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 with 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: