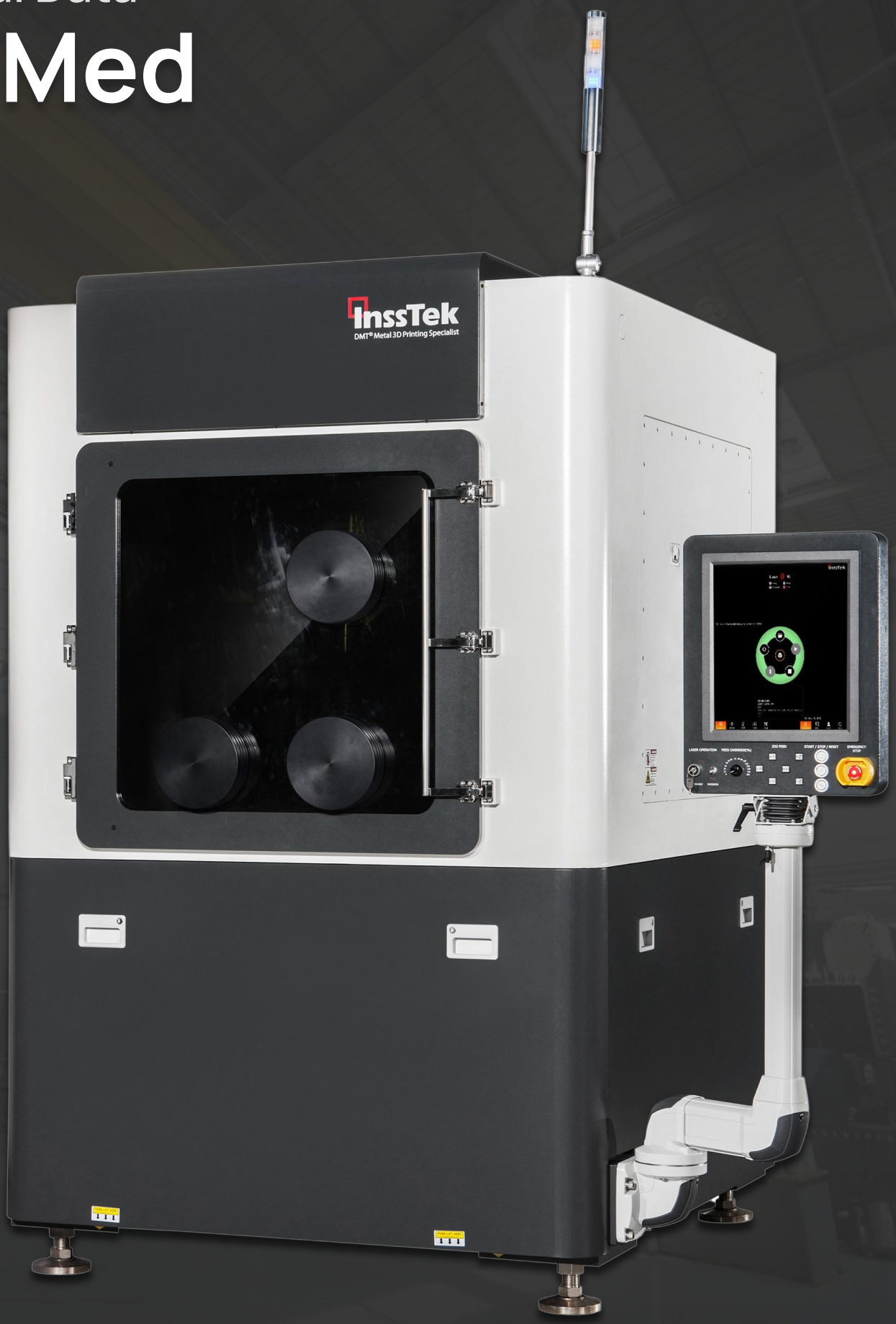
Technical Data

MX-Med



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MX-Med

Porous coating system

- Titanium porous structure application
- Developed to apply for orthopedic implant surface coating
- Used for artificial hip joint(FDA approved) & knee coating

Creating Innovative Solutions for Challenges in Medical Industries

IDEAL POROSITY

Surface roughness ensured with porosity higher than 60% and ideal porosity(Pore size : 100~400um) that strengthens interfacial bonding between coating layer and substrate as well as biological fixation with bones.

SUPERIOR CUSTOMIZATION

Entirely customizable for cups, knees, shoulders, ankles and more as needed.

USER FRIENDLY INTERFACE

Simple coating procedure with easy step and easy controllable pore shape, thickness, roughness.

ECONOMICAL ADVANTAGE

Cost effective compared with the conventional method and rapid fabrication.

OPTIMIZED PRINTING HEAD

Minimized printing head to avoid the interference with the objects and optimized coating parameters.

COMPLEX PARTS PRODUCTION

Simultaneous 5-axis motion for porous coating.

Technical Data

MX-Med Specification

		MX-Med
Laser		
Type		Ytterbium Fiber Laser
*Laser Power	W	Max. 100
Safety Standard		EN60825-1
Stage		
X, Y, Z Stroke	mm	300 x 300 x 230
A, C1, C2 Stroke	deg.	-100 ~ +5 / 360 / 360
Worktable Quantity	EA	2
Module		
*Optical Module (Dual-head applicable)		Porous Coating Module
Beam Diameter	μm	200
Feeding System		
Powder Feeding Rate (for Ti-6AI-4V)	g/min	0.5 ~ 10
Powder Hopper Volume	liter	2.6
*The number of powder feeding systems	set	1 (Max. 2)
Software		
Operating System		Window 7 or higher
HMI Program		MX-OS
*CAM Software		MiXO Pro
Electrical Specification		
Electrical Power Type	Hz	3P+N+PE (at 50/60)
Main Machine Voltage	V	380
Full Load Current	A	60
Mechanical Specification		
Machine Dimensions (without accessories)	mm	2,150 x 1,800 x 2,550
Machine Weight	ton	2.7

(*Optional Item)

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