

INDUSTRY

Metal Processing

CATEGORY

Hydraulic Products
- Hydraulic Power Units (HPU)
- NFPA Cylinders

APPLICATION

Design of high-pressure hydraulic system for new metal grinding machine.

PROBLEM STATEMENT (PAIN)

A market leader in the metal processing industry was designing a new hydraulics powered metal grinding machine to expand its product offering. The requirements included:

- A compact design for the hydraulic power unit (small envelope dimensions, reduced floor space).
- New polymer seal design on the hydraulic cylinders to avoid premature wear from the metal dust and debris generated by the machine.
- Product launch relied on a tight design, production and test schedule to meet market demand.
- Hydraulic system design knowledge and support.

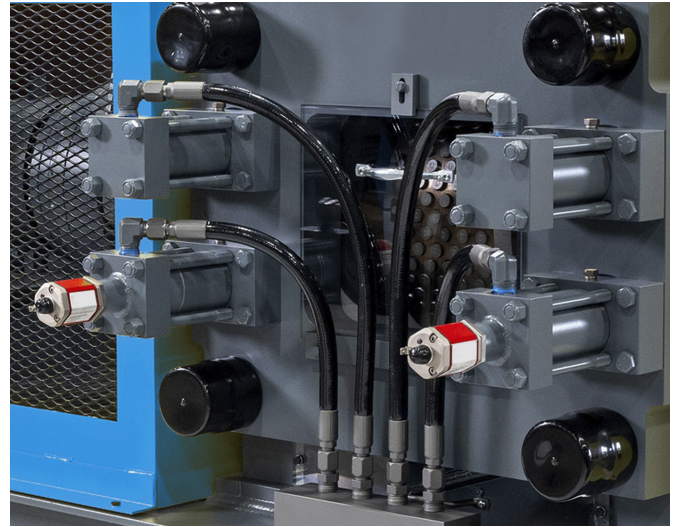
FLOW PRODUCTS SOLUTION

- Flow Products engineering team worked with customer's specifications to design a power unit that met required performance and smaller envelope dimensions.
- New rod seal design incorporating metal scraper for minimizing wear on polymer seals.
- New power unit system design incorporated standard, stock items to reduce component lead times.



RESULTS

1. Completed design of power unit with smaller footprint and required envelope dimensions.
2. Hydraulic cylinders designed with new seal system to extend service life.
3. New line of grinding machines launched per customers required date.



NFPA Cylinders

CUSTOMER SERVICE & TECHNICAL SUPPORT

Our dedication to market leading service levels is always evolving. We work to meet all your requirements and strive to provide additional services that enhance the purchasing experience. We offer the following:

- Same day quote turnaround on standard products
- Customer dedicated inventory
- Custom labelling and packaging
- IFPS certified Fluid power specialists
- Complete system design, assembly and test capabilities
- System troubleshooting and diagnostics
- Product and system repair services
- Customized technical training programs

OUR HISTORY



For over seventy years, Flow Products has been a leading distributor and integrator of pneumatic, hydraulic and electro-mechanical products in the Chicago and mid-west region. Our product offerings range from fittings, valves, motors, pumps, actuators, sensors to a full array of custom manifolds and engineered systems - all designed to improve our customers's productivity. Please visit us at FlowProd.com to review all the market leading services we provide, standard products available and custom designs.

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