

Cleaning & Finishing News

NEWS BULLETIN ON DEBURRING, FINISHING, WASHING & CLEANING



September 2018 | Volume 28

No.1 Surface Engineering Solution Provider with over 4000 Installations

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Deburring | Finishing | Washing | Cleaning

Automatic, Multi-stage Ultrasonic Cleaning Machine for Precision Cleaning

Applications:



Engine Parts



Shock Absorber



Clutch Housing



Aluminium Diecasting



Transmission parts



Manifold



Features	Advantages
Spray, Ultrasonic and Immersed Flood Processes	Multiple Washing / Rinsing Processes
Pre-programmed, Automatic, Material Handling System	Higher Productivity due to simultaneous handling of multiple baskets
Gradual, step-down type, multi-stage Filtration and Contamination separation mechanism	Filtered fresh cleaning medium is available for every cycle, leading to consistent cleaning quality
Basket Rotation Mechanism	Maximum exposure of component surfaces to washing, rinsing and drying processes

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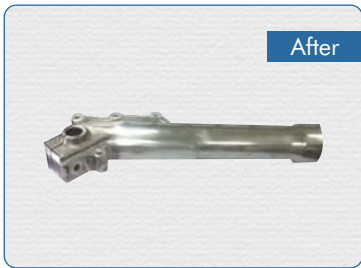
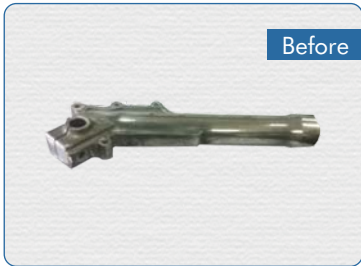
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CASE STUDIES

1

Multi-stage Ultrasonic Cleaning

Objective	: To remove buffing dust from surface
Component	: Shock Absorber Part
Input contamination	: Buffing Dust
Expected cleaning	: Free from Buffing Dust
Requirement	
Present Method	: Manual cleaning
Solution provided by GALA	
Machine	: Two stage Ultrasonic Cleaning with on-line filtration
Cleaning Media	: Aqueous, Alkaline
Stages in the Machine :	
First Stage	: Ultrasonic Cleaning
Second Stage	: Hot Dip Rinsing
Advantages	: 1) Increased productivity
	: 2) Reduced labour cost



2

Single Piece Flow Ultrasonic Cleaning

Objective	: To remove buffing dust from surface
Component	: Swash Plate
Input contamination	: Water based coolant and loose burr
Expected cleaning	Surface Free from coolant and loose burr
Requirement	
Present Method	: Manual Wash
Solution provided by GALA	
Machine	: Single Piece Flow Ultrasonic Cleaning
Cleaning Media	: Aqueous, Alkaline
Stages in the Machine :	
First Stage	: Ultrasonic Cleaning
Second Stage	: Spray Rinsing
Third Stage	: Air Blow-off
Fourth Stage	: Hot Air Blow-off
Advantages	: 1) No manual intervention
	: 2) Consistent cleaning
	: 3) 70% reduction in labour cost



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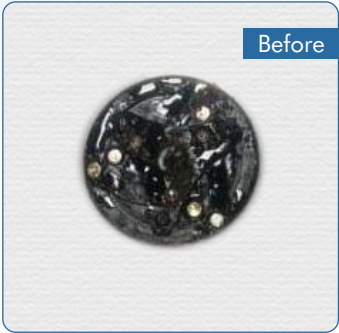
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3

Conveyorised Spray Washing

Objective	: To remove loose burr
Component	: Clutch Hub
Input Contamination	: Loose burr
Expected cleaning	: Surface Free from loose burr
Requirement	
Present Method	: Batch washing
Solution provided by GALA	
Machine	: Conveyorised Spray Washing
Cleaning media	: Aqueous, Alkaline
Stages in the Machine	:
First Stage	: Spray Washing
Second stage	: Spray Rinsing
Third stage	: Air Blow-off
Fourth stage	: Hot Air Blow-off
Advantages	: 1) Single Piece Flow 2) No manual intervention 3) Reduced Labour Cost



4

Multi - Chamber Multi- Process Ultrasonic Cleaning

Objective	: Precision cleaning of parts
Component	: Engine Housing
Input contamination	: Oil and Loose burr
Expected cleaning	: Gravimetric value of less than 2 mg and particle size of less than 600 micron
Requirement	
Present Method	: Batch washing
Solution provided by GALA	
Machine	: Multi-chamber, Multi-Process Ultrasonic Cleaning
Cleaning Media	: Aqueous, Alkaline
Stages in the Machine :	
First Stage	: Spray + Ultrasonic + Immersed Flood
Second Stage	: Spray + Immersed Flood
Third Stage	: Hot Air Blow-off
Advantages	: 1) High Productivity 2) Consistent Cleaning Quality



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Chemicals for cleaning of Aluminium Die Casting parts

Product Code	Application	Nature
GEW 1101 L	Degreasing -Spray and immersion	Acidic
GEW 1221 L	Heavy Duty Degreaser works at room temperature for components	Alkaline
GEW 1201 L	Heavy Duty Degreaser for Ultrasonic / immersion method before plating	Alkaline
GEW 2142 L	Mild Acidic solution to clean / descale die cast component prior to powder coating	Acidic
GEW 2201 L	Cleaning of machine oil, cutting oil residue or shop floor oil.	Alkaline
GEW 2220L	Cleaning of oil, dust, dirt and loose burr from surface	Alkaline
GEW 2000L	To remove contaminants like shop floor oil	Neurtal
GEW 5141 L	Bright Surface finish of components	Acidic
GEW 2123L	Cleaning of oil, dust and brighten the surface	Acidic
GEW 1203L	Light duty degreaser for immersion and spray application	Alkaline

High Performance Derusting, Degreasing & Finishing Compounds & Media



Millipore Value Less
Than 1mg Particle Size As
Per Class A

Ra ValueImprovement
Upto 0.05 Micron



Before
Derusting



After Ultrasonic
Cleaning



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