Power Packs

Hydraulic Power Unit Series

OBEL-P®

HPU

In cooperation with MAN Diesel, Wärtsilä and engine owners worldwide, Chris-Marine has developed a range of mobile Hydraulic Power Units (HPU) delivering up to 5 times the normal speed when needed, while fulfilling the requirement for pressures above 3000 bar.
An HPU unit from Chris-Marine can loosen a cylinder cover on the world's largest diesel engines in less than five minutes. The HPUs are not only suitable for closed-circuit tools, but can also be used for floating of camshafts as well as opening of SKF couplings. Special operation modes make it possible to operate several types of tool series safely with one unit only.









Application areas

- Marine vessels
- Power plants
- Workshops

Key benefits

- Pneumatic-hydraulic power supply for hydraulic tools
- For operation of hydraulic engine tools, i.e. hydraulic jacks
- Internal pump(s), high-pressure pipes, connections, gauges etc are of top technical quality to ensure reliability and efficiency
- A series of power units covering the needs of most engines
- Smaller units can also be powered by hand
- Can be adapted for special applications like opening SKF couplings, opening/separating turbo chargers etc.
- Twin-pump models drastically reduce pumping time with about 80% of normal time, typical pumping time for a cylinder cover will be 2-6 minutes depending on engine size.
- Double acting models give significantly higher oil flow at high pressure compared to conventional pumps.
- Recommended and approved by leading engine manufacturers like MAN & Wärtsilä.

Sustainable engine operation

Powerful hydraulic tools require robust and reliable power sources.
Chris-Marine's hydraulic power units have been designed to last.
Their high-quality parts and well proven pump technology ensure they have a long lifetime. This means fewer costly investments in power equipment, and as a result less waste of material.



Hoses and couplings

Hoses and couplings supplied by Chris-Marine, fulfilling all requirements and specifications by engine designers like MAN and Wärtsilä. The high quality prevents oil leakage and ensures that the crew can work without interruption.

Reliable high-quality components

Spare parts for most critical components are available worldwide through authorized Chris-Marine representatives. The expected lifetime of an OBEL-P HPU is 20+ years.



Technical specifications

Model	HPU 1500	HPU 1500 (1450 bar)	HPU 1500-2	HPU 2250	HPU 2250S	HPU 2250-2S	HPU 2800-3	HPU 3500-3	HPU 3500 W
• Drive medium	Air/Hand	Air/Hand	Air/Hand	Air	Air	Air	Air	Air	Air
• Pump technology	Single	Single	Single	Single	Single	Twin	Double acting	Double acting	Twin
• Pneumatic inlet pressure (bar)	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10
• Hydraulic pressure (bar) Output@Input	1500@7 1000@4.6	1500@7 1000@4.6	1500@7 1000@4.5	2000@7 1700@6 1400@5	2000@7 1700@6 1400@5	2250@8	2200@5 2600@6 3000@7	2200@5 2600@6 3000@7	3300@10
• Standard safety valve setting (bar)	1050	1450	1450	1750-2050 *(adjustable)*	2050	2050	2650	2650	3000
• Hydraulic flow @ no output pressure (l/min)	0.3	0.3	0.45	0.5	0.45	1.9	0.8	0.8	2
• Air consumption @ 0 bar (l/min)	300-1050	300-1050	300-1050	300-1050	300-1050	300-1050	Up to 2500	Up to 2500	300-1050
• Hydraulic gauge (bar/ MPa, class 1.0, Ø 160) range (bar)	1600	1600	1600	2500	2500	2500	4000 *(optional 3000)*	4000	4000
• Pneumatic inlet	1/2" BSP female (ISO-228-1-G-1/2), adapter for reduction to 1/4" BSP included				1/2" BSP female (ISO-228-1-G-1/2) adapter to 1"BSP included		1/2" BSP female	1/2" BSP female (ISO-228-1-G-1/2) adapter to 1"BSP incl	1/2" BSP female
• Hydraulic outlet	1/4" BSP female (ISO-228-G-1/4), adapter CEJN 116 male incl			1/4" BSP female (ISO-228-G-1/4), adapter CEJN 125 male incl	1/4" BSP female (ISO-228-G-1/4), adapter CEJN 125 female incl		1/4" BSP female (ISO-228-G-1/4), adapter CEJN 125 male incl	1/4" BSP female (ISO-228-G-1/4), adapter CEJN 135 male incl	1/4" BSP female (ISO-228-G-1/4), adapter CEJN 125 female incl
• Weight (kg)	17	17	20	20	23	28	33.5	33.5	28
• Dimension (LxWxH mm)	340x256 x380	340x256 x380	380x360 x380	380x360 x380	440x330 x400	440x330 x400	460x330 x400	460x330 x400	460x330 x400
• Typical engine/tool (smallest HPU)	Everllence ≤60 MC Wärtsilä RND Everllence gensets Wärtsilä 4 str.engs Rolls-Royce Bergen Mitsubishi UEC Himsen		Everllence ≥70 MC Sulzer Z-series	Everllence MCC	RTA ≤72 RTA Flex ≤72	RTA ≥84 RTA Flex ≥84	Everllence ME engines Workshop	Workshop	Everllence ME engines Workshop



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