DIMS-V1

Automatic Orthodontic Steel Wire Bending Machine

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RITON ADDITIVE TECHNOLOGY CO., LTD

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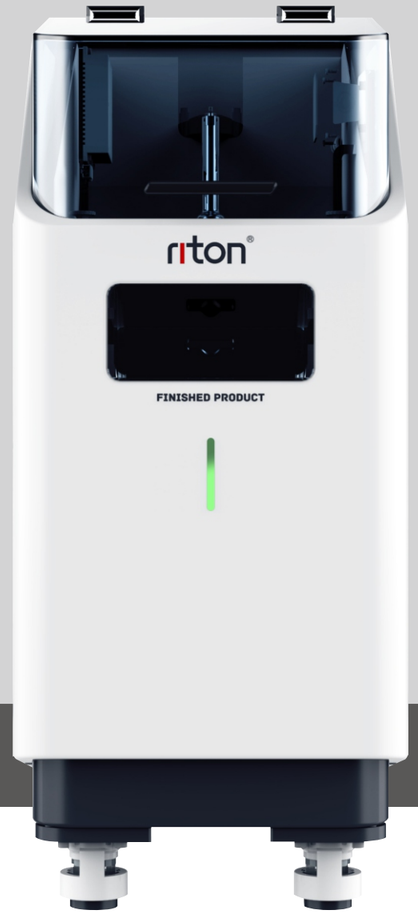

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A DIMS-V1 = 10 experienced technicians. Easy training allows for quick operation, saving costs, and increasing efficiency. It is an excellent investment to choose Riton Automatic Orthodontic Steel Wire Bending Machine.

DIMS-V1	vs	Manual Bending
Completion of regular workpiece bending <60S		More than 10 minutes
One-time molding		Requires tedious adjustments
High precision		Limited by technicians' experience

Triple assurance for precise bending of consumables in multiple sizes

Riton's wire bending machine supports various specifications of orthodontic stainless steel wire ranging from 0.5mm to 1.2mm, ensuring easy and convenient switching between different consumable sizes.

Multi-Fixture Adaptation

Specialized fixtures and straighteners can be optionally equipped for wires of different diameters to ensure bending accuracy without the need for manual parameter adjustments.

Quick Changeover

The wire straightening module adopts a quick plug-and-play structure, enabling fast changeovers with a single-person operation taking approximately 2 minutes.

Precise Positioning

Bending fixtures utilize high-precision flexible locators, eliminating the need for manual secondary positioning. The single-person changeover operation time is approximately 3 minutes.

Automatic Calibration

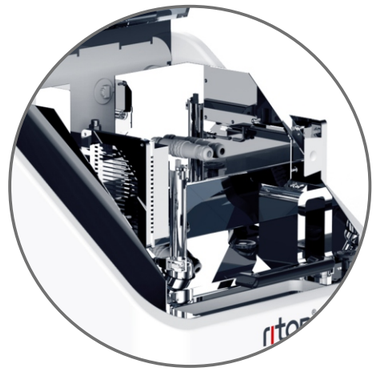
Equipped with a high-precision camera, the equipment can achieve one-key automatic calibration of the wire. Calibration parameters can be saved for future use, with a calibration time of approximately 30 minutes.

Software Direct Connection

Platform-designed data is directly transmitted to the equipment, allowing the software to operate the equipment directly without additional manual operation.

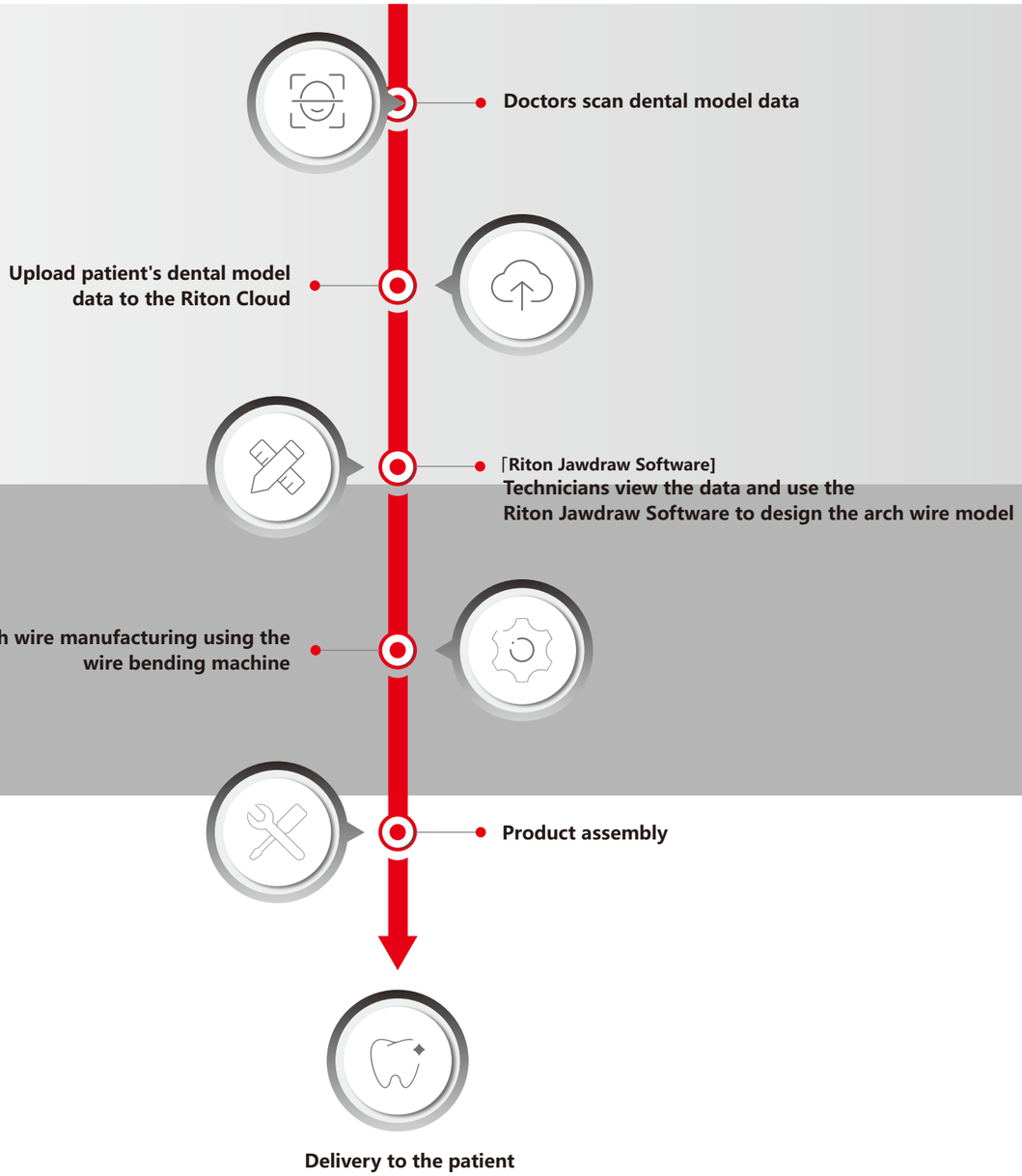
Multi-Device Interconnection

The platform and equipment can be interconnected in a many-to-many fashion, facilitating data sharing across multiple platforms to adapt to varying production scale requirements.

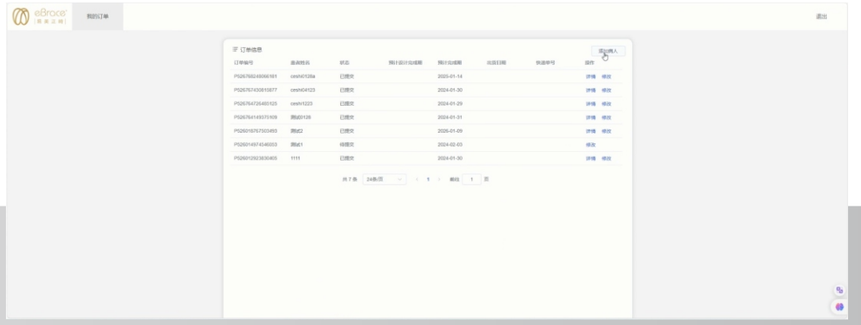


Comprehensive solution for the entire process of orthodontic appliances

Riton Cloud platform and Riton Jawdraw Software have jointly broken through traditional barriers, achieving seamless collaboration from the doctor's end to the technician's end, and finally delivering to the patient. The digital closed loop enables Riton to provide comprehensive support and empowerment for dental laboratories.



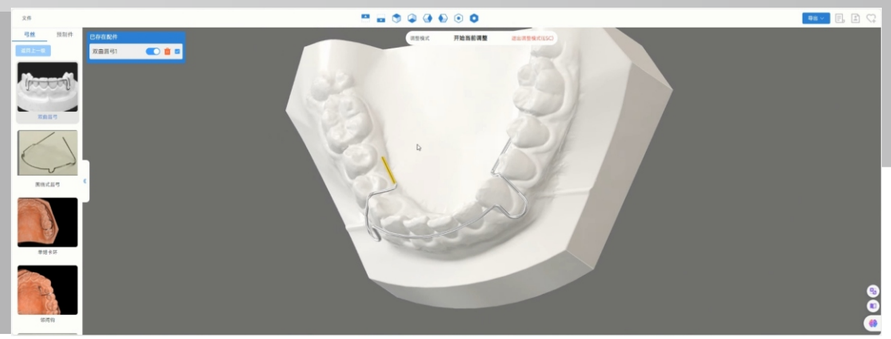
Riton Cloud



Cloud data storage, providing a clear overview of patient information.
Online plan review for doctors, facilitating convenient communication with dental laboratories and patients.

End-to-end management and tracking of the entire order process.
Efficiently managing workflow from order submission to delivery and shipment.

Riton Jawdraw Software



Widely Applicable, Fully Equipped
Suitable for various orthodontic treatment plan designs, with simple and quick operation.

Intelligent operation significantly reduces design time
Platform data algorithms generate the arch wire model automatically after completion of marking.

Intelligent connection with production equipment.
Initiating wireless data transmission ensures high-quality printing results.

Sample display

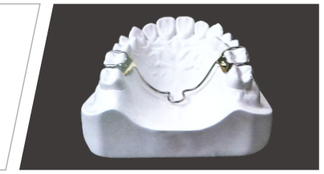
Begg Retainer

Lip Bumper

Lip Bumper Wire

Frankel Appliance

Hawley Retainer



Trans-palatal Arch

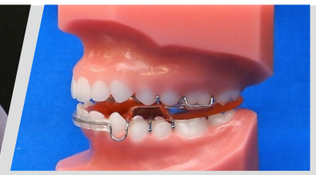
Activator

Expander

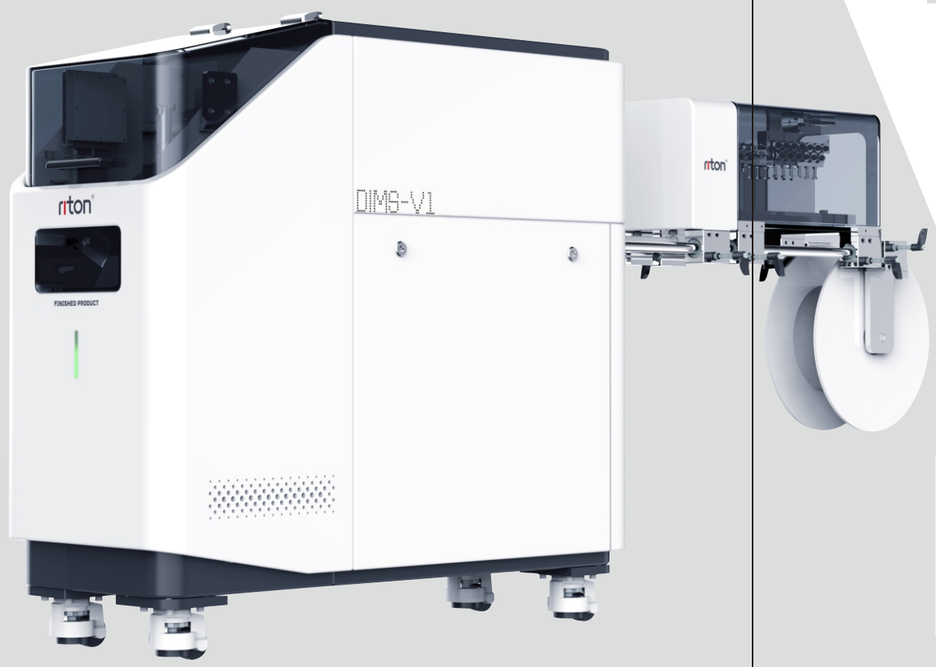
Nance Appliance

Vestibular Shield

Fan-Type Expander



Twin Block Appliance



Technical Specifications

Input Voltage	220V
Control Voltage	24V
Rated Power	800W
Overall Dimensions	335x800x1650mm
Weight	Approximately 70Kg
Feed Speed	60mm/s—120mm/s
Feed Accuracy	±0.02mm
Bending Speed	180°/s—300°/s
Bending Accuracy	±0.2°
Consumables	0.5mm—1.2mm orthodontic stainless steel wire
Bending Efficiency	Within 60 seconds for conventional processed parts (such as double-curved archwires)
Wire Change Efficiency (same specification wire)	Single-person operation takes approximately 2 minutes

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