

LIANCO

TECHNOLOGIES



Fettling and finishing of castings immediately after outbreak



Nederlandse
Vereniging van
Gieterij Technici

CLAUDIO COSSALTER

Sales Director

AGENDA

1. The basics for a finishing shop willing to go automatic.
2. Latest available technologies.
3. How to choose the right technology for my needs.
4. How to turn automatic grinding into an added value operation.
5. Steel – the next frontier for automatic grinding.
6. Q&A session.

The basics for a finishing shop willing to go automatic.

....so what it takes to go from here:

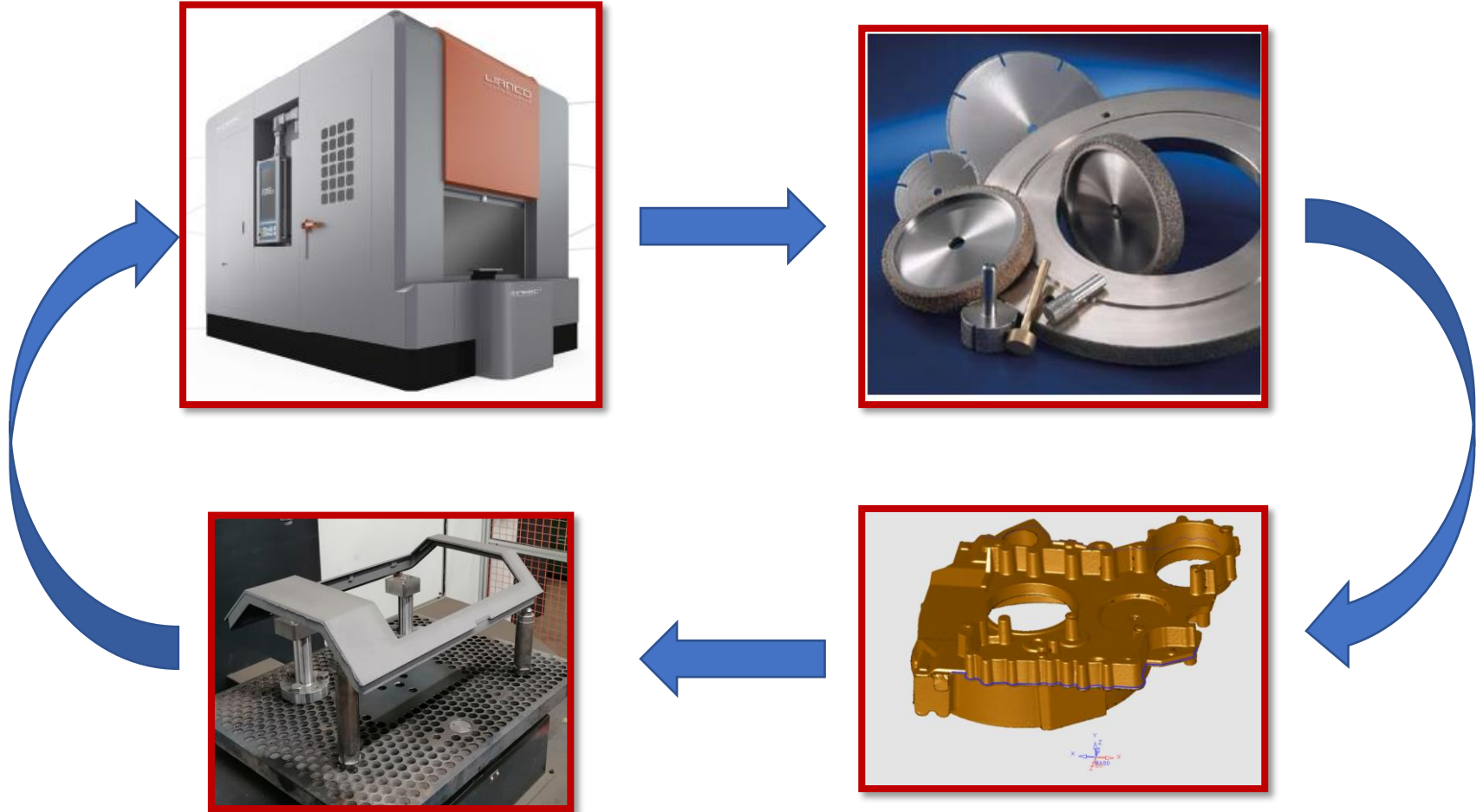


To here!



ABC to start this adventure.

1. Equipment
2. Tools
3. Tooling (fixtures)
4. Programming



Success comes from a teamwork !

Latest available technologies

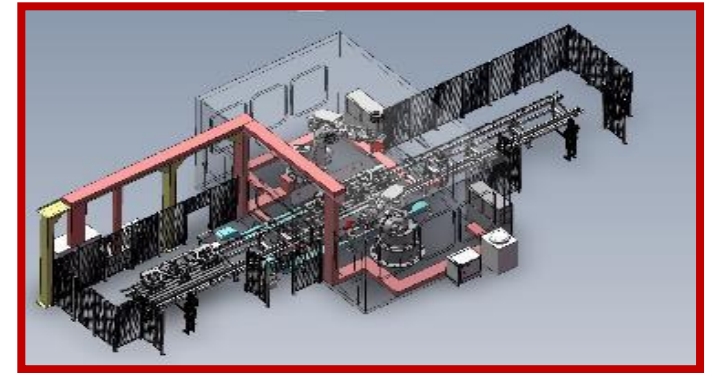
Robotic Cells



CNC grinders

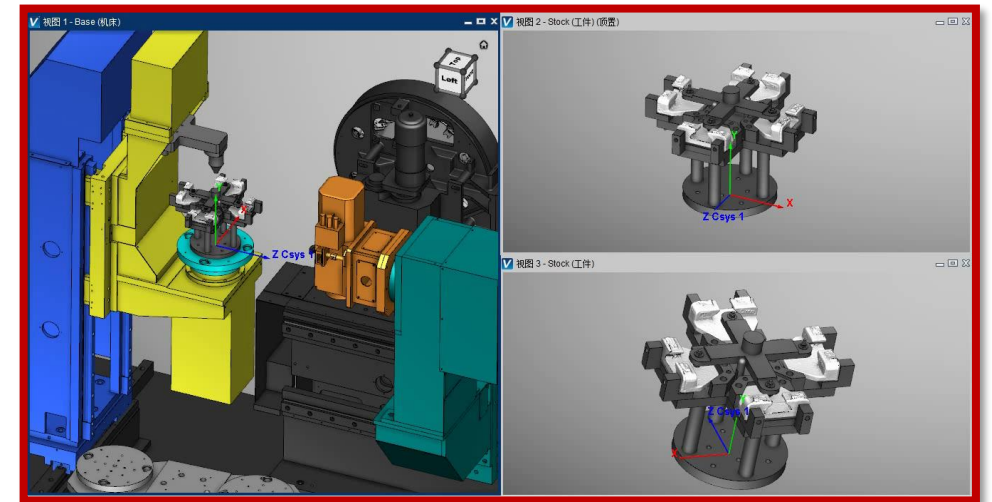


SPM solutions



How to choose the right technology for my needs

1. Study your existing fettling shop (machines / manpower / running costs)
2. Study your annual production (part numbers / quantities / avg weight / avg dimensions)
3. Check fettling cost & time vs total casting cost & lead time
4. Choose most valuable parts for your business
5. Ask supplier to run a detail analysis and present a solution
6. Compare and judge



How to choose the right technology for my needs

Need	Manual grinding	Robotic grinding	CNC grinding
Flexibility	High	High	High
Reliability	Low	Medium	High
Output capacity	Low	Medium	Medium / high
Stiffness	Low	Medium	High
Programming easiness	-	Medium	Medium
Weight capacity	Medium	High	Medium
Dimensions capacity	Medium	High	Medium
Casting quality	Medium	High	High
Riser cutting capacity	Low	Medium	High
Part machining capacity	Low	Low	High
Safety	Low	High	High

Different needs...different solutions

How to choose the right technology for my needs

Role and responsibility of the foundry (how to avoid failures)

- ✓ Is my foundry ready to go automatic ?
- ✓ Do I have the right resources to handle an automatic grinder ?
- ✓ Am I committed to invest in people and not just in equipment ?

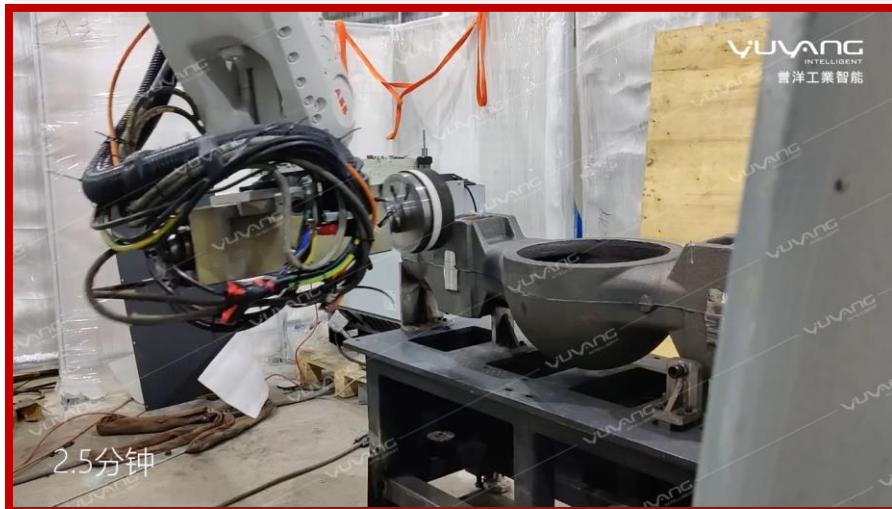
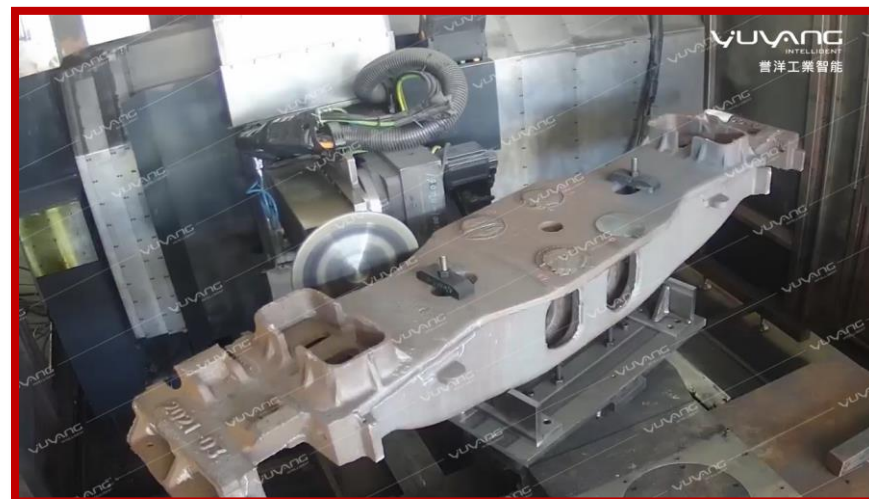
Going automatic for the first time can be a big jump, get ready for that !

How to turn automatic grinding into an added value operation

- ✓ Pre machining option
- ✓ Automatic inspection pre/post
- ✓ More automation around the finishing shop
 - Automatic loading
 - Automatic change over
 - Automatic warehouse



Steel – the next frontier



Long story short...

- ✓ Fettleing is a pain in the ass
- ✓ No one wants to do it manually anymore
- ✓ Going automatic is possible !
- ✓ Look at your needs and not just at the cheapest solution!
- ✓ Engage an expert and not just a salesperson

3min of our
20+ year's
experience



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Q & A time

HQ:

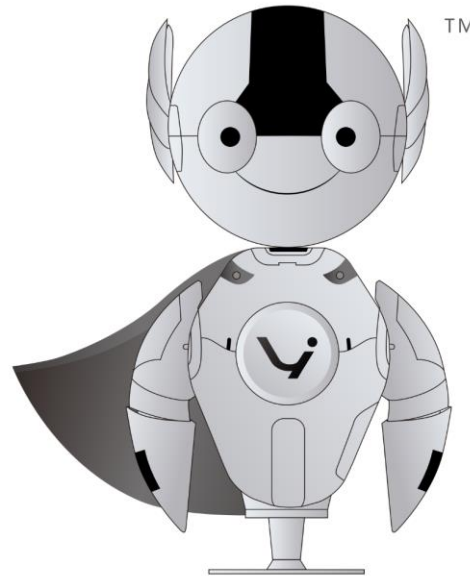
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