



THS Production 4.0

ENABLING INDUSTRY 4.0

SMART FACTORY

- ERP INTERFACE
- OPC-UA PROTOCOL
- EXTERNAL DATABASE COMMUNICATION
- WEB INTERFACE

PREDICTIVE MAINTENANCE

- DATA INSPECTOR TOOL
- METAL EXPLOSION
- BATCH MANAGEMENT



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QUALITY CONTROL AT ITS FINEST

THS Production 4.0

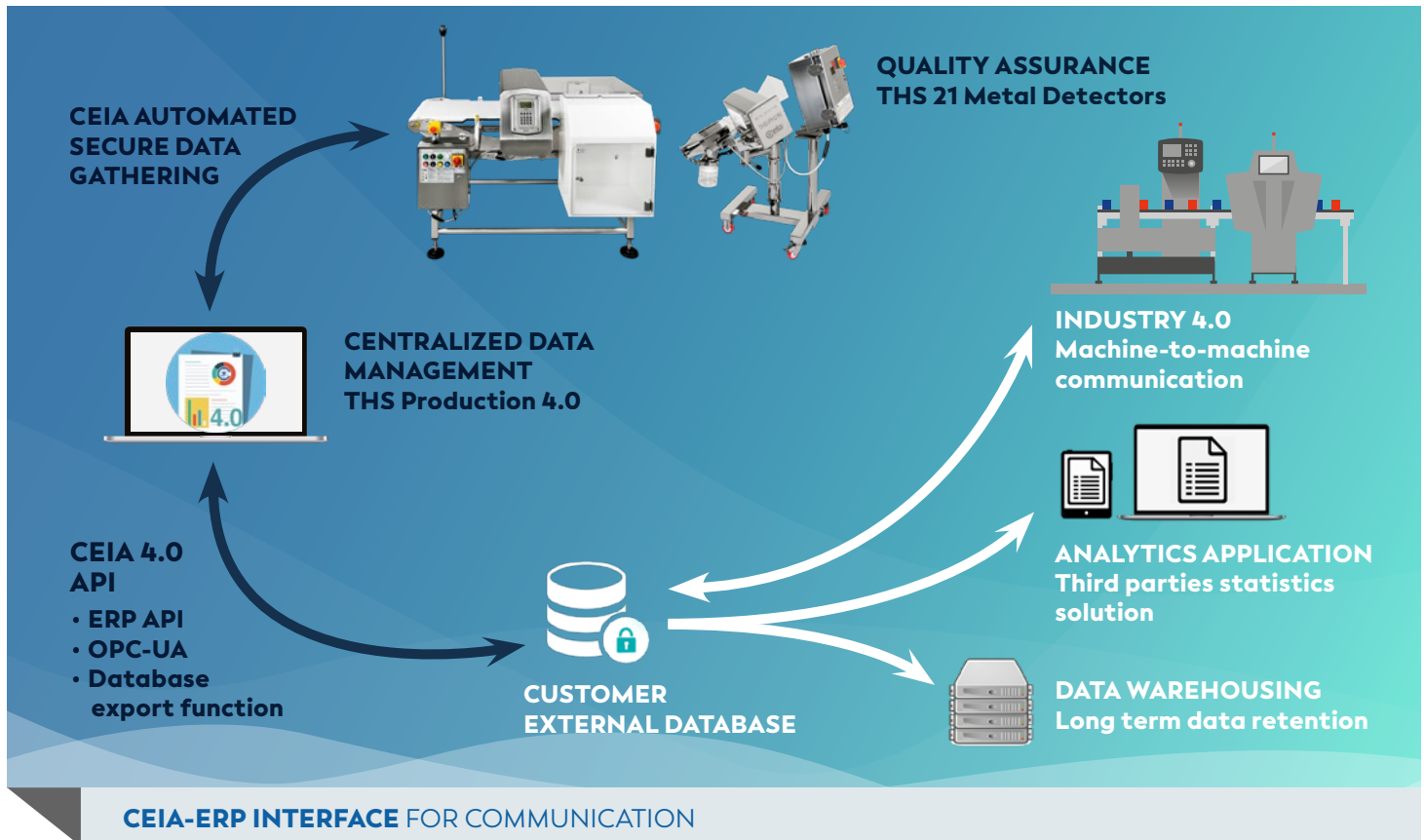


SMART FACTORY

- ✓ CEIA-ERP API interface for communication to the factory management software (Microsoft Dynamics NAV, SAP, ORACLE ERP)
- ✓ OPC-UA protocol API for Metal Detector Monitor and Control
- ✓ Connection to an External Database and Definition of a Programmable Block of SQL Instructions for each Metal Detector Event
- ✓ Compatible with standard SCADA Systems
- ✓ E-mail sender for Metal Detector events
- ✓ Integrated Web-Server Appliance for real-time monitoring for HMI and touch panel

PREDICTIVE MAINTENANCE

- ✓ Data Inspector Tool for signal and production analysis (enhanced option)
- ✓ Early Metal Explosion identification
- ✓ Batch management for defective product traceability



The THS Production 4.0 software provides acquisition and report capability for THS 21 Metal Detection Systems



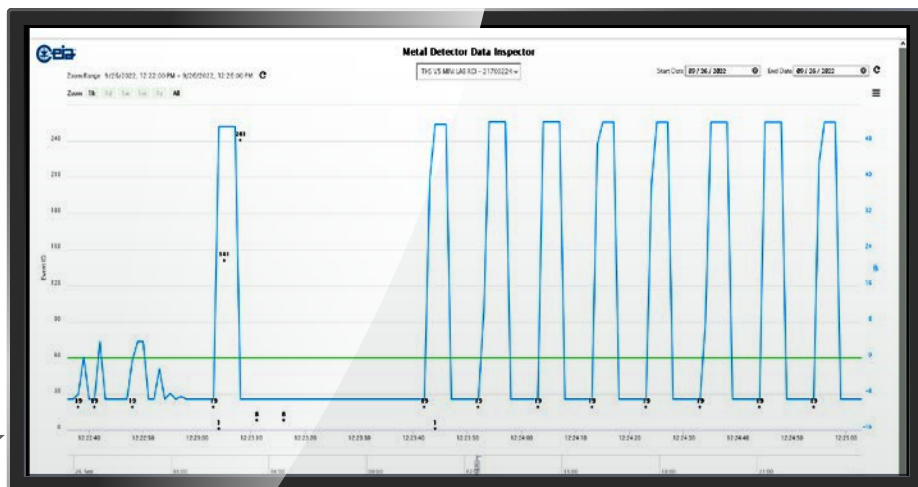
THS PRODUCTION 4.0 HIGHLIGHTS

- ✓ Connects and Acquires Data from Multiple THS Detectors via wired or wireless LAN (requires IXC module)
- ✓ Enables Data Base Management and Back-Up of Metal Detector events
- ✓ Report Data Exportable in HTML, CSV and PDF formats
- ✓ Provides User Authentication and Manages Electronic Signatures and Records
- ✓ Allows Data Integrity and Operator Auditing
- ✓ FDA Requirements Compliant, Title 21 of the Code of Federal Regulations (CFR)
- ✓ High performance 64-bit database that handles more than 500 millions events

Date & Time	SN	Event ID	Event	Product Name	Batch	Parameter	Predefined Value	Current Value	Info	Operator
20170202 08:27:35 AM	217020428	35	MetalDetector On		2022929					
20170202 08:28:57 AM	217020428	295	Fault Recover		2022929			Metal Detector reconnected.		
20170202 08:28:57 AM	217020428	292	Fault Recover		2022929					
20170202 08:29:15 AM	217020428	1000	No Command Request		2022929	lv cnp		Communication Status-1	CPC UA (Sequence Status error- Ref. ID:1)	ACBMS
20170202 08:29:25 AM	217020428	41	Concept start		2022929					
20170202 08:31:29 AM	217020428	13	Alarm		2022929				Severity: 200_Amplitude 231.00	
20170202 08:31:30 AM	217020428	8	Travel loading	F2	2022929			1	Internal 2 s	
20170202 08:31:30 AM	217020428	1	Egerton	F2	2022929					
20170202 08:31:31 AM	217020428	145	Fault		2022929			EJECT CHECK FAULT		
20170202 08:31:38 AM	217020428	42	Concept stop		2022929					
20170202 08:31:37 AM	217020428	242	Fault recovered		2022929					
20170202 08:31:36 AM	217020428	45	Concept start		2022929					
20170202 08:31:36 AM	217020428	13	Alarm		2022929				Severity: 200_Amplitude 452.00	
20170202 08:35:50 AM	217020428	1	Egerton	F2	2022929					
20170202 08:35:51 AM	217020428	8	Travel loading	F2	2022929					
20170202 08:35:51 AM	217020428	145	Fault		2022929			EJECT CHECK FAULT		
20170202 08:35:53 AM	217020428	242	Fault recovered		2022929					
20170202 08:35:53 AM	217020428	42	Concept stop		2022929					

WEB REPORT
FOR DATA ANALYTICS

DATA INSPECTOR TOOL
FOR SIGNAL AND
PRODUCTION ANALYSIS

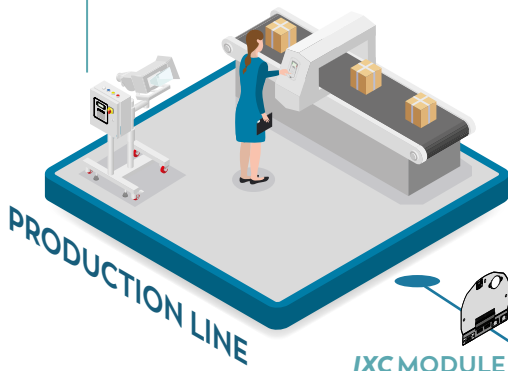


THS Production 4.0



THS 21° SERIES
INDUSTRIAL METAL DETECTION SYSTEMS

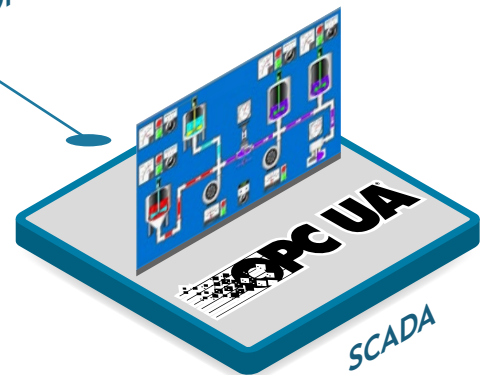
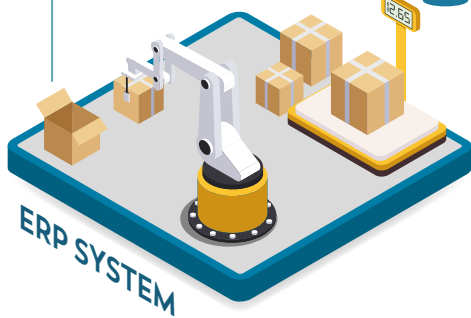
THS PH21° SERIES
PHARMACEUTICAL & NUTRACEUTICAL
METAL DETECTION SYSTEMS



IT OFFICE
MAINTENANCE DEPARTMENT



MICROSOFT NAV
SAP
ORACLE ERP



M2M CONNECTIVITY
HMI INTERFACE
OPC-UA

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