

# Innovation Wiz Invention





### Profile:

M/S PM Tech Machinekraft is a team of young professionals experienced in designing and manufacturing for industries. We stay updated with industry trends and provide tailored solutions for part/component a critical process in manufacturing. Our precision methods, guided by trained experts, ensure high-performance components meet standards, improve efficiency, guarantee low costs and high production uptime, and focus on personalized, customer-oriented solutions while committing to values

### WHY CHOOSE US?

#### Highly Experienced Team

Our experts helps you to keep your machines up and running even in breakdown scenarios with their knowledge and real time analysis.

#### Cost Effective

We prioritize cost-effectiveness by enhancing process reliability and considering unique factors to boost production at affordable prices, keeping you competitive.

#### Timely Delivery

Our goal is to deliver on time and every time. Timely delivery is a promise that defines our brand.

## AQUEOUS BASE CLEANING EQUIPMENTS

### Single Chamber Multi Process

#### Features:



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- Single loading & Unloading point
- Complete Media Filtration Possible
- Flexible Cycle time to match output results
- Easy operation using touch screen HMI on operator panel
- Options available for multiple ultrasonic frequencies from 25 khz to 1 Mhz.
- High Degree of Process Flexibility (Spray, Ultrasonic, Inject Flood, Rust Inhibition, Drying)
- Independent time settings, sequencing of processes & repeat cycles, can be done as per application and cleanliness requirement
- 3600 rotation, specific degree tilting, clock wise & anti clock wise are possible, leading to better cleaning results, as 100% coverage of surface is possible during all process
- Due to rotation the component cavities hold minimum liquid media & thereby percentage of carry over media to the next process is much less, leading to a higher bath life
- As multiple processes are taking place in same chamber, hence a single module of Ultrasonics can be used for different processes (Soaking, Cleaning, Rinsing)

#### Optional:

- Chemical Dosing
- Auto filling and drain
- Fume Extraction system/Mist Collector
- Vacuum Drying
- Oil distillation
- Additional storage tank for 2nd rinsing

## MULTI CHAMBER MULTI PROCESS

### Features:

- Can have number of stages depends upon the desired Cleanliness level
- Proper Exposure of components to cleaning processes, ensuring consistent cleaning and drying results Settable Process times and other parameters
- Leading to flexibility of the system, also to adopt for unforeseen changes and operator-friendliness. Multi-basket handling capability.
- Simultaneous treatment of parts in various chamber
- Can be charged with available ultrasonic frequencies from 25 khz to 1 Mhz
- 3600 rotation, specific degree tilting, clock wise, anti clock wise as will dunking is possible High output
- Equipment can be supplied in user-friendly, Standard or Custom Processing Baskets
- Manual format or with full automation

### Optional:

- Conductivity/PH meter
- Chemical dosing
- Cascading Rinse Tanks
- Auto filling and drain
- Fume Extraction system / Mist Collector
- Vacuum Drying
- Oil distillation
- Material handling system (single Arm or Multi Arm)



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## TUNNEL WASHER

### Features:



## BIN CLEANING MACHINE

### Features:

- High hourly output
- Consistently high cleaning quality
- Low space requirements

### Optional:

- Ultrasonic Dunking
- Custom Part Holding Fixtures
- Enhanced Exhaust System
- Enhanced Filtration

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- The possibility of extending systems on a modular basis
- Customised solutions for specific customer needs

## MOULD CLEANING MACHINE

- Traditional cleaning methods are time consuming, labour intensive and abrasive.
- By using ultrasonic for mould maintenance, the result is a cleaner mould with reduced manual input and no wear leading to large cost savings.
- Mak provides standard as well as fully customized solutions as per customer requirement.

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## SOLVENT BASE ULTRASONIC VAPOUR DIGRESSING



Vacuum Assisted  
Solvent Base Cleaning Equipment

### Features:

- High throughput
- Process Simulation on HMI
- Effective cleaning of intricate shapes, through & blind holes etc
- Tailor Made sizes to suit production requirement
- Solvent distillation plant in-built Useful for recycle, reuse of Volatile Organic Solvents
- Condenser system in-built
- Coarse filtration
- Water Separator
- Parts dunking mechanism
- Safety control of solvent flashpoint

### Optional:

- Ultrasonic Additional
- Rinsing Station
- Auto basket transfer
- Distillation unit



## COATING EQUIPMENT

### Features:

- Phosphating, Zink Coating, Black-oxidation, MIP etc.
- coating equipments Can have number of stages depends upon t desired coating
- Proper Exposure of components during coating, ensuring consistent and even coating results
- Settable Process times and other parameters, leading to flexibility of the system, also to adopt for unforeseen changes and operator-friendliness
- Multi-basket handling capability
- Simultaneous treatment of parts in various chamber 3600 rotation, specific degree tilting, clock wise, anti clock wise as will dunking is possible

### Optional:

- Conductivity/PH/TDS meter
- Auto Chemical mixing and dosing
- Auto filling arrangements to maintain water level
- Ultrasonic 25Khz 1 Mhz
- Filtration system to increase chemical bath life
- Fume Extraction system



## OILING MACHINES



### We provide all type of oiling machines

- Spray Oiling
- Mist Oiling
- Oil Dipping
- Converised Oiling Machine



## MARSH CLEAN MACHINE

### Introducing Our High-Performance Industrial Sump Vacuum Cleaner MarshClean



Say goodbye to the hassle and inefficiency of manual chip removal from coolant! marshClean is engineered to streamline the process, ensuring clean and efficient coolant systems for optimal machining performance.



## BENCH TOP ULTRASONIC CLEANERS

Many standard tank sizes are available with no limits on custom sizes. The MOC of tank can be selected from SS 304 to SS 316L. The cleaner also can be equipped with thermostatically controlled heater to improve cleaning. These cleaners are ideal for laboratory use, Industrial cleaning, medical use, optical and jewellery cleaning and many other light duty uses that require a compact unit.





### SELF CLEANING FILTER

- In Typical Process Industries Like Chemical, Paper, Textile, etc.
- Water-based Solutions are used For Various Operations like bleaching.
- The self-Cleaning Filtration System uses wedge wire drum to remove the impurities of 50 Micron and Above



### PAPER BAND WITH MAGNETIC SEPARATOR

In modern technology, filtration and maintenance of coolant is a prerequisite for achieving desired quality standard. This product is widely used for the coolant or liquid agent filtration for Grinding Machines, Drilling Machines, CNC Machines, Industrial Washing Machines, Tube Mills, etc.



### OIL SEPARATOR OIL COALESCER

A coalescer works on a principle where small oil droplets are trapped using the coalescing media to form a larger droplet that can be separated from the liquid. Small droplets come together to form large droplet which comes to the top of the liquid surface, which can be removed using a decanter mechanism and/or an oil skimmer.



### CANDLE TYPE MAGNETIC SEPARATOR

- Candle type magnetic separators are specifically designed and deployed for applications where fine particles of ferrous impurities need to be removed from large sump of coolant/liquids.
- Fine particles suspending the liquid need increased contact time with the magnetic surface, which is achieved using magnetic candles.



### TUBE TYPE OIL SKIMMER

- Tube Type Oil Skimmer has a specially designed method for removing the oil from the tube.
- It has a unique wiper combination attached to the tube itself.
- The result is a virtually oil free tube as it leaves the surface of oil skimmer for quicker oil removal.
- Removal rates can be as high as one hundred liters per hour.



MOBILE HYDRAULIC SYSTEM / AUTOMATIC PIPE BENDING MACHINE



- Integrated Push Die
- Integrated Clamping Die
- Diameter Die



- Control Panel
- Angle Memory, Speed Adjustment Selection, Angle Compensation
- Servo Hydraulic System
- Foot Control Panel



- Control Panel
- Angle memory, Speed Adjustment Selection, Angle Compensation
- Foot control Panel ■ Servo Hydraulic System ■ Integrated Push Die



- Diameter Die 6mm-89mm
- Each size Pipe Diameter Corresponds to only one



- Diameter Die
- Load Bearing Rod
- Integrated Push Die
- Integrated Clamping Die



- HM 42 Integrated Push Die

Pipe diameter and Outer Diameter (mm)	Bending Radius	Minimum Thickness
φ6(1/4")	2.5XØ	Ø6(1.0mm)
φ8	2.5XØ	Ø8(1.0mm)
φ10(3/8")	2.5XØ	Ø10(1.5mm)
φ12(1/2")	2.5XØ	Ø12(1.5mm)
φ14	2.5XØ	Ø14(1.5mm)
φ16	2.5XØ	Ø16(1.5mm)
φ18	2.5XØ	Ø18(2.0mm)
φ20(3/4")	2.5XØ	Ø20(2.0mm)
φ22	2.5XØ	Ø22(2.0mm)
φ25(1")	2.5XØ	Ø25(2.5mm)
φ28	2.5XØ	Ø28(2.5mm)
φ30-32(1-1/4")	2.5XØ	Ø30-32(2.5mm)
φ35	3XØ	Ø35(3mm)
φ38(1-1/2")	3XØ	Ø38(3mm)
φ42-60(2")	3XØ	Ø42-60(4mm)
φ60-89(2-1/2"3-1/2")	3.5XØ	Ø60-89(4mm)
φ89-114(4"-41/2")	4XØ	Ø89-114(5mm)



### BELT TYPE OIL SKIMMER

- Oil skimming makes use of the differences in specific gravity and surface tension between oil and water.
- These physical characteristics allow the SLAT belt skimmer to attract oil and other hydrocarbon liquids from the surface of the fluid.
- The SLAT Type Oil Skimmer can be used in tanks with shallow as well as deep depths.



### BOTTOM OPENING SCRAP BIN

- A heavy-duty scrap handling solution engineered for efficient waste disposal in safe environments.
- The bottom-opening. Mechanism ensures quick and safe discharge of materials using overhead cranes, minimizing manual handling and downtime.
- Built with robust steel construction and equipped with safety interlock for operations
- Patented & Designed by PM Tech Machinekraft



### ONLINE/OFFLINE METAL CHIP CUTTER



- An Industrial grade chip chopping system designed to cut continuous metal chips into manageable sizes. Ideal for Continues Steel & Rolling Mills, it supports both online (directly from machine) and offline (post-process) in integration.
- Enhancing scrap handling efficiency storage space, and ensures smoother conveyor and briquetting system operations
- Applied for patented and designed by PM Tech Machinekraft



### ALL TYPES CONVEYORS

Conveyors are used to move materials efficiently and safely in manufacturing, packaging, warehousing & logistics

#### Features:

- Automated material handling
- Customizable size and layout
- Handles light to heavy loads
- Continuous and efficient operation
- Durable and long-lasting design
- Low maintenance
- Supports horizontal and inclined movement
- Energy efficient
- Integrates with automation systems equipped with safety features

#### Benefits:

- Speeds up production
- Reduces manual labor
- Improves workplace safety
- Lowers operational costs
- Handles heavy or bulk materials easily



## Our Clients:



## Applications:



Automotive Industry



Aerospace Industry



Power Plants



Metal Industry



Precision Machining



Electrical Industry



Textile Industry



Plating Industry



Pollution Control Industry



Beverage / Food Industry



PCB Manufacture



Jewellery Industry



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