



SELF-DEVELOPED EQUIPMENT AND SERVICES

LEADING IN THE FIELD OF MEASUREMENT INSTRUMENT
SEGMENTATION

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SERVICE AND SUPPORT

01 SUPPORT SERVICES

- **Customer support**
Contact with experts, special attention, the remote service.
- **The system supports**
Measuring machines to provide service for you and help you get the most benefit from your measuring machine.
- **Project support**
Processes tailored for you, as your one-stop supplier, we will be responsible for planning and for youConfiguration measurement laboratory, measuring system and production equipment.

02 MEASURING SERVICE

- **Contract measurement**
In measuring technology of complex requirements, require deep knowledge and understanding. Our advanced and flexible instrument products can quickly for you, simply complete the measurement task.
- **training**
- **3D Scanning**
- **Industrial CT detection**
The component into using computed tomography (ct) scanning equipmentLine inspection.
- **Error of gear**
- **Optical measurement services**
- **Calibration services**
- **On-site support**

03 TRAINING SERVICES

- **HC training**
Online college for your needs customized software training.
- **HC university**
HC university training and certification exam certificate.

04 EQUIPMENT LEASING AND TESTING

05 EQUIPMENT UPGRADES AND RENOVATION

- **upgrade**
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- **Software upgrade**

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- **COMMON SPARE PARTS FOR MEASUREMENT**
HEAD MEASUREMENT AND CONTROL SYSTEM, CONTROL SYSTEM, SOFTWARE SYSTEM, FIXTURE, SYSTEM, MEASURING MACHINE ENVIRONMENTAL SOLUTIONS, MEASURING MACHINE EFFICIENCY CMM STEWARDS CARE SYSTEM.



SOLUTION

01 VEHICLE DESIGN CENTER SCHEME

Measuring technology for outside, China power plant ramming the future ▶

Design center set up detailed design in the car factory office, clay model area, equipment processing, comprehensive appraisal area, virtual review area partition. Deployment of HC sludge cutting equipment and HC measuring line platform, let the past 1-2 weeks to modify cycle, shorten to today's "less than 24 hours," a sharp rise in the validation of the design efficiency.



02 BODY-IN-WHITE INSPECTION SCHEME

Help improve body arm volume measuring machine optical sensor detection efficiency ▶

Case: white body manufacture production base



Lautomobile manufacturing factory testing quality and efficiency of production line ▶

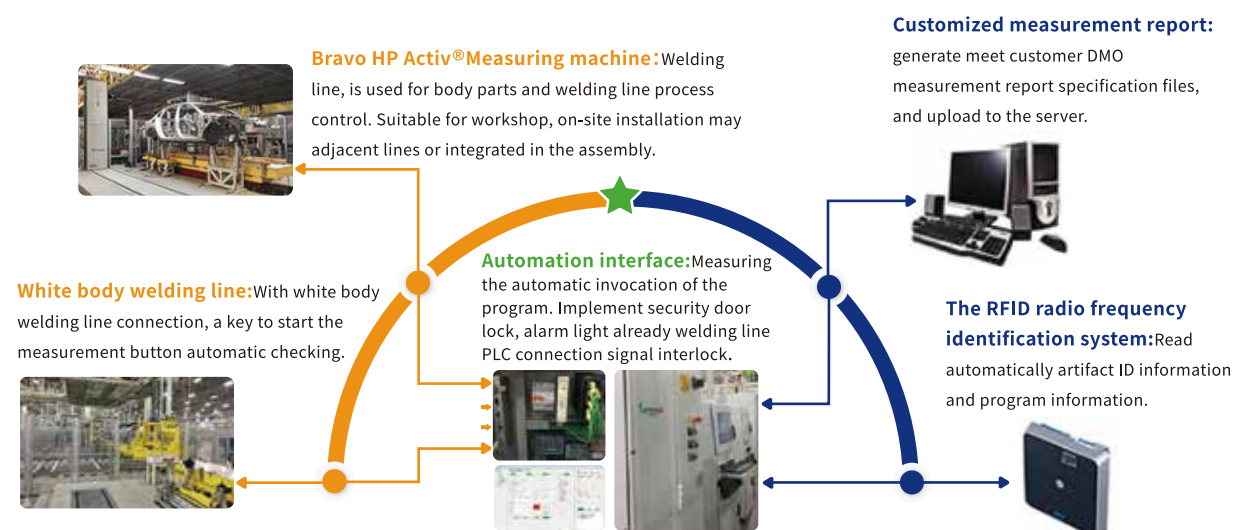
Case: automobile manufacturing factory assembly production line



03 ONLINE DETECTION SCHEME

● The body flexible automation on-line detection scheme ►

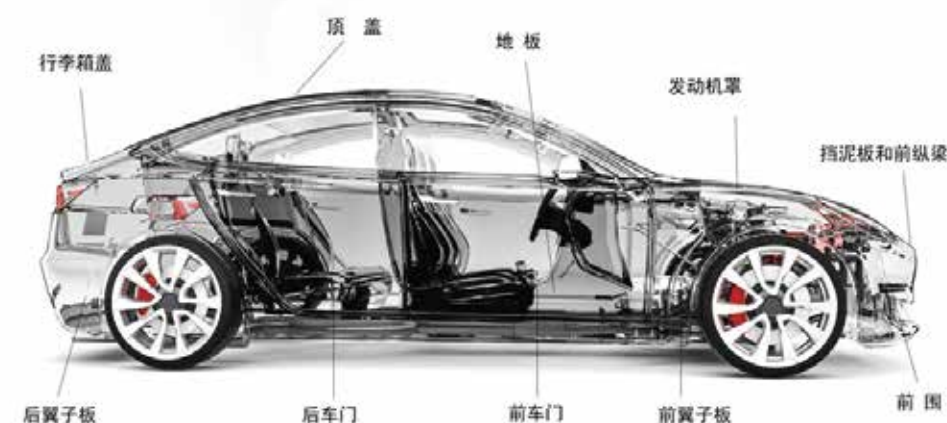
From HC flexible online measurement system, car body meet the automotive industry customers flexible and efficient online measurement requirements, provides a white body vehicle online shop site measurement scheme, connected with car body welding line, automatic measuring and automatic output, the measurement really embedded in production field, for efficient body quality measurement and verification tasks.



● Body sheet metal fixture ►

Car body welding high degree of automation, complex shape, high precision requirements for spare parts, fixture and jig as auto parts, assembly parts, the main mold and welding line indispensable detection tools and fixtures.

HC in response to the needs of the industry, can provide body bracket needs the full range of products.



● HC 100% full inspection - 100% meet the beat ►

HC online solutions

HC automatic detection system in 3 d and 2 d optical measurement technology and robot guidance for several ten years of experience. 3 d online sensors are widely used in car body structure. We according to the requirements of customers design and customize the online measuring system. We by a wide range of skills and knowledge base most flexible.



Success stories: HC OMS surface detection measurement, using modular probe to achieve the objective, fast measurement.

OMS 11 types can be used for the detection of various defects. The system could be used to dent, concave and convex, concave, corrugated, shrinkage, crack and reliable early recognition and classification", it is the production of sheet metal parts and white body perfect quality control instruments. Users, in particular, can benefit from the cycle of high precision and a very short time.



PRODUCT INTRODUCTION

01 THREE COORDINATES

Three coordinate measuring machine, cantilever

1. DHA-M

Product detail this series of products can not only effectively to accomplish complex parts, model of three-dimensional measuring, surveying and mapping, and alternative square box, row needle, height gauge test line. Especially suitable for industrial production field with very large covering parts, the most complex components such as measurement, and the model of automobile motorcycle industry design work.



2. DHA NC cutting machine - MILL sludge model

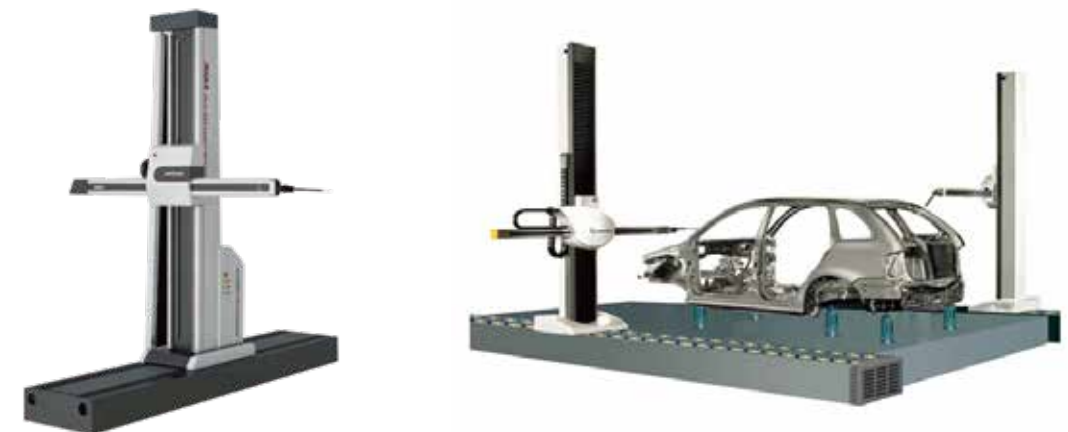
DHA - MILL series cantilever type NC milling machine is designed for machining of large modelling task and design professional studio with milling machine, with fully enclosed cover structure, good antifouling dustproof. DHA - MILL not only focus on three axis NC milling, scanning, measuring functions in an organic whole, more pioneering five-axis milling function.



3.1 DHA-NC

DHA - universal NC cantilever three coordinate measuring machine

Cantilever CMM machine belongs to general type cantilever CMM system, it is divided into two models, the Performance and Avantage Performance index rose in turn. Measuring machine three axis adopt high precision linear guide, 4 block structure. In addition, the X guide rail length can be extended according to customer's requirements, and provide four arm option configuration, for the user to choose from.



3.2 DHA-NC HP ROBOT

DHA - NC HP high-end cantilever three coordinate measuring machine

HP cantilever type three coordinates measuring machine belongs to high-end cantilever three coordinate measuring machine, It into HP Clima BRAVO, BRAVO HPActive and BRAVO HP Ultra three series, measuring machine, in turn, increase accuracy, open platform for the measurement, good measure performance indicators make BRAVO HP in the auto industry to the vehicle and sheet metal size control of important helpers. And Bravo HP can be directly installed in the assembly or the body welding line, and form the site size control is the most important one annulus, the user can choose according to their own needs different series, different configuration meet the testing requirements.



● The CMM bridge machine ►



1. BD - S top with universal series three coordinate measuring machine

BD - S three coordinate measuring machine can offer customized according to your workflow measurement scheme, meet the demand of almost all production, including productivity, precision, multi-function and workshop site ability, etc.



2. BD - E series general-purpose three coordinate measuring machine

BD - E series Explorer series is divided into two Explorer and ClassicEXPLORER Performance. EXPLORER Classic general trigger measurements and, most of the small and medium-sized workpieces trigger measurement; CNC measuring machine is an economic and practical.



● HC - FX - 3 6 absolute arm shaft measuring machine ►

Professional contact measurement equipment, at the same time have an entry-level 3 d scan option - 6 axis measuring machine has such performance, absolute arm it to move and use for design purposes, in each joints using the patented absolute encoder, Can provide 83, 85 and 87 at three levels, 1.2 meters to 4.5 meters seven types of specifications, standards, and PLUS two precision products, can fully meet the different needs of customers.a

3. BD - A reingistic gantry three coordinate measuring machine

BD - A reingistic gantry three coordinate measuring machineAPOLLO gantry three coordinates measuring machine will be divided into two series,Staus and Image



4. BD - F type open shop three coordinate measuring machine

BD - F measuring machine structure is different from other bridge type measuring machine, its size is small (500 x580x500), flexible structure, and adopting the advanced three sides open structure, the maximum guarantee the needs of the up-down material, and integrated display and computer desk at an organic whole, greatly reduces the measuring machine area, low construction cost between the measurement. BD - F can adapt to the bigger temperature range, XT temperature expansion option in the configuration, measuring temperature range can be achieved: (15 to 40 °C).



1. HC - FX - 3 6 absolute arm shaft measuring machine

Professional contact measurement equipment, also ownsEntry-level 3 d scan options available, 83, 85 and 87At three levels, 1.2 meters to 4.5 meters seven types of specifications, standards, and PLUS two precision products.

2. HC - FX - 5 7 shaft absolute measuring machine

Sea, kang 7 shaft absolute arm would trigger type measurement with laser-Combined scanning, and can provide different levels, a variety of specificationsStandards and PLUS two precision products.

02 HC MICRO.VM SERIES IMAGE MEASURING INSTRUMENT

VM series image measuring instrument adopts fixed bridge type structure, the configuration is rich, is the performance stability of complex 3 d measuring instrument. Is widely used in tablet PC, mobile phone parts, precision machining, etc.



03 HIGH-END SCANNER

● HC - HIGH SCAN complex 3 d scanning system ►

As China flagship structured light scanner, HIGH SCAN with HIGH resolution and accuracy of scanning, and the ability to fundamentally improve the scanning experience, new features.



● HC - TRACKER intelligent tracking 3 d scanning system ►

The TRACKER intelligent tracking 3 d scanning system adopts pure blue light technology, has the standard pattern fine pattern.



04 HC-TC GTS ABSOLUTE LASER TRACKER

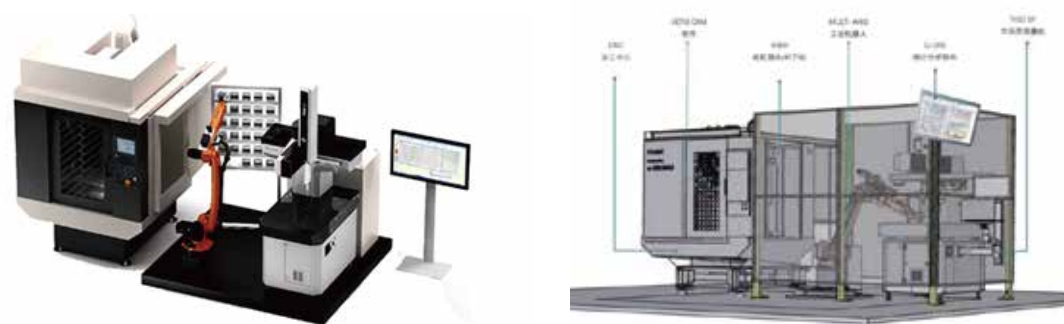
TC GTS 32 tracker is absolutely realWith six degrees of freedom, with a strong dynamic function of the laserOptical measurement system. High precision is easy to use big solution space size measurement.



05 AUTOMATIC DETECTION SYSTEM

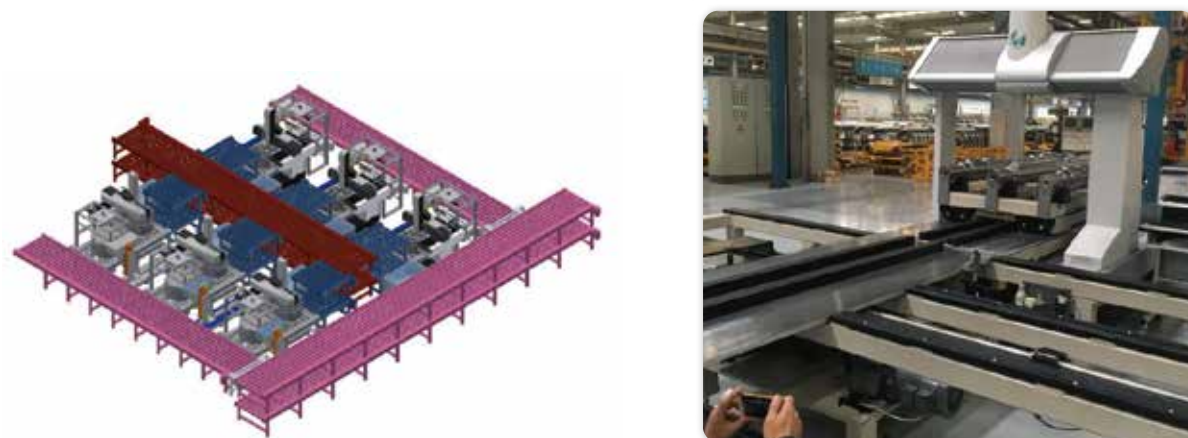
HC electrode automatic detection system

System integration of the three coordinate measuring machine, automatic detection unit system, industrial robots, RFID recognition device, such as zero positioning fixture materials. Intelligent processing workshop test automation solution, change is having a race of intelligent manufacturing solutions, it broke the traditional measurement model, will measure the room moved to the workshop production site, the plan including processing center, industrial robots, three coordinate measuring machine, the machine head and the knife measuring instrument, statistical analysis software, CAM software, and the automatic loading system.



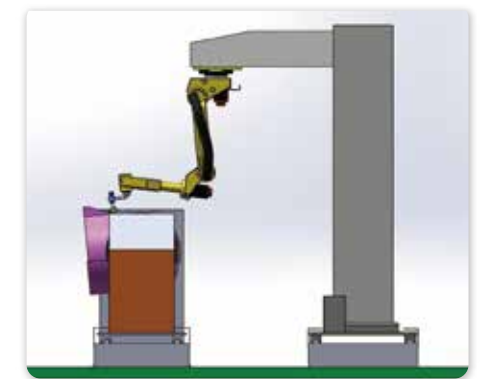
● The major parts of the locomotive running system automatic measurement scheme ►

Walking, locomotive system main components automatically locomotive car axis measurement scheme. Wheel hub online intelligent measurement automation solution.



06 AUTOMATIC WELDING SYSTEM

To provide standard and non-standard automation welding solutions, as well as the existing production line automation renovation project, etc. Load automation mobile module, automatic seam tracking module, automatic welding programming module and so on. Achieving accurate, stable, rapid programmable scheme.



07 DIGITAL MANAGEMENT PLATFORM AND QUALITY MANAGEMENT SYSTEM QMS

● HC - QSMART wisdom quality system ►

HC - Q SMART wisdom quality management platform as an important part of intelligent factory, make sure that from a workshop, a factory, to more efficient and transparent factory and supplier in quality control, break the information island of each system, realize the production data through upstream and downstream.

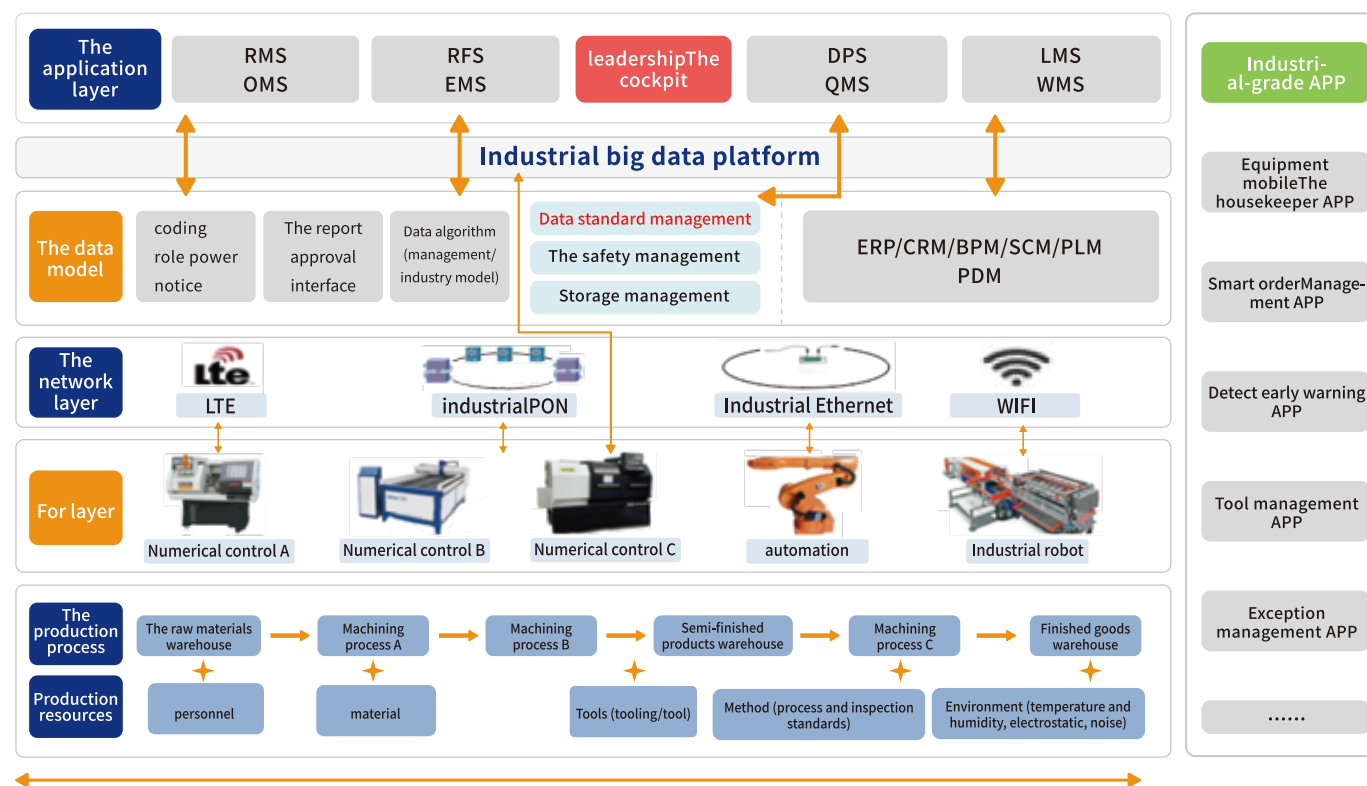
Digital management platform design

Implementation to Order delivery As the core of digital management in an all-round way

The order management Key indicators, Derived from the management Each battalion of the module



Digital factory overall solution



HC - Q SMART Cloud Cloud industrial quality Internet platform, digital, networked, intelligent manufacturing oriented demand, relying on the Internet of things, Cloud services, the application of the big data technology, based on quality, based on the quality of data collection, measurement management, data analysis function, realization of quality information and equipment information such as Internet video and data sharing.

08 HUMAN-MACHINE INTERFACE SYSTEM

- HC 360 d three coordinate control system ►
- Three coordinate control system: Hexagon, Renishaw, Zeiss ►

09 MEASUREMENT SOFTWARE SYSTEM

- METRO X measurement system ►

