



MaxAuto A1 mini

Mini All-In-One Machine



Full Automation

Full-process automatic production, 20-30 aligners/hour, labor-saving & unmanned operation.



Compact Size

Small footprint (L1000×W800×H1950mm, 400kg), ideal for clinics, labs & factories.



Stable Quality

Recognition rate $\geq 98\%$, 0.02mm precision, uniform heating, wide material compatibility.

MaxAuto A1 mini- Mini All-In-One Machine

Advantages

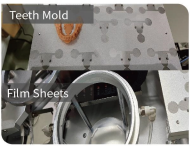
- ✓ **Machine Size:** L1000mm×W800mm×H1950mm
- ✓ **Machine Weight:** 400kg
- ✓ **Production Capacity:** 20-30 Aligners/hour
 - Integrated Functions: Automatic Loading (11 teeth mold/batch, 120 film sheets/batch); Thermoforming (Heating, Vacuum, Forming); Laser Marking (Optional); Vision Recognition; Trimming (Laser/CNC); Finished Aligners Collection.
 - Controllable Thermoforming Temperature: 0°C-700°C (even heating).
- ✓ **Film Material:** Film sheets (round or square)
 - Provide supporting tool software that enables automated conversion of cutting lines.
 - Offer API interfaces for customizing cutting paths and setting tool angles.
 - Software Service (Optional): STL file & PTS file generation.

Applications

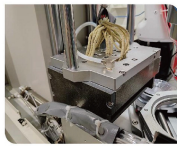
Dental Clinics; Dental Labs; Clear Aligner Manufacturers including OEM factories.

Equipment Communication

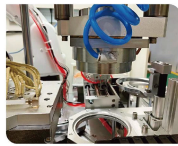
- Support external data monitoring interfaces and communication interfaces. These interfaces can be integrated with trimming equipment to provide the parameter information required for clear aligner trimming.
- Support communication methods such as TCP/IP and RS232/485.
- Provide interfaces for monitoring the current process flow and status of each aligner, as well as for production system integration. It can automatically obtain cutting lines and complete cutting based on the unique model identification information.



01 Automatic Loading



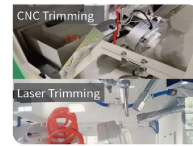
02 Automatic Heating



03 Thermoforming



04 Visual Recognition



05 Trimming



06 Finished Aligner Collection

Technical Parameters



Code Reading	Visual Recognition	Camera Parameter:
		Resolution: 1920×1080
		Focal Length: 12mm
		Working Distance: 100-1000mm
		Recognition Rate: ≥98%
Automatic Trimming	6 Axis Robot	Robot Parameter:
		Valid load: 4kg
		Armspan: 475mm
		Weight: 21kg
		Repeat Position Accuracy: 0.02mm
	Motor Spindle	Power: 800W
		Rotation Speed: ≤40000 r/min
Consumption	Heat Dissipation: Water Cooling	
	Power: 3kW	
	Air Consumption: 300 L/min	
	Water Chiller: Liquid change, 6 months/time (Antifreeze need to be added in winter)	
	CNC Trimming--Tool life: ≤800 aligners	
	Laser Trimming--Fume Extractor Airflow: 380 m³/h	

Shanghai Maxflex Medical Technology Co.,Ltd

Tel: +86-21-5956 0800 | Add: 1169 Yuanqu RD, Anting Town, Jiading District, Shanghai, China

Email: service@maxflexbrace.com | Web: en.maxflexbrace.com

