



Solutions offered by us for Productivity Improvement of your Industrial Machinery

Productivity Improvement services aim to improve the productivity of older industrial machinery whose warranty period has expired. Their productivity can be increased by from minimum 15 percent to many folds. We will depute our service engineer to study the possibilities of improvement in Effectiveness of your industrial machinery- We will study the current control methodology, work process and suggest Automation solutions that can effect improvement in Productivity, improvement in Output Quality of your products. We will prepare a report on the possibilities of improvement in your industrial machinery.

For Which kind of Machinery the Productivity Improvement viable?

In general, Productivity Improvement is profitable in the case of machines that are used intensively, with high capacity utilization, high numbers of machine service hours, or long running times per part. Overall, the lifecycle costs are reduced and the manufactured quantities are increased.

What could the Probable Productivity Improvement Suggestions?

Depending upon the assessment of your Machinery's Maintenance History;It's current design; it's operating context; your budgetary expectations there could be numerous ways your machine could be upgraded to get Productivity improvement there could be several options ranging from

- *Upgrading the Prime Mover of machines*

- Hydraulic / Pneumatic movers > Servos)
- Control of existing Induction motors > AC VFD
- Changing DC Servo Motors Drives > AC Servo Drives / Motors

- Upgrading the Safety of Machine :

- Incorporation of Safety Features in Machine : Stoppage of machine when Overload/ Intrusion happens. Curtain

- Industrial Electrical Panels Refurbishing :

- Changing Machine wiring
- Panel Assembly -Our panel shop can assemble all of your electrical panels to your
- We can provide engineering services to design and layout your panels for your automation projects.

- Incorporating Heat Management systems to take care of Heat Generated by Electrical/

Electronic Equipments in Automated machinery.

- Incorporating the Measuring and Monitoring functions in your Industrial machinery

- Linear Position/ Angular Position/ Shaft position

How can Our Automation solutions help you in “Productivity Improvement” of your Industrial machinery ?

Custom made Automation can result in :

- Improvement of Safety of Machine & Personnel:
- Improvement of Reliability /Maintainability of Machine:
- Improvement in uptime:
- Improvement in Quality of Output:
- Improvement in Environment

What are our services & Solutions for Productivity Improvement for your Industrial Machinery:

Control System Products & Solutions

With our expertise in the respective domain, we create and deliver control system solutions as per the requirements of the clients. Our control system solutions includes all the related aspects such as control system design, control system configuration and control system deployment and commissioning. These control system products and solutions are handled by our qualified personnel, who have vast experience in the processing of control system automation.

Robotics and Automation Solutions

Capitalizing on our vast industrial experience, we are involved in offering quality robotics and automation solutions. Our aim is to provide the most advanced robotics and automation solutions to our clients. Our robotics and automation solutions includes automation equipment, process automation equipment, testing equipment, customized machines, leak testing

Assembly Automation Solutions

Owing to our valuable industry experience, we are engaged in offering assembly automation solutions that successfully meet the specific work process demands of our clients. The advanced engineering concepts used in the manufacturing helps in providing smooth processing of welding, screwing, riveting and other involved processes. These assembly automation solutions are offered as per clients requirements and at most competitive prices.

Industrial Automation Systems & Services

We are engaged in offering industrial automation systems and services, that cater to the needs of a wide range of industries. With the help of our sophisticated infrastructure and expert personnel, our automation systems are known for their accuracy, reproducibility, quality, cost parameters and reliability. These automation systems are designed using advanced technology and as per the specific requirements of clients.

Contract Manufacturing

We undertake contract manufacturing for various types industrial machines. Our team of experts make use of established procedures to manage all the work that is as per clients' satisfaction and last long in nature. Further, we also make sure that the task is completed with-in the committed time frame and as per the specific requirement of the client.

Custom Made Machine tools:

We design, manufacture and supply Purpose built - Pick place units

Complete Stages for Positioning of Job under Work station accurately – Linear/ Rotary positioning

Complete Package for : Monitoring of machine functions, recording and reporting..

Machine Tool Solutions

We are specialized in providing machine tool solutions, that cater to the requirements of manufacturing industry. Our fast and flexible processes allow us to meet the exact requirements of clients. The machine tools provided by us are high on quality and available at affordable cost. Our machine tool solutions are widely appreciated by our clients for their reliability, efficiency and timeliness.

In CNC, the service is used as follows: The higher computing performance achieved by modernization of the control hardware shortens all system-related dead times and also supports the use of new software. This, in turn, incorporates the important technological advances of recent years. On your machines, therefore, high-quality, efficient control algorithms and new productivity-enhancing CNC functions can be used. The required productivity improvement is often achieved with just these two measures.

When hardware and software updating are insufficient, CAD/CAM integration as well as the post processor can also be optimized.

All these measures shorten the main process times and ancillary times without subjecting the overall mechanical system to higher levels of wear or the electrical system to critical thermal overloading.

How is Productivity Improvement actually performed?

The organizational process for Productivity Improvement follows a defined, quality-assured process:

The general procedure is to disturb normal operation as little as possible. All optimization measures are prepared by us first on paper and verified— production at the customer site continues to run normally during this phase. Implementation at the machine is then performed in the shortest possible time.

Benefits

- **Reduced manufacturing time** while maintaining the same quality level
- Only a **short machine downtime needed for Machine upgrade**, thanks to systematic and time-optimized project development
- Suitable for **improving the productivity of older Industrial machinery** & machine tools