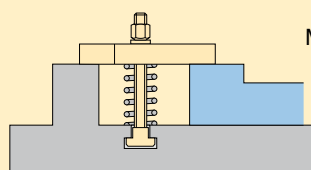


Hollow plunger cylinders *Application & selection*

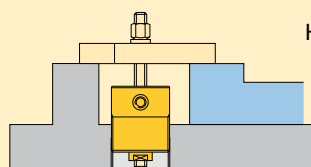
Shown: HCS-20, RWH-121, RWH-202



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.



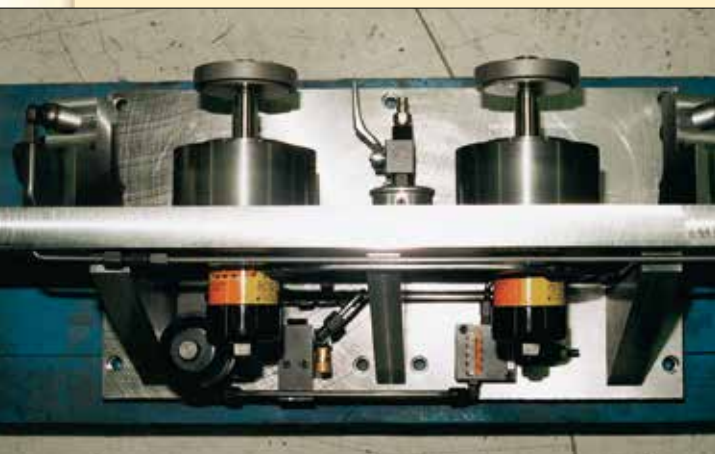
Mechanical set-up



Hydraulic set-up

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
kN	mm	mm		cm ²	cm ³	bar
11,6	6,4	9,9	CY1254-25	5,61	3,61	210
17,8	8,4	13,5	MRH-20	8,58	6,72	210
17,8	8,4	13,5	RWH-20	8,58	6,72	210
17,8	8,4	13,5	RWH-20T	8,58	6,72	210
21,5	10,2	10,7	HCS-20*	6,19	6,23	350
33,0	7,9	19,6	CY2129-25	15,94	12,62	210
33,0	16,0	19,6	CY2129-5	15,94	25,56	210
56,3	12,1	13,0	HCS-50*	16,26	19,50	350
59,3	16,0	22,6	CY2754-5	28,65	45,88	210
61,4	8,1	19,6	MRH-120	17,81	14,09	350
61,4	8,1	19,6	QDH-120	17,81	14,09	350
61,4	8,1	19,6	RWH-120	17,81	14,09	350
61,4	25,9	19,6	RWH-121	17,81	45,23	350
83,7	14,2	17,0	HCS-80*	23,42	32,61	350
104,6	13,2	26,9	RWH-200	30,58	38,84	350
104,6	51,3	26,9	RWH-202	30,58	155,35	350
113,4	16,0	21,0	HCS-110*	32,65	52,27	350
160,2	12,7	33,3	RWH-300	46,58	58,99	350
160,2	25,4	33,3	RWH-301	46,58	118,31	350
160,2	63,2	33,3	RWH-302	46,58	294,97	350

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.