

AXIAL FLOW PUMP

Custom Design / Applications

In order to operate at maximum efficiency, a pump must be carefully designed for specific operating conditions. While other companies stock certain sizes and designs, FPI builds each pump with a specific job in mind.

Every design and construction element of your pump is custom tailored to meet the future use. Maximum efficiency and reliability results when all parts work smoothly toward a clearly defined design.

The **size and configuration of the pump** are determined by the volume, type of fluid to be moved and dynamic head required. Thickness and type of steel, choice of parts and materials, and assembly methods are also dictated by the nature of the job. A pump for fresh water use would not require the same corrosion-resistant steel needed by a pump for brine. Both pumps, however, would receive the same handcrafted attention and care during construction to guarantee long life and efficient operation.

The type of power supply is determined by the application and customer requirements. FPI can incorporate any type of power source desired, including diesel, electric, electric submersible, propane, natural gas, or gasoline. FPI has extensive experience designing drives to combine reliability, economy and minimized maintenance. We design the drive systems for belts, gears, hydraulic or direct drive to suit your specific job.

FPI manufacturing has been building **custom** axial flow pumps since 1937.

Axial flow pumps by FPI manufacturing are designed to be versatile in their operation and application.

Whether the use is agricultural, industrial, municipal, or mining, our pumps are built to withstand continuous 24/7 operation and are designed to be on line as needed. No pre-start maintenance or lubrication is necessary, even after months of idle or standby service.

INDUSTRY

The need for high volume liquid transfer in industrial uses has been

effectively met with axial flow pumps from FMI. These pumps find major applications in dewatering of excavations, dams, process water cooling, dry docks, processing plants and, more recently, thermal cooling.

AGRICULTURE

In addition to the familiar uses of flood control, irrigation and drainage, axial flow pumps serve agriculture for hydra coolers, river intake stations, fish farms, freeze protection, flood control and supplying water to overhead irrigation pressure pumps.

MUNICIPALITIES

Many of Water Management Districts rely on the FPI pumps for storm water removal in flood conditions and canal replenishment in dry conditions to maintain water quality. Wastewater treatment facilities use our pumps for permanent and emergency by-pass service.

MINING

Axial flow pumps are especially useful in open pit mining, strip mining of coal and phosphates, and material pits of all kinds.

The variety of uses is on the increase as the axial pump demonstrates itself as the most efficient method for high volume and medium head pumping.