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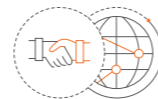
**AUTOMATIC  
GRINDING**

# SERVICE SUPPORT SYSTEM

## TECHNICAL SUPPORT

With a strong technology platform, Gudwill provides users with professional technical support for pre and after-sales of industrial intelligent integrated systems, including intelligent integrated system design, simulation, installation and commissioning, maintenance and rectification, and expansion of intelligent integrated systems, upgrades and transformations.

Gudwill specifically provides professional services and technical guidance in the field of intelligent Grinding.



## TRAINING CENTRE

In terms of user training, Gudwill engineers have years of practical experience in the field of application, and can provide you with basic training and intensive on-site installation training, sharing technical knowledge and application experience. In addition to standard training courses, Gudwill can also provide different levels of advanced and customized training services according to your specific needs.



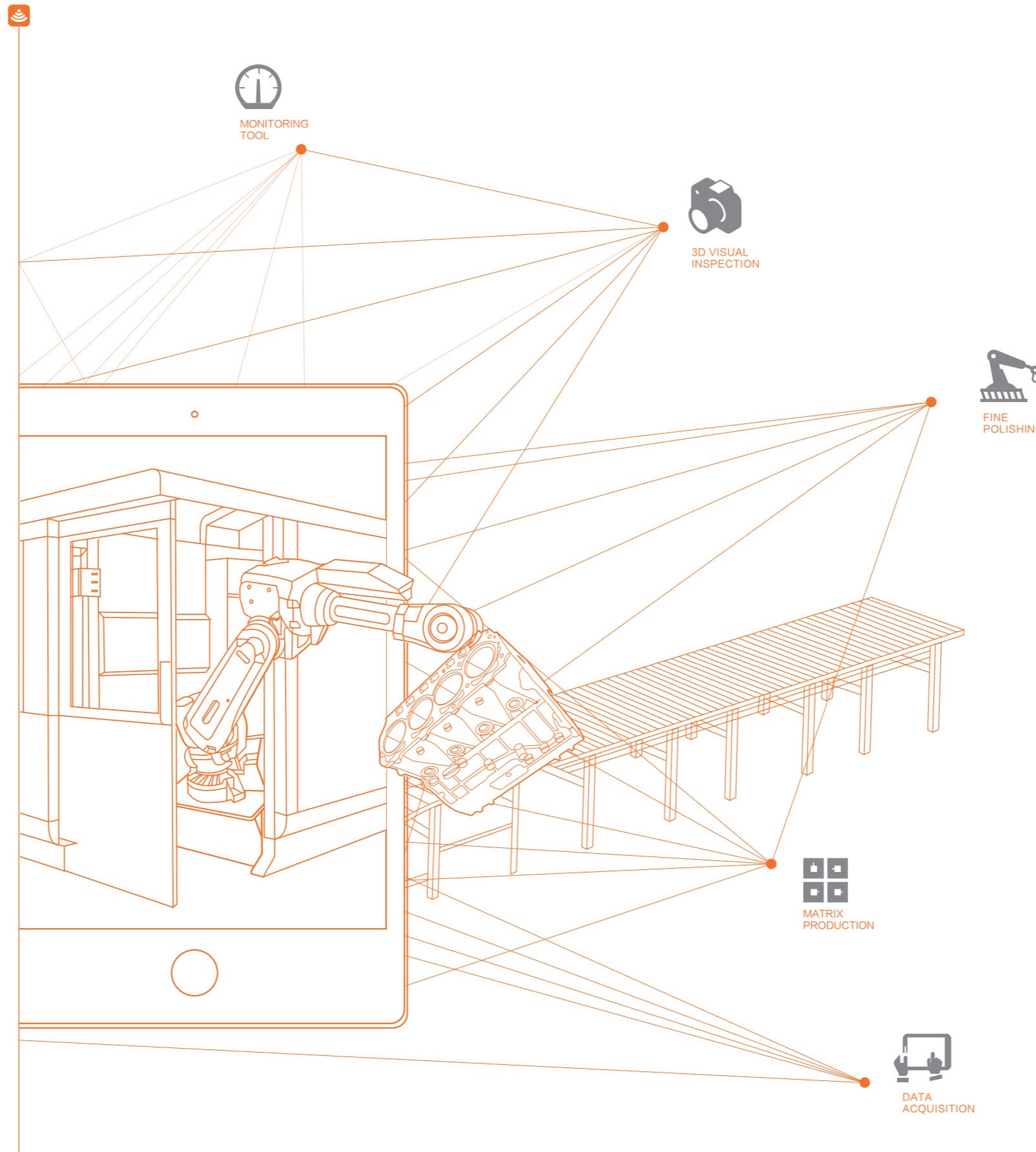
## SPARE PARTS SUPPLY

To cater for equipment maintenance and repair, Gudwill has a large inventory of original parts, ensuring that every original spare part can realize the normal use of your equipment, thereby optimizing, updating and extending the service life of Gudwill products. Not only that, in terms of control software, Gudwill will continue to provide you with professional after-sales service, and kits such as installation and maintenance kits and upgrade kits at any time to realize equipment modification and the upgrading of new functions.



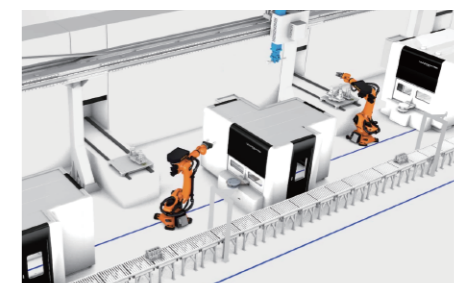
# Foundry Factory Automation Solutions –

Gudwill's forward-looking thinking sets and leads the pace of enterprise innovation, and integrates a series of intelligent one-stop solutions for foundries in response to a series of problems such as low labor efficiency, unstable product quality and serious environmental pollution. From the data collection and tracking in the production of raw materials into the warehouse, to the fine grinding in the cleaning process, and finally to the 3D visual inspection before the product is shipped out of the warehouse, the automation system runs through every link in the production, and finally realizes high quality, high processing efficiency and environment, and a zero-pollution modern intelligent enterprise.



## Intelligent Grinding Production Line - Grinding Experts, Professional Customization

In the field of automated grinding, Gudwill's independent innovation technology, customizes professional and intelligent solutions for different industrial manufacturing dilemmas and needs. Whether it is a separate grinding machine or a complete grinding line, it can maintain the consistency of the production parts and the efficiency of grinding, helping the company to build a perfect intelligent production line.



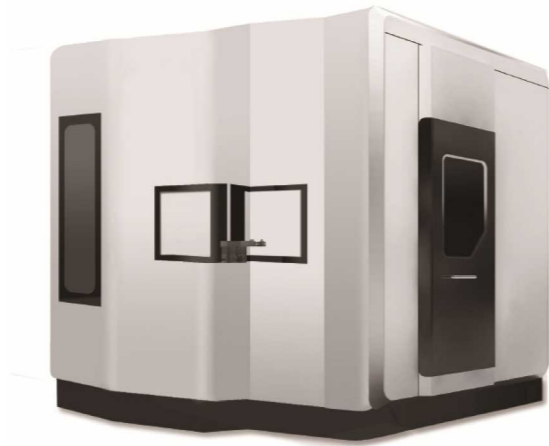
## GJ40E

' Smart  
Grinding  
Machining  
Center



It is suitable for casting of crankshafts, exhaust pipes, turbine housings, steering knuckles, etc.

The maximum height of the part	250mm	[including fixture]
The maximum weight of the machined parts	40Kg	[including fixture]
Maximum turning diameter of workpiece	ø400mm	



## GJ80E

' Smart  
Grinding  
Processing  
Center



It is suitable for small engine block, cylinder head and other castings grinding; successful application of well-known Chinese enterprises.

The maximum height of the part	250mm	[including fixture]
The maximum weight of the machined parts	250Kg	[including fixture]
Maximum turning diameter of workpiece	ø800mm	



## GJ70E

' Smart  
Grinding  
Machining  
Center



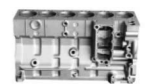
It is suitable for grinding of castings such as exhaust pipe, turbine casing, caliper body, reducer housing, crankshaft and steering knuckle.

The maximum height of the part	400mm	[including fixture]
The maximum weight of the machined parts	100Kg	[including fixture]
Maximum turning diameter of workpiece	ø750mm	



## GJ120E

' Smart  
Grinding  
Processing  
Center



It is suitable for casting of cylinders, cylinder heads, etc.; the world's top 500 companies successfully application.

The maximum height of the part	500mm	[including fixture]
The maximum weight of the machined parts	400Kg	[including fixture]
Maximum turning diameter of workpiece	ø1200mm	



## CS55

### ' Smart Grinding And Cutting Machining Center

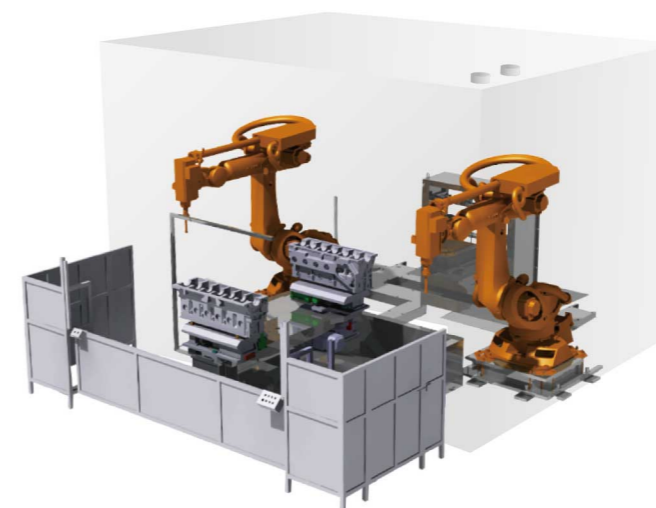


It is suitable for cutting and grinding castings such as exhaust pipe and turbine Housing; it has been successfully applied by famous Chinese large casting enterprises.

The maximum height of the part	400mm	[including fixture]
The maximum weight of the machined parts	60Kg	[including fixture]
Maximum turning diameter of workpiece	ø550mm	

## GDT210

### Smart ' Double Robot Grinding



Maximum diameter of the casting	1200mm	
The maximum weight of the machined parts	400Kg	[including fixture]

It is suitable for grinding of large weight castings such as cylinder block and cylinder head; successfully applied by well-known engine enterprises in China.

## T60

### ' Pass-through Grinding Center

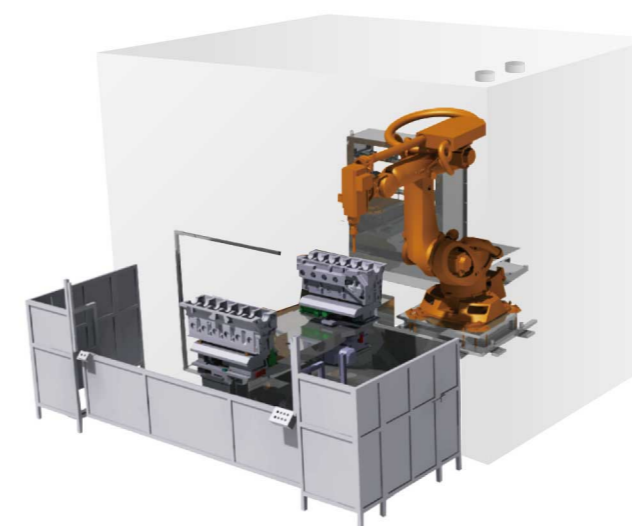


It is suitable for grinding of brake discs, brake drums, etc.; successful application of Chinese well known company.

The maximum height of the part	300mm	[including fixture]
The maximum weight of the machined parts	100Kg	[including fixture]
Maximum turning diameter of workpiece	ø485mm	

## GT210

### Single ' Robot Grinding Cell



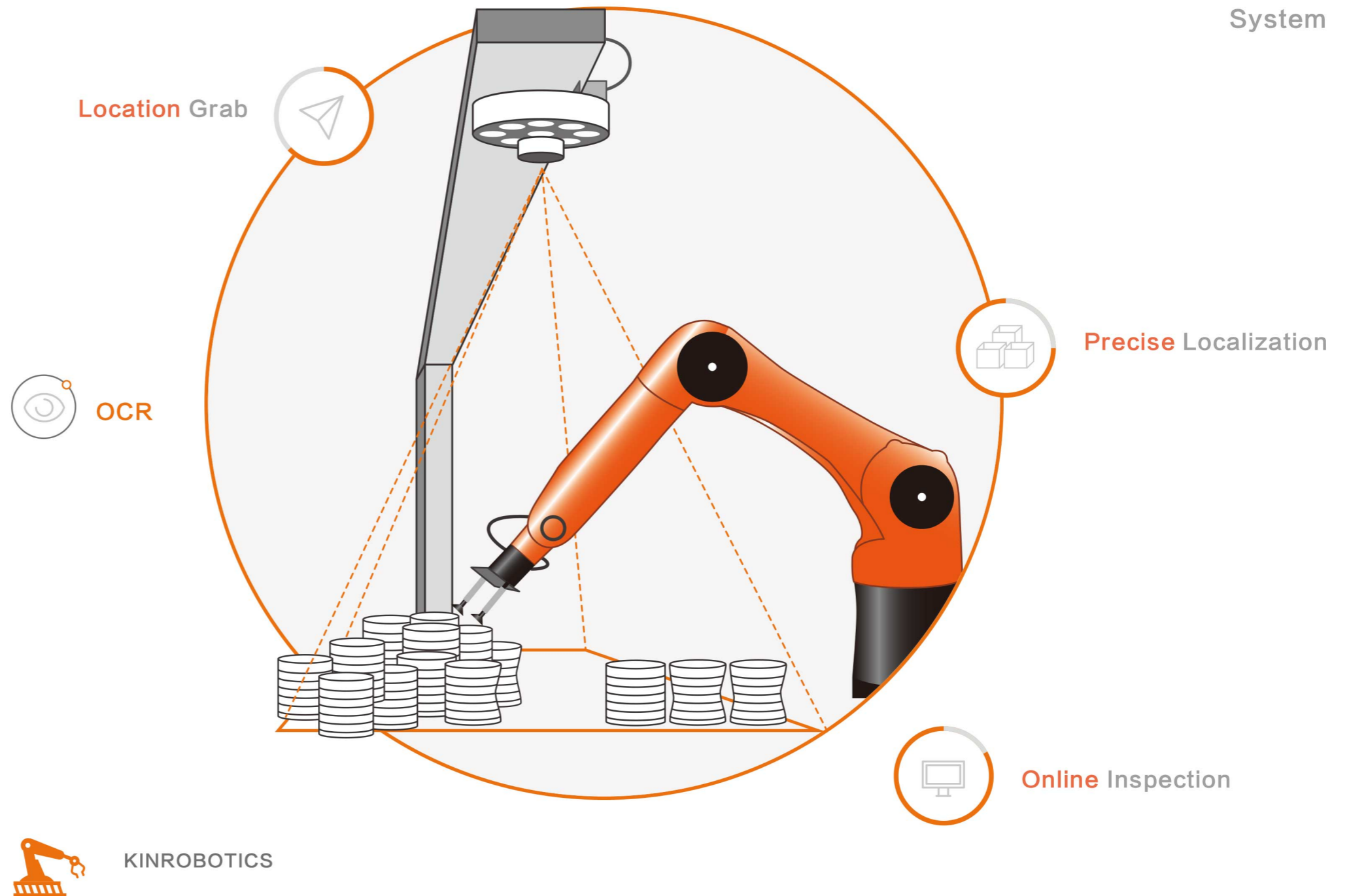
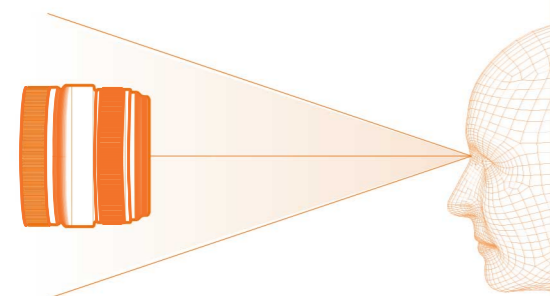
Maximum diameter of the casting	800mm	
The maximum weight of the machined parts	300Kg	[including fixture]

It is suitable for any casting.

**3D**  
Machine  
Vision  
System

# 3D Machine Vision, Starting With The World

The 3D machine vision system jointly developed by Gudwill and European research institutes has the technical level of the world of shoulders, enabling intelligent reform and upgrading of manufacturing lines, helping companies to produce at higher speeds and lower costs, eliminating defective products, thereby enhancing the competitiveness of the enterprise market.



## Bin Picking



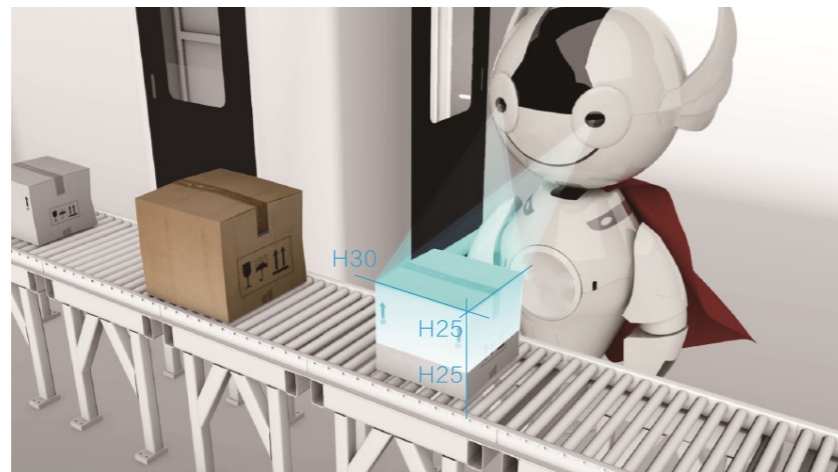
3D machine vision system can identify messy and disorderly targets and objects, accurately obtain the position information of the work piece, and realize precise positioning and fast capture of the robot or robot arm. The system can be widely used in material handling, assembly, racking and lowering of various production lines.



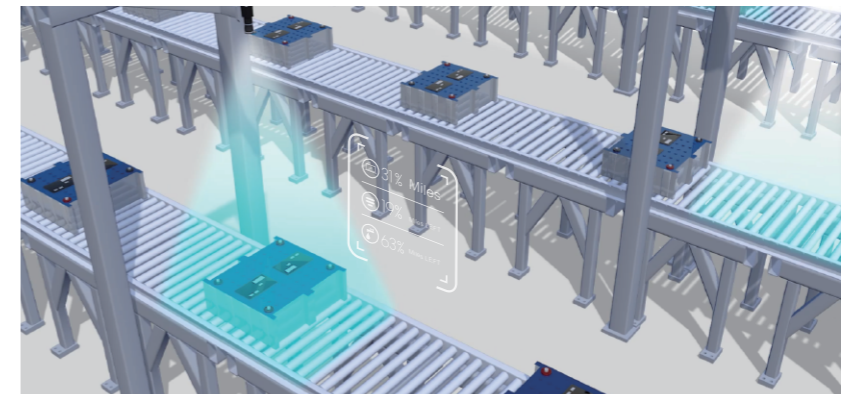
The robot with 3D vision system, uses 3D machine vision to process, analyze and understand the image to identify the targets and objects of different modes, thus guiding the grinding robot to complete the grinding operation of the target object.

## Guide The Robot To Grind

## Movement Capture



The 3D machine vision system uses state-of-the-art 3D vision positioning technology to accurately predict and accurately capture moving targets on the track in highly automated manufacturing processes based on the 3D feature information of the work piece. The whole process does not require the moving targets to stop.



Thanks to the binocular simulation of the human eye design, 3D machine vision can easily perform spatial level detection, that is, accurate measurement of complex product size and defects, not only completely replacing manual tasks, but also operating with more accuracy and efficiency.

## External Detection

# DIAMOND GRINDING TOOLS



GRINDING



CUTTING

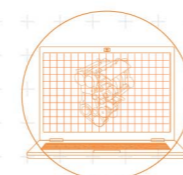
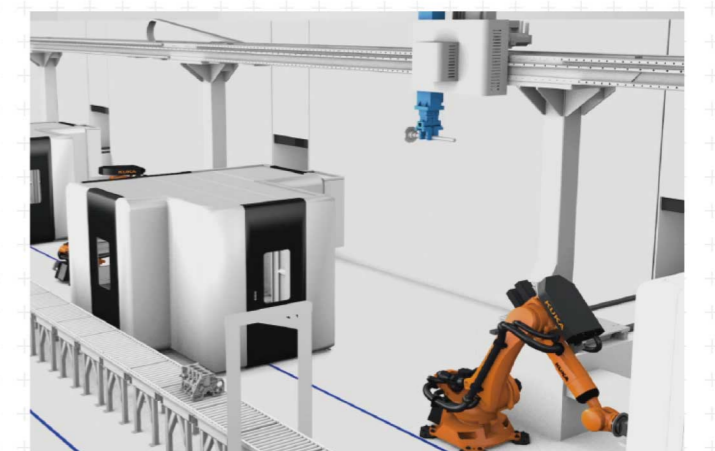


DEBURRING



## Gudwill Flexible Manufacturing System - Intelligent Integration, Efficient Production

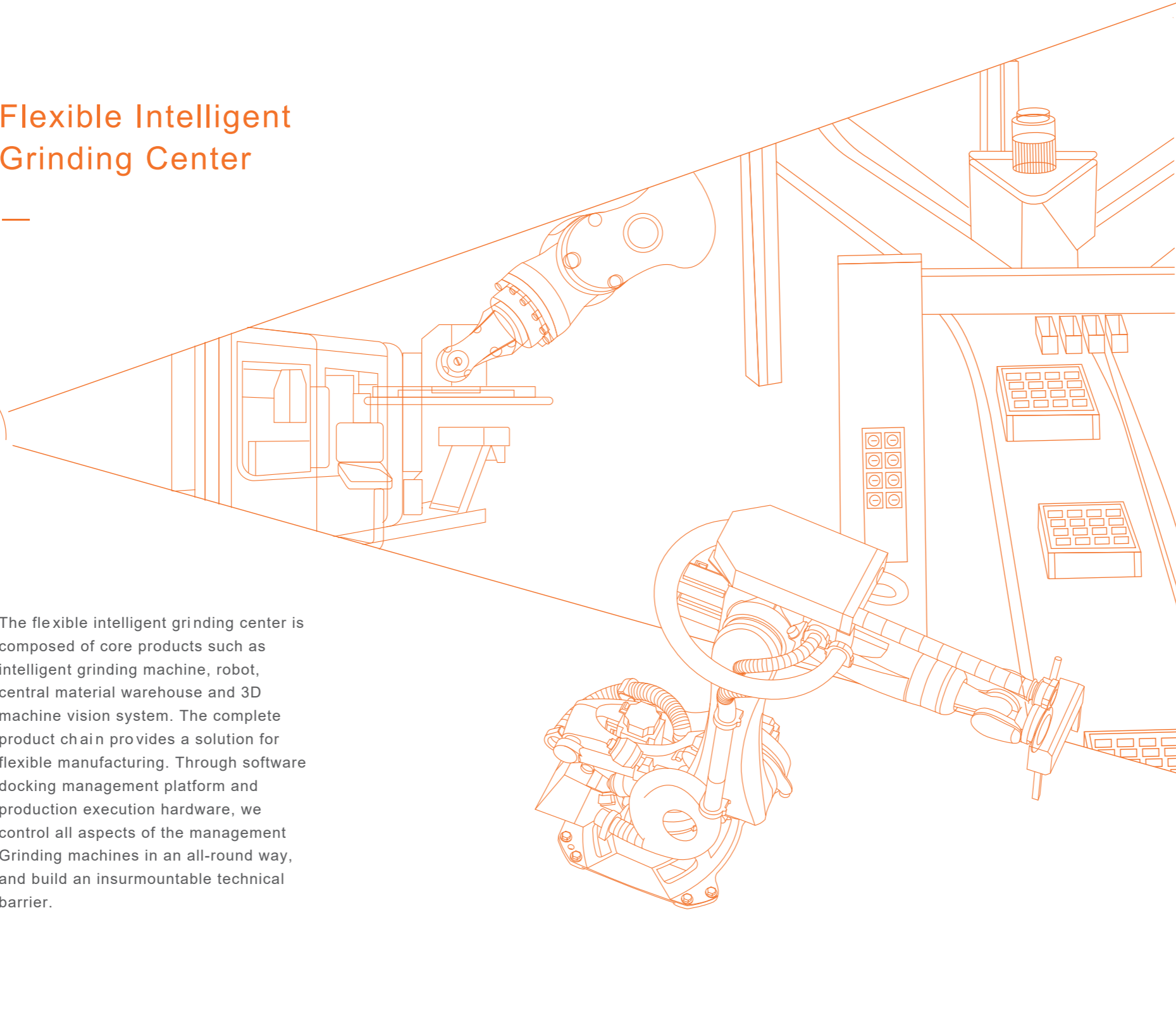
Developed and used independently by Gudwill, the flexible production management system (Flexible Manufacturing System) is integrated by CNC machine tools and other automatic process equipment, supported by the computer information control system and material automatic storage and transportation system for centralized management of plant production lines and equipment. Gudwill intelligently manages the resources, production, warehouse, quality and other modules, and connects with ERP or heterogeneous systems, so that the production links and equipment are closely linked to form an efficient operation system.



## Flexible Intelligent Grinding Center



The flexible intelligent grinding center is composed of core products such as intelligent grinding machine, robot, central material warehouse and 3D machine vision system. The complete product chain provides a solution for flexible manufacturing. Through software docking management platform and production execution hardware, we control all aspects of the management Grinding machines in an all-round way, and build an insurmountable technical barrier.



## Automatic Loading And Unloading

The automatic loading and unloading unit of the machine tool independently developed by Gudwill uses the robot or gantry system to realize the automatic feeding, unloading, transportation and handling, of the machine tool. The process is fully automated, avoiding cumbersome manual operations.

