

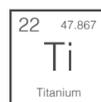
## SBI - solutions by innovation

Founded in 1999, SBI is a high-tech manufacturer of welding power sources and complete welding automation systems.

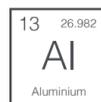
In 2016 we combined those two competences and started our engagement in Metal Additive Manufacturing - M3DP.

### SAMPLE PARTS

Titanium part:  
Material: Ti-6Al-4V  
Height: 60mm  
Wall thickness: 13mm  
Dimensions X\*Y: 350\*150mm



Aluminium part:  
Material: Aluminium alloy 5356  
Height: 60mm  
Wall thickness: 8-15mm  
Dimensions: X\*Y: 170\*120mm

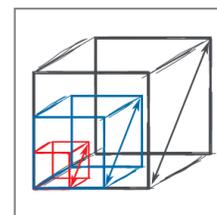


## Technical Specifications

Specifications	
Deposition rate	0.5-10kg/h
Processable materials	Titanium, Aluminium, Steel, Invar, Nickel-base alloys, Copper, ...
Build volume	up to 2000x600x600mm (X-Y-Z)
Layer height	0.7-3mm
Min. layer width	3mm
Machine dimensions	4500x2500x3500 mm (X-Y-Z)

### Quality Management

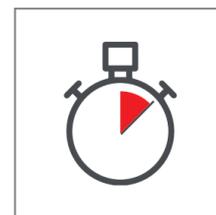
- Adaptive geometry control
- Interpass temperature
- Data logging of process parameters
- Camera recording



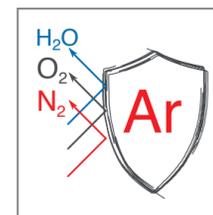
Scaleable build volume tailored for your demands



Economical processing for optimal buy-to-fly ratio



time saving and application oriented manufacturing, less machining



Argon (inert gas) protection cell for oxygen sensitive materials



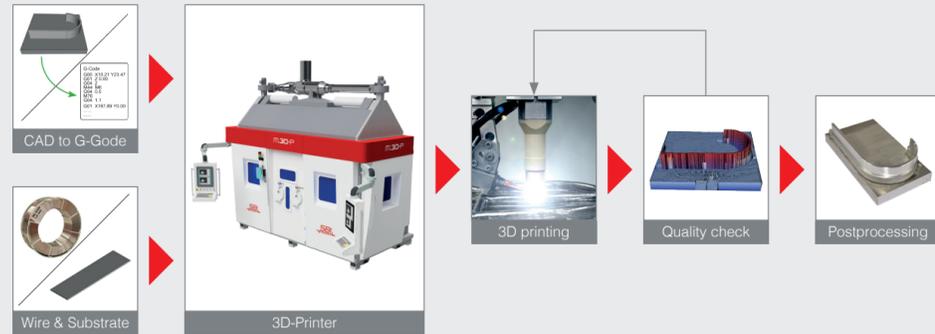
**M3DP**

**METALLIC 3D PRINTING**  
for Serial Production

Additive Manufacturing for Metals

The innovative way to manufacture large metallic parts in near-net-shape fabrication

## M3DP-Process



Excellent combination of plasma and material know-how by collaboration with strong partners



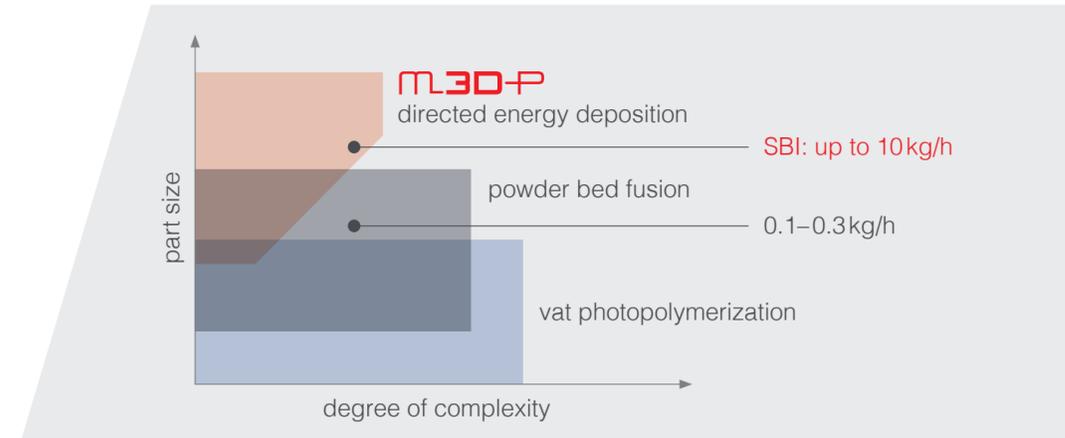
**Ti** Holder for a precision mirror system, ø 3m

**Invar** Tool for Carbon Fibre laminate fabrication, 70kg

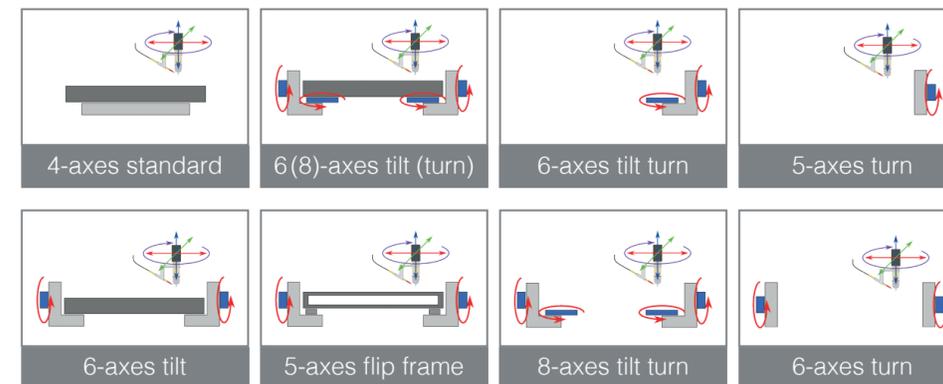
**Al** Light metal crank with high stiffness - 1m

**RHP TECHNOLOGY** application examples above courtesy of our material partners.

## Highest Deposition Rate



Standard product, adaptable to your needs



## Compact Machine - Customizable Configurations



6-axes  
Build volume  
2000x600x600 mm (X-Y-Z)  
• for large 2.5D parts



8-axes  
Build volume  
2xØ 1000x600 mm  
• for rotational parts



5-axes  
Build volume  
2000x600x500 mm (X-Y-Z)  
• for mirror symmetrical parts  
• for parts with integrated substrate plate