



# VERIFy



How can we improve the defect identification and correction on casted parts?



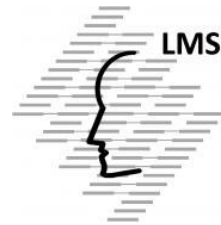
## State of the Art:

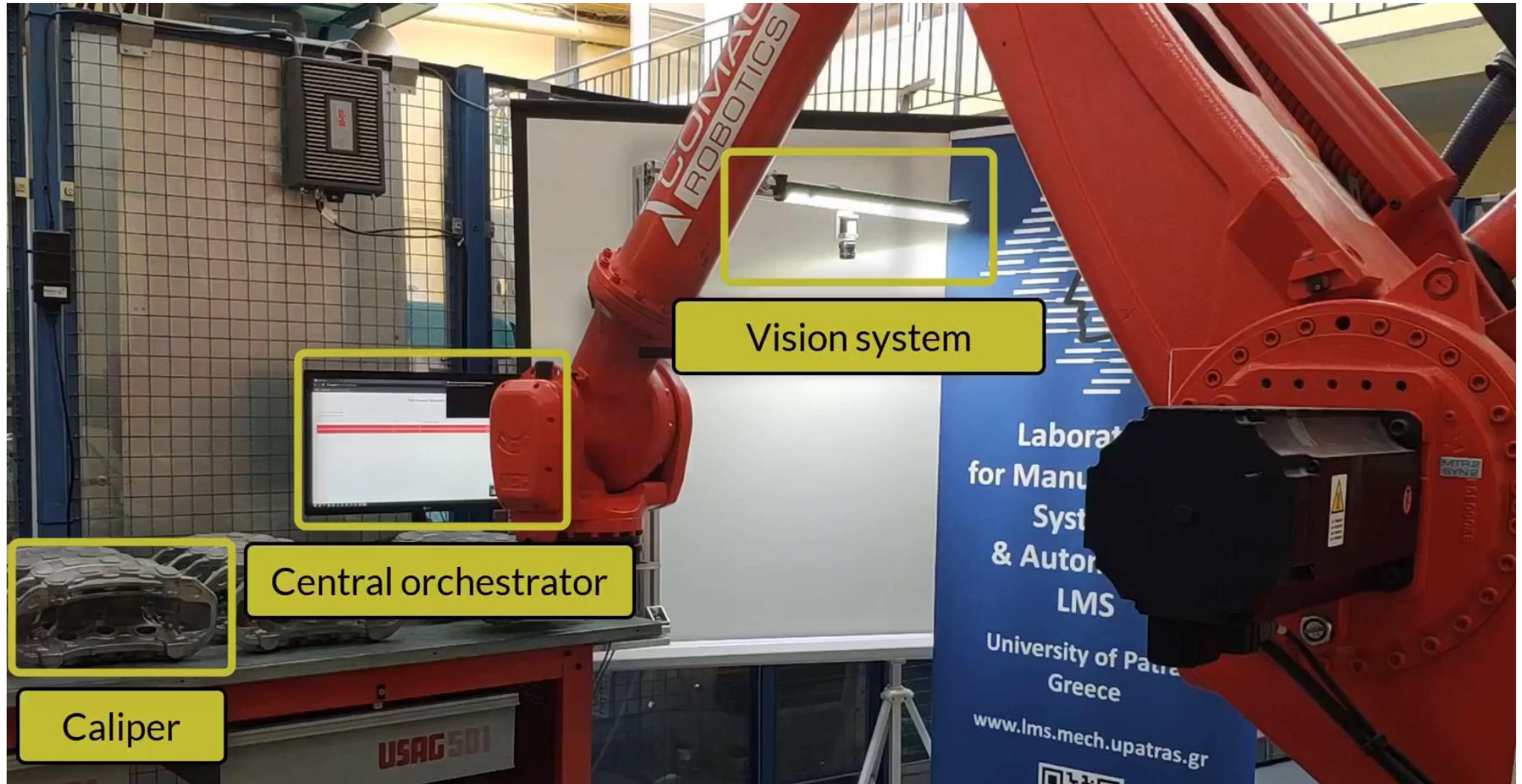
- Quality control traditionally performed by human visual examination
- Finishing processes for corrective actions is also performed by human (requiring sensitivity and accuracy)



## Pain:

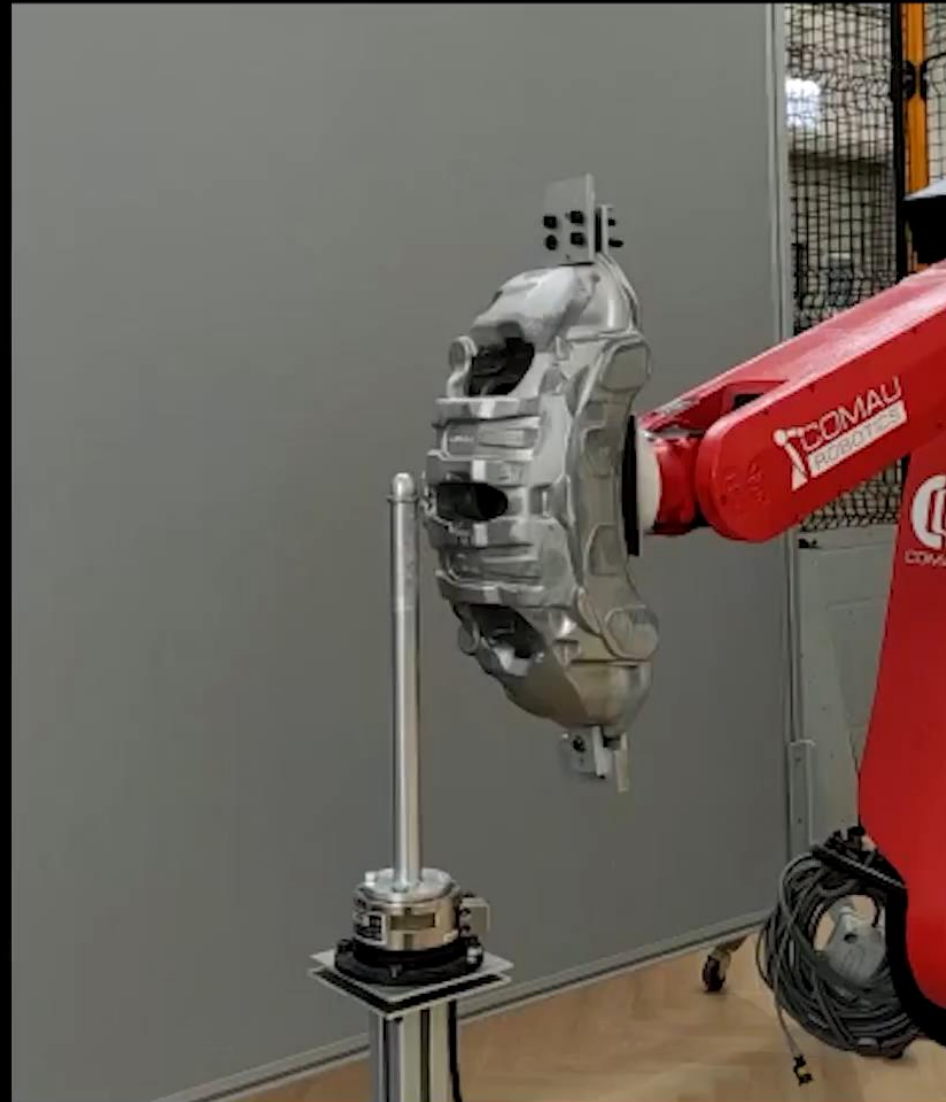
- Non-ergonomic operations that can affect the health and safety of the operator
- Production efficiency



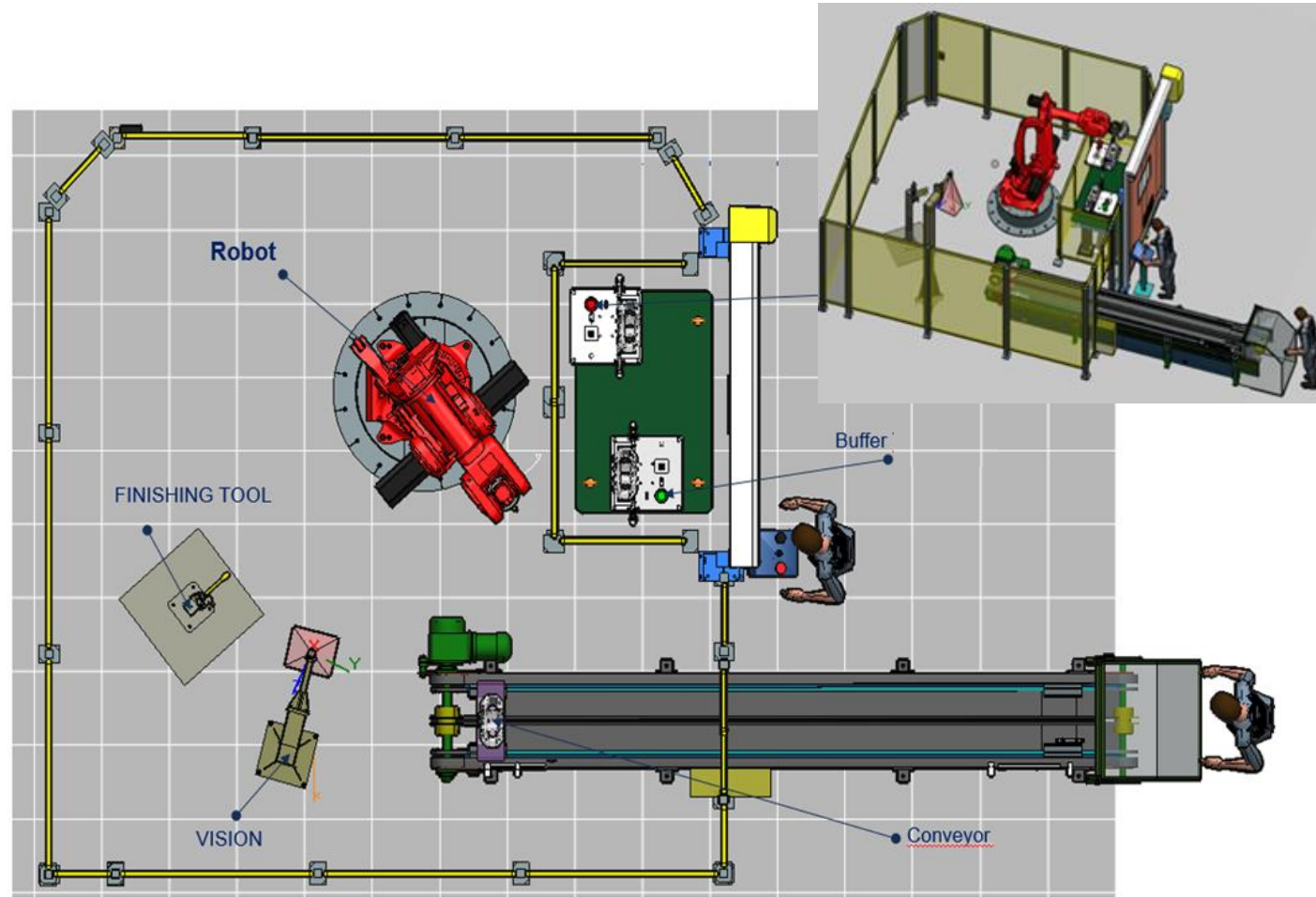




Parameter	Value		
Grinding Feed rate	$V$	0.001	m/s
Estimated environment stiffness	$K_E$	$10^5$	N/m
Integral gain	$K_I$	5	
Tool radius	$R_{tool}$	12	mm
Force reference	$F_{rif}$	20	N







## VERIFy

The VERIFy cell enhances the efficiency of the production and the workers condition.

### Benefits

- Reduced Time and Cost
- Increased defects diagnosis
- Reduced subjectivity of the workers
- Reduced non-ergonomic tasks
- Minimisation of deburring equipment
- Less spare parts



# EUROPEAN MANUFACTURING INNOVATION

