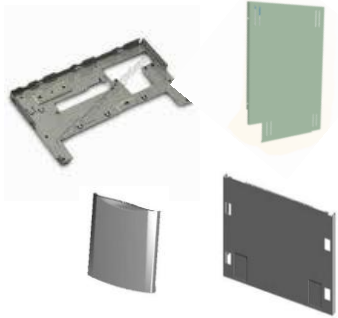


Intelligent Robot for End-of-Press Picking and Placing Operations

- **Objectives:**
 - Wide usage of mechanical transfer presses in metal part fabrication
 - Ergonomic constraints due to human physiology
 - Heavy parts & continuous placing
 - Workers can place parts in containers up to a speed limit → below press speed
- **Expected results:**
 - A smart robot system working cooperatively with the worker
 - Will easily adapt itself for different parts
 - Movements can be taught easily by a standard worker
 - Will not use pre-defined containers
 - Will make it possible to exploit full potential of the press
 - Up to %40 increase in working speed

Intelligent Robot for End-of-Press Picking and Placing Operations



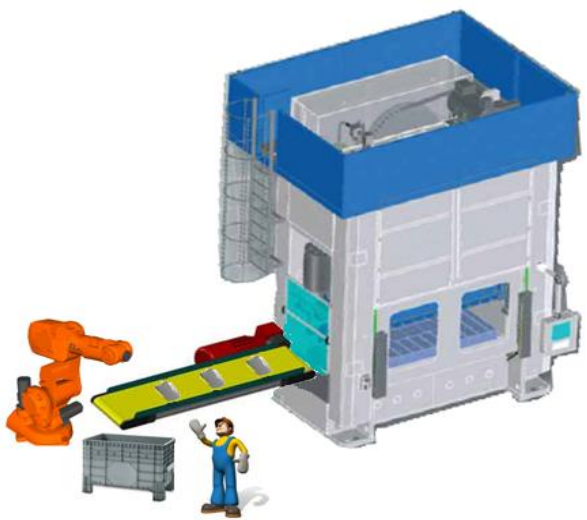
variable metal parts



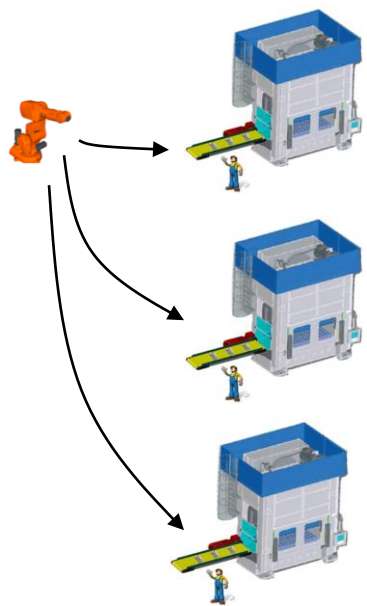
variable containers



Ergonomic constraints due to worker physiology



Collaborative work with human worker



Plug&Produce Adaptive Mobile

Intelligent Robot for End-of-Press Picking and Placing Operations

Known Partners				
S.No	Partner Name	Type	Country	Role in the Project
	ARCELIK		TURKEY	End - user
	Automation & Technology Company (Negotiating)		SPAIN	Developing of robot arm / complete unit
	Research Instute (Negotiating)		ENGLAND	robotics, intelligent automation, signal processing
Required Partners				
S.No	Profile	Type	Country	Role in the project
	Research Institute / University / Company	-	-	Coordinator
	Robotics researcher/manufacturer	-	-	Developing of robot arm / complete unit
	IT developer	-	-	Signal processing / Machine vision
	Sensor manufacturer	-	-	Smart sensors