



# Scoliosis Treatment Solution

Customized spinal orthotic

- Light weight
- Close-fitting plasticity
- Breathable and comfortable
- Personalized appearance

**Data  
Collection**



**Digital  
Design**

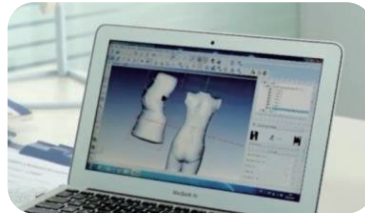


## 3D printed scoliosis orthotic production process



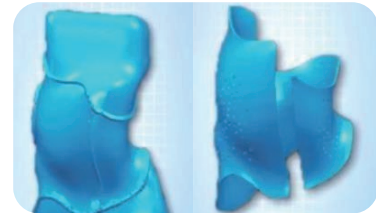
01

High-precision  
3D scanning system



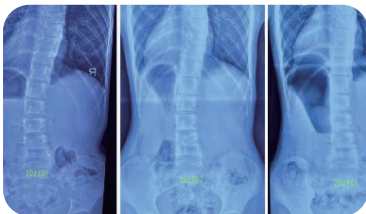
02

Body surface  
three-dimensional data



03

Shape and brace design



06

Comparison of before and  
after orthopedic



05

Orthotic try-on and able  
for second adjustment



04

3D printing model

Orthopedic  
Wearing

Fit  
Adjustment

# MS 01

## FGF fully enclosed 3D printer

### High-temperature pellet 3D printing

#### Fully Enclosed Chamber

Constant temperature work environment, good molding effect. Available for high temperature material printing.

#### Industrial Grade Nozzle Kit

Nozzle temperature  $\leq 400^{\circ}\text{C}$

#### Large printing size

500 × 500 × 650mm

#### Material break detection

Add pellets and continue printing



|                     |                                                    |                          |                                      |
|---------------------|----------------------------------------------------|--------------------------|--------------------------------------|
| Product model:      | MS 01                                              | Print layer thickness:   | 0.5-1.5mm                            |
| Molding technology: | FGF                                                | Printing material:       | High temperature composite materials |
| Print size:         | 500 × 500 × 650mm                                  | Discharging mechanism:   | screw extruder                       |
| Machine size:       | 870 × 970 × 1521mm                                 | Pellet diameter:         | 2-5mm                                |
| Package size:       | 1036 × 990 × 1670mm                                | Printing method:         | USB disk                             |
| N.W.:               | 274KG                                              | System languages:        | Chinese/English                      |
| G.W.:               | 324KG                                              | Heating bed temperature: | $\leq 110^{\circ}\text{C}$           |
| Number of nozzles:  | 1                                                  | Power requirements:      | 100-120V~, 200-240V~, 50/60Hz        |
| Nozzle temperature: | $\leq 400^{\circ}\text{C}$                         | Rated power:             | 4200W                                |
| Printing accuracy:  | 100 ± 0.1mm                                        | Slicing software:        | Piocrat_slicer                       |
| Nozzle diameter:    | 1.0mm standard (2.0, 3.0, 4.0mm optional for sale) |                          |                                      |

# Customized Spinal Orthotics

Avoids the orthotic making errors from traditional molding techniques by using three-dimensional scanning. captures a high-precision three-dimensional data model of the human body, and perfectly matches the X-ray film.



## Slim Fit

Integrated 3D printing  
Highly pliable  
Good orthotic effect

## Super Breathable

≥50% breathable hole design on the surface, Permeable and comfortable wear.

## Light Weight

20% reduced thickness  
530g average weight

## Custom Design

Customized hole patterns  
Customized signature

## High Quality

High-quality certified materials  
Bio-compatibility and sensitivity test  
5000 times open-close test

- Hollow design
- High performance special materials
- Long-lasting and durable
- Highly customized perfect fit
- Easy to wear
- Breathable and comfortable
- Suitable for hot weather

