Manfred |

Manfred Automation



AGENDA

- > General Info.
 - Location
 - Strength
 - About MA
- Business
 - Casting
 - Other BUs

Location

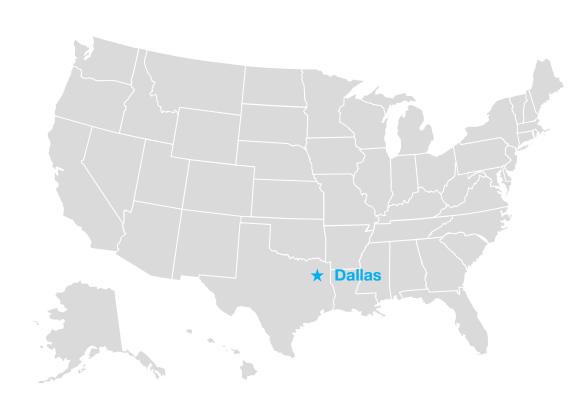
Tianjin





Mainland China

12,000 m² Workshop (to be expanded) Kunshan, Jiangsu 2,000 m² Workshop



United States

After-sales service covers **United States**, **Europe**, and Southeast Asia.

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Location





Expansion of Our Kunshan

Manufacturing Plant



Project Location





Business | Strengths













Strong R&D capability, cooperate with customers to explore new technology.

Rich experience in executing overseas projects.

Intelligent application, reduce manpower.

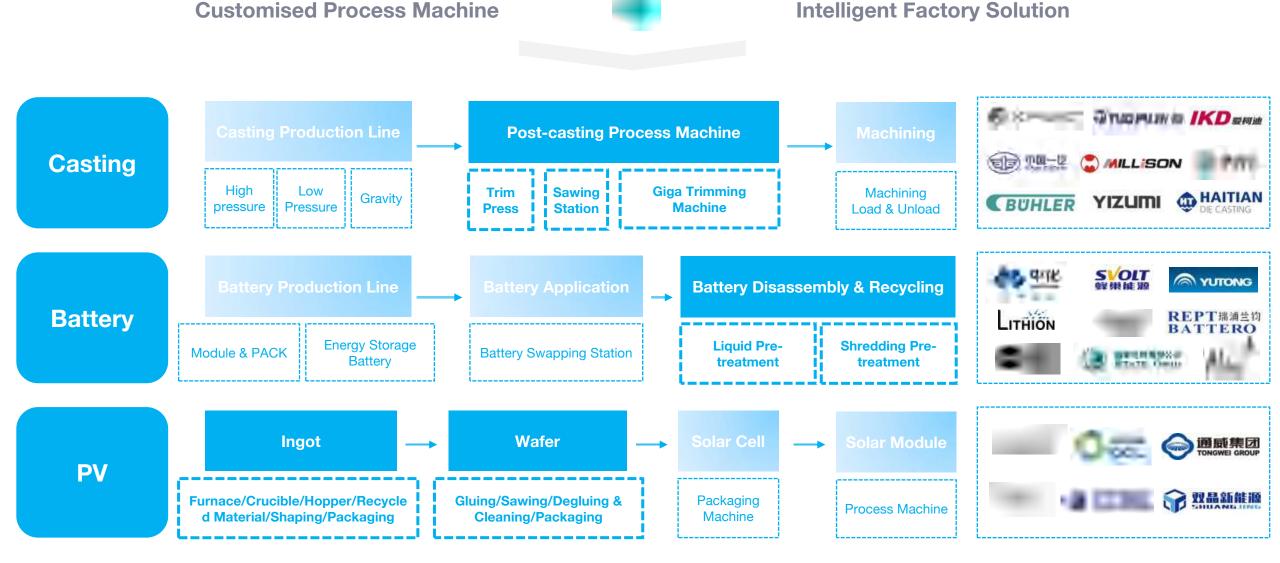
Self-developed core software helps achieve extreme safety.

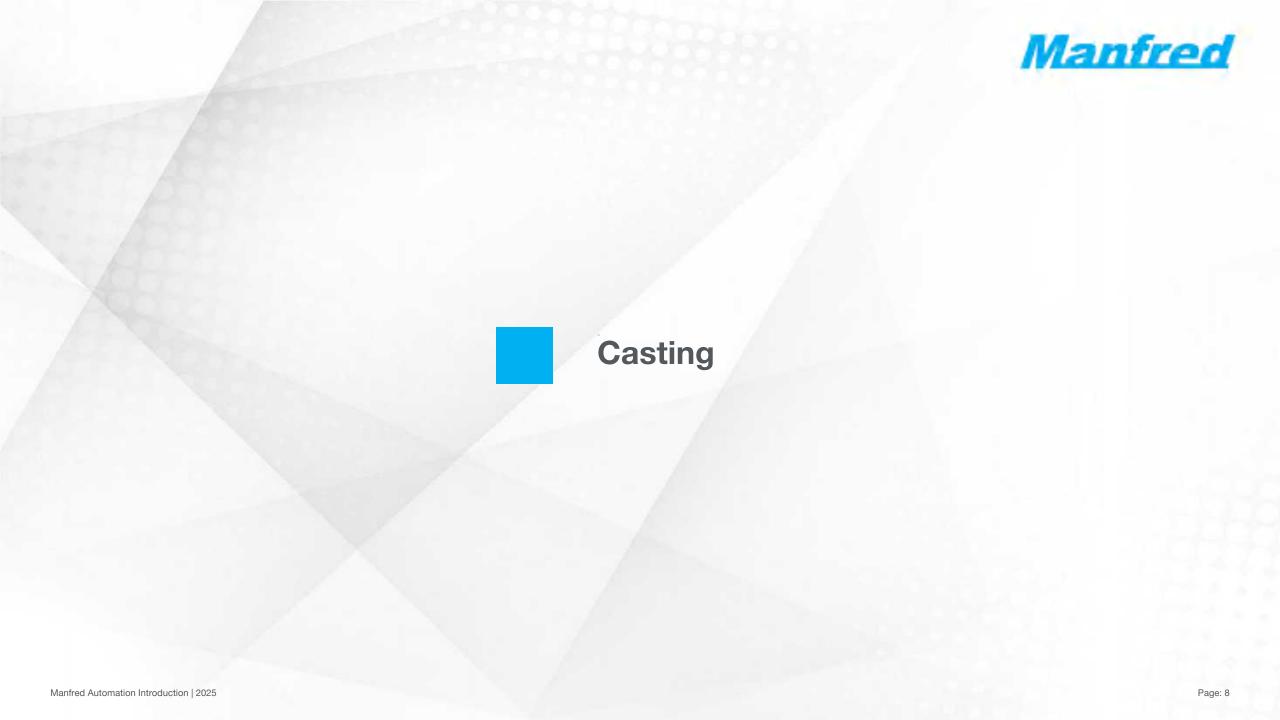
Quality and safety have been proven at customers' site.

Exclusive project team provides life-cycle support and service.

About M.A.







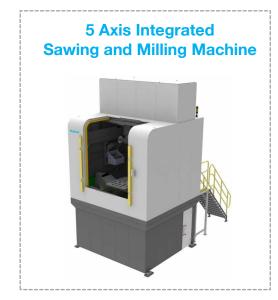


















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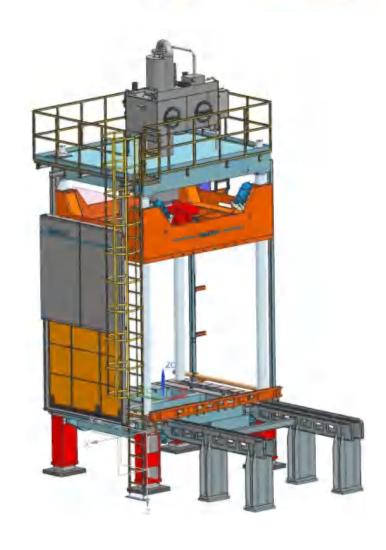
Large tonnage trimming press



200T, 300T with Tilting Function



200T, 300T with Sliding Function



200T, 300T with Die Moving Device

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QB Series Standard Trim Press

- Strong mechanical structure with guide column with stable and reliable performance and convenient maintenance.
- Large daylight and stroke, specially designed for robot automatic picking and placing parts.
- Equipped with mold change support and mold lifting guide rail,
 the mold can be quickly replaced by forklift.
- The maintenance platform for convenient maintenance and repair.



QB10-300 Trim Press - Three Columns





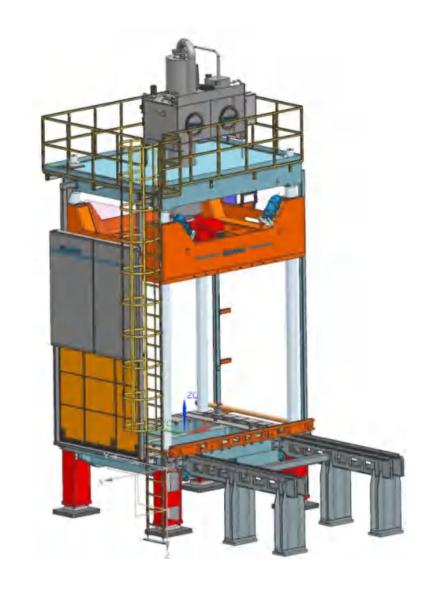
QB22-2000 Standard Trim Press

QB13-650 Trim Press - Four Columns



Standard Large Tonnage Trim Press

- Equipped with a die-pulling mechanism, which is used with a die transfer arm to facilitate the large die installation.
- Specially designed for Giga- castings with a standard table size of
 2.6 m. We can also provide larger customised table according to clients needs.
- The design of large blanking hole and configuration of movable bridge support is able to facilitate the trimming actions of different trim tools.

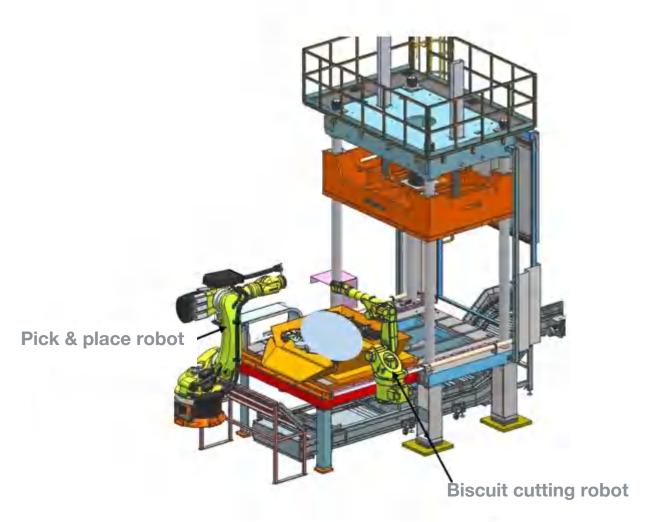


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Sliding Trim press

- The lower table is equipped with a sliding function, which is convenient for the robot to pick-and-place parts, and increases the accessibility of the robot.
- It is convenient for the installation of large trimming die.
- Dual-station design, one station is used for trimming and the other station can be used with other equipment to perform grinding, drilling, plasma cutting and other post-casting cleaning processes.



QB26-3000Y Sliding Trim Press



Tilting Trim Press

- The lower platen is equipped with tilting function, specially designed for trimming large structural parts. It effectively resolves issues of scrap jamming during trimming die blanking.
- Lower platen is able to slide out to increase the robot accessibility.
- The die changing process can be quickly completed by overhead crane.
- The machine adopts a central lubrication system, the lubrication parameters can be set freely in the HMI panel. Grease low level alarm function is provided.







QB22-2000 Tilting Trim Press

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Key Features of Manfred Trim Press

- More efficient and energy saving
 Compared with traditional power frequency motor and load sensitive variable pump, Manfred Trim press adopts servo motor pump set, which is more efficient and energy saving.
- Durable, long Life span
 The stainless steel hydraulic oil tank is fully applicable to mineral hydraulic oil and water glycol. Compared with ordinary carbon steel oil tank, it can greatly reduce the pollution of the hydraulic system due to tank corrosion.
- Functional interface
 With multiple sets of side slides core pulling and air blowing interfaces reserved,
 the system is also equipped with interfaces for mold ID detection, workpiece
 presence and position detection. Additionally, external tool interfaces such as
 hydraulic shears can be extended.
- High level of programmability
 The operator can set the trimming action and sequence on HMI and save these set trimming programs to the corresponding formula, which can be recalled later.



Software Copyright

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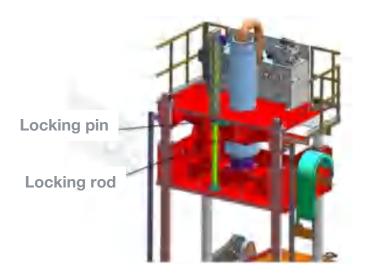
Key Features of Manfred Trim Press

High safety performance

The upper formwork is installed with an anti-drop lock device to prevent accidental dropping.

The lower end of the safety door with balance weight is equipped with a safety contact to prevent accidental pinching.

The hydraulic system adopts servo hydraulic system in which the oil pressure can be double protected by program and relief valve.



Anti-drop device

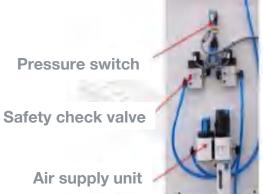


Liftable door

Protective shield

Safety rim

Safety door



Pressure Detection



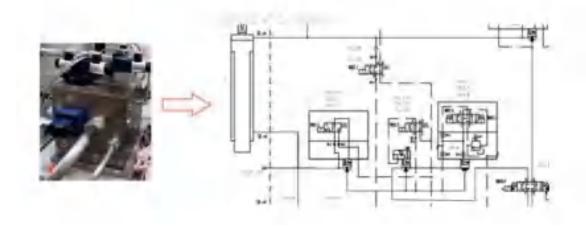
Key Features of Manfred Trim Press

High safety performance

The stop locking of the main oil cylinder is controlled by the locking valve, with accurate positioning to prevent falling.

The safety signal adopts a double circuit design which is connected to the safety relay, and to each action designed for safety interlock.

The system is equipped with emergency stop button.



Safety control of the main cylinder



Safety interlock control



Emergency stop



Special Cleaning Machine for Giga-castings overflow removal

Remove overflow of Giga-castings by knives



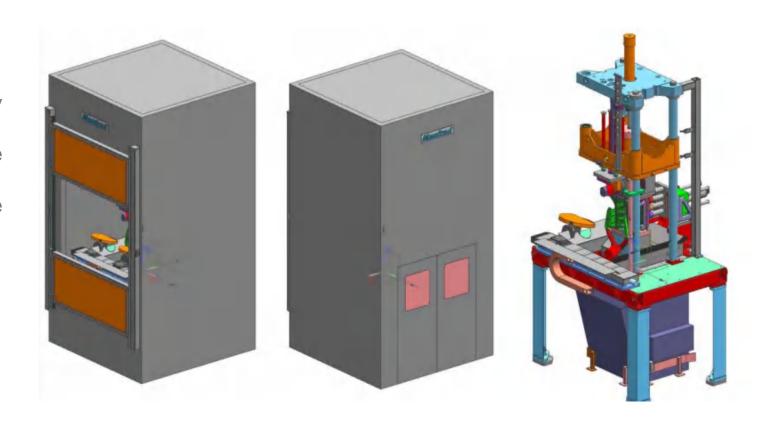


Special Cleaning Machine for Overflow Removal



Sawing Station

- Hydraulic sawing station vertical sawing + punching Cylinder liners skin.
- It is a vertical sawing machine specially designed for gearbox housing or engine block, cutting in-gate and punching the Cylinder liners skin.
- The main action is pressing product, sawing ingate, punching skin.



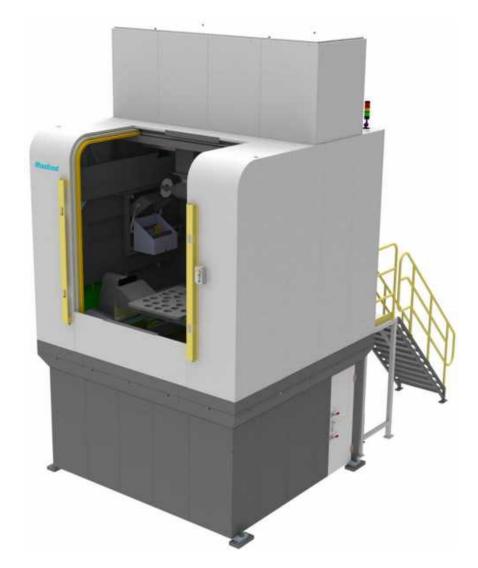
Special Integrated Sawing and Trimming Machine

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Servo sawing and milling integrated machine

- Tool changing: automatically replace milling cutter or saw blade according to processing requirements
- Multi-axis: meet the sawing requirements of different castings in multiple positions;
- Expandable offline generation of machining path trajectories, enhancing programming efficiency
- Convenient programming: modify,increase or decrease the position points and store the path program by manual demonstration
- Precise positioning: equipped with the teaching pendant for manual close and precise position adjustment;
- Parameters: rotation speed, feed speed etc., can be easily set in HMI;
- Long life-span: equipped with micro-lubrication and centralized lubrication systems to extend the life-span





Sawing Cell

- This project is a sawing cell used for casting sawing and rough milling.
- The main equipment includes a robot, a set of processing tools (including a saw and a milling station), two feeding slides, a two axis servo saw, a waste collection and transportation conveyor, a sound insulation housing and four sets of product fixtures.
- Sawing and cleaning of various castings.



Sawing Cell



Sawing Station On-site Photos









Trim Press On-site Photos





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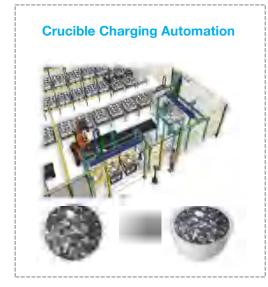
Trim Press On-site Photos

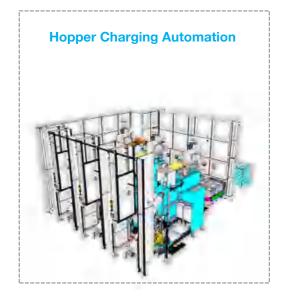


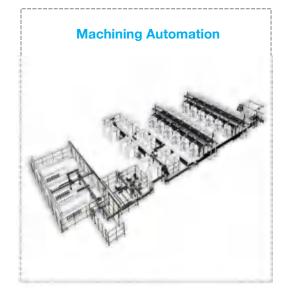


Business | PV Automation















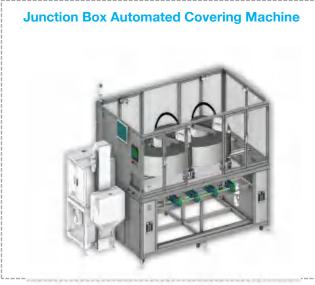


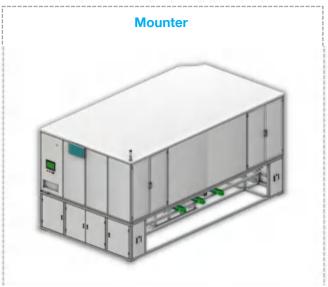


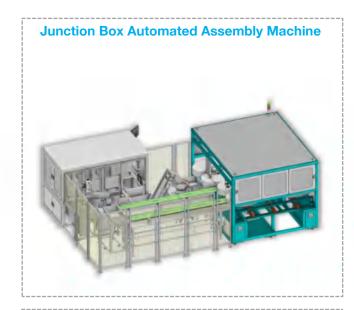
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Business | PV Process Machine















Business | Battery Automation

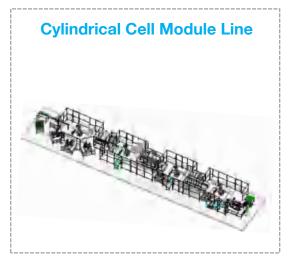


Battery Assembly Line (BEES & Power Battery)



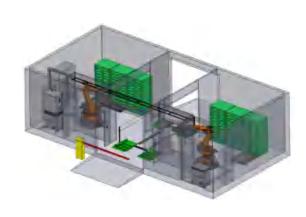




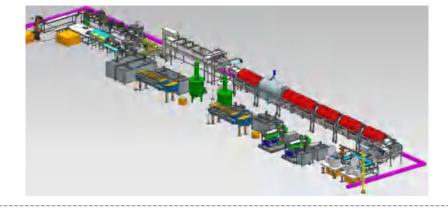








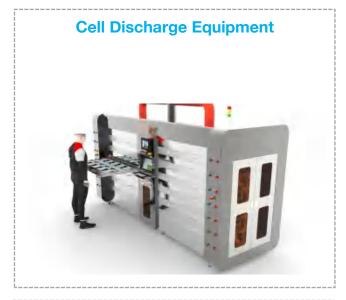




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Business | Battery Process Machine

















THANK YOU!

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