# Integration and Automation
## Machine and Process Interfaces

Integration

XACT's experience and skills in the field of registration and shop floor data collection have resulted in the capability to provide its customers with the ability to integrate to a wide variety of shop floor measurement machines as well as industry standard and bespoke CAM and Pre-CAM systems.
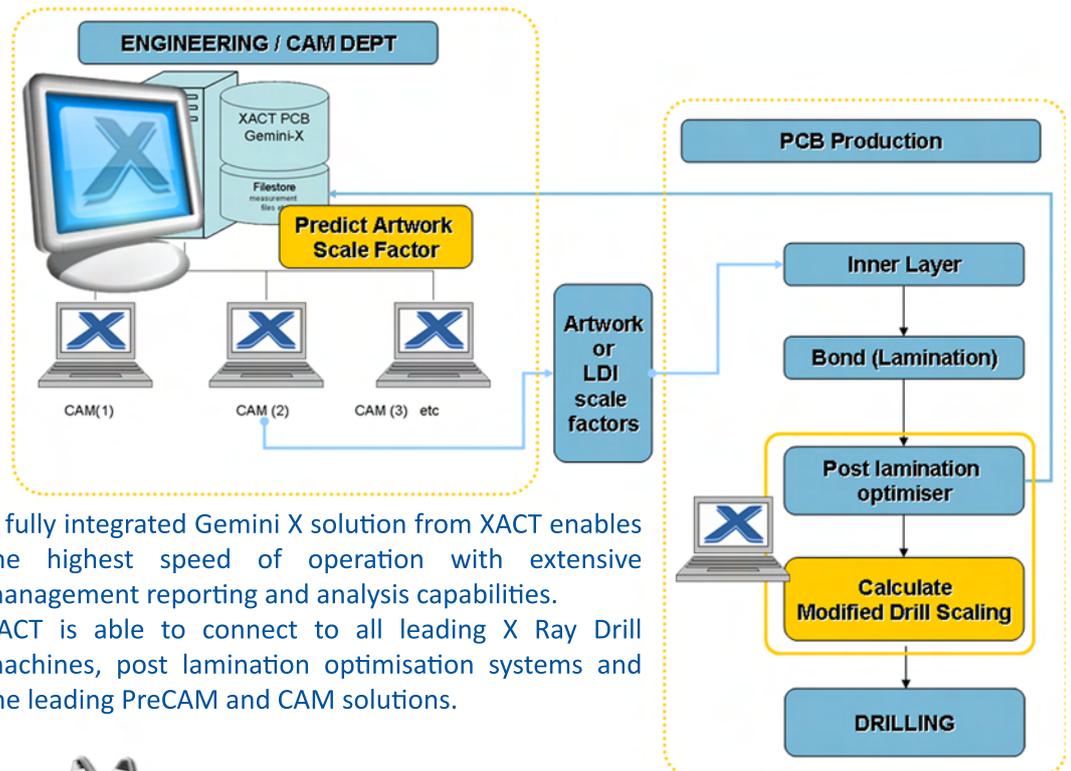
A fully integrated Gemini X solution from XACT enables the highest speed of operation with extensive management reporting and analysis capabilities.

XACT is able to connect to all leading X Ray Drill machines, post lamination optimisation systems and the leading PreCAM and CAM solutions.
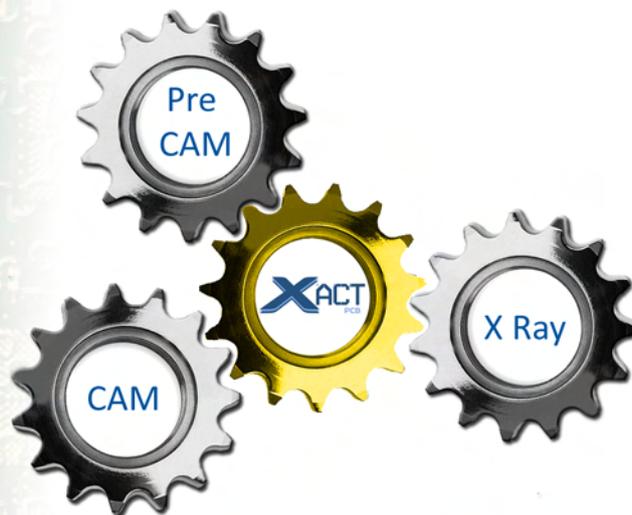
Gemini X can be integrated with all your existing systems to provide a unique intelligent manufacturing solution.

Gemini X, the world's leading registration system, enables PCB manufacturers to truly "engineer in" product accuracy and repeatability to produce optimal designs.

By integrating Gemini X with your PreCAM, CAM or stackup system you can produce right first time products with leading edge complexity and achieve critical customer delivery dates.

Integration Benefits

More efficient processes

Standardised processes with elimination of redundant systems

Reduced Operational Risk

Competitive advantage - faster time to market

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Supported CAM and Machine interfaces

PreCAM and CAM interfaces	X Ray Drill and CMMs	Intelligent Drilling Systems
Direct Logix (Multiworx)	Multiline	Excellon Intellidrill
Engenix	Muraki	Hitachi
Frontline InPlan	Optek X Ray CMM	SmartDrill
Polar SpeedStack	Pluritec	
ProCIM	Schmoll	
SQL	Morikawa	
Custom systems	Fein Focus	

Please note that our developers are adding new interfaces and machine systems continuously - please ask your sales contact if your systems are not in the above list

Automation

The GeminiX system has been designed from the ground up to be fast, simple to use, and extremely powerful. However, for those customers who require further integration with existing ERP, CAM and PreCAM systems XACT has built a set of AUTOMATION MODULES that can eliminate manual tasks from the day to day operation of the system.

Gemini Automation Modules
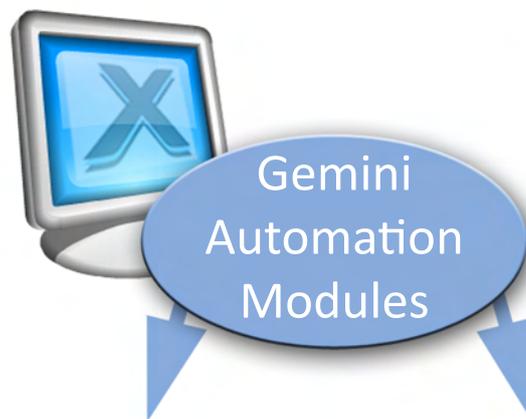
API / command-line interfaces
Automated polling programs
Review workflows
Email alerts to key personnel
Automatic scheduled optimisation

Custom configurations

ERP / Stackup link
Automated importing and set up of PCB stackups as soon as they are created in the compatible stackup or MRP system.

Machine link
Automated importing and linking of measurement data from any compatible measurement machine such as an X Ray Drill.