

E-FORGE

FORGING
MANAGEMENT
SOLUTION



What is ERP?

Enterprise Resource Planning systems (ERPs) are Management Information Systems (MISs) that integrate and automate many of the business practices associated with the operations or production and distribution aspects of a company engaged in manufacturing products or services.

Enterprise Resource Planning is a term derived from manufacturing resource planning that followed material Requirements Planning (MRP). ERP systems typically handle the manufacturing, logistics, distribution, inventory, shipping, invoicing and accounting for a company. Enterprise Resource Planning or ERP software can aid in the control of many business activities, like sales, delivery, billing, production, inventory management, quality management, and human resources management.

ERPs are often called back office systems indicating that customers and the general public are not directly involved. ERPs are cross-functional and enterprise wide. All functional departments that are involved in operations or production are integrated in one system. In addition to manufacturing, warehousing, logistics, and Information Technology, this would include accounting, human resources, marketing, and strategic management.

Advantages of using ERP

In the absence of an ERP system, a manufacturer in need of what it has to offer, may find itself with many software applications that do not talk to each other, do not effectively interface: keeping track of the status of customer orders from acceptance through fulfillment; and the need to make material substitutions, during temporary inventory shortages; 3-way match between Purchase orders (what was ordered), Inventory receipts (what arrived), and Costing (what the vendor invoiced). But the advantage of having an ERP is that all this, and more, is integrated.



About Siliconmedia Business Solutions

Siliconmedia Business Solutions, offers a wide range of integrated, end-to-end business applications and services designed to help small, mid-market, and corporate businesses become more connected with customers, employees, partners, and suppliers. Siliconmedia Business Solutions' optimize strategic business processes across financial management, analytics, human resources management, project management, customer relationship management, field service management, supply chain management, e-commerce, manufacturing, and retail management. The applications are designed to provide insight to help customers achieve business success.

What is E-forge?

Siliconmedia E-forge gives the freedom to focus on your forging business by providing an efficient way to streamline your business and increase productivity. E-forge lets you replace your existing manual system with a single fully integrated solution that connects every department in your organization.

E-forge handle the production, inventory, distribution, payroll, sales and marketing and invoicing for a company indulged in forging process. ***The solution is so much integrated that you can actually trace back the raw material and its property in any invoiced item.***

Key Benefits:

- Keep track of all the Order and their status.
- Compliance to ISO 9001/ Customer Audits
- Stock status at your finger-tips
- Manage your resources to increase productivity
- Invoice to Raw Material tracking
- Less dependence on skilled man power
- Elimination of Manual mistakes
- Sharpen your competitive edge.
- Grow your business.



Limitations of ERP... Not of E-forge

§ Success depends on the skill and experience of the work force, including education that how to make the system work correctly. Many companies cut costs by cutting user training. Privately owned small enterprises are often undercapitalized, meaning their ERP system is often operated by personnel with inadequate education in ERP in general.

Siliconmedia to train the staff and workforce for using the E-forge for forging Industry.

§ ERP systems can be very expensive to install.

Not so expensive, In fact, the cheapest in the market.

§ ERP vendors can charge sums of money for annual license renewal that is unrelated to the size of the company using the ERP or its profitability.

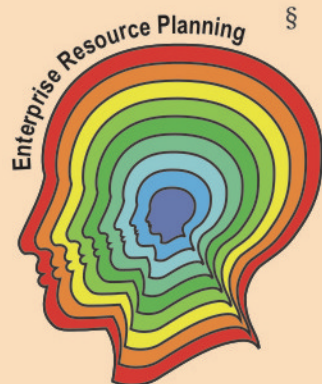
No renewal charges, only Annual Maintenance Charges.

§ ERPs are often seen as too rigid, and difficult to adapt to the specific workflow and business process of some companies - this is cited as one of the main causes of their failure.

Too flexible, with lot of parameters that can be defined in Setup. Made as per Indian Work Culture and Business process of Indian Companies.

§ Systems can be difficult to use.

Easy to understand and Use.



§ The system may be over-engineered relative to the actual needs of the customer.

Not over engineered, just the right product for the Forging Industry.



Freedom to Focus

Choosing the right Enterprise Management Solution means balancing your short- and long-term target. E-forge helps you overcome these challenges with a enterprise management solution that matches your industry needs as well as your budget.

E-forge is designed specifically for medium-sized industries seeking one solution to help increase productivity without disrupting everyday operations. It delivers integrated functionality to support solutions for:

- § **Material Management**
- § **Production Management**
- § **Sales and Marketing Management**
- § **Payroll Management**

The solution is simple to use and maintain. With its feature-rich application areas, E-forge makes it easy for you to speed up your decision making, so you can respond more rapidly to new competitive challenges and seize new market opportunities.

E-forge lets your employees quickly and easily click their way to details on everything from production schedules and inventory levels to sales orders and marketing management, all in one single secure database. Information entered into the database in one application area is simultaneously available for use in other application areas, so you can optimize your processes and leverage your corporate knowledge.

You make your business successful, *not your Enterprise Management Solution*. But choosing the right solution can mean increasing the scope of your business opportunities and rapidly growing your business. E-forge empowers you to do more with your information, so you can reach an even higher level of success. With E-forge, we take care of the technology, so you can take care of business.



Inventory Management

Efficiency is the number one item on every company's wish list, but translating a wish into reality means choosing a solution that manages your manufacturing and distribution processes for increased efficiency. With E-forge Inventory Management you can adapt your business to the opportunities of today's rapidly changing marketplace.

With the advanced warehousing functionality included in E-forge, you can reduce costs and increase efficiency in your warehouse. E-forge Inventory Management also helps you to increase and maintain the accuracy of your inventory data with features such as item tracking. With user-specific alerts and notifications, you can maintain tight control over your inventory, for example, you can track and monitor mission-critical material, potential item shortages.

The Inventory Management of E-forge takes care of the material purchase and store maintenance. It keeps the record of all the indents raised from production, issue of material if the material is available in the store, raising queries and issuing purchase order. It also tracks the purchase order and issue the GRN and gives the Work Order or Purchase Order (PO/WO) status. Once GRN is issued, Store Receipt Voucher (SRV) is made to be sent along with bill to the Accounts department for releasing the payment.

An interesting feature of Inventory Management is that it provides a report which gives the difference between the rate of purchase and rate of agreement. This makes it easier for the management to keep track on the raw material rates.

Inventory Management is connected with Production Management so as to keep the track of the material issued to production department and maintain the raw material stock.



Material Management: Forgings (P) LTD. 01/04/2005 - 31/03/2006

Transactions Reports Information Configuration Utilities Window Exit

Raw Material Inspection

Insp. Date: 15/04/2006 SRV Qty: 1080.00 Kg Vendor: STEEL AUTHORITY OF INDIA RMI against GRN No. KF/RAW/2702005

Heat No: H200 Lab No: LC-575 Wt of heat: 1080.00 No of Pieces: 5.00

1,080.00

Step 1: Insert Heat No, Delete Heat No, Save Heat No
Step 2: Lixible Prop
Step 3: Enable Chem Prop

Chemical Properties of Group No.5218

Element	Value %	UV	LV
C	0.250	0.350	0
Mn	0.700	1.050	0.600
Si	0.250	0.350	0.010
S	0.025	0.040	0
P	0.025	0.035	0

Insert, Delete, Chem Prop., Most Preferred

Item No: 5218 Product: BILLETS SA-105
5219 BILLETS SA-105
5220 BILLETS SA-105
5221 BILLETS SA-105
5222 BILLETS SA-105

Improper Shutdown Inspection Details Save Cancel

Ready

Purchase Management

Purchase Management deals with indents from all departments, ascertaining of stock, identification of vendors, Vendor database with all the details of the Vendor, order placement and tracking. It would culminate with the arrival of the requisite items into the store. It would also track rejects and their replacement, as well as reports required for Returnable/ Non- Returnable materials.

Stores Management

This part of the application would take care of receipts into the store, recording physical bin numbers and location of the item in the store, issues to various user departments, monitoring inventory levels and alerting when they fall below the cut-off level, monitoring consumption of various departments and so on. It would also aid the Finance department and in the valuation of inventory.

It provides the facility to define the raw material into categories, subcategories or both.

Quality Management

This part takes care of the inspection of raw material. Here, the inputs are made for chemical testing of raw material. You can define the *heat number*, *lab report number*, *laddle properties* and *chemical properties* piece wise. This helps in generating the required stock of specific chemical properties at any moment.

Activities

- 1 Purchase Indent
- 2 Enquiry
- 3 Purchase Order
- 4 Purchase Order Amendment
- 5 Goods Receipt Note
- 6 Issue Slip
- 7 Issue of material to sub-store or department
- 8 Non returnable & Returnable gate pass generation

Reports

- The application would generate several reports both for operational use as well as for planning and control purposes. Some of these would be
- 1 Stock Status Report
 - 2 Material Procurement status report
 - 3 Delayed deliveries
 - 4 Vendor Rating

Registers

- 1 Indent Register
- 2 Enquiry Register
- 3 PO Register
- 4 Dispatch Register
- 5 GRN Register



Sales & Marketing Management

Siliconmedia's E-forge Sales & Marketing Management gives you complete and accurate information so you can focus your interactions on preferred customer segments. Good sales and marketing practices are all about making the right decisions at the right time, and in order to make better business decisions, you need to stay focused and be in control of all your marketing and sales efforts.

Sales & Marketing helps you make smarter decisions faster based on accurate information about every contact. With a precise overview of your contact information right at your fingertips, you can become more efficient and increase your employees' and customers' satisfaction. Sales & Marketing deliver the right solution so you can get the job done better and faster.

Sales & Marketing gives you the power to:

- § Improve your customer relationship success to increase your productivity.
- § Make well-informed decisions about customers to sharpen your competitive edge.
- § Customize the solution to fit your processes and grow your business.

FORGINGS (P) LTD.

Transactions Information Configuration Utilities Window Exit

Order Acceptance

*Order Booking No. KF/35/G *Date 26/04/2005 Type Written *Customer Name
PO No. #05-1030 PO Date 25/04/2005 Desp Mode Desp to
Transporter Inspection Agency
*Document Through BY SEA *Delivery By 30/07/2005 Mode
Chg/DD No. Date 00/00/0000 Amount 0
Financial Arrangement/ 100% AGAINST WIRE TRANSFER ON FAX COPY OF
Comm Terms INVOICE, PACKING LIST & B/L. Hide Currency EURO

Item No	Product	Class	Size	Unit	Schedule	Spec	Material	Ans	Std.	Unit	Qty	Unit Rate	Total Value
42	WNRF	600	4.00	"	STD	---	SA-105	---	Nos.	100.00	24.15	2,415.0	
43	WNRF	600	8.00	"	STD	---	SA-105	---	Nos.	20.00	70.75	1,415.0	
44	BLRF	600	1.00	"	---	---	SA-105	---	Nos.	25.00	2.61	65.2	
45	BLRF	600	1.50	"	---	---	SA-105	---	Nos.	25.00	5.49	137.2	
46	BLRF	600	10.0	"	---	---	SA-105	---	Nos.	10.00	125.17	1,251.7	
47	SORF	150	3.00	"	---	---	SA-105	---	Nos.	2000.00	5.28	10,560.0	
48	SOFF	150	3.00	"	---	---	SA-105	---	Nos.	800.00	5.28	4,224.0	
Order Value												111,794.9	

Add Save Save & Exit Cancel

Ready

It maintains all the sales related activities of the company. It maintains customer database, consignee database, Finished Product setup and all other secondary masters required for sales & marketing.

After defining masters, you will be able to book the commercial orders. The booked orders are reviewed under Order Acceptance and then sent to the Quality Department for preparing the Technical Work Order.



Once the production of the order is completed, all the finished products are listed, displaying the status of Finished Goods Store and from there material can be selected for dispatches. Once dispatches are selected, the invoice is made for the customer on the basis of selected dispatches.

There is a facility to raise invoice for sale. After invoice is prepared, Gate pass is prepared and material is dispatched.

Activities

- 1 Order Booking
- 2 Performa Invoice after Order Booking
- 3 Technical WO preparation
- 4 Dispatch Instruction Note
- 5 Invoicing
- 6 Gate Pass

Reports

Following reports will be generated using the above

- 1 Order Booking Register
- 2 Sale Report – Month wise and Product wise
- 3 New Customer list
- 4 Out of Fold Customer List
- 5 Top customer List
6. Invoicing
7. Dispatch Report



Production, Planning & Quality Management

The solution includes functionality to effectively manage your manufacturing processes including production orders, bills of material, supply planning, and capacity requirements planning. Production Management allows you to improve your business performance through efficient manufacturing processes and to take advantage of new revenue opportunities.

The Planning Management takes care of all the planning required to make a finished product and maintain its quality. In forging industry, one makes more customized items then routine item, the production planning plays an important role.

From the Sales & Marketing Management, the Technical Work Order (**TWO**) is prepared is send to Production department.

In TWO, you define the proposed date of Forging, proposed date of M/cing, proposed date of Inspection, and type of Heat Treatment. Here you could also specify the special chemistry or mechanical properties required in any

particular item of the order.

On the basis of above data in TWO, the tracking of various items in order is kept. The first stage after defining TWO is to plan for the Raw material. If the Raw Material of the required specifications is available in the store, the raw material is displayed as soon as the Item from an order is selected. If Raw material is not available in Store, The PO is issued from Inventory Management and material is procured.



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Transactions Information Configuration Utilities Window Exit

Technical Order

*Order Booking No. 250/G *Date 10/02/2006 Type Written PO No. SFPL042 PO Date 04/02/2006

*Document Through DIRECT *Delivery By 15/03/2006

Financial Arrangement/ 100% AGAINST DELIVERY Customer

Comm Terms

Inspection Agency BVIS

Item No	Item Description	Material	Ans Std	Qty	Forging Dt	M/c Dt	Inspection Dt	Heat Treatment Condition	Cooling
1	18 "X 150 # SORF	SA-105	---	120000 N	10/03/2006	11/03/2006	12/03/2006	Normalised	Still Air Cooled

Chemical Prop. of Technical Order

Mechanical Prop. of Technical Order

Mech. Prop	Value	Unit
Reduction in Area	30.00	%
Yield Strength	250.00	Kg/mm ²
Elongation	30.00	%
Tensile Strength	485.00	Kg/mm ²
Hardness	187.00	BHN

Heat Treatment Conditions of Technical Order

Heat Condition	Cooling	Temp °C	Time	Priority
Normalised	Still Air Cooled	900.00	3.00	1

OK Cancel

EDIT Chem Prop EDIT Mech Prop Edit Heat Treat. Cond. Add Save Save & Exit Cancel

Ready

Once material is available in the store, you can specify the required raw material for various items. Once that planning is done, the material is sent for cutting to internal or external vendor.

It will also keep track of the material if the material is sent to different vendors for different process after any stage or in the beginning itself. Accordingly this Production is connected to Material Management for issuing Purchase Order or Work Order.

This planning is done on the basis of delivery date defined for each product in the Work Order. All the required parameters for Heat Treatment and other process, defined at the time of TWO, are also taken into consideration while planning for heat treatment and other machining process.

Quality Management

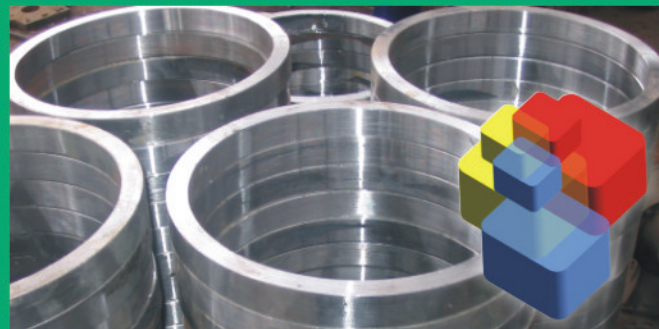
Every production step is followed by a quality sub-module to receive the material after the step. It is compulsory to define about the rejected number of pieces and the reason for rejection. It covers all the production process in company to ensure the best quality. Also is the provision to define the Corrective and Preventive action taken for every reason for rejection.

Activities

- 1 Request for raw material as per Technical Work Order
- 2 Process Planning as per requirement and delivery date
- 3 Quality Testing of In-process raw material and Final Product
- 4 Raw Material (Bloom, Ingots and Scrap) Purchase Planning
- 5 Raw Material Quality Inspection for the specified product
- 6 Material Tracking if sent to other vendors.
- 7 Contractor record if work given on contract basis.
- 8 Record of rejections and reason for rejection and corrective and preventive measures for each rejection.

Report

- 1 Pending Jobs Report
- 2 Various Planning Report
- 3 Various Test Reports
- 4 Technical Work Order Status Report



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E-FORGE
FORGING MANAGEMENT SOLUTION

Salient Feature

- 1 User friendly Windows Graphical User Interface
- 2 Intuitive Menu Driven & Icon based System
- 3 Completely codeless for easy entry
- 4 Very Simple & high speed Installation
- 5 Multiple Window Flip facility to browse through documents
- 6 User Level security feature
- 7 Menu Access control for different levels of user
- 8 Powerful reports with viewing, zooming, printing & saving facility



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