ONE-STOP SMART MANUFACTURING SOLUTION PROVIDER



One-stop Smart Manufacturing Solution Provider

ruhlamat Group is a world-leading Onestop Smart Manufacturing Solutions Provider, delivering integrated automation and digitalization solutions to global manufacturing clients.

Founded in Germany in 1991, ruhlamat established its China branch in Suzhou in 1998. Through over two decades of dedicated expansion, ruhlamat has evolved into a global corporate group, comprising ruhlamat Automation Technologies (Suzhou) Co., Ltd. and its subsidiaries and affiliated companies across the Asia Pacific, Europe and North America regions. In 2025, Centurium Capital completed the acquisition of the Group's shareholding through ruhlamat (Singapore), which was set up by Centurium Capital's offshore US dollar fund.

As a global intelligent manufacturing enterprise, ruhlamat Group operates subsidiaries and branches in Mexico, Czech Republic, Romania, India, Malaysia, and multiple Chinese cities including Suzhou, Hefei, Changchun, Changzhou, Tianjin, and Wuhan. The group boasts 9

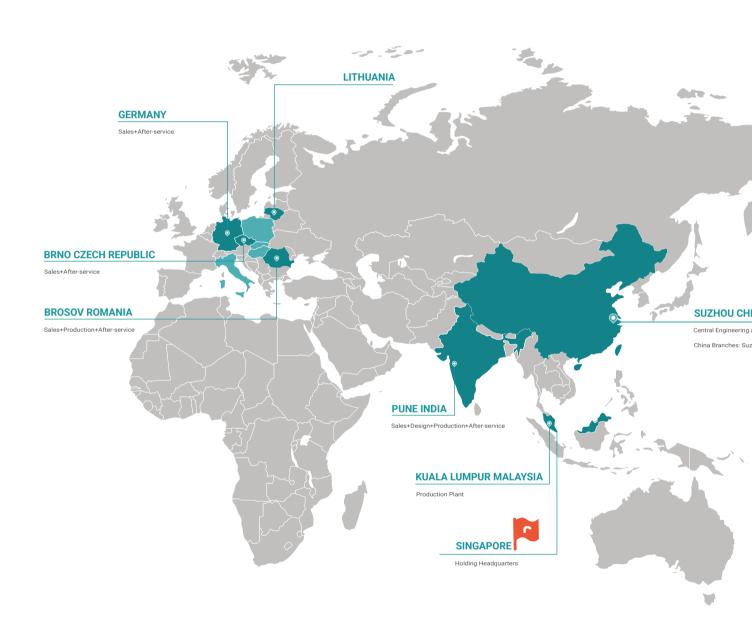
production bases and 2 sales & service centers. Its business spans automation solutions, digital solutions, and standard products (servo presses, conveyor systems, and industrial aluminum profiles). Integrating process R&D, design, assembly, testing, sales, and service, ruhlamat offers comprehensive end-to-end solutions for clients in the field of traditional automotive parts, new energy vehicle parts, hydrogen energy parts, medical, consumer electronics, home appliances, and other industrial sectors.

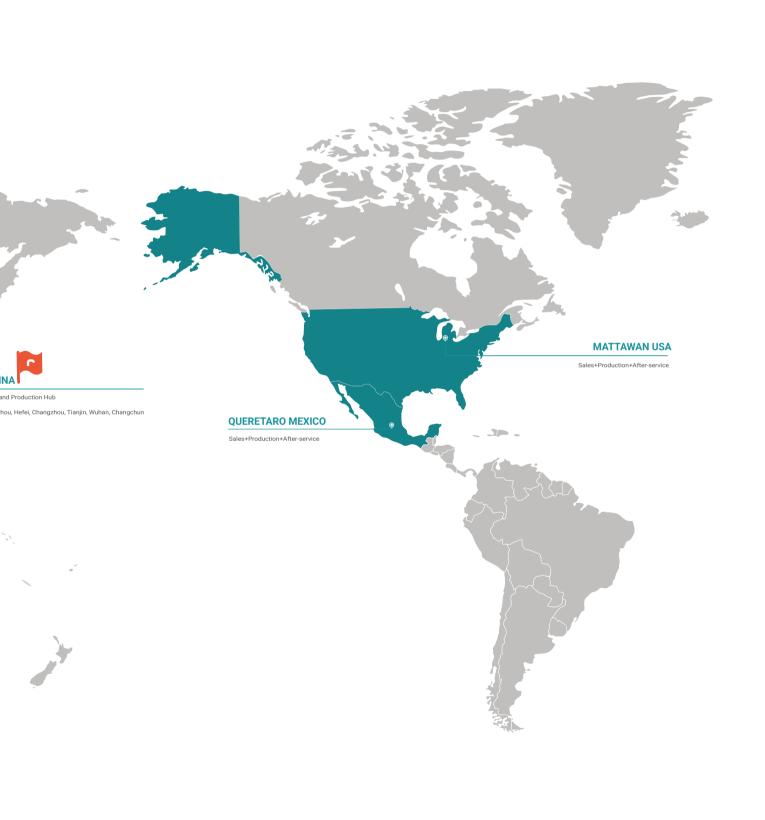
With over 25 years of development, ruhlamat Group integrates the excellent genes of German manufacturing and at the same time fully utilize the efficient advantages of Chinese manufacturing. This combination has earned us high recognition from global leaders in automotive parts and medical devices. Through excellent internal operation management and efficient synergies, a robust global network, and efficient crossborder collaboration, the group delivers high-quality, agile services to empower clients in their intelligent manufacturing transformation, co-creating a smarter and brighter future.





Provide Solutions and Services for Customers Worldwide





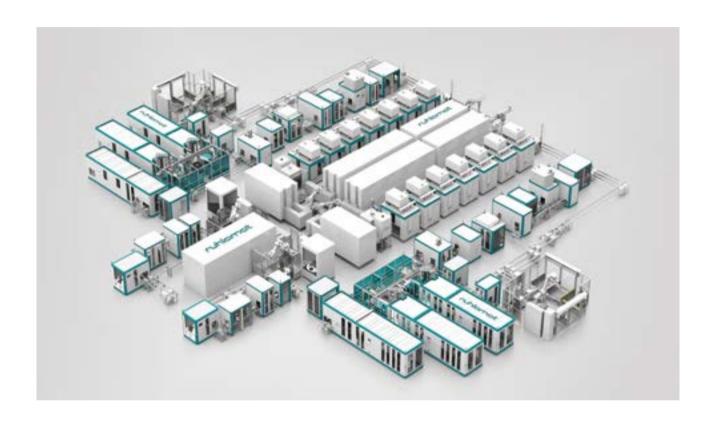
E-mobility

Electronic control



Bar-wound Stator

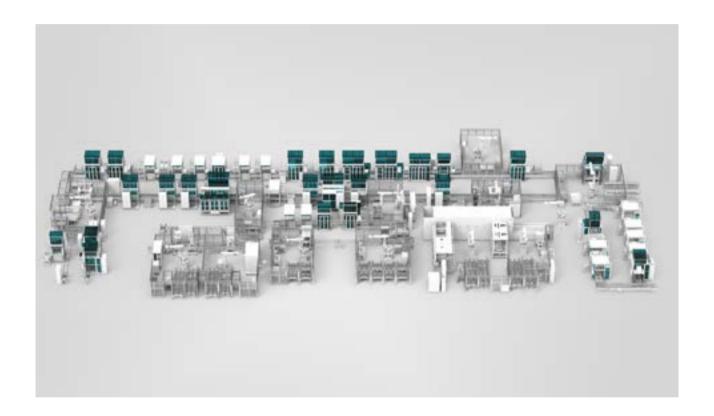
automated mass production solutions



Voltage	48 V	400 V	400 V	350 V	800 V
Cooling type	Liquid cooling				
Pin layers	2	4	5	8	8
Stator slots	72	48	48	48	48
Dimension of copper wire	6.445×1.745mm	4.15×3mm	4.31x2.69m	3.4×1.7mm	4×1.76mm
Qty. of PIN types	6	9	4	16	13
Diameter of lamination stack	144mm	208mm	220mm	226mm	230mm
Height of lamination stack	65mm	120mm	98mm	113mm	111mm

3-in-1 eDrive System

automated assembly & test solutions



KEY TECHNOLOGIES

- Pallet zero-point positioning technology
- Robot & camera automatic picking and recognition technology
- Stator and rotor automatic housing installation technology
- Shaft system automatic assembly & automatic housing integration technology
- Dynamic measurement and shim selection technology
- Anti-lifting and error-proofing technology
- · Digital intelligence management technology

Rotor

automated assembly & test solutions





Bar-wound stator



Rotor



Motor



3-in-1 eDrive



Wheel hub motor



Reducer



BMS



DC-DC



Inverter



OBC



Battery module



Battery pack

Automotive Electronic Control

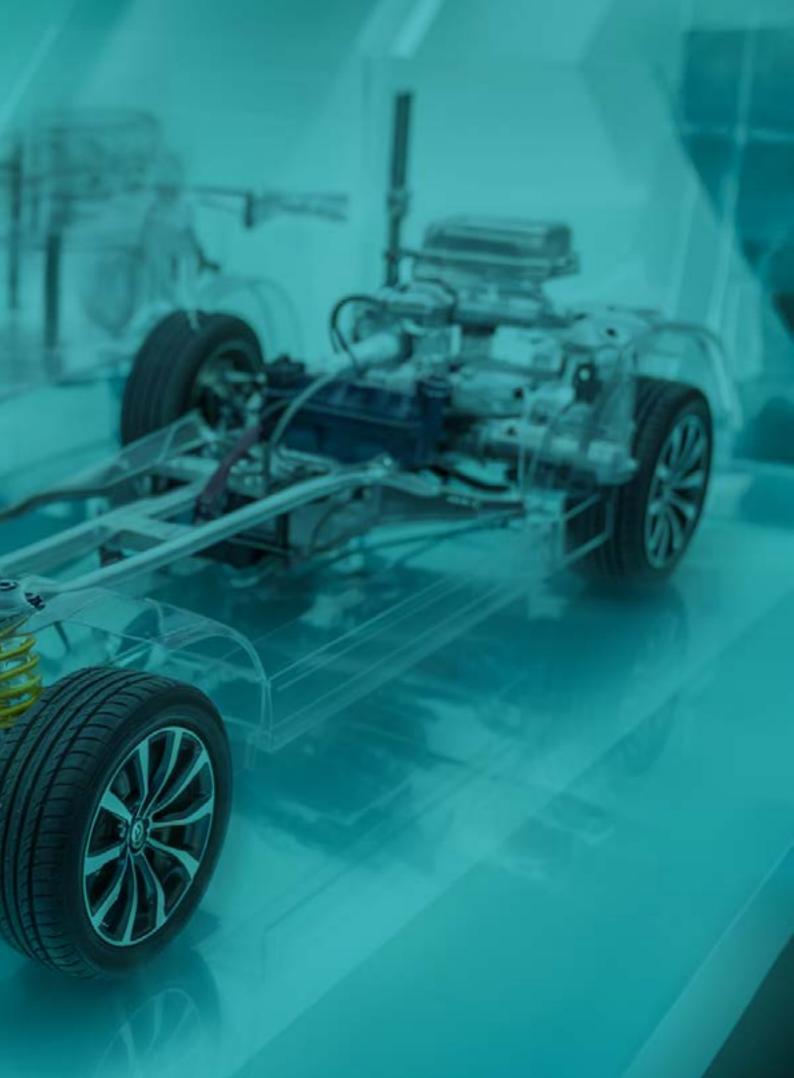
automated assembly & test solutions



- Bar-wound stator automated mass production line
- Rotor assembly & test line
- · Motor assembly & test line
- 3-in-1 eDrive system assembly & test line
- · Wheel hub motor assembly & test line
- · Reducer assembly & test line
- BMS assembly & test line

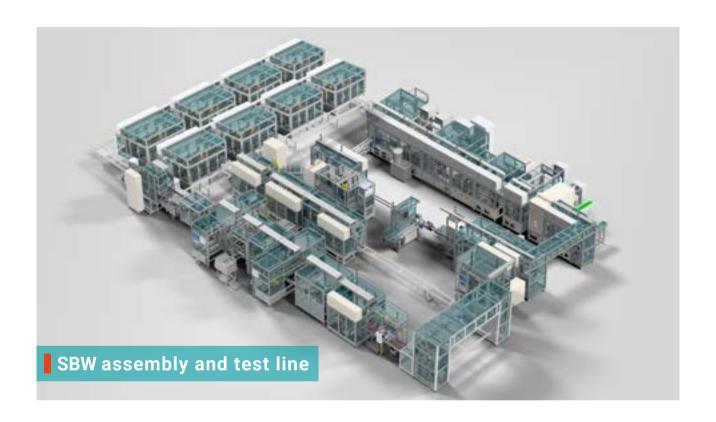
- DC-DC assembly & test line
- Inverter assembly & test line
- OBC assembly & test line
- · Battery module assembly & test line
- Battery pack assembly & test line





Steering System

automated assembly & test solutions





SBW



EPS



EPS-ECU



Counter shaft



Sensor unit



Column



Power pack

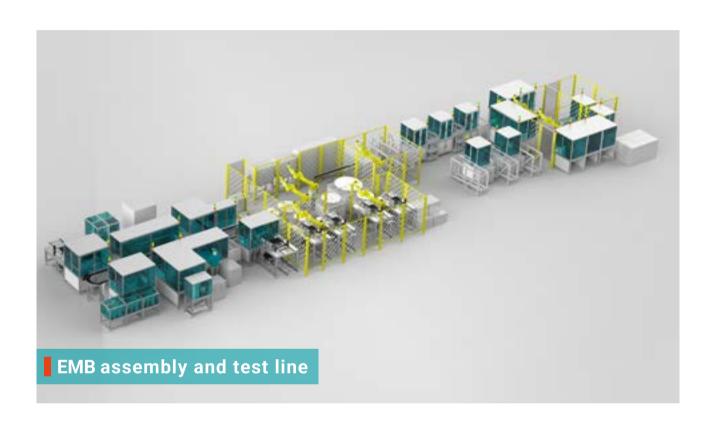


- SBW assembly & test line
- R-EPS assembly & test line
- C-EPS assembly & test line
- P-EPS assembly & test line
- DP-EPS assembly & test line
- Power pack assembly & test line
- Servo motor assembly & test line
- Sensor unit assembly & test line
- Column assembly & test line
- · Half-shaft assembly & test line

- · I-shaft assembly & test line
- BSI assembly & test line
- Gear assembly & test line

Braking System

automated assembly & test solutions





EMB



EHB



IPB



ABS valve



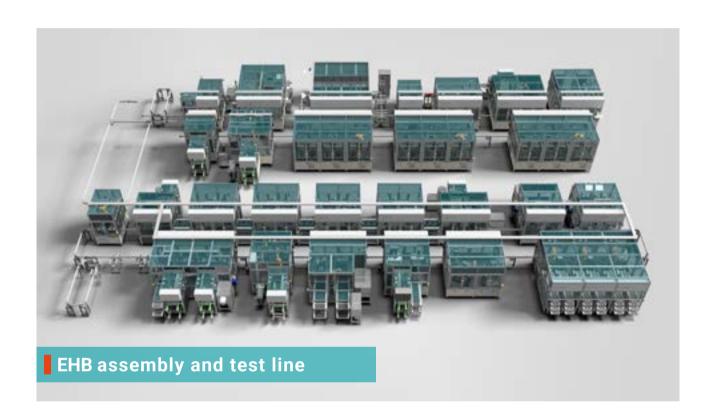
Pedal & brake



Caliper



SCS



- EHB assembly & test line
- EMB assembly & test line
- IPB assembly & test line
- EPB assembly & test line
- ESC assembly & test line

- SCS assembly & test line
- Brakes and pedals assembly & test line
- · ABS valve assembly & test line
- Caliper assembly & test line

Suspension System

automated assembly & test solutions





Air spring damper



Continuous damping control



MR damper



Air spring



Control Arm



Suspension support



- Damper assembly & test line
- Air spring damper assembly & test line
- MR damper assembly & test line
- Air spring assembly & test line

- Continuous damping control assembly & test line
- Suspension support assembly & test line
- · Control arm assembly & test line

Transmission System

automated assembly & test solutions





Differential



Clutch



Actuator



Transmission control (DTC)



PTU



FDU



RDL



Drive shaft system



- FDU assembly & test line
- RDU assembly & test line
- · Clutch assembly & test line
- Transmission assembly & test line
- Driveshaft assembly & test line

- PTU assembly & test line
- · Gearbox assembly & test line
- Differential assembly & test line
- Half-shaft assembly & test line





Safety System

automated assembly & test solutions





Air bag



Inflator



Ignitor



Seat belt



ASSEMBLY LINE SYSTEMS

- Y-sock pre-sewing machine
- · Airbag assembly & test line
- Ignitor automatic assembly & test line
- IMI automatic molding & assembly Line
- · Circular inflator assembly & test line
- Tubular inflator (gunpowder) assembly & test line
- Tubular inflator (gas) assembly & test line
- MGC/MGG assembly & test line

STANDARD EQUIPMENT

- GAS FILL welding machine
- Burst disk assembly equipment
- Tube swage assembly equipment





Electric Components

automated assembly & test solutions





Radar



TAS/TOS



ECU



Light



LED display



DC brushless motor



Turbocharger



Oil pump

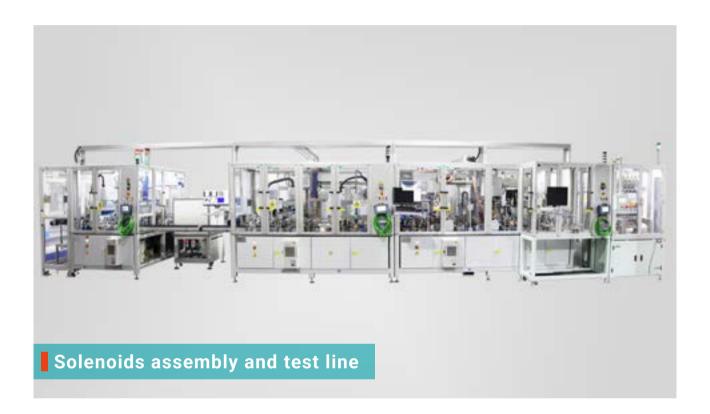


Water pump



ETC

Electric Components



- · Radar assembly & test line
- · Light assembly & test line
- Light module assembly & test line
- · LED display assembly & test line
- · HUD assembly & test line
- Spark plug assembly & test line
- · Motor assembly & test line

- Valve assembly & test line
- Electric Actuator assembly & test line
- Turbo Charger assembly & test line
- Thermostat assembly & test line
- $\bullet \ \mathsf{ETC} \ \mathsf{assembly} \ \& \ \mathsf{test} \ \mathsf{line}$
- Water pump assembly & test line
- Oil pump assembly & test line

- IBCU ECU assembly & test line
- Engine DCU assembly & test line
- Gear pump-ECU assembly & test line
- · BDCU assembly & test line
- TAS/TOS assembly & test line
- Pressure sensor assembly & test line



Decoration



Seat-frame



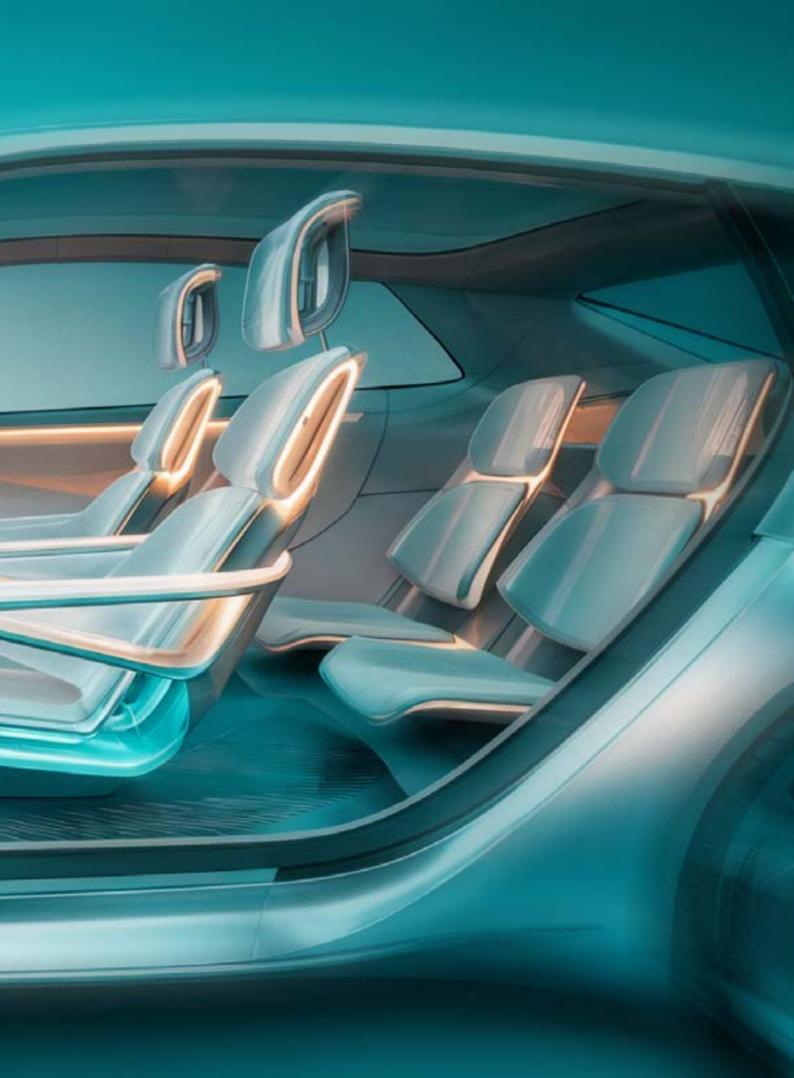
Seat comfort



Seat standard accessories

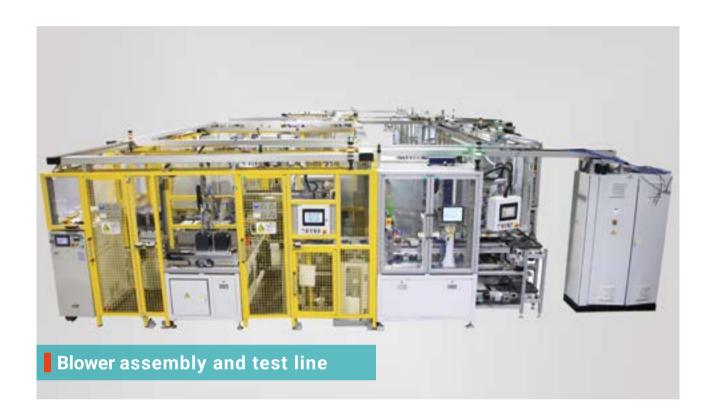


Integrated seat



Seat Comfort

automated assembly & test solutions





Seat-frame



Seat comfort



Seat standard accessories

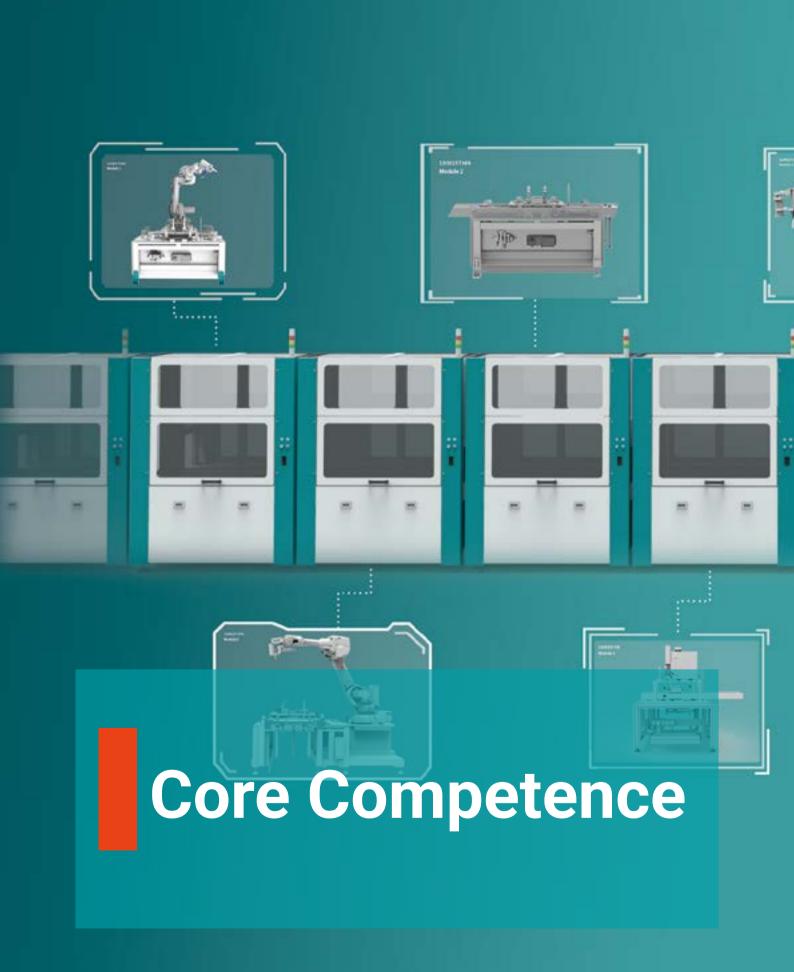


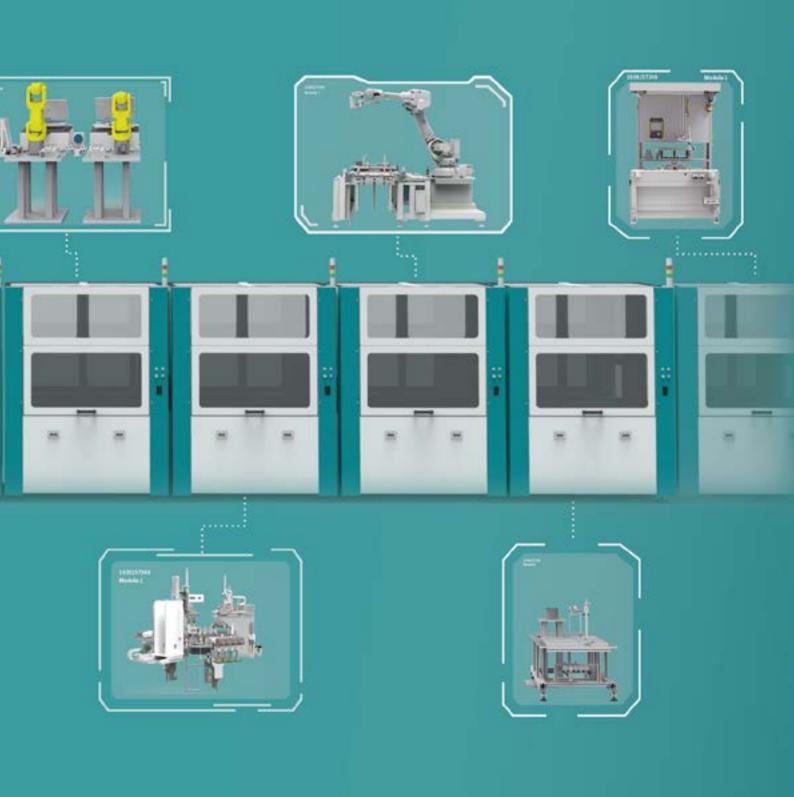
Integrated seat



- Integrated seat assembly & test line
- Seat-frame assembly & test line
- Seat comfort assembly & test line

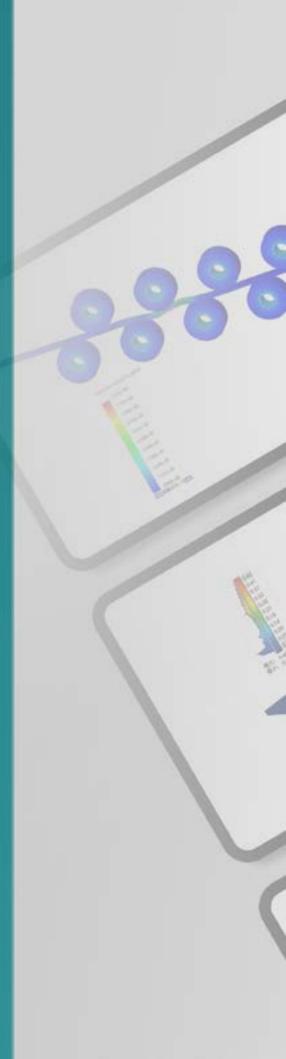
- · Seat standard accessories assembly & test line
- Blower assembly & test line

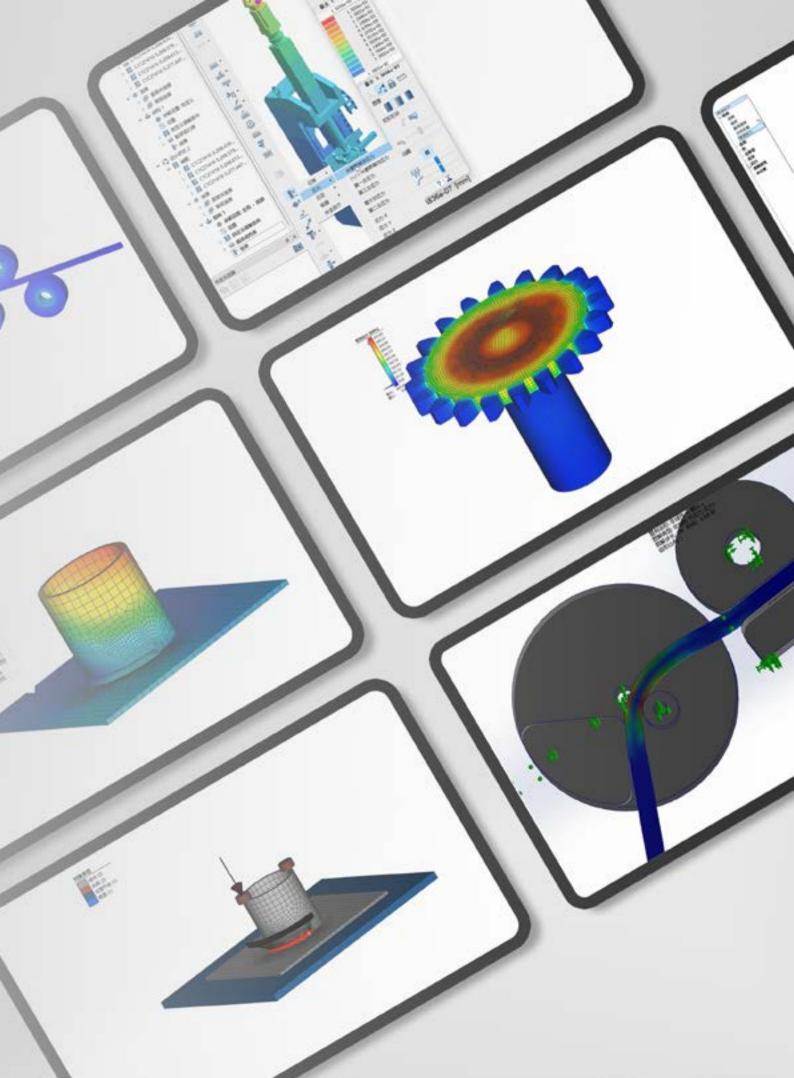




Simulation-driven design

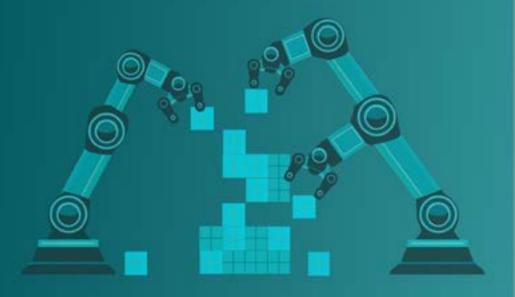
Enhancing mechanical design with simulation software. At ruhlamat, we integrate advanced simulation software into our mechanical design process to ensure precision, efficiency, and reliability. This technology enables us to create detailed virtual prototypes, allowing our engineers to conduct thorough analyses and tests without the need for physical models. By simulating various operating conditions, we identify potential issues early, reducing errors and optimizing design performance. By leveraging simulation software, ruhlamat delivers innovative and high-performing solutions to our clients. Our commitment to continuous improvement ensures that every project is executed with the utmost precision and efficiency.





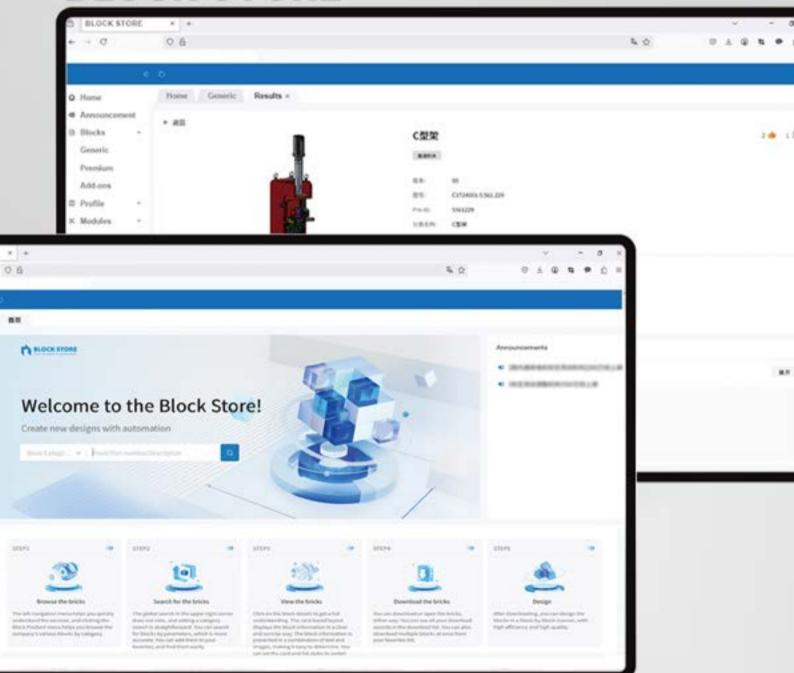
Building-Block Design

Building-block is standardized design module or component, based on the original non-standard design experience, through the induction, refinement and analysis of homogeneous structures, under the guidance of simulation design ideas, with the aid of software quantitative design, to complete the optimal design-low cost and high quality. The building blocks are divided into the building blocks based on the client's products and common building blocks, which can be selected and called in the block store through the index. The complete 80% of the standard process design of complex projects including hardware and software. Building-block design is a process of project realization, which brings value benefits to customers, such as high quality, future equipment transformability, and faster delivery time.

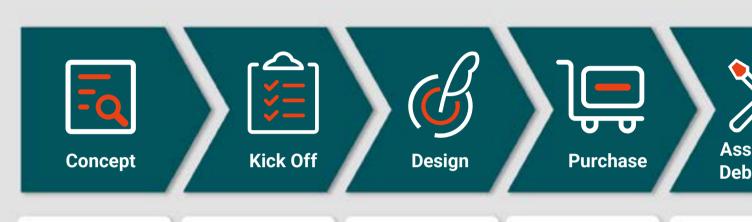




BLOCK STORE



Project Management



- Customer spec and special requirements evaluation, such as cycle time, Cgk, Cmk, GR&R, Cpk
- Concept review and approval
- Spec review
- Contract review
- Budget review
- •Time schedule review
- CT and process analysis
- DFMEA
- Design review
- Supplier selection and management
- Incoming inspection
- PFMEA and
- Assembly pr inspection a highlight
- Key paramet calibration as verification, seeds
 Cgk, Cmk an









Shipping



FAT



Warranty

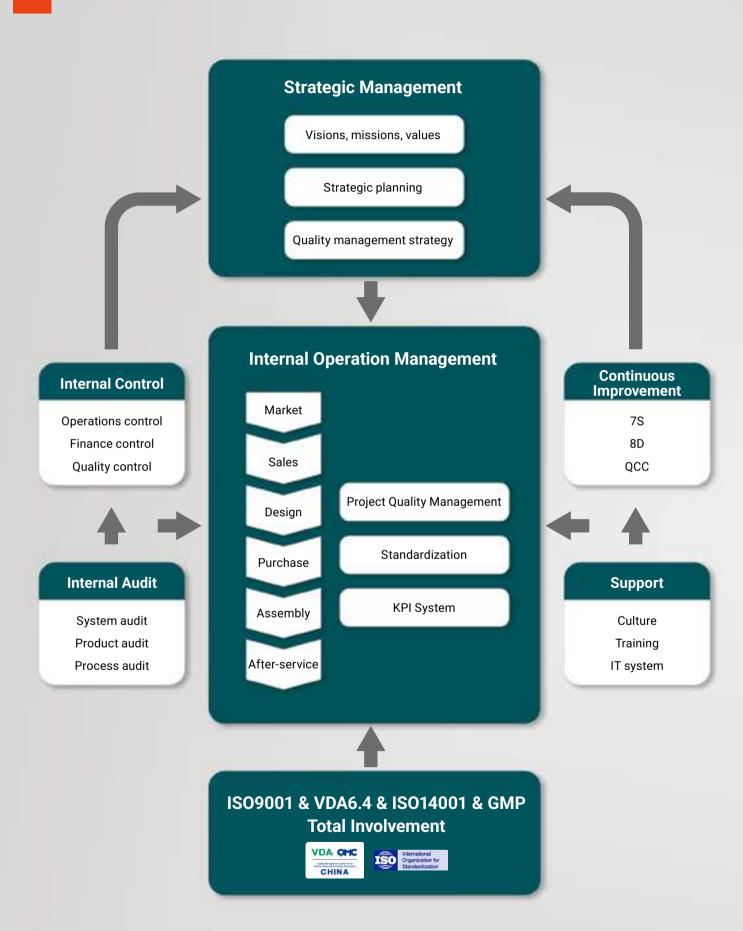
control plan

ocess nd problem

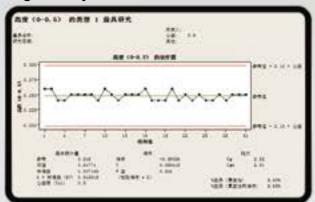
er nd such as d GR&R.

- Internal PAT
- Support customer PAT
- Machine out-going inspection
- FAT on site
- · Lessons-learned
- External failure cost analysis and reporting
- Customer complaint collection and solving

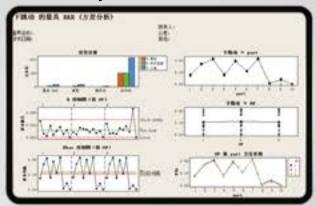
Total Quality Management



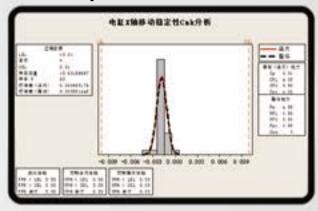
Cgk Analysis



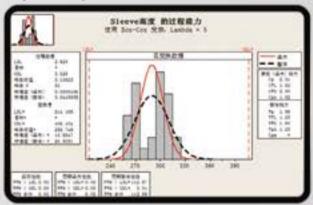
GR&R Analysis



Cmk Analysis



Cpk Analysis



Measuring Tools









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Holding HQ

ruhlamat (China)

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