



MILL HYDRAULIC EQUIPMENT

R and L Power Systems have been providing mill hydraulic equipment from the time they began business. We have sold systems all over the world. Below is information on our systems.

A typical mill hydraulic system includes the following items:

- Power Unit – one unit is needed per milling tandem
- Gauge Panel or Four Valve Manifolds – one control panel is typically used to control the pressures on all the accumulators in a system. These can be from a one mill panel up to 6 or more mills. A Four Gauge Manifold is used at each mill to control two accumulators.
 - The Gauge Panel is available as a unit to be mounted on a stand or can come built into its own stand which is an enclosed unit with connection points for the field plumbing.
- Bladder style accumulators, one used for each mill ram
- Field plumbing – this includes the hoses and fittings from the accumulators to the mill rams as well as the hard plumbing from the power unit to the gauge panel (or Four Valve Manifolds) and to the accumulators
- Optional items include:
 - Top Roll Position Indicators – visual and electronic
 - Display panel for use in the control room
 - Optional upgrade to control the pressures of the accumulators from the control room
 - Mill Rams seals
 - Recommended spare parts
 - Charge and Gauge Assembly with hose (for checking and filling accumulators)
 - Repair Tool kit for accumulators
 - Hydraulic oil



GAUGE PANEL STAND - TWO MILL



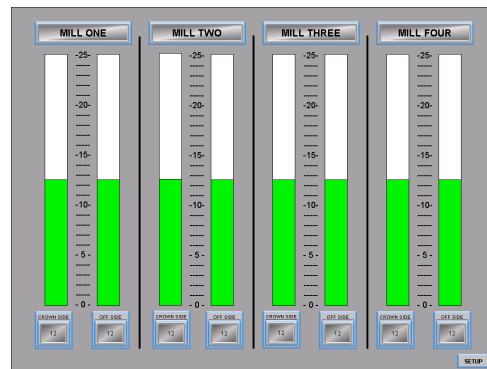
POWER UNIT



**TOP ROLL POSITION INDICATOR
- VISUAL - ELECTRONIC**



GAUGE PANEL - FIVE MILL



DISPLAY PANEL SCREEN SHOT

MILL HYDRAULICS QUESTIONNAIRE

1. NUMBER OF MILLS IN TANDEM _____
2. PRESSURE RATING ____ 3,000 PSI ____ 5,000 PSI (CHECK ONE)
3. POWER AVAILABLE AT SITE _____
4. DISTANCE BETWEEN MILLS _____
NEEDED ONLY IF FIELD PLUMBING IS TO BE INCLUDED IN QUOTE
SEND SKETCH IF POSSIBLE
INCLUDE LOCATION OF POWER UNIT AND GAUGE PANEL
5. DISTANCE FROM ACCUMULATOR MOUNTING TO MILL RAM _____
THIS IS NEEDED TO DETERMINE HOSE LENGTH
IF NOT INCLUDED WE WILL INCLUDE 10 FOOT HOSE LENGTH IN QUOTATION
6. MILL RAM CONNECTION SIZE _____
TYPICALLY WE INCLUDE A MALE ¾" NPT ADAPTOR FITTING FOR THIS. IF
SOMETHING ELSE IS NEEDED PLEASE LIST
7. MILL RAM SIZE _____ INCLUDE IF MILL RAM SEALS
ARE TO BE INCLUDED IN QUOTE
8. QUOTE GAUGE PANEL STANDARD ____ OR WITH STAND ____
9. QUOTE FOUR VALVE MANIFOLD
10. OPTIONS TO INCLUDE (CHECK BOX TO INCLUDE)
 - TOP ROLL POSITION INDICATORS
 - i. STANDARD VISUAL TYPE
 - ii. VISUAL ELECTRONIC TYPE
 - iii. DISPLAY PANEL FOR CONTROL ROOM
 - iv. DISPLAY PANEL WITH CONTROL OPTION
 - RECOMMENDED SPARE PARTS
 - CHARGE AND GAUGE ASSEMBLY
 - ACCUMULATOR TOOL KIT
 - HYDRAULIC OIL

RETURN THIS QUESTIONNAIRE ONCE IT HAS BEEN COMPLETED TO YOUR LOCAL AGENT
OR TO: SALES@RANDLPOWERSYSTEMS.COM