<b>Type Projects to Plan &amp; Manage</b> New Construction Ship Repair Yard Maintenance & Overhead
Cost Estimating
New Construction
Ship Repair & Overhauls
Military & Commercial
Automated Material Cost Escalation Features
Cost Risk Assessments
Database Tables for Cataloging Cost Estimating Relationships (CERs)
Single Rate and Multi-Variable Parametric Equation Rate CERs
Tables for Developing Multi-Item Cost Data for Standard Work Packages
Generic CER Libraries (New Construction & Repair) Available
New Construction Cost Models Available (Various Ship Types)
Ship Repair, Maintenance & Upgrade Cost Models Available
Automated Transfer of Cost Estimate for Preliminary Production Planning Data
Planning & Integrated Scheduling

Master Schedules Drawing Schedules Purchasing Schedules Detail Shop Schedules Test Schedules Automated Scheduling of Work Orders, Drawings & Purchase Orders Automated Updating of Schedules

PERCEPTION		
F EHOLF HON		
Yes		
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Yes		
Yes		

# Work Order Planning, Authorization & Time Charging

Discrete Work Orders Time-Phased Yard Services Work Orders Multi-WBS Distributed Work Orders Optional Library of Standard Work Descriptions Link to CAD file for Drawing Display Automated WBS Assignment Validations Comprehensive Time Charge Validations Detail Work Order Cost and Schedule Analysis Rework Labor & Material Cost Report Change Order Control Hours Charged After Work Order Complete Analysis Optional Bar Code Time Charging Electronic Interface with Accounting Payroll System

#### **Manpower Planning & Forecasting**

By Contract By Stage of Construction By Production Work Center By Production Trade Multiple Contract Manpower Overlays

#### **Material Planning for Production & Purchasing**

Estimated Material Drawing Bills of Material Requisitioned Bills of Material Purchasing Bills of Material Production Pallets/Kits Bills of Material Automated WBS Assignment Validations Manual Entry of Bills of Material Electronic Downloading of Bills of Material from 2D/3D CAD systems

PERCEPTION		
Yes		
Yes		
Yes		

# Drawing Planning & Item Change Control

Drawing Revision & Change Control Drawing Release Date Control Manual Entry of Bills of Material Electronic Downloading of Bills of Material from 2D/3D CAD systems Link to CAD file for Drawing Display

### **Material Requisitioning**

Contract Materials Standard Parts Material Stock Inventory Material Manufactured Parts Material Subcontracted Services Government Furnished/Owner Furnished Material Vendor Furnished Information (VFI) Load Items/Spares Stock Inventory Replenishments Requisitioning via Drawing Bills of Material Automated WBS Assignment Validations Manual Entry of Bills of Material Electronic Downloading of Bills of Material from 2D/3D CAD systems

#### **Parts Catalog**

Standard Parts Material Stock Inventory Material Manufactured Parts Material Links to Vendor Web Site Direct Access for Favored Vendor via Email Optional Link to Part Item CAD Drawing Catalog Search Features via Part Characteristics Part Pricing Part Storage Location & Quantity Availability

PERCEPTION		
Yes		
Yes		
Yes		

# **Stock Material Inventory Control**

Stock Parts Catalog Stock Quantity & Value Historical Reports Replenishment Reports Standard, Average or LIFO Pricing Warehouse Location Management System Supports Cycle Counting

#### Purchasing

Vendor Catalog Contract Materials Stock Inventory Replenishments Subcontracted Services Request for Quotation (RFQ) Document Generation Customized Purchase Order Document Purchase Order Amendment Document Hard Copy & Electronic Formats Domestic & Foreign Currencies Automated WBS Assignment Validations Optional Catalog of Terms & Conditions Return to Vendor Transactions Electronic Interface with Accounts Payable & General Ledger Systems

# **Type Purchase Orders**

Contract Purchase Order Bulk Purchase (Standard Parts & Stock) Quick Purchase Order (Automated Generation of Requisition) Stock Replenishment Purchase Order

### **Material Delivery Receiving**

Optional Quality Control Inspections Multiple Warehouse Location Assignments Delivery Shorts Control (Received Quantity < Ordered) Over Delivery Control (Received Quantity > Ordered) Delivery Control of Material Not Purchased

PERCEPTION		
Yes		
Yes		
Yes		
Yes		

# **Material Storage**

Multiple Quantity Location Warehousing & Buffer Areas (No Limit) Contract Purchased Material Stock Inventory Material Manufactured Parts Inventories Production Pallets/Kits Government Furnished/Owner Furnished Material Load Items/Spares

#### **Material Production Pallets/Kits**

Material Pallets/Kits Assigned to Work Orders Contract Materials Stock Inventory Replenishments Subcontracted Services Manufactured Parts & Assemblies Automated WBS Assignment Validations

#### **Material Issues to Production**

Contract Purchased Material Manufactured Parts Stock Material By Requisition By Pallet/Kit By Quick Stock Withdraw (Issue Stock without Requisition) Automated WBS Assignment Validations Optional Bar Code Data Collection Electronic Interface with General Ledger System

PERCEPTION		
Yes		
Yes		
Yes		

# Material Item Tagging Options

Contract WBS
Product WBS (Zone, subassembly, Assembly, Block, etc.)
Contract Line Item Number (CLIN)
Part Type (Direct Purchase, Manufactured, Stock, etc.)
Part ID
Drawing Number
Drawing Tag/Find Number
Manufacturer's Part Number
Vendor's Part Number
General Ledger Account Number
NATO Part Number

### Vendor Invoice Cross-Checking

Quantity as Purchased (Ordered)
Price as Purchased
Quantity as Received & Accepted
Quality Assurance Inspection Status
Electronic Interface with Accounts Payable System

# **Customer Billings**

Progress & Milestone Payments Time and Materials Fixed Price Electronic Interface with Accounts Receivable System

# Work Breakdown Structures - Summary Progress & Cost/Schedule Reporting

Ship Systems - SWBS Interim Products (Zones, Assemblies, Blocks, Parts, etc.) - PWBS Stages of Construction - Organization Breakdown Structure Production Work Centers Production Trades Series Ship Production WBS Design & Engineering WBS

PERCEPTION		
Yes		
Yes		
Yes		
Yes		

# **Earned Value Progress & Forecast Reports**

Ship Systems Interim Products (Zones, Assemblies, Blocks, Parts, etc.) Stages of Construction Production Work Centers Production Trades Series Ship Budget Learning Curve Features

#### Earned Value Performance Information (Labor & Material)

Work Progress **Total Estimated Cost** Total Cost Budget At Completion (BAC) **Total Cost Management Reserves** Actual Cost of Work Performed (ACWP) Budgeted Cost of Work Performed (BCWP or Earned Value) Budgeted Cost of Work Scheduled (BCWS) Estimated Cost At Completion (EAC) EAC Trend Weeks Ahead/Behind Schedule Current Earned Schedule (ES) Estimated Schedule At Completion (ESC) ESC Trend Cost & Schedule Performance Indexes Current & Forecast Cost Variances **Current & Forecast Schedule Variances** 

#### 6-Stage Steel/Aluminum Production Performance & Forecasts Reports

For Steel/Aluminum Preparation for Fabrication of Parts For Sub-Assemblies For Assemblies For Erection of Blocks & Grand Blocks for Onboard Weld-Out For Total Steel Production Performance & Forecasts Summaries by Block Type & by Ship Zone

PERCEPTION		
Yes		
Yes		
Yes	 	
Yes	 	
Yes		
Yes		
Yes		

# **WBS Labor Hour Tracking & Reporting**

As Estimated As Budgeted As Scheduled As Earned As Actual As Estimated At Completion (Automated & Manual Assessments) Trend of Estimate At Completion Work Progress Weeks Ahead/Behind Schedule

# WBS Labor Cost (Domestic Currency) Tracking & Reporting

As Estimated As Budgeted As Scheduled As Earned As Actual As Estimated At Completion Trend of Estimate At Completion

### **WBS Progress Tracking & Reporting**

As Planned
As Earned (Automated & Manual Assessments)
As Spent to Budget
Automated Forecast Completion Date
Trend of Automated Forecast Completion Date
Weeks Ahead/Behind Schedule

PERCEPTIONYesYesYesYesYesYesYesYesYesYesYesYesYesYes	
Yes Yes Yes Yes Yes Yes Yes Yes	
Yes Yes Yes Yes Yes Yes Yes	
Yes Yes Yes Yes Yes Yes	
Yes Yes Yes Yes Yes	
Yes Yes Yes Yes	
Yes Yes Yes	
Yes Yes	
Yes	
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Vac	
Yes	
Yes	

# Material Cost (Domestic Currency) Tracking & Reporting

As Estimated As Budgeted As Scheduled As Purchased As Received from Vendor As Issued to Production As Estimated At Completion Material Transfers To/From Contracts - Cost & Quantity

# Small Tool Room Control (Check-In/Check-Out)

#### Systems Integration w/Other Software Products

2D & 3D CAD Payroll Accounts Payable Accounts Receivable General Ledger Excel, Word, Project & Other PC Software Products SQL Databases & Other Data Sources

## **General System Technology**

Windows PC-Based Centralized SQL Database UNI-Code System for Extended International Alphabets Client/Server Operation Internet Access Operation Multi-Level Security Features Flexible & Modifiable Business Rules Extensive & Convenient Drill-Down Features to Access Related Information Quick & Easy Editing, Modifying & Replicating of Information

PERCEPTION		
Yes		
Yes		
Yes		
Yes		

### Reports

Extensive Sets of Detail & Summary Reports Comprehensive Labor & Material Transaction Reports Large Variety of Report Data Selections, Sorts & Filters Selections of Graphical & Tabular Reports, On-line & Hard Copy Augment Standard Reports with Link to 3rd Party Report Writers Optional User Modifiable Report Formats, Headings & Title Features

# **User Support**

User Manuals On-line Help PowerPoint Training Tutorials Advanced Discussion White Paper Publications Email User Support Services Customized Software Development Services

PERCEPTION		
Yes		
Yes	 	
Yes		