8	75	95	60	3.9

#### Application Example



Accessories shown on page 20.

### Swing Clamps with Robust Swing Mechanism

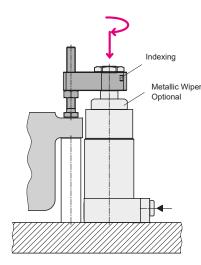
These bottom-flange robust swing clamps are ideal when you have the need for speed and long, heavy custom arms. An integral flow-control orifice allows using high-flow-rate power sources without separate flow restrictors. Available in four sizes and with position monitoring. Double acting only.

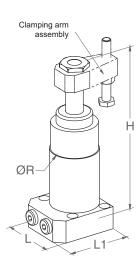


#### Bottom Flange Type

Part Number	Swing Direction	Pull Force (kN)	Pull Force (kN) Stroke (mm)		Н	L	L1	ØR	Weight
		350 bar	Swing	Clamp	(mm)	(mm)	(mm)	(mm)	(kg)
CLR-1843-L090-L23	Counter Clockwise	7.5	11	12	162.3	55	60	45	1.7
CLR-1843-L090-R23	Clockwise	7.5	11	12	162.3	55	60	45	1.7
CLR-1844-L090-L24	Counter Clockwise	10.5	12	12	175.8	63	66	52	2.3
CLR-1844-L090-R24	Clockwise	10.5	12	12	175.8	63	66	52	2.3
CLR-1845-L090-L30	Counter Clockwise	18.4	15	15	204.8	77	75	60	3.4
CLR-1845-L090-R30	Clockwise	18.4	15	15	204.8	77	75	60	3.4

#### Application Example





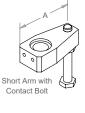
Accessories shown on page 20.

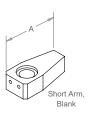
# ACCESSORIES FOR B1.853 + B1.854

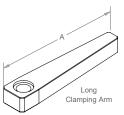
Clamping arms, protective wipers and stroke limiting bushings for our Robust Swing clamps

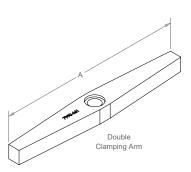
Part Number	Description	Clamp Size	A (mm)
CLR-0354-152	Clamping Arm Short, with Contact Bolt	1843	58
CLR-0354-153	Clamping Arm Short, with Contact Bolt	1844	75
CLR-0354-154	Clamping Arm Short, with Contact Bolt	1845	93
CLR-3548-660	Clamping Arm, Short, Blank	1843	58
CLR-3548-661	Clamping Arm, Short, Blank	1844	75
CLR-3548-803	Clamping Arm, Short, Blank	1845	93
CLR-3548-4063	Clamping Arm, Long, Blank	1843	139
CLR-3548-4064	Clamping Arm, Long, Blank	1844	193
CLR-3548-4065	Clamping Arm, Long, Blank	1845	224
CLR-7990-661	Double Clamping Arm	1843	220
CLR-7990-662	Double Clamping Arm	1844	272
CLR-7990-663	Double Clamping Arm	1845	278
CLR-0341-104	Metal Wiper	1843	
CLR-0341-107	Metal Wiper	1844	
CLR-0341-105	Metal Wiper	1845	
CLR-3420-398	30° swing limiting bushing	1843	
CLR-3420-397	45° swing limiting bushing	1843	
CLR-3420-399	60° swing limiting bushing	1843	
CLR-3420-447	30° swing limiting bushing	1844	
CLR-3420-449	45° swing limiting bushing	1844	
CLR-3420-452	60° swing limiting bushing	1844	
CLR-3420-465	30° swing limiting bushing	1845	
CLR-3420-468	45° swing limiting bushing	1845	
CLR-3420-471	60° swing limiting bushing	1845	











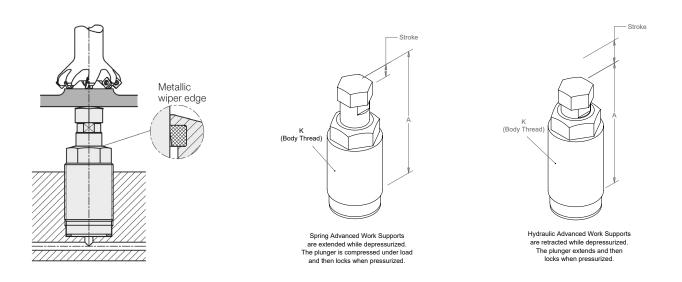
#### Threaded-Body Work Support Vent-less Design

Hydraulic work supports are used to provide a self-adjusting rest for the workpiece during the machining operations. They compensate for workpiece surface irregularities, also vibration and deflection under machining loads.



Part Number	Contact Type	Load Force (kN)	Stroke A		к	Weight
i art Number		500 bar	(mm)	(mm)	(mm)	(kg)
CLR-1940-002	Spring Advanced	6.5	8	80.5	M30x1.5	0.3
CLR-1940-012	Spring Advanced	9.5	8	90.5	M30x1.5	0.3
CLR-1942-002	Hydraulic Advanced, Short Stroke	6.5	8	72.5	M30x1.5	0.3
CLR-1942-007	Hydraulic Advanced, Long Stroke	6.5	15	79.5	M30x1.5	0.3
CLR-1942-012	Hydraulic Advanced, Short Stroke	9.5	8	82.5	M30x1.5	0.3
CLR-1942-017	Hydraulic Advanced, Long Stroke	9.5	15	89.5	M30x1.5	0.3

Application Example



### Threaded-Body Work Support

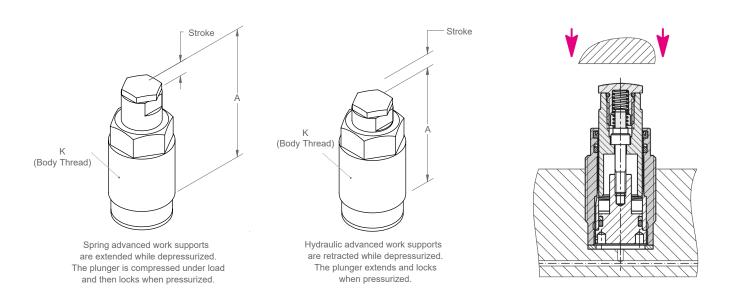
Vent-less Design

**Smallest hydraulic work support available anywhere.** Hydraulic work supports are used to provide a self-adjusting rest for the workpiece during the machining operations. They compensate for workpiece surface irregularities, and also for vibration and deflection under machining loads.



Part Number	Contact Type	Load Force (kN) 500 bar	Stroke (mm)	A (mm)	K (mm)	Weight (kg)
CLR-1940-900	Spring Advanced	4	6.5	61	M26x1.5	0.2
CLR-1942-900	Hydraulic Advanced, Short Stroke	4	6.5	54.5	M26x1.5	0.2
CLR-1942-925	Hydraulic Advanced, Long Stroke	4	15	63	M26x1.5	0.2

#### Application Example



#### **Threaded-Body Work Supports**

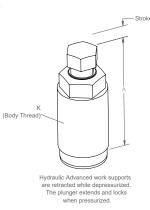
#### Vented Design for Maximum Life

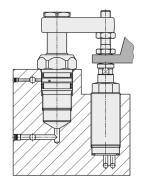
**Space-saving low-height installation.** Hydraulic work supports are used to provide a self-adjusting rest for workpieces and avoid their vibration and deflection under machining loads. The threaded-body design allows for space-saving and direct installation into the fixture body. Hydraulic oil supply and venting are made via drilled channels.

Part Number	Contact Type	Load Force (kN)	Stroke	A	K	Weight
	21	500 bar	(mm)	(mm)	(mm)	(kg)
CLR-1940-300	Spring Advanced	6.5	8	83.5	M30x1.5	0.32
CLR-1940-400	Spring Advanced	15	10	96	M36x1.5	0.55
CLR-1940-501	Spring Advanced	23.5	10	100	M48x1.5	1.0
CLR-1942-300	Hydraulic Advanced	6.5	8	75.5	M30x1.5	0.32
CLR-1942-305	Hydraulic Advanced	6.5	15	82.5	M30x1.5	0.35
CLR-1942-400	Hydraulic Advanced	15	10	86	M36x1.5	0.55
CLR-1942-501	Hydraulic Advanced	23.5	10	90	M48x1.5	1.0



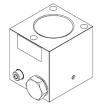
Spring advanced work supports are extended while depressurized. The plunger is compressed under load and then locks when pressurized.





#### Accessories

Part Number	Description
CLR-0346-815	Mounting body for 194X-3XX, g1/4, 500 bar
CLR-0346-816	Mounting body for 194X-4XX, g1/4, 500 bar
CLR-0346-817	Mounting body for 194X-5XX, g1/4, 500 bar
CLR-0346-818	Mounting body for 194X-6XX, g1/4, 500 bar





Mounting Body allows for use of standard fittings on the side, or o-ring connection on the bottom using drilled channels.

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# SERIES 14.120

### Fixture Clamp, Concentric Clamping

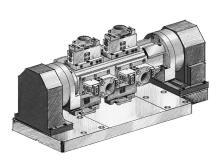
Slim, solid vise body with high-rigidity and complete protection against dirt and chips especially suitable for automated series production. The self-centering fixture clamps are used for machining of dimensionally stable workpieces in single or multiple clamping fixtures. Their compact design allows for arrangement in very tight spaces. Repetitive accuracy of clamping  $\pm 0.02$  mm

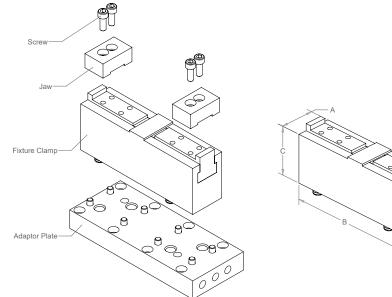
Part Number	Clamping Force per Jaw (kN) 250 bar	Stroke per Jaw (mm)	A Jaw Width (mm)	B Length (mm)	C Height (mm)	Weight (kg)
CLR-4413-051	6.5	5	40	155	55	2.4
CLR-4413-151	9.0	8	65	200	65	6.0

#### Accessories

Part Number	For Clamp	Description
CLR-0441-305	4413-051	Adapter plate to use fittings
CLR-0441-315	4413-151	Adapter plate to use fittings
CLR-3548-070	4413-051	Jaw for 40mm (one jaw)
CLR-3548-080	4413-151	Jaw for 65mm (one jaw)
CLR-3301-107	4413-051	M6x16 Screw (2 needed per jaw)
CLR-3300-625	4413-151	M8x25 Screw (2 needed per jaw)

#### Application Example





Subject to modifications, for all engineering and technical data please see data sheets at roemheld.com

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# SERIES J7.201

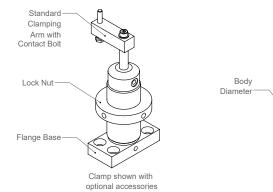
### **Pneumatic Swing Clamp**

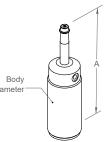
Automate with confidence while keeping the clamping area free of straps and clamping components for unrestricted workpiece loading and unloading. Pneumatic swing clamps are ideally suited for applications like fixturing, testing, welding and assembly. The installed magnetic piston allows monitoring of clamping and unclamping position. *Clamp, clamping arms, flange base, and lock nuts all sold separately.* 

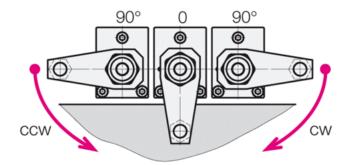


Part Number	Swing Direction	Piston Diameter	Pull For	ce (N)	Stro (m		А	Body Diameter	Weight
	ennig Direction	(mm)	4 bar	6 bar	Swing	Clamp	(mm)	(mm)	(kg)
CLR-1873-305	Clockwise	20	105.5	158.3	7.5	7	114.3	M30x1.5	0.2
CLR-1873-405	Counter Clockwise	20	105.5	158.3	7.5	7	114.3	M30x1.5	0.2
CLR-1874-303	Clockwise	32	276.4	414.6	9.5	9	133.1	M40x1.5	0.3
CLR-1874-403	Counter Clockwise	32	276.4	414.6	9.5	9	133.1	M40x1.5	0.3
CLR-1875-303	Clockwise	40	422.2	633.3	17	15	182.6	M50x1.5	0.7
CLR-1875-403	Counter Clockwise	40	422.2	633.3	17	15	182.6	M50x1.5	0.7
CLR-1876-303	Clockwise	50	659.7	989.6	18	15	198.5	M60x1.5	0.9
CLR-1876-403	Counter Clockwise	50	659.7	989.6	18	15	198.5	M60x1.5	0.9
CLR-1877-303	Clockwise	63	1050.5	1575.8	23	18	240.5	M80x1.5	2.1
CLR-1877-403	Counter Clockwise	63	1050.5	1575.8	23	18	240.5	M80x1.5	2.1

#### Application Example







# ACCESSORIES FOR J7.201

Clamping arms, mounting flanges, and locking rings for pneumatic swing clamps.

Part Number	Description	L (mm)	W (mm)	H (mm)
CLR-0187-324	Clamping arm with contact bolt for 1873-305/-405	42		
CLR-0187-424	Clamping arm with contact bolt for 1874-303/-403	52		
CLR-0187-524	Clamping arm with contact bolt for 1875-303/-403	70		
CLR-0187-624	Clamping arm with contact bolt for 1876-303/-403	82		
CLR-0187-724	Clamping arm with contact bolt for 1877-303/-403	104		
CLR-3548-355	Long clamping arm for 1873-305/-405	62		
CLR-3548-356	Long clamping arm for 1874-303/-403	72		
CLR-3548-357	Long clamping arm for 1875-303/-403	95		
CLR-3548-353	Long clamping arm for 1876-303/-403	116		
CLR-3548-358	Long clamping arm for 1877-303/-403	143		
CLR-3829-119	Electronic magnetic sensor			
CLR-3829-099	Connecting cable with right angle plug	5 meters		
CLR-0345-403	Flange base for 1873-305/-405	30	60	12
CLR-0345-404	Flange base for 1874-303/-403	38	65	16
CLR-0345-405	Flange base for 1875-303/-403	50	80	22
CLR-0345-406	Flange base for 1876-303/-403	58	85	22
CLR-0345-407	Flange base for 1877-303/-403	75	110	25
CLR-3527-071	Lock nut, M30x1.5 for 1873-305/405	50		10
CLR-3527-040	Lock nut, M40x1.5 for 1874-303/403	62		12
CLR-3527-041	Lock nut, M50x1.5 for 1875-303/403	75		13
CLR-3527-042	Lock nut, M60x1.5 for 1876-303/403	90		13
CLR-3527-043	Lock nut, M80x1.5 for 1877-303/403	115		16
CLR-3829-132	1873X05 Hose clamp for electronic magnetic sensor			
CLR-3829-133	1874X03 Hose clamp for electronic magnetic sensor			
CLR-3829-120	1875X03 Hose clamp for electronic magnetic sensor			
CLR-3829-134	1876X03 Hose clamp for electronic magnetic sensor			
CLR-3829-135	1877X03 Hose clamp for electronic magnetic sensor			

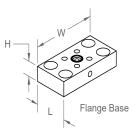


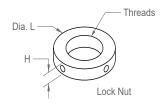


Standard Arm with Contact Bolt and Jam Nut



Long Clamping Arm









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