MS 01

FGF fully enclosed 3D printer

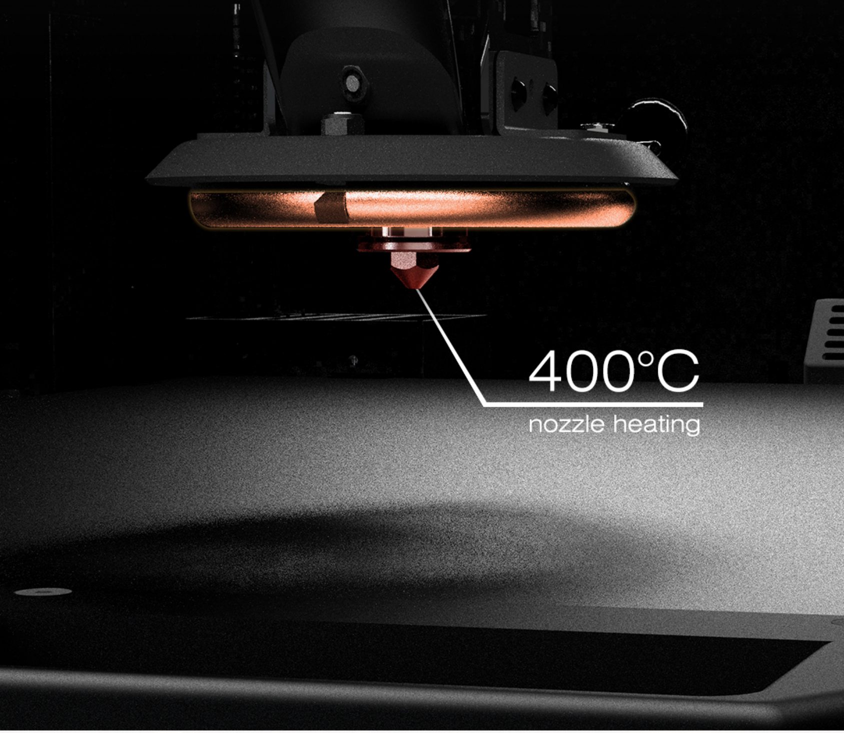
High-temperature pellet 3D printing

- Industrial Grade Nozzle Kit
- Large printing size 500×500×650mm
- Material break detection

PIOCREAT
PIOCREAT

Support for high-tempmaterials

The nozzle temperature reaches 400°C,
supporting high-temperature materials printing.


400°C
nozzle heating

Fully enclosed case

Ensures a constant temperature environment up to 100℃, making the printed models more stable

PIOCREAT
PIOCREAT
100°C

Orthosis
Orthosis

Supports all types of orthotics

Printing size: 500×500×650mm

Orthosis
Orthosis
0 1 2 3
Orthosis
Orthosis
0 1 2 3

Material break detection

Automatically pauses when out of material,
resumes printing when new material is fed.

PIOCREAT
PIOCREAT

Scoliosis solutions

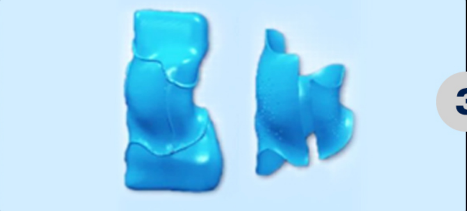
Printing size: 500×500×650mm

Based on precise human data, directly design corrective solutions,
accurately grasping the correct correction position
and optimal correction force necessary for scoliosis correction

高精度3D人体扫描系统

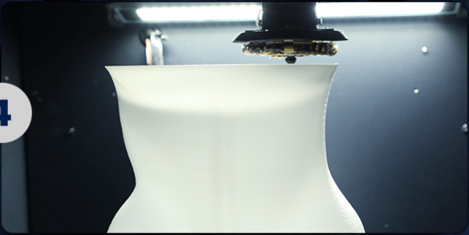
1 High-precision 3D scanning system

2 Import body surface 3D data



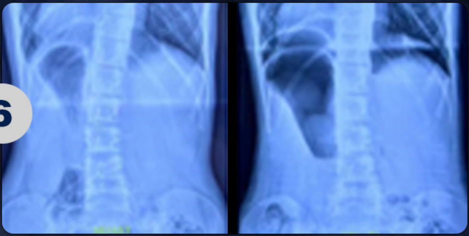
3 Model and brace design

4 Specialized 3D printed model



5 **Patient wears the brace**

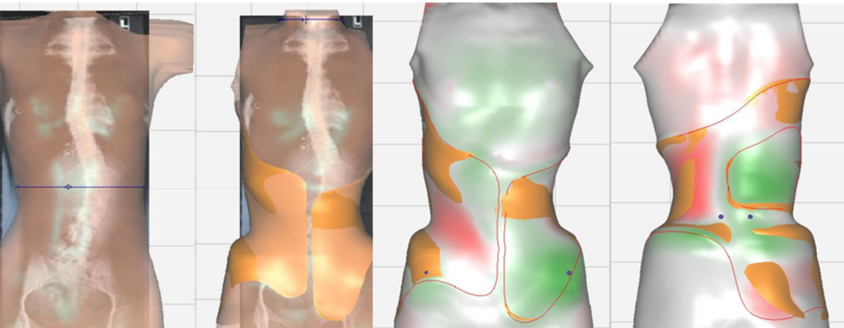
Comparison of effect before and after orthotics **6**



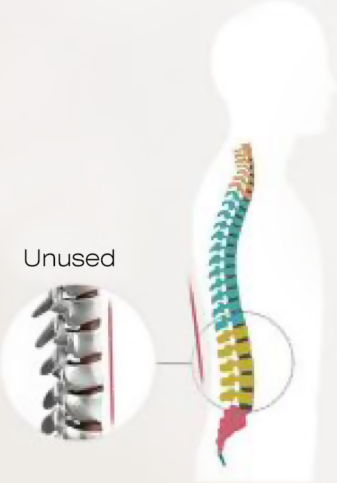
Applications

Customized spine orthosis

3D scanning completely avoids errors caused by traditional plaster molds.

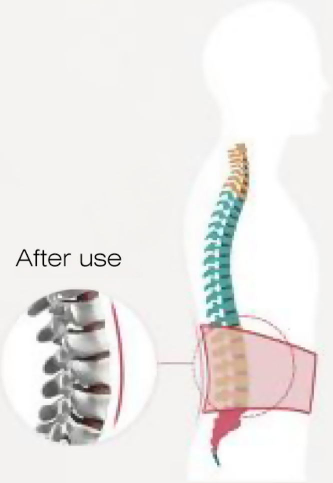


straighten spine

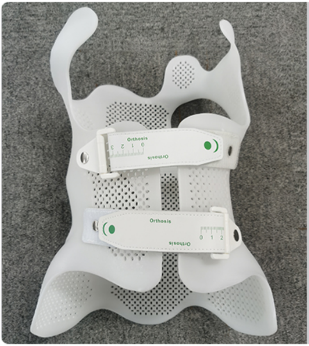


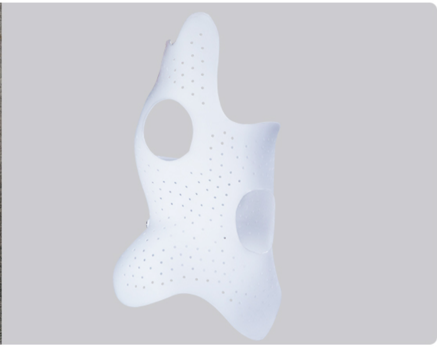
Pathologically curved lumbar spine

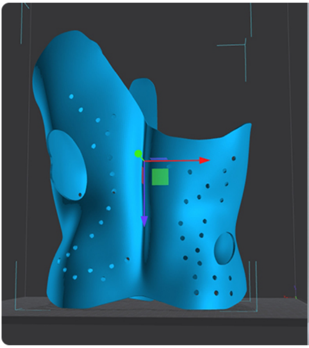
Normal spine



Normal curvature of the lumbar spine


Orthosis
0 1 2 3
Orthosis
0 1 2





Orthosis
0 1 2 3
Orthosis

Orthosis
0 1 2 3
Orthosis

Parameters

MS 01

FGF
Molding technology

2-5mm
Pellet diameter

≤400℃
Nozzle temperature

≤110℃
Heating bed temperature

≤100℃
Chamber temperature

Screw extruder
Discharging mechanism

100±0.1mm
Printing accuracy

4200W
Rated power

1.0mm(2.0,3.0,4.0mm optional)
Nozzle diameter

500×500×650mm
Print size

870×970×1521mm
Machine size

1036×990×1670mm
Package size

274KG
N.W.

1
Number of nozzles

324KG
G.W.

USB disk
Connection method

Chinese/English
Device language

100-120V~/200-240V~，50/60Hz
Rated voltage

Piocreat_slicer (Win7 or above X64, Mac)
Operating system

High temperature composite materials
Printing material