

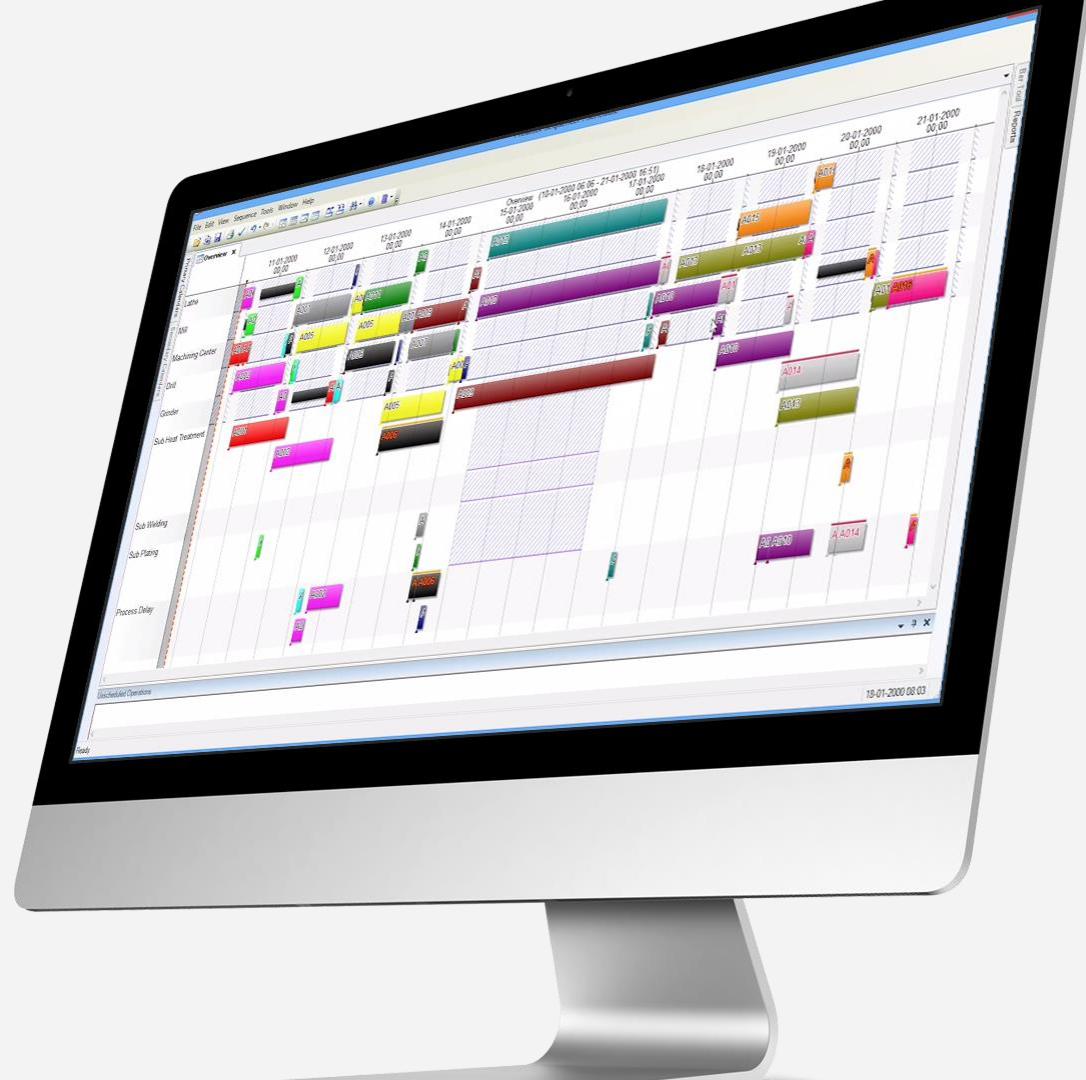


**Preactor**<sup>®</sup>  
INTERNATIONAL

# Preactor Smart Factory

Supply Chain Planning

[www.optimal-value.com](http://www.optimal-value.com)

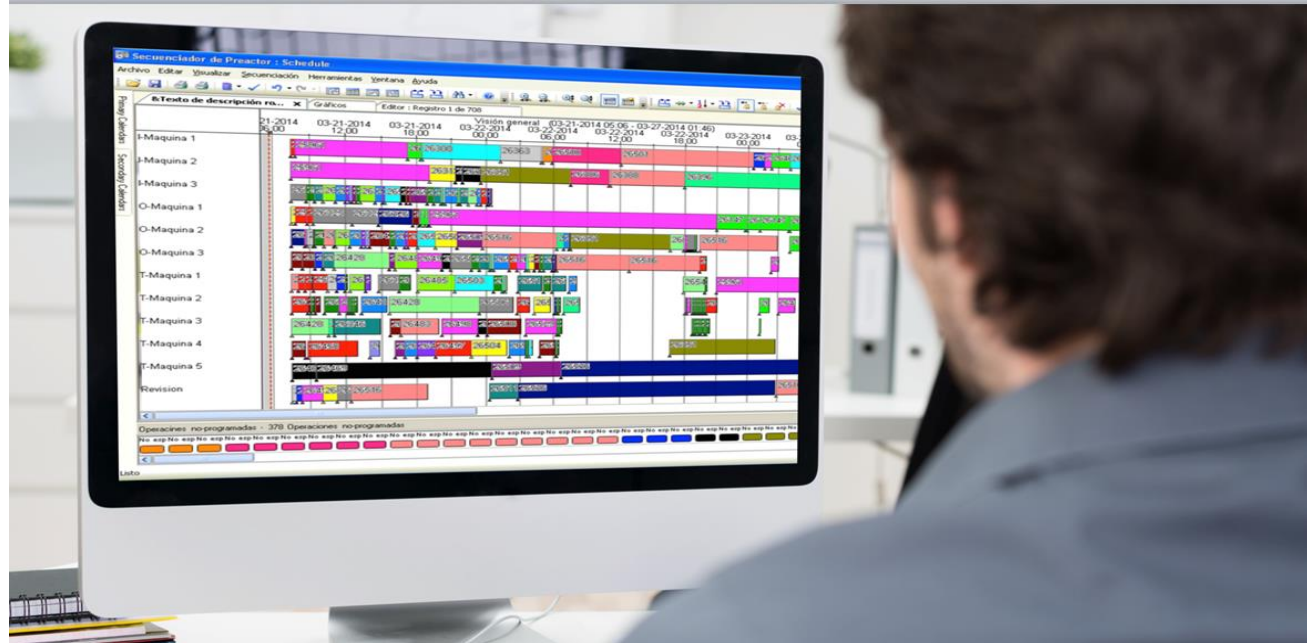


# Preactor Smart Factory

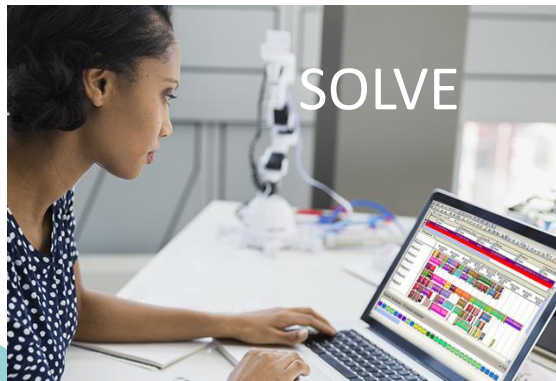
Preactor is an APS system that solves factory process traffic by linking planning, automation and monitoring technologies

## IMPACT %

- Speed +100
- Automation +100
- Throughput +25
- Service +25
- Inventory -25
- OEE +15
- Setups -15
- Lead Times -15
- Costs -10
- Expenditures -10
- Waste -15



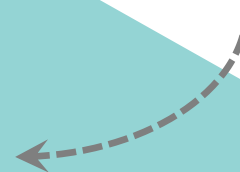
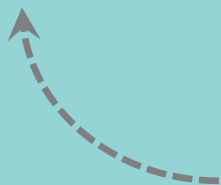
# Preactor



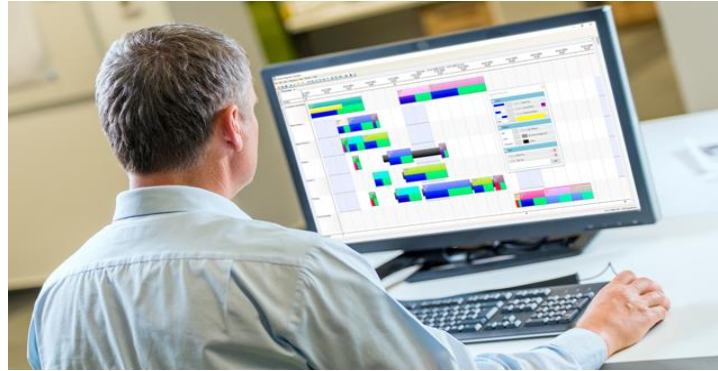
*Pre-act*



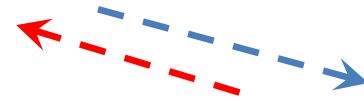
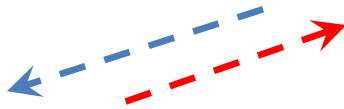
*Re-act*



# Preactor Smart Factory



Adjust Schedules



Production and Material Tracking



Machine Breakdowns



Order Updates

# APS Scheduling

Finite Capacity  
Alerts  
Setups  
Constraints  
Calendars  
Custom Rules  
Automation  
Optimization

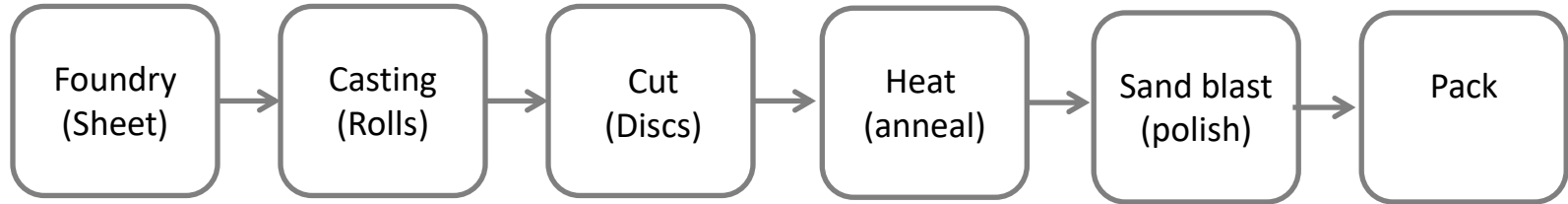
# MRP Planning

Scenarios  
Custom Boms  
Custom Pegs  
Bottlenecks  
Supportability  
Simulation  
Min/Max/Lots  
Forecasting

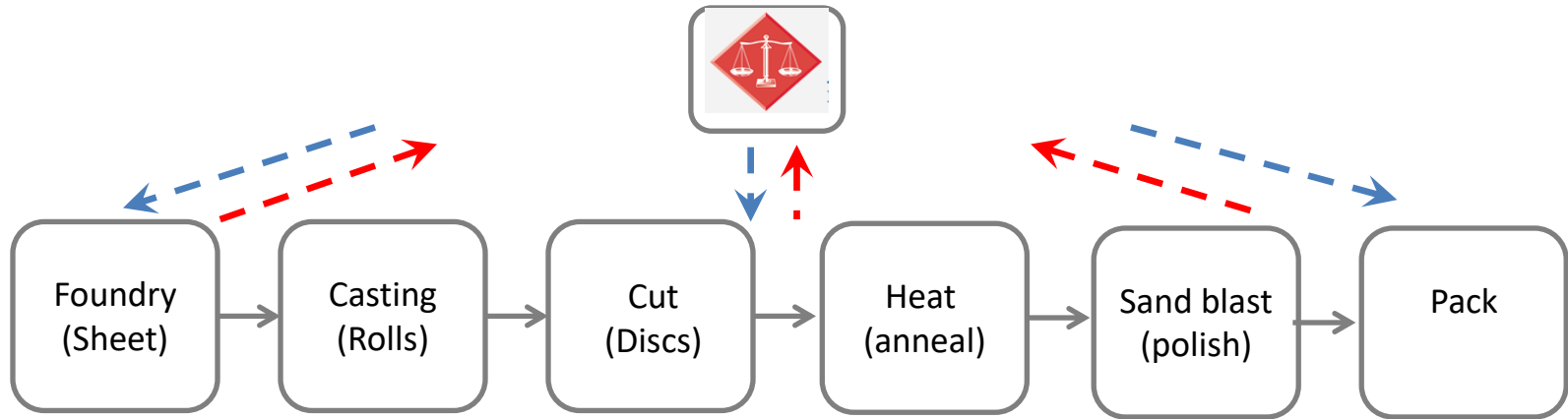
# MES Execution

Automation  
Whs/Mes  
Staff and Tools  
KPI Metrics  
Barcodes/RFID  
Materials/QC  
Interfacing  
Sensors/Apps

# End to End Decision Mapping and Tracking



# End to End Decision Mapping and Tracking



- Forecasting
- Purchasing
- Sequence by metal
- Roll width
- Cut optimization
- Track and adjust
- KPi

- Forecast and demand plan
- MRP
- APS Scheduler
- Inventory Projections
- LP Solver - pattern
- Mobile tracker tools
- Platform KPIs and alerts

# 4 Simultaneous Versions

## Web Platform

Orders

Headers OrderBom OrderBop

Order No.	Part No.	Product	Cliente	Duedate	Qty
A001	587-4035	CAJA DE EMPAQUE COMPLETO	ENGRAMEX	12/02/2020	1
A002	179-1023	EXTRACTOR	ENGRAMEX	12/12/2020	2
A099	550	Filtro Auto	ENGRAMEX	12/12/2020	20
Tapas	503-4052	Tapa	ENGRAMEX	12/12/2020	800
Filtro auto	550		ENGRAMEX	25/02/2020	10
tubo de salida	503-4013/c	tubo completo	ENGRAMEX	25/02/2020	30
Test009	179-1026-8	Extractor	ENGRAMEX	12/12/2020	10
Test003	179-1034-A	Extractor	ENGRAMEX	12/12/2020	10

Ruta Estructura Parametros

Part No. Product Operation Name

A001 587-4035 CAJA DE EMPAQUE COMPLETO

## Desktop

Resources

Save Undo Redo Edit View No filter selected More Actions

Name	Concurrent Setup Times	Preactor Display Order	Display Usage Plot?
Piston Neumatico	<input type="checkbox"/>	=	<input checked="" type="checkbox"/>
Sin Ruta	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Cizalla manual	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Cizalla mecanica	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Cortadora Staroba	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Dobladora Estribos	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Dobladora Chica	<input type="checkbox"/>		<input checked="" type="checkbox"/>


## App

Resources

- AR1  
20 minutes left  
Status: RUNNING
- AR4  
60 minutes left  
Status: SETUP
- AR6  
25 minutes left  
Status: RUNNING
- AR7  
45 minutes left  
Status: SETUP
- MR1  
11 minutes left  
Status: STOP

2:53 PM

Resources Info



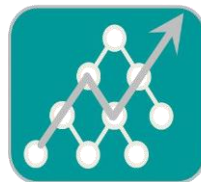
Resource AR6

Time Left 25 min

In time? No

Info

Info 20171233




## Excel

C	D	E	F	G	H	I	J	K
9/13/2021					W1	W2	W3	W4
Engines				Sat	Mon	Tue	Wed	Thu
					8/9	8/10	8/11	8/12
Partno	Product	Int	Stock	CTB	Plan CTB		MPS	
129-2050-8	UNIVERSAL ENGINE	1	353	0	70	70	70	70
129-3096-S	ENGINE 1/6 VENCA	1	827	0	80	80	45	45
129-3099	ENGINE 1/8 CYCLON	1	215	0	50	50	50	50



# Our 25 Year International Experience

- 
- PEPSI
  - DANONE
  - KROGER
  - QUAKER
  - CORONA BEER
  - NESTLE
  - FRISA WYMAN AEROSPACE
  - SAN MARTIN MACHINERY
  - CENTRAL BANK
  - TUPPERWARE
  - GALAS PACKAGING
  - SIEMENS ELECTRONICS
  - ELI LILLY
  - UQUIFA PHARMA
  - GROSSMAN PHARMA
  - KIMEX TEXTILES
  - TEXTRON AUOMOTIVE
  - RASSINI AUTOPARTS
  - GIS TABLEWARE
  - CCL AUTOPART
  - CCL CONTAINER
  - CROCS
  - WORLDMARK ELECTRONICS
  - ENKADOR TEXTILES
  - ENGRAMEX GEARS
  - TURMIX APPLIANCE
  - POLYKON BOTTLING
  - ALCAN PACK
  - SIEMENS ENGINES
  - INNOVIA FILMS
  - SQI SEMICONDUCTOR
  - MAXIM SEMICONDUCTOR
  - LIBBEY CRISA
  - CCL LABEL
  - MAXION AUTOPARTS
  - HP ENTERPRISE SERVERS

# Preactor Experience

- Preactor International on the market for 30+years: 10k licences in 100 countries
- System adapts to customer, not the other way around (6 programming languages)
- Links to any ERP or database, Excel
- 4 Versions: Excel/Desktop/Web/App
- Experience having benchmark comparison to all main APS systems
- 10 times more convenient than competitors: better price, experience and solution performance
- Custom algorithms and views for each project
- Siemens digital factory technologies (SCADA sensors, RFIDs, web apps, etc)
- 100% projects solved

# All in One Preactor Smart Factory

Quote

Engineering

Scenarios

MRP

Scheduling

Warehouse

Shop Floor

Costs

Metrics

Automation

Products			
Part No.	Product	Op. No.	Operation Name
100-3007A	REJILLA EXTRACTOR ESTANDAR	10	CIZALLA DE CORTINA
		20	TROQUELADORA 2-3-7
		30	TROQUELADORA 5
100-3007E	REJILLA EXTRACTOR ESTANDAR	10	CIZALLA DE CORTINA
		20	TROQUELADORA 2-3-7
		30	TROQUELADORA 5

Bill Of Materials

Bom Parent	Headers	Orders	Child Item	Stocks
partno	product		partno	product
100-3007/A	REJILLA EXTRACTOR AUTOMATICO		100-3007/A	REJILLA EXTRACTOR AUT
100-3007E	REJILLA ESTANDAR		100-3007E	REJILLA ESTANDAR
100-3007M	REJILLA EXTRACTOR MULTITURMIX		100-3007M	REJILLA EXTRACTOR MUL
100-3007U	REJILLA USO RUDO		100-3007U	REJILLA USO RUDO
104-1026	BASE EXTRACTOR		104-1026	BASE EXTRACTOR
104-1026	EXTRAKTOR		104-1026	EXTRAKTOR
104-1026-A	BASE EXTRACTOR ACABADOS		104-1026-A	BASE EXTRACTOR ACABA
104-1026-P	BASE DE EXTRACTOR PINTADA		104-1026-P	BASE DE EXTRACTOR PIN
104-1026-P/R	BASE DE EXTRACTOR PINTADA ROJO		104-1026-P/R	BASE DE EXTRACTOR PIN
104-1026-T	BASE EXTRACTOR TORNEADO		104-1026-T	BASE EXTRACTOR TORNE
104-1026/9	SERV INYECCION BASE DE EXTRACTOR DE		104-1026/9	SERV INYECCION BASE DE

Resources			
Name	Concurrent Setup Times	Preactor Display Order	Dis
Piston Neumatico	<input type="checkbox"/>		1.00
Sin Ruta	<input type="checkbox"/>		1.00
Cizalla manual	<input type="checkbox"/>		1.00
Cizalla mecanica	<input type="checkbox"/>		1.00
Cortadora Staroba	<input type="checkbox"/>		1.00
Dobladora Estribos	<input type="checkbox"/>		1.00
Dobladora Chica	<input type="checkbox"/>		1.00

Bill of Materials	Bomgroup	Bomtree	Byproduct	Auxinv
Padre	ProductPadre	Hijo	ProductHijo	
104-1026-P	BASE DE EXTRACTOR PINTADA	104-1026-A	BASE EXTRACTOR ACABADOS	
104-1026-P	BASE DE EXTRACTOR PINTADA	MP-068-4439	PINTURA POLVO HIBRIDO BEIGE LISO BRIL	
<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/>				

# All in One Preactor Smart Factory

Quote

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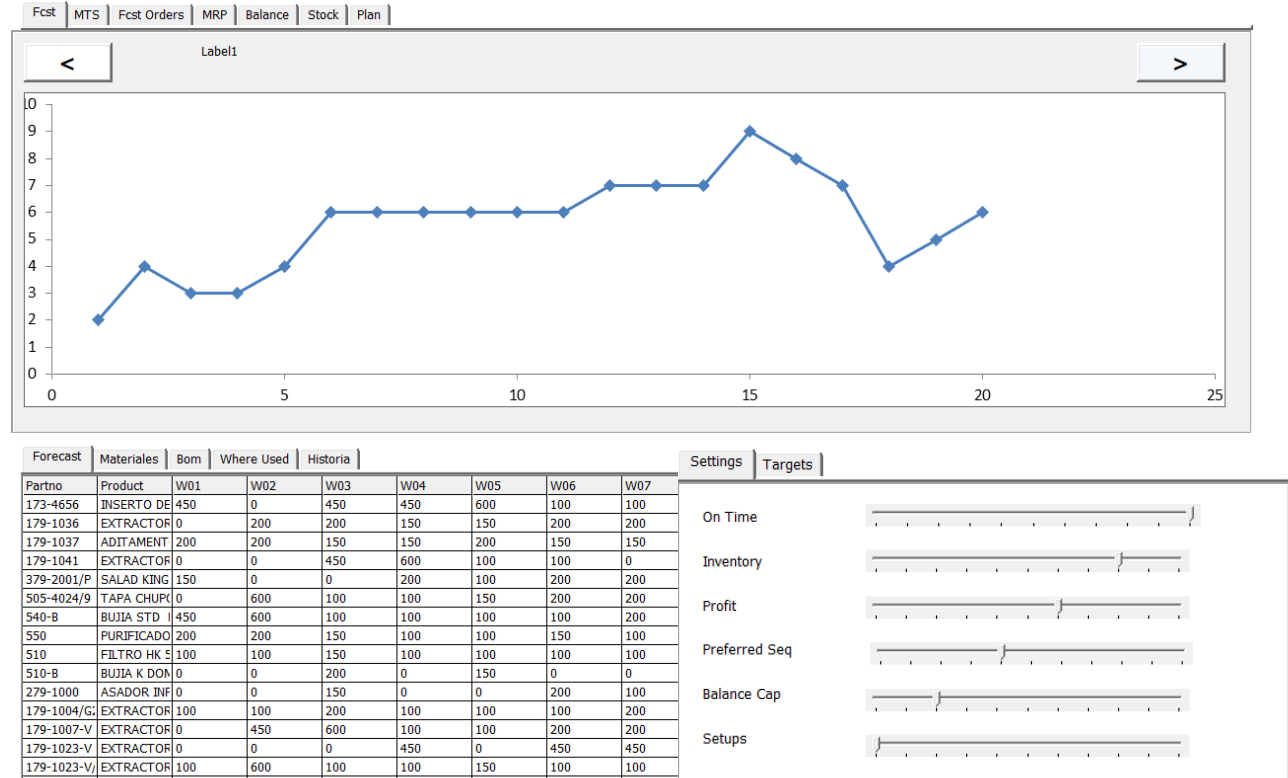
Warehouse

Shop Floor

Costs

Metrics

Automation



# All in One Preactor Smart Factory

Quote

Engineering

Scenarios

**MRP**

Scheduling

Warehouse

Shop Floor

Costs

Metrics







Automation

MRP

Customer Orders MRP AuxInv AUXINV Ln Balance Balance PT X3N MFG X3N PUR

Q

+ New Run MRP Csv

<input type="checkbox"/>	Cust Order	SubType	Item	Quantity	Descripcion	Int	Due date	P	Customer	
<input type="checkbox"/>	A001	Cust Order	587-4035	1	CAJA DE EMPAQUE COMPLETO	<input type="checkbox"/>	12/02/2020	1		 
<input type="checkbox"/>	A002	Cust Order	179-1023	2	EXTRACTOR	<input type="checkbox"/>	12/12/2020	44	Sears	 
<input type="checkbox"/>	A099	Cust Order	550	20	Filtro Auto	<input type="checkbox"/>	12/12/2020	44	Optimal	 

Balance Balance PT X3N MFG X3N PUR

Reports + -

Customer Order	Level	Item	desc	Required	From Inv	To Prod	Purchased	CTB(%)
mytest	001	104-2071-P		20.000	0	20	0	50
	001.001	MP-068-4243		20.000	19	0	1	50
	001.002	104-2071-A		20.000	0	20	0	50
	001.002.001	104-2071-T		20.000	0	20	0	50
	001.002.001.001	104-2071		20.000	10	0	10	50

# All in One Preactor Smart Factory

Quote

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Scheduling

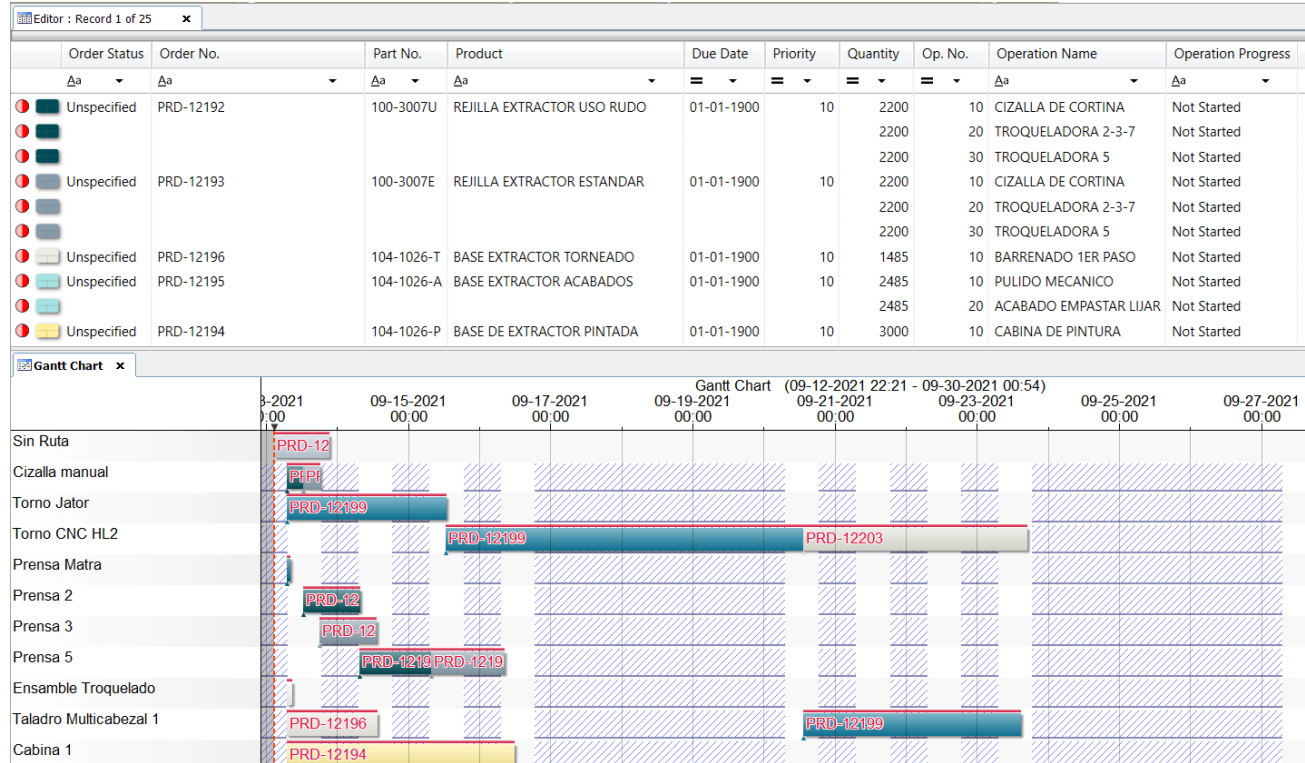
Warehouse

Shop Floor

Costs

Metrics

Automation



# All in One Preactor Smart Factory

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Automation

The screenshot displays the SIMATIC IT Preactor AS Standard software interface. The main window is titled "PESP Event Scripts" and contains a table of event scripts. The table has columns for Name, Script Type, Script Category, Label, For Event, and Action. The "Event Scripts" menu is open, showing options like Settings, Communications, Event Scripts, Import/Export, and Security. The "PESP Event Calendar" window is also visible, showing a date and time (09-18-2021 12:15) and a "Run Schedule" button.

Show	Name	Script Type	Script Category	Label	For Event	Action
<input type="checkbox"/>	After Material Pegging	User Defined	Unspecified		On SMC Finish	Refresh Bar Tool wind
<input type="checkbox"/>	Import Resource Data	Unspecified	Unspecified		Unspecified	Suspend UI
<input type="checkbox"/>	Import Product Data	User Defined	Unspecified		Unspecified	Suspend UI
<input type="checkbox"/>	Import Static Data	User Defined	Unspecified		Unspecified	Run Event Script
<input type="checkbox"/>	Import Orders	User Defined	Unspecified		Unspecified	Suspend UI
<input type="checkbox"/>	Release Schedule	User Defined	Unspecified		Unspecified	Suspend UI
<input type="checkbox"/>	APS Select Scheduling Rule	Unspecified	Unspecified		Unspecified	Is Module PrSequence
<input type="checkbox"/>	APS Forwards	APS Rule	Unspecified		Unspecified	APS Forwards
<input type="checkbox"/>	APS Backwards	APS Rule	Unspecified		Unspecified	APS Backwards
<input type="checkbox"/>	APS Parallel Loading	APS Rule	Unspecified		Unspecified	APS Parallel Loading
<input type="checkbox"/>	APS Preferred Sequence	APS Rule	Unspecified		Unspecified	Is Module PrSequencer
<input type="checkbox"/>	User Tool 1	User Tools	Unspecified		Unspecified	Display Message Box
<input type="checkbox"/>	User Tool 2	User Tools	Unspecified		Unspecified	Display Message Box
<input type="checkbox"/>	User Tool 3	User Tools	Unspecified		Unspecified	Display Message Box
<input type="checkbox"/>	User Tool 4	User Tools	Unspecified		Unspecified	Display Message Box
<input type="checkbox"/>	Export Button	User Defined	Unspecified		Export Button Press	Is Module PrSequencer