Cleaning & Finishing News

NEWS BULLETIN ON DEBURRING, FINISHING, WASHING & CLEANING

GALA PRECISION ENGINEERING
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Save up to 40% in parts cleaning expense by adapting simple steps

1

Switch over from manual process to cleaning machine

In case of multistage cleaning there will be substantial reduction in labour cost. This will also enable to improve productivity of cleaning operation & consistency of cleaning process.

2

Regular preventive maintenance of machine

With this simple steps expensive breakdown can be avoided. This will also results in lower maintenance cost. Regular maintenance also results in reduction in breakdown & saves spares parts cost.

3

Optimum consumption of compounds

With regular cleaning of filter bag & proper maintenance of oil separation mechanism bath life can be enhanced drastically resulting in reduction in chemical usage. Maintaining specified process parameter like tempt, cleaning consistency can be achieved over the longer period of time.

4

Controlling power consumption

Gala offers special compound which works on low tempt/room tempt resulting in substantial reduction in heating load. Optimum design of heater banks will result in saving in electricity which ultimately reduces the power cost.

With Gala's enriched experience, Gala conceptualize, designs and builds the cleaning machines, those are appropriate for customers need and work at optimised operational cost. With Gala's machine & adopting above simple steps the present cleaning operation cost can be reduced by 30% to 40 %.

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Case Study 1 — Three Chamber Ultrasonic Cleaning with basket rotation

Objective : To remove oil, loose chips, loose burr
Components : Mine hammer assembly parts
Cleaning Requirement : Surface free from oil, chips, loose burr
Input Contamination : 10 mg Millipore
Output Cleaning Requirement : 2 mg Millipore
Present Method : Manual wash
Present Constraint : Labor involvement, improper cleaning, lower productivity, high cleaning cost

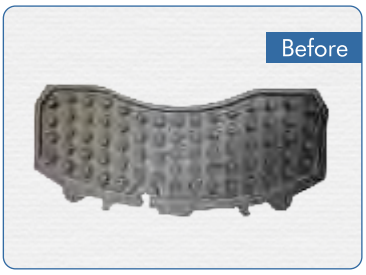
Solution provided by GALA

Machine Used : Multistage ultrasonic cleaning system
Cleaning Media : Alkaline degreasing compound
First Stage : Ultrasonic cleaning
Second Stage : Rinsing
Third Stage : Hot air drying

Advantages : 1) Uniform cleaning I 2) No manual intervention I 3) 70% reduction in labour cost

Case Study 2 — Conveyorised spray washing machine

Objective : To remove rust preventive oil, dust, dirt
Components : Brake pad
Cleaning Requirement : Completely free from dirt, dust oil
Input Contamination : 8.8 mg Millipore
Output Cleaning Requirement : 2.8 mg Millipore
Present Method : Cleaning by cloth
Present Constraint : Manual handling, Non uniform cleaning due to use of cloth. Less productivity



Solution provided by GALA

Machine Used : Conveyorised multistage spray washing machine
Cleaning Media : Alkaline degreasing compound
First Stage : Spray wash
Second Stage : Rinsing
Third Stage : Hot air drying

Advantages : 1) Uniform cleaning I 2) No manual intervention I 3) Improved productivity by 80%

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Case Study 3 — Ultrasonic degreasing & steel ball finishing

Objective : To remove press oil, dust, dirt
Components : Aerosol Al parts
Input Contamination : Heavy drawing oil, dust, dirt, dull finish inside
Output Cleaning Requirement : 100% free from oil, dirt, dust. Glossy finish
Present Method : Vibratory finishing. Manual cleaning
Present Constraint : Improper cleaning, dull finish. Labour involvement

Solution provided by GALA

Machine Used : Two stage ultrasonic cleaning, Steel ball vibratory finishing
Cleaning Media : Alkaline degreasing compound
First Stage : Ultrasonic cleaning
Second Stage : Rinsing
Third Stage : Vibratory finishing in steel ball
Advantages : 1) 100% oil removal without any manual intervention I 2) Consistent finishing 3) Improved productivity

Case Study 4 — Conveyorised high pressure spray washing

Objective : To remove heavy grease, oil, dirt
Components : Bearing
Cleaning Requirement : Removal of heavy grease, oil
Input Contamination : Oil, grease
Output Cleaning Requirement : Components free from dust, dirt & grease
Present Method : Spray wash up to 10 Bar
Present Constraint : Insufficient & inconsistent cleaning

Solution provided by GALA

Machine Used : Conveyorised multistage high pressure spray washing machine.
Cleaning Media : Alkaline degreasing compound
First Stage : High pressure spray wash upto 10-12 bar
Second Stage : Rinsing
Third Stage : Hot air drying
Advantages : 1) 100% removal of grease, oil I 2) Uniform cleaning

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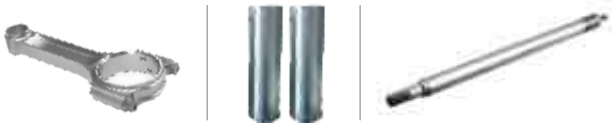
Customized Cleaning Systems

Conveyorised Spray Washing

Applications

Ferrous & non ferrous parts for Defence and Automotive applications



Fully Automatic Vibratory Finishing

Applications

Ferrous and non ferrous part to part process

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