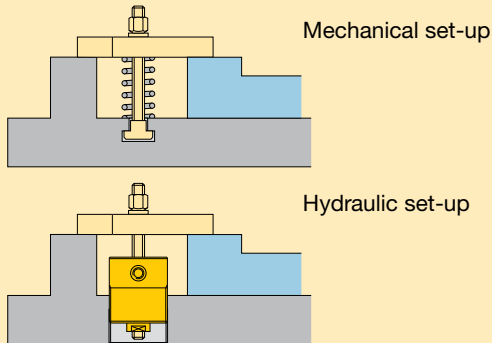


Hollow plunger cylinders *Application & selection*

Shown: HCS-20, RWH-121, RWH-202

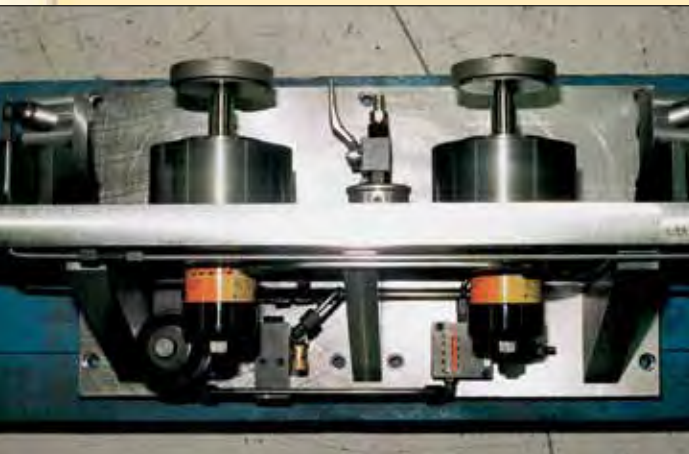


▶ These cylinders are regularly used for upgrading mechanical clamping to faster and easier hydraulic clamping. Other typical applications include production pressing, punching and crimping operations.



Traditional mechanical elements in a clamping fixture are replaced by a hollow plunger hydraulic cylinder.

■ Two Enerpac RWH-121 hollow cylinders mounted at the back side of a fixture.



For high force push and pull applications on and around the fixture

- Load can be attached to either end of the cylinder, providing a choice of push or pull actions - both realizing full cylinder capacity
- Very high cylinder capacities contained within small dimensions allow compact fixture designs
- Spring return operation allows for easy unloading of the workpiece
- Threaded collars and base mounting holes allow mounting flexibility, including table-top surfaces and T-slots
- Nickel-plated plungers, plunger wipers and internal venting prevent corrosion and support longer operation life on all HCS models
- The CY series hollow plunger cylinders can be manifold mounted (except for CY-1254-25)

Product selection

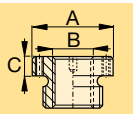
Cylinder capacity ¹⁾	Stroke	Center hole diameter	Model number	Effective area	Oil capacity	Operating pressure
				in ²	in ³	psi
2610	0.25	0.39	CY1254-25	0.87	0.22	3000
4000	0.33	0.53	MRH-20	1.33	0.41	3000
4000	0.33	0.53	RWH-20	1.33	0.41	3000
4000	0.33	0.53	RWH-20T	1.33	0.41	3000
4830	0.50	0.42	HCS-20*	0.96	0.38	5000
7410	0.31	0.77	CY2129-25¹⁾	2.47	0.77	3000
7410	0.63	0.77	CY2129-5¹⁾	2.47	1.56	3000
12,660	0.48	0.51	HCS-50*	2.52	1.19	5000
13,320	0.63	0.89	CY2754-5	4.44	2.80	3000
13,800	0.32	0.77	MRH-120	2.76	0.86	5000
13,800	0.32	0.77	QDH-120	2.76	0.86	5000
13,800	0.32	0.77	RWH-120	2.76	0.86	5000
13,800	1.02	0.77	RWH-121	2.76	2.76	5000
18,180	0.56	0.67	HCS-80*	3.63	1.99	5000
23,500	0.52	1.06	RWH-200	4.74	2.37	5000
23,500	2.02	1.06	RWH-202	4.74	9.48	5000
25,490	0.63	0.83	HCS-110*	5.06	3.19	5000
36,000	0.50	1.31	RWH-300	7.22	3.60	5000
36,000	1.00	1.31	RWH-301	7.22	7.22	5000
36,000	2.49	1.31	RWH-302	7.22	18.00	5000

¹⁾ At maximum operating pressure. **Note:** Seal material Buna-N, Polyurethane, Teflon.
* This product is made to order. Please contact Enerpac for delivery information before specifying in your design.

Collet-Lok® product line
Swing clamps
Work supports
Linear clamps

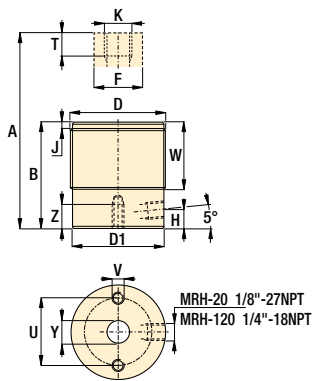
i Optional Heat Treated Hollow Saddles

Saddle type	Cylinder model number	Saddle model No.	Saddle Dimensions (in)		
			A	B	C
Threaded hollow	RWH-200, 202	HP-2015	2.11	1 - 8	.38
	RWH-300, 301, 302	HP-3015	2.49	1¼ - 7	.38

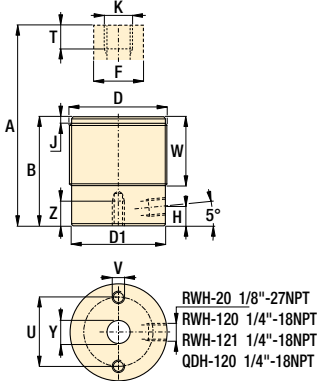


Smooth hollow saddles are standard on all RWH 20 and 30 ton models (12 ton models are not equipped with saddles).

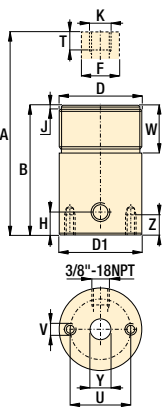
MRH-20, 120



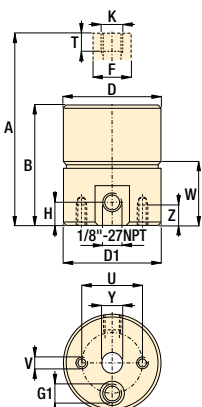
RWH-20, 120, 121, QDH-20



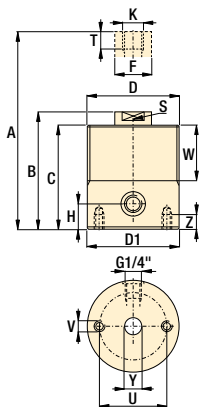
other RWH model



CY models

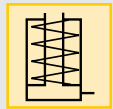


HCS models



- Force:** 2610-36,000 lbs
- Stroke:** .25-2.49 inch
- Pressure:** 800-5000 psi

- E** Cilindros de émbolo hueco
- F** Vérins a piston creux
- D** Hohlkolbenzylinder



i Options

Flange nuts

86 ▶

! Important

Use Grade 8 (DIN12.9) bolt quality or better for pulling.
Use Grade B7 (DIN10.9) threaded rod quality or better for pulling applications.

RWH cylinders can be used up to 10,000 psi maximum working pressure (except RWH-20 and RWH120).

A Product dimensions in inches []

Model number	A	B	C	D	D1	F	H	J	K	S	T	U	V	W	Y	Z	lbs
CY1254-25	2.25	2.00	-	Ø 1.75	1.75	0.56	0.29	-	.375-16 UNC	-	0.62	1.25	.250-20 UNC	0.97	Ø 0.39	0.38	1.0
MRH-20	2.39	2.06	-	M48 X 1.5	1.77	1.00	0.28	0.12	Ø .53	-	0.88	1.38	M6 X 1.0	1.50	Ø 0.50	0.25	1.3
RWH-20	2.39	2.06	-	1.875-16 UN	1.79	1.00	0.28	0.12	Ø .53	-	0.87	1.38	.250-20 UNC	1.50	.500-20 UNF	0.25	1.4
RWH-20T	2.39	2.06	-	1.875-16 UN	1.79	1.00	0.28	0.12	.500-20 UNF	-	0.49	1.38	.250-20 UNC	1.50	Ø 0.53	0.25	1.4
HCS-20	3.43	2.93	2.60	M58 X 1.5	2.28	0.71	0.43	-	M10 X 1.5	0.55	1.01	1.57	M6 X 1.0	1.57	Ø 0.42	0.39	2.4
CY2129-25¹⁾	2.31	2.00	-	Ø 2.63	2.50	1.13	0.31	-	.750-10 UNC	-	1.13	1.75	.375-16 UNC	0.80	Ø 0.77	0.34	2.5
CY2129-5¹⁾	3.36	2.73	-	Ø 2.63	2.50	1.13	0.31	-	.750-10 UNC	-	1.13	1.75	.375-16 UNC	1.54	Ø 0.77	0.44	3.0
HCS-50	3.80	3.32	2.95	M65 X 1.5	2.56	1.10	0.55	-	M12 X 1.75	0.87	0.95	1.77	M8 X 1.25	1.77	Ø 0.51	0.47	3.3
CY2754-5	3.63	3.00	-	Ø 3.5	3.13	1.25	0.44	-	.875-9 UNC	-	1.25	2.12	.375-16 UNC	1.61	Ø 0.89	0.44	6.0
MRH-120	2.54	2.20	-	M70 X 1.5	2.76	1.38	0.39	0.19	M18 X 1.5	-	0.60	2.00	M6 X 1.0	0.68	Ø 0.77	0.25	3.1
QDH-120	2.54	2.22	-	2.750-16 UN	2.75	1.38	0.39	0.19	.750-10 UNC	-	0.62	2.00	.312-18 UNC	0.68	Ø 0.77	0.25	3.0
RWH-120	2.54	2.22	-	2.750-16 UN	2.75	1.38	0.39	0.19	.750-16 UNF	-	0.61	2.00	.312-18 UNC	0.68	Ø 0.77	0.25	3.1
RWH-121	4.24	3.22	-	2.750-16 UN	2.75	1.38	0.53	0.19	.750-16 UNF	-	0.73	2.00	.312-18 UNC	0.68	Ø 0.77	0.25	4.8
HCS-80	4.31	3.75	3.35	M75 X 1.5	2.95	1.26	0.67	-	M16 X 2.0	0.94	1.27	2.17	M8 X 1.25	1.97	Ø 0.67	0.47	5.1
RWH-200	5.39	4.88	-	3.875-12 UN	3.88	2.12	0.75	0.19	Ø 1.06	-	0.88	3.25	.375-16 UNC	1.50	Ø 1.06	0.38	13.6
RWH-202	8.39	6.37	-	3.875-12 UN	3.88	2.12	0.75	0.19	Ø 1.06	-	0.88	3.25	.375-16 UNC	1.50	Ø 1.06	0.38	17.0
HCS-110	4.74	4.11	3.66	M90 X 2.0	3.54	1.57	0.75	-	M20 X 2.5	1.26	1.44	2.56	M10 X 1.5	2.36	Ø 0.83	0.59	7.9
RWH-300	5.52	5.02	-	4.500-12 UN	4.49	2.54	0.85	0.19	Ø 1.31	-	0.88	3.62	.375-16 UNC	1.66	Ø 1.31	0.62	19.0
RWH-301	6.52	5.52	-	4.500-12 UN	4.49	2.54	0.85	0.19	Ø 1.31	-	0.88	3.62	.375-16 UNC	1.66	Ø 1.31	0.62	21.5
RWH-302	9.52	7.03	-	4.500-12 UN	4.49	2.54	0.85	0.19	Ø 1.31	-	0.88	3.62	.375-16 UNC	1.66	Ø 1.31	0.62	24.0

¹⁾ For these models G1 = manifold and .125-27 NPTF

Linear cylinders
Power sources
Valves
Pallet components
System components
Yellow pages