

[] AIMS

CONNECT,
AUTOMATE,
CREATE



ANCA



ANCA INTEGRATED MANUFACTURING SYSTEM,
AIMS, IS YOUR SOLUTION FOR OPTIMISED
CUTTING TOOL PRODUCTION, DELIVERING
A HOLISTIC SOLUTION FOR YOUR END TO
END TOOL MANUFACTURING CHALLENGES.



Streamlined manufacturing, with connected tool production processes, integrated to your IT systems will take your tool production to the next level.

AIMS is all about maximising productivity, improving quality and freeing people from doing simple manual tasks, so they can be re-deployed to others where they can really add value.

RECOGNISING YOUR CHALLENGES AND FINDING SOLUTIONS



REDUCE PRODUCTION COSTS

Sophisticated automation is the key to improving your machine OEE. Run your machines with seamless transition from one batch to the next. This serves to reduce non-productive machine time, and increase your overall output. Automated in process measurement guarantees consistent quality with lights out production.



TACKLE YOUR LABOUR CHALLENGES

Machines, not people are best suited to repetitive manual tasks. AIMS automates manual tasks within and across machines in your tool production process. This allows you to re-deploy your skilled operators to real value add tasks.



INTEGRATED SYSTEMS TO MANAGE PRODUCTION AND MANAGE DATA

As sequential processes become integrated and connected, data management is a critical tool. Not only will it ensure your production runs smoothly, it gives you better visibility on processes that can be targeted for ongoing improvement.



EVERYONE'S JOURNEY IS DIFFERENT

Recognising that different customers have different needs, AIMS is a modular system that can be rolled out on a scale that suits your business. Target specific operations in your tool production process, or look to deploy a comprehensive end to end automation system. The choice is yours.

AIMS IS MODULAR BY DESIGN, GIVING YOU THE FLEXIBILITY TO:

- **TARGET AREAS OF PRODUCTION YOU IDENTIFY, THAT WILL BENEFIT THE MOST**
- **OR DEPLOY ACROSS A WIDER PRODUCTION PROCESS TO REALISE THE MAXIMUM BENEFITS OF A CONNECTED PRODUCTION SYSTEM**



AUTOFETCH

This Autonomous Mobile Robot or AMR, will be your workhorse. Mapped to your factory, it autonomously performs routine tasks to keep your machines running in lights out operation. Modular design means functions can be added depending on your needs. Additional AutoFetch units are added as your AIMS system grows.

• **AUTOFETCH-SOLO:** an add-on function, for transferring single tools between your machine and external measuring systems for in batch compensation.

• **AUTOFETCH-MULTI:** an add-on function, for transferring tool pallets from one machine to the next, giving uninterrupted lights out production

• **AUTOFETCH-BOT:** addition of a cobot to the AutoFetch (AMR) futureproofs your AIMS system to be adapted to tasks unique to your production line



AUTOCOMP

Ensures tool quality in lights out production. Added to your tool grinding machines, it transfers single tools to external measuring equipment using AutoFetch-solo. Measurement results determine compensation to be applied before the tool is returned to its production batch.



AUTOLINE

Minimises machine idle time between batches. Added to your production machines, it transfers tool pallets in and out of sequential production processes using AutoFetch-Multi



AUTOSET

Is the hub for tool pallet preparation and management. Connected to your factory IT systems, set pallets with tool blanks and the correct job data, ensuring the right process is applied every step of the way.



AUTOMARKX

AutoMarkX takes care of tool laser marking for you, freeing up the operator to perform other tasks on the factory floor. Just load the pallets full of tools, or let AutoFetch do it automatically for you, and the rest will be taken care of. AutoMarkX integrates seamlessly into your ERP and AIMS, helping to streamline the manufacturing process even further.

AIMS SERVER

Is the brains of your system, managing data flows between the working elements of your AIMS system and your established IT platforms like ERP and MES. As well as executing your production activities, additional software modules are offered to manage of your machine programs, remotely display real time machine activity and continuously gather production data to be shared via OPC compatible systems.

YOUR PARTNER IN ANCA

WITH OVER 40 YEARS' EXPERIENCE DELIVERING CNC GRINDERS TO CUSTOMERS AROUND THE WORLD, ANCA CARRIES A REPUTATION FOR DELIVERING SOLUTIONS TO MEET MARKET NEEDS.

AIMS is the next step in cutting tool manufacture process evolution, connecting tool production processes to deliver productivity and quality gains that keep you one step ahead of the competition.

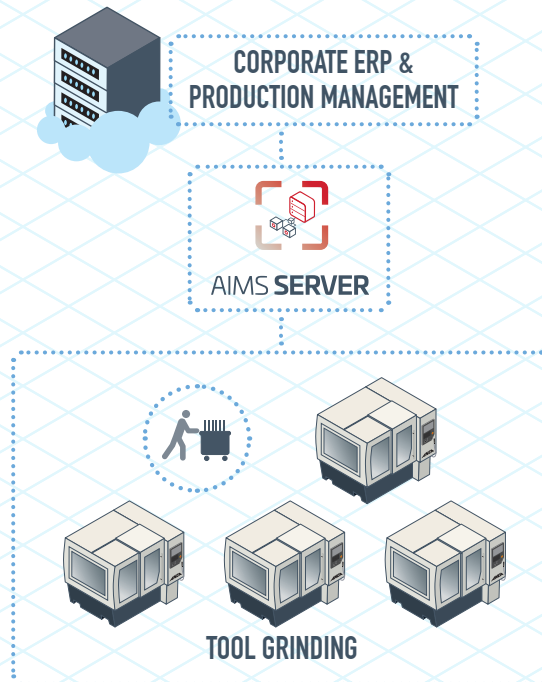
Whether deploying AIMS to a single process, or across an entire production line, ANCA will be your working partner - with Engineering, Applications and Aftersales support located in ANCA facilities around the world.

AIMS – CONNECT, AUTOMATE, CREATE



CONNECT, AUTOMATE, CREATE: TAILOR IT YOUR WAY

EXAMPLE 1: AIMS SERVER IMPLEMENTATION



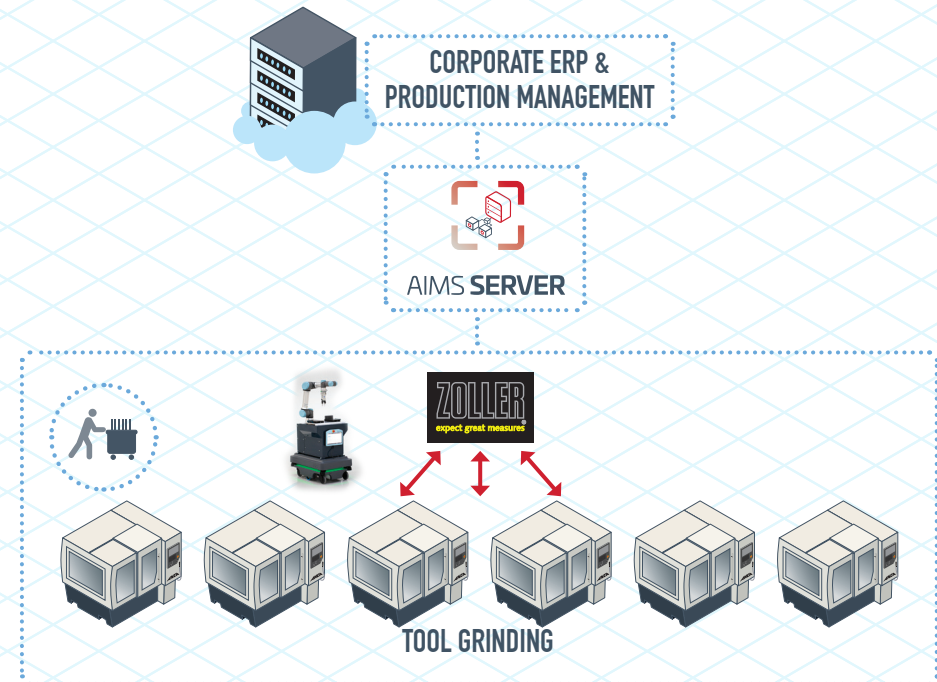
FEATURES:

- Centralised machine file management using ToolServer software option
- Connectivity between machine file manager & job card production schedule
- Bar code scanner for scanning job cards
- Machine & process visibility with REDAX

BENEFITS:

- Elimination of errors in programming
- Single centralised grinding file for all machines streamlines management
- Faster setup by operators with less manual data handling

EXAMPLE 2: ADD AUTOMATED TOOL MEASUREMENT



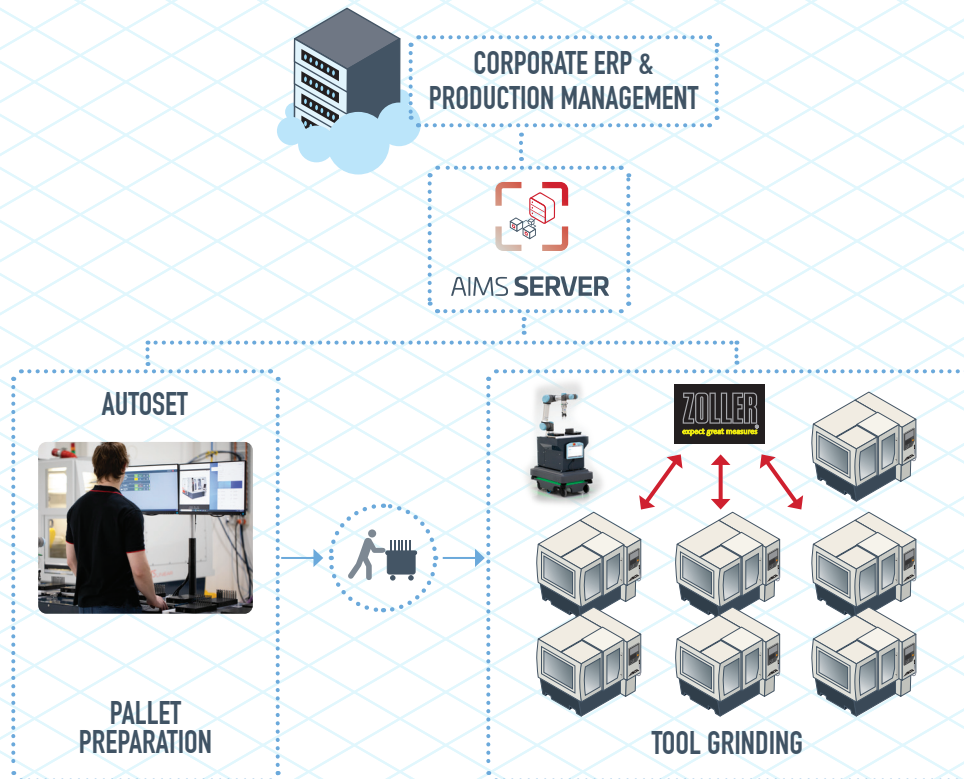
FEATURES:

- Automated tool measurement and compensation across multiple grinders (AutoComp)
- Automated tool transport between grinder and Zoller (AutoFetch – solo)

BENEFITS:

- Eliminated operator for tending of intermittent tool measurement
- Automated process start-up
- Improved tool quality and consistency
- Reduced operating costs

EXAMPLE 3: ADD OFFLINE SETUP

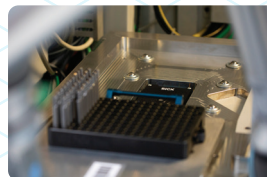
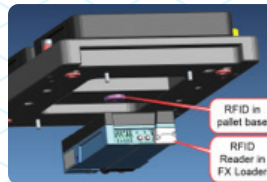


FEATURES:

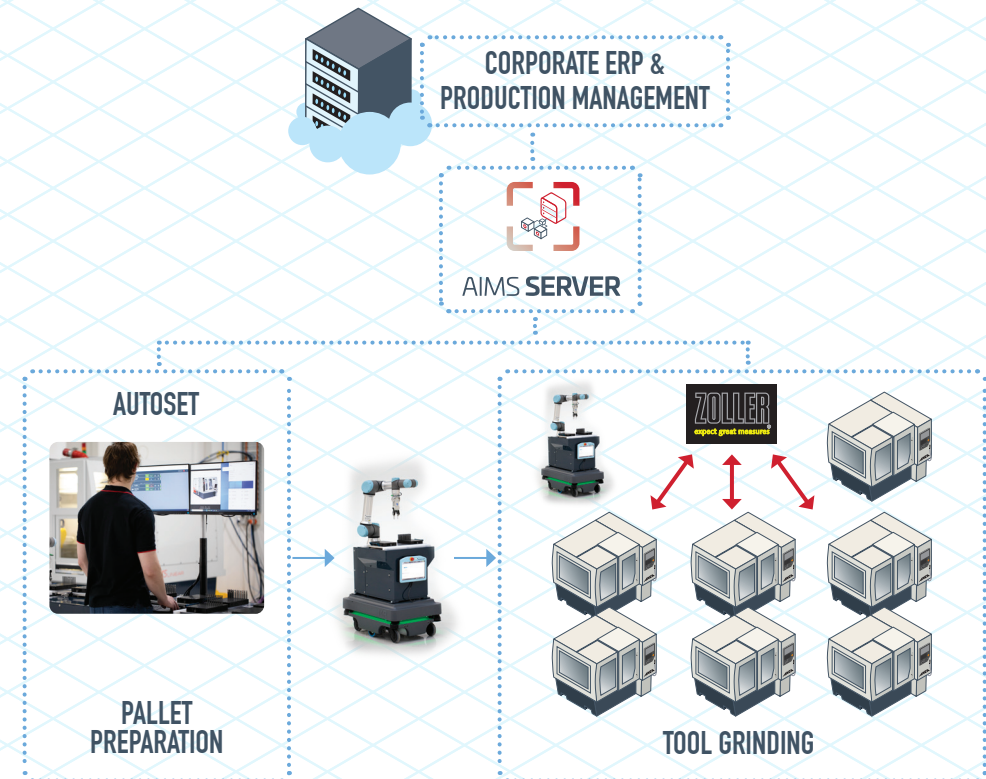
- Pallet and program offline preparation (AutoSet)
- RFID in pallet stores job data
- AutoLine loader recalls program via RFID
- Operator placement of pallets into grinder

BENEFITS:

- Reduced machine downtime by preparing and programming offline
- Eliminate programming errors
- Continuous production by operator supplied pallets



EXAMPLE 4: ADD AUTOMATED PALLET TENDING



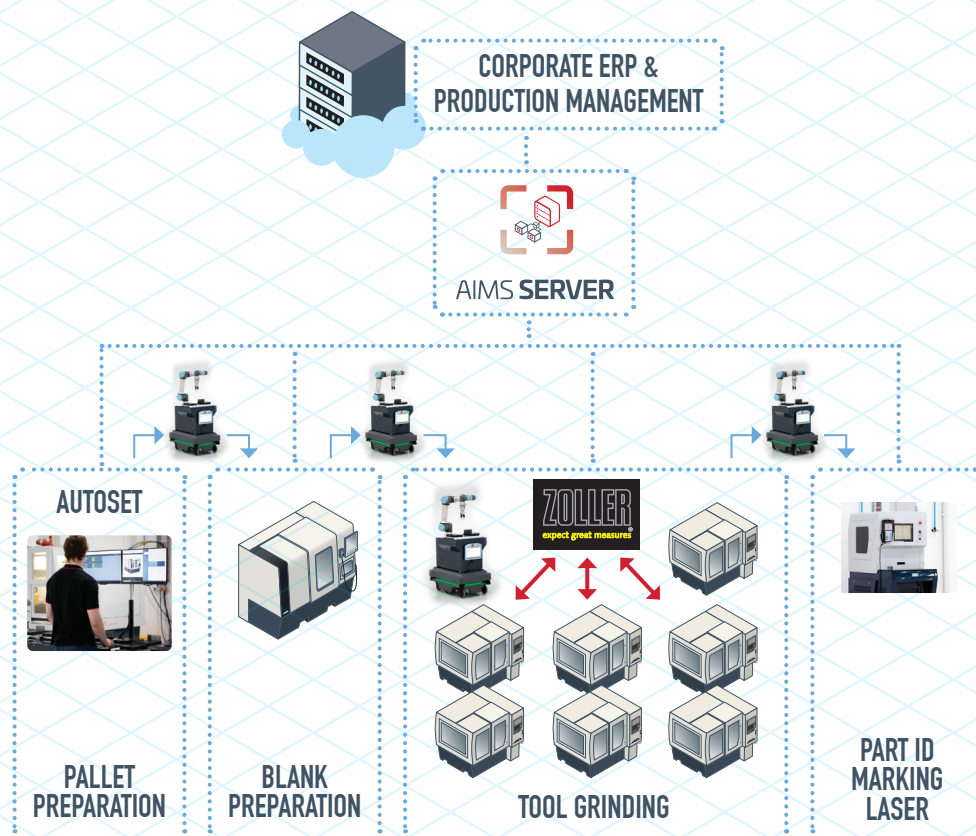
FEATURES:

- Automated pallet transport from setting station to tool grinder
- Automated load/unload of pallets into grinding machine

BENEFITS:

- Unattended tool production reduces labour costs
- Eliminates down time between pallet batches
- Integrated data management between production schedule and machines

EXAMPLE 5: ADD PALLET TENDING ACROSS PROCESSES



FEATURES:

- Automated connectivity of sequential processes
- Integrated real time data visibility between factory IT and production shop floor (REDAX)

BENEFITS:

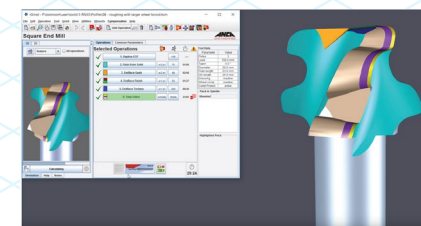
- Reduced labour costs
- Improved equipment utilisation
- Improved production quality and consistency
- Real time management and visibility of production equipment
- Data availability used for process analysis & improvements

KNOWLEDGE IS POWER – CONNECT WITH ANCA TO FIND OUT MORE ABOUT HOW TO USE YOUR GRINDING MACHINE

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Translated into nine languages, every month we share customer success stories. Learn about ANCA's latest products, services and tips and tricks on how to get the most from your grinding investments. Go to www.anca.com to sign up and stay ahead.

Every week we send out a new post - simply follow one of our social channels or look out for the hashtag to get the most out of your ANCA machine.

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