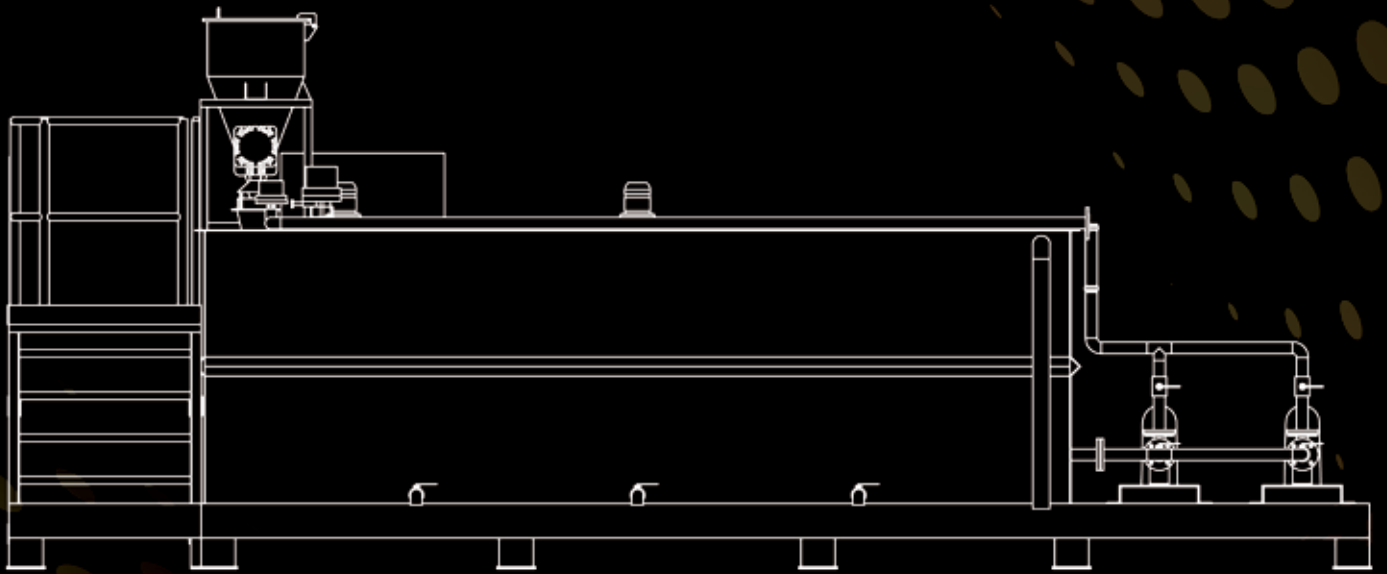




mip | PROCESS CORPORATION

# flocculant dosing plants



## OUR COMPANY

MIP Process Corporation is a global Process Equipment sales and manufacturing company servicing the Mineral processing, Food & Beverage, Waste water, Chemical, Petrochemical and industrial markets. We pride ourselves on being truly customer-centric with unsurpassed levels of customer service.

MIP Process Corporation's mission is to be the preferred supplier of process equipment with an offering that is underpinned by:

- customer focus
- reliability
- innovation
- continuous improvement

We specialise in the supply of Process Equipment, but have the capability to assist with plant design around the Company's core technologies.

## BACKGROUND TO FLOCCULATION

Flocculants are polymers that promote flocculation by formation of bridges between themselves and thus become suspended particles to aggregate. When the suspended particles are flocculated into larger ones, they are settled in devices like thickeners and clarifiers and removed with the underflow.

The flocculants accelerate the settling process, which leads to the potential use of smaller thickeners.

Flocculants can also be used to aid filtration.

## APPLICATIONS

Flocculation is employed for a variety of applications from mineral processing to purification of drinking water. This includes:

- Concentrate and Tailings thickeners in the mining industry
- Water treatment plants
- Filtration aid
- Sewage applications
- Treatment of industrial waste water streams
- Clarification processes

## BACKGROUND TO FLOCCULATION

The MIP series of Flocculant Plants are supplied according to consumption rates.

Model No	Flocculant Consumption (lb/h)
MIP - 050	0 to 0.4 lb/h
MIP - 100	0.4 to 1.1 lb/h
MIP - 200	1.1 to 2.2 lb/h
MIP - 300	2.2 to 4.4 lb/h
MIP - 400	4.4 to 8.8 lb/h
MIP - 500	8.8 to 17.6 lb/h
MIP - 600	17.6 to 35.3 lb/h
MIP - 700	35.3 to 66.1 lb/h
MIP - 800	66.1 to 132.3 lb/h

Creating value through innovative superior designs and building of strong supply capabilities



## ENGINEERING STANDARDS

All engineering, design and construction is based on sound internationally approved engineering principles as well as practical applications.

## AFTER-SALE SERVICE

MIP Process Corporation's products have been designed to ensure minimal maintenance with easily replaceable parts for minimum downtime.

All our products carry an eighteen (18) month warranty against the industry standard of twelve (12) months. This decreases the risk when buying MIP Process equipment. We offer an after-sales service and our Technical and Service departmental staff is available on a continuous seven (7) days a week basis to offer assistance.

## BENEFITS

A range of benefits are available to business partners when purchasing equipment from MIP Process.

Feature	Benefits
Fully automated	No operator intervention required
Skid mounted design	Reduced installation required
Pre-Engineered units	Short delivery times
Minimal maintenance required	Low operating costs
User friendly fault finding	Ease of operation
Liquid and Powder polymers can be treated	Custom design
Flexible	Easy to change parameters
Efficient wetting of flocculant	No discard of mixed polymers

Furthermore, customers are not 'locked-in' to specific polymers, they can make their own choice.

## AFTER-SALE SERVICE

The main components of the fully automated MIP Process Corporation flocculant plant include:

- Multiple compartment steel tank system
- Galvanised walkway, staircase and handrails
- Make-up tank mixers and valves
- Flocculant bin with screwfeeder system
- Stainless steel flocculant wetting head arrangement
- Dosing pumps with base frame
- Control panel in IP65 protection
- Relevant automatic valves and inter connecting piping

Tanks can be supplied in a variety of materials and designs.



Flocculant Plant with hoist



Skid mounted Flocculant Plant



Flocculant hopper and wetting head



100ft $\Phi$  Thickener



85ft $\Phi$  Thickener in operation



MIP-200 Flocculant Plant



325ft<sup>2</sup> Linear Screen

### **Project Management**

Owing to the high level of importance that MIP Process Corporation places on delivery, we ensure that each project has a world-class management team. This is coupled with the resources of highly experienced subcontractors, for the different aspects of each project.

### **Low Investment**

Capital costs - Our equipment design is conservative and robust to ensure it is still in operation many years from now. We understand that process conditions can change and make allowances for this.

### **Test Facility**

A comprehensive test facility is available to our customers. Preliminary sizing can be done using our extensive database.

### **MIP Value Proposition**

The MIP designs consider not only the customer's process data, but also the long-term mechanical performance, maximum circuit efficiency, availability and minimised operating costs.

## **PRODUCT & SERVICES**

MIP PROCESS CORPORATION strives to design and manufacture process equipment that is technically advanced, reliable and customised for each application. We believe that each ore body is different and a 'fit for all design', is not necessarily the optimum solution.

Our designs are simple yet robust and reliable. Our philosophy is to minimise the customer's total operating costs, thus minimising capital and operating expenditure.

The full product range includes:

- Attrition Scrubbers
- Clarifiers and Thickeners
- Flocculant and Reagent Make-up Plants
- Horizontal Linear Screens
- Slurry Samplers

## **CONTACT DETAILS**

Address: 770 'L' Street, Suite 950, Sacramento, CA, 95814

Telephone: +1-916-449-3994

Fax: +1-916-449-3984

eFax: +1-916-449-3963

Email: [sales-usa@mipprocess.com](mailto:sales-usa@mipprocess.com)

Website: [www.mipprocesscorp.com](http://www.mipprocesscorp.com)