

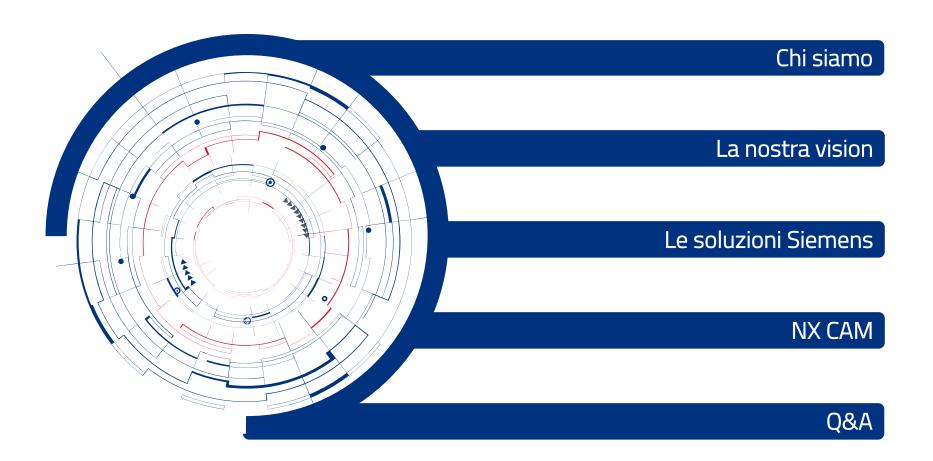
Aldo Hazizaj (Digital Industry Manufacturing Specialist)

Solution
Partner
Smart Expert
Digital Industries
Software



# Agenda

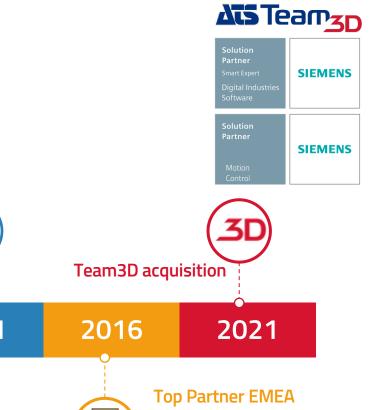


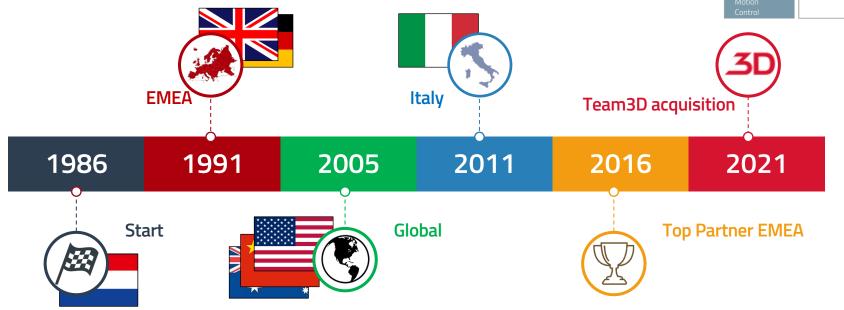


## Who we are

**MES** 

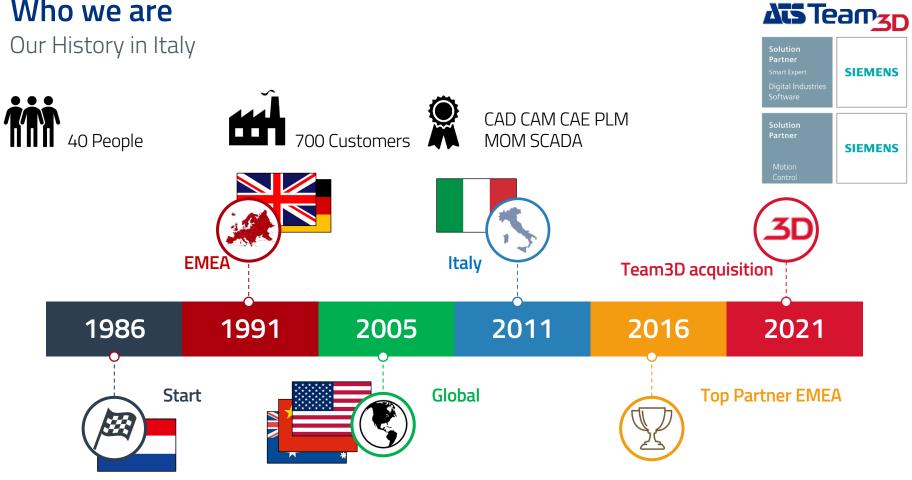
Our History





## Who we are

**MES** 



## **ATS Global**

#### Where we are





## ATS Team3D

Where we are...in Italy



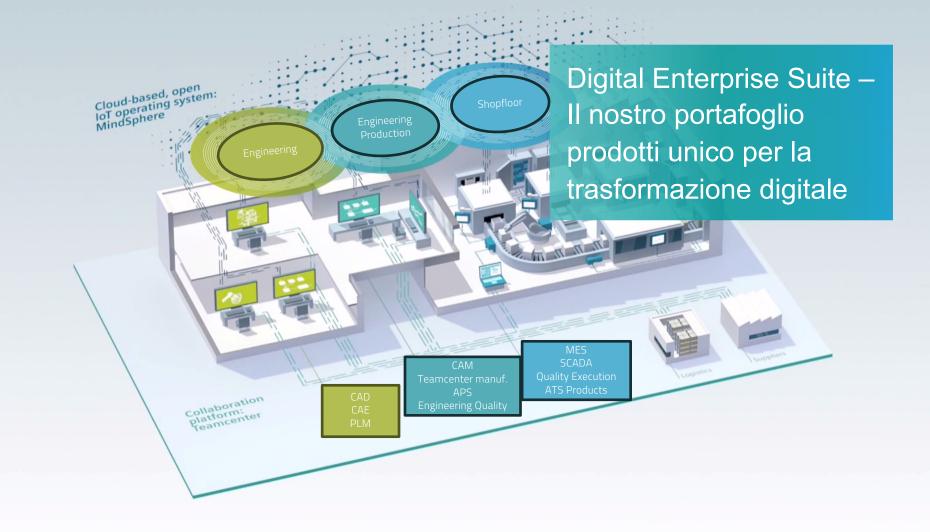


### ATS Team3D

#### Who we are and what we do







# The Digital Enterprise

## Product Portfolio and Scope



CAD		CAE		CAM	PLM	MOM	SCADA
Product Engineering	Mainstream Engineering	Specialized Engineering	Simulation and Test Solutions	Manufacturing Engineering	Lifecycle Collaboration	Manufacturing Operations Management	Digital Services
<b>NX</b> End-to-end design and engineering	<b>Solid Edge,</b> <b>Femap</b> Product design, simulation and manufacturing	Fibersim, Syncrofit, Mastertrim Composites, air frame assembly and seat design	LMS, NX Simulation, STAR-CCM+ Simulation, test and systems engineering	Tecnomatix, NX CAM  Process design and simulation; NC programming	Teamcenter, Polarion  Collaboration; Process, Change and BOM Management, Product Costing	Opcenter Execution, Opcenter Scheduling MES/MOM	<b>Ignition</b> Quality, HMI and Production
Design & engineer better products faster	Product design and engineering for the mainstream market	Rich domain and industry driven solutions	Enabling closed-loop Systems Driven Product Development	Build & support products more efficiently	Collaborate & innovate more intelligently	Realize products faster and increase quality	Shop-floor equipment control and supervision
Product-driven Services							

### **Our Services**

#### Professional Service

- Consulting
- Training
- Training on the job / Operational support
- Remote support
- Hotline
- Postprocessor
- AMS service

#### HOTLINE (SMA)

This services is dedicated exclusively to manage the problems related to the BUG of the Siemens software (only for ATS

#### HELPDESK (SLA)

This services is ment as a Training or support on the phone with online access for the customer

#### AMS

**Lis** Teams

(Application ,amaged Services)

Application Managed
Services is the services
dedicated to the
management and support
for the CAD CAM PLM
customer. The services has
the scope to manage the
installation with a fixed
price with a team of expert.
Ticketing. Programmed
management, and
evolutive

Unic in the Siemens environment, we have put in place an internal R&D Specialized esclusively in the CAD CAM and PLM domain and we are able to develop customized tools for the customer

Team3D software

- NX
- Solid Edge
- Teamcenter
- Tecnomatix

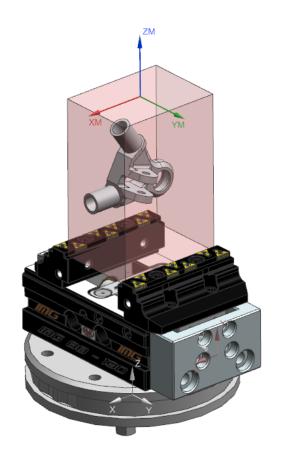
## Digitalizza l'Innovazione



### **NX CAM**

#### SI PUO' REALIZZARE UN PEZZO COMPLESSO AL PRIMO COLPO?

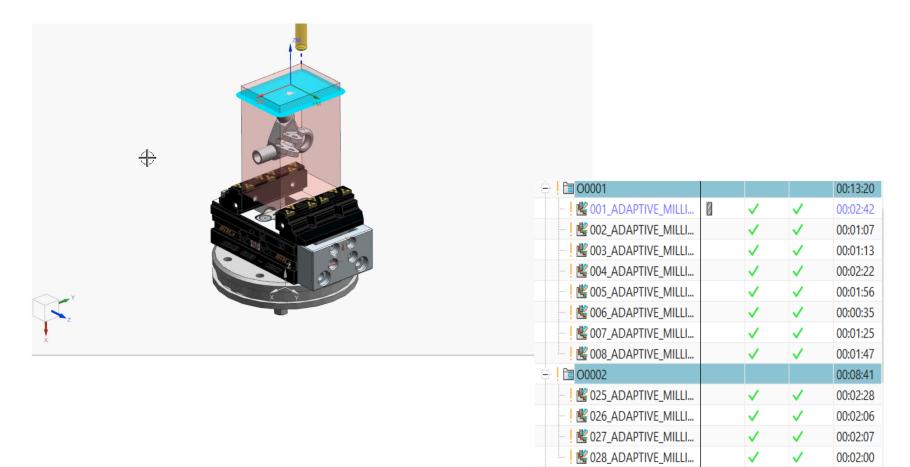




PER LA LAVORAZIONE ABBIAMO DECISO DOPO UN' ANALISI DELLE CRITICITA' DI UTILIZZARE UNA PRESA UNICA, CON I SOSTEGNI CHE VERRANO RIDOTTI DURANTE LA FRESATURA.

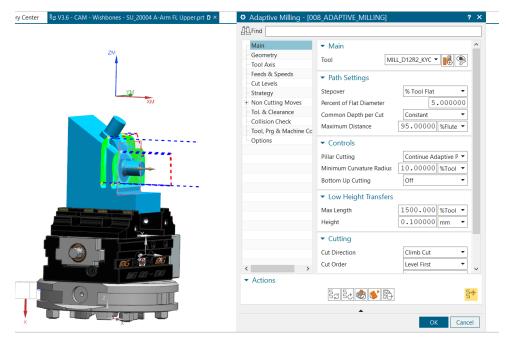
### SGROSSATURA CON ADAPTIVE MILLING



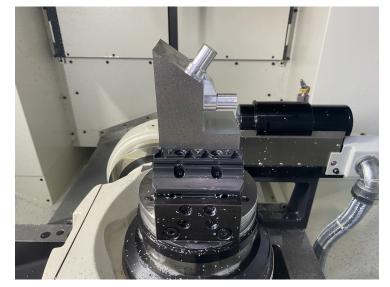


## **SGROSSATURA CON ADAPTIVE MILLING**



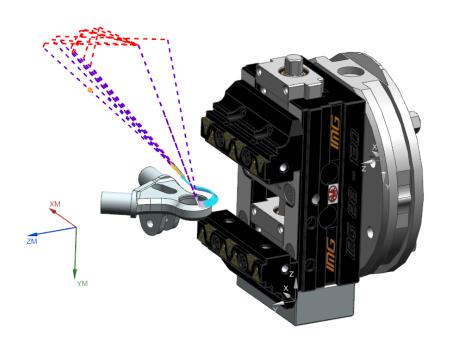


Abbiamo deciso di eseguire prima la lavorazione dei cilindri cosi da mantenere corrette le tolleranze e le deformazioni.



## Lavorazioni 5 assi continui



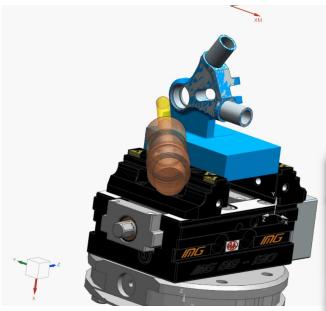


Abbiamo utilizzato la lavorazione VARIABLE\_STREAMLINE per eseguire la lavorazione 5 assi in continuo per ottenere una qualità superficiale ottimale.

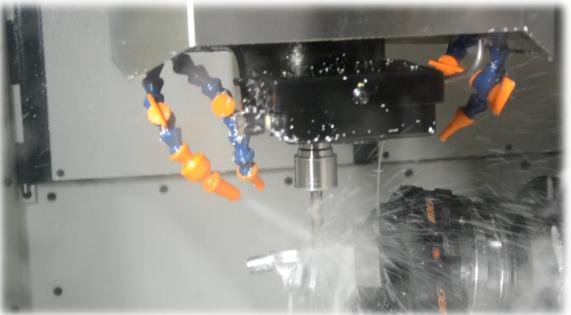


## Lavorazioni 5 assi continui



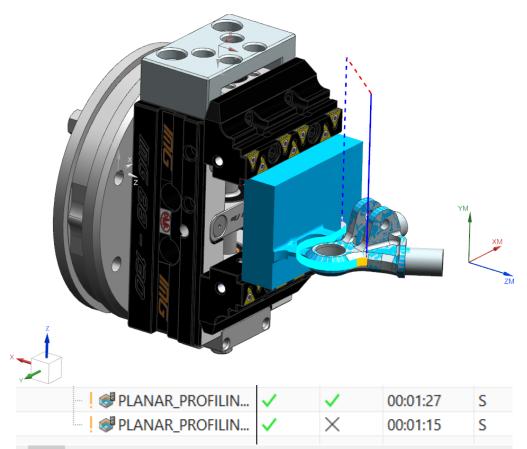


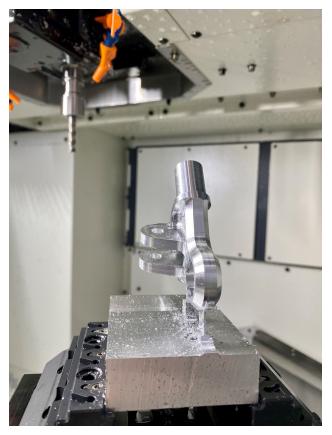
Material: Al 7075-T6
Tool: Kyocera 44896
Dc = 10 mm
Z = 3
n = 1'000 rpm
vf = 250 mm/min
fz = 0.083 mm
vc = 31.4 m/min



## Riduzione attacchi







## CONCLUSIONI



64 OPERAZIONI

3 H TEMPO PROGRAMMAZIONE CON UTILIZZO DEI TEMPLATE

2H 41MIN TEMPO CICLO MACCHINA

