



HYDRAULICS • PNEUMATICS • VACUUM • ELECTRONICS • AUTOMATION

www.fainc.net

HYDRAULIC POWER UNIT REQUEST FORM

DATE: _____

Customer _____

Contact Name: _____

Address _____

Phone # _____

City/State _____

Fax# _____ or Email _____

OEM _____ USER _____

1.) Has anyone else quoted or built this system before? If so did it work? _____
If this quote is to reproduce a unit initially built outside the US see page 3 before continuing.

2.) Is this quote for price comparisons only? _____

3.) How soon do they need the quote and what delivery on the Hydraulic Power Unit? _____

4.) Are there any space, style or size limitations, list: _____

5.) What is the hydraulic system suppose to do? _____

6.) GPM required _____, **if known**. Type of Pump preferred, Piston, Vane, Gear, (Compensated or Fixed)

What Type of fluid will be used? _____

7.) Required System Pressure **if known** _____

8.) Required cycle Time or Speed of each function needed. Cycles per minute, **is almost always unacceptable** unless loading, unloading and dwell times are given. What we would really like to have is velocity in/sec or ft/min.

9.) What is the sequence of operation and how many functions happen simultaneously?

10.) Is it possible that the system will require low flow and long holding cycles? If so, would the customer consider an air drive system. _____

11.) Voltage Hz. and phase required for: motor _____ valves _____

12.) Is there a need for special enclosures, Washdown, Hazardous duty or Explosion proof _____
What rating is required if Hazardous or Explosion proof? _____

13.) Is there a limit on available power? _____

14.) Will the Hydraulic System be operating (Cylinder's or Hydraulic Motor's or Both)? _____

15.) Cylinder Size and Quantity, Stroke: _____ Force needed _____ lbs.

What type of cylinder mount _____ and what type of rod end is needed _____

Mounting details...Horizontal? _____ Vertical? _____ Overhung or overrunning load? _____

Punch application? _____ Die springs available? _____ or follower cylinder _____

16.) Hydraulic Motor or Motor's: required Qty. _____ RPM _____ and Torque if known _____
Or present input hp and output rpm _____

Is The Customer using an electric motor to drive a speed-reducing device (worm gear, planetary gearbox, spur/bull gear and/or other reductions such as chain and sprocket)? We need to know the type of reduction device or devices and the **ratio** of each device and confirmation of the final drive speed needed? The type of gearbox is important since some types of boxes are as little as 50% efficient. All customers are not aware of this. Brand names and model numbers of gearboxes may be required. If **large** chain is used is the weight of the chain supported by the shaft of the motor/gearbox. What are the orientations of the driving and driven shafts? A simple drawing or photo of the existing installation may be vitally important.

17.) Is the hydraulic motor expected to hold a static load? _____ Is there a mechanical brake presently installed?

18.) Will the customer need Directional Control Valves? _____

19.) Do the actuators, motors or cylinders need to start, stop and reverse? Please describe the function of each actuator. _____

20.) If a hydraulic motor is to be used will it be starting under a full load or are the starting torque and running torque requirements different?

21.) Is any form of speed control required for the actuators? If so, is it manually adjusted and set or must it be varied frequently? _____ What method of adjustment is desired? _____

22.) If a hydraulic motor is used what are the minimum and maximum rpm requirements or desires of the customer.

Note: Hydraulic motors are available in high-speed (500-3000 rpm), low-speed (3-300 rpm) and very low-speed (0-20 rpm) configurations depending on torque requirements. Typically, low torque models are for higher speeds. High torque units will be lower speeds. Try to avoid using the term horsepower: Speed and torque are critical when choosing hydraulic motors. The customer should not expect any hydraulic motor to operate well at speeds from 0-3000 rpm. The range is too wide.

23.) How many valves and what type of actuator or voltage is required _____, Shipped lose or Mounted on the HYD PU _____ Subplates _____ or Manifold _____

24.) Does the customer have a specified filtration requirement, if so, what? _____

25.) Will water be available or must air be used if a cooler is required? _____
Note: Air-cooling under no condition can get oil temperature any closer that 20 degrees higher than ambient temp.

Is an alternative cooling method acceptable? _____

Cycle Times per day or usage rate per day _____

26.) Can we quote electric motor starter and control panels? _____

If so, what type of controls is needed? _____

27.) What type of environment will the Hydraulic Power Unit be in? _____

Indoors _____ or outside in the weather _____ or without a roof _____

- List any special requirements by the Customer, please...

Units built outside the US:

Units built outside the US, particularly in Europe, often have references or specification in metric terms. It is very important that we have all of those specifications. Most importantly are terms of "KW" which convert to HP. Electric motors that turn at approximately 1500-rpm on 50-Hz power will turn at 1800-rpm here. The "KW" rating which ultimately relates to HP could indicate a rating that falls in between our standard sizes. We need correct data or we could undersize an electric motor or incorrectly spec a horsepower limited pump. This is also true of engine driven units.

QUOTE SUBMITTED TO _____ via fax _____ or email _____

DATE SUBMITTED: _____

Respectfully,

**FRANKLIN Automation
Sloan Fluid Accessories**

cc:

MEMPHIS, TN 38118
 3854 WATMAN
 (901) 362-7504
 (800) 264-7406
 FAX (901) 794-6913

FORT SMITH, AR 72901
 5609 SOUTH 14TH ST.
 (479) 646-7448
 (800) 682-5422
 FAX (479) 646-2263

JACKSON, MS 39209
 ONE DUTCHMANS ROW
 (601) 969-7022
 (800) 238-7500
 FAX (601) 354-0630