



Miniature . Hydraulic . System



WE ARE THE SOLUTION.

Shanghai Mocen Fluid Power Co., Ltd | www.mocen.cn

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DC hydraulic power unit is compact hydraulic system, ideal for mobile equipment and vehicle application which powered by DC battery. They are small but powerful, Intermittent duty cycle. We can build the hydraulic power unit in variety of functions...



DC
Hydraulic Power Unit
Compact | High Efficiency | Reliable
12V, 24V, 36V, 48V

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Modular Design
High Quality Parts and Components
Tested 100% before packing
Flexible DIY program

- Multiple Drive Power
From 350W, up to 4.5kW
- Voltage
12V and 24V, other voltage can be customized.
- Working Pressure
Up to 25MPa(3200PSI)
High pressure version can reach 30MPa (4300PSI)
- Variety Flow Rate
From 0.5 to 30LPM
- Hydraulic Function
Single acting, double acting and wide variety of multi-cylinder operating upon your special circuit and requirement.



How to Select

Step 1, Choose the appropriate product group from the chart "Flow Rate vs Pressure" according to your application.

Step 2, Choose the right circuit from our list or send your circuit or send us your demand about function.

Step 3, Choose the suitable type and size of the oil tank.

Step 4, Determine the mounting style: vertical or horizontal, and other mounting requirements

Step 5, Consultant us with your selection and other requirements and specifications.



About Duty Cycle

Due to high power but small size, most of DC hydraulic power unit are intermittent running, $S_2 < 2$ minutes. The cooling fan installed in a few big motor, so their continuous running time will reach 5-10 minutes. We will recommend customer to adapt motor with higher power in order to obtain longer running time.



AC hydraulic power unit is compact hydraulic system, ideal for small machine and equipment which powered by AC. They are small but powerful, continuous running. They can be built in wide variety of functions



AC
Hydraulic Power Unit
Compact | High Efficiency | Reliable
110V, 220V, 380V, 460V
50Hz, or 60Hz

Tested 100%
Modular Design
High Quality Parts and Components

How to Select

Step 1, choose the appropriate product group from the chart “ Flow Rate vs Pressure” according to your application.

Step 2, determine the IEC or NEMA AC motor.

Step 3, choose the right circuit from our list or send your circuit or send us your demand about function.

Step 4, choose the suitable type and size of the oil tank.

Step 5, determine the mounting style: vertical or horizontal, and other mounting requirements

Step 6, consult us with your selection and other requirements and specifications.

AC Motor Option:

- IEC Standard AC motor
- NEMA Standard AC Motor
- Some Special AC Motor, please consult us.

Rate Power from 350W to 4KW



Key Future:

Pressure: Up to 30MPa(350Bar)

Flow Rate: Up to 30LPM

Duty Cycle: Most of AC power units are capability of continuous running (S1), just a few are intermittent running which designed for some particular applications.



— “...the available mounting space is too small...”

— “Try this...”



The mini hydraulic system used in many convertible car...



T9

Micro Hydraulic System
 Mini | High Efficiency | Reliable
 DC12V, 24V, 36V, 48V
 AC220V(Single Phase), 380V(Three Phase)
 AC 110-230(Single Phase)
 50Hz or 60Hz



Complete miniaturizing design from a part inside to the whole system

- **T13 Series**
profile size 130X130mm
AC only,
- **T9 Series**,
profile size 93X93mm
AC or DC
- **T8 Series**,
profile size 85x85mm
AC or DC
- **T7 Series**,
profile size 75x75mm
DC Only



Rare-earth P.M. DC Motor

We using rare-earth permanent magnet to make these DC motors in the mini hydraulic power unit. These motor became smaller, high efficiency and better performance.

Oil Immersed AC Motor

Oil immersed AC motor is benefit to have better cooling performance, and reduce size.

Built-in Pump

Innovative miniature internal gear pump and piston pump was built-in the central manifold with valves, instead of regular independent pump.



T13

Intermittent Duty
 S2= 20sec. to 1 minute
 S3 > 30%

IP Grade
 IP67 for all of our Mini Hydraulic
 Max IP68 upon customer's demand



-- "Can be easier to install a hydraulic system...."

-- "Try this..."



Mini

Electro-Hydraulic Actuator

Mini | High Efficiency | Reliable

DC12V, 24V
AC110V, 220V, 380V



The electro-hydraulic actuator is our new product line. It is a all-in-one super compact hydraulic system with actuator.

- Plug & Play, no hydraulic hoses and fittings. Maximum simplified installation and eliminated leaking possibility.
- Miniature structure, small space occupancy
- Easy customizing for your application, variety of load, speed, voltage...
- Bore Size 25mm and 32mm.
- Load up to 1300kg.
- DC 150, 250, 350, 500 and 800W
- AC 300W



Single Acting:
power up, gravity or force back



Reciprocating, double acting



Double Acting:
power up and power down.



Two-stage telescopic, single acting

DC Hydraulic Power Unit

AC Hydraulic Power Unit

Mini Hydraulic Unit

Mini Electro-hydraulic Actuator

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