



# KURTZ ERSA ALPHA 140



**SIMPLE.** *Simplifying complexity*  
Avoiding complex and high-maintenance components.



**COMMERCIAL.** *Less expensive*  
Reduction of selling price by simplifying the machine design, but 100 % Kurtz Ersa high industrial quality.



**FLEXIBLE.** *Adaptable process parameters*  
Variable process parameters enable using a broad range of metal materials.



# Technical Specifications<sup>(1)</sup>:

## General

build value	Ø 140 mm x Z 200 mm	
shield gas input (N <sub>2</sub> or Argon)	6 bar	
shield gas consumption (N <sub>2</sub> or Argon)	flooding	< 40 l / min
	process	3 – 6 l / min
layer height	recommended betw. 30 – 90 µm	

## Laser and Optic

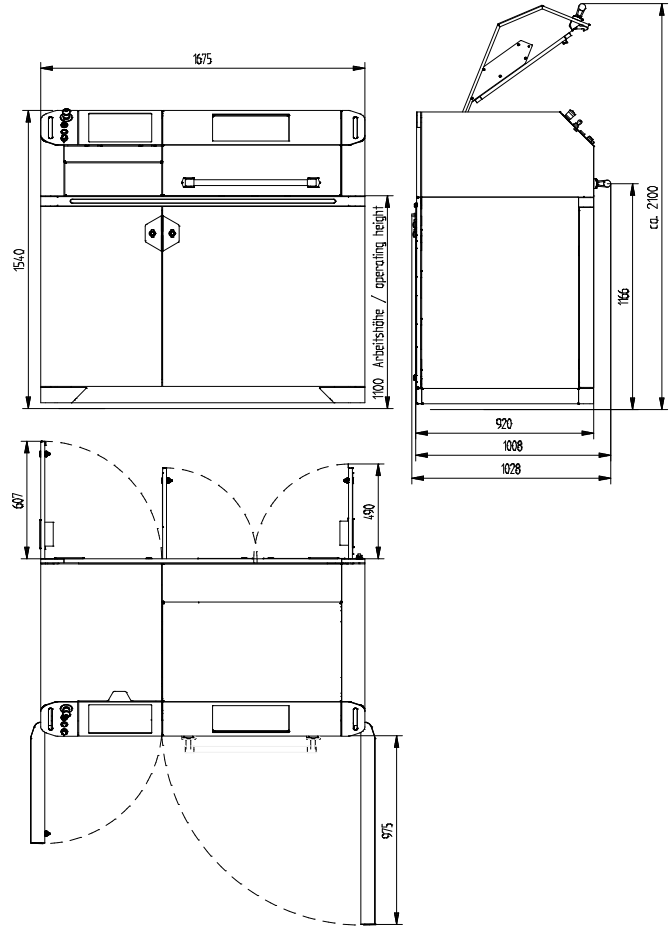
laser	fibre laser 200 W / aircooled	
wavelength	1,070 nm	
focus diameter	140 µm	

## Electronics

electrical input	380 – 480 V 50/60 Hz, max. 16 A Pmax = 4 kW, three phase	
IP protection class	IP54	
environment temperature	15 – 35 °C	
air humidity	max. 70 %	

## Materials

materials	■ stainless steel alloys, e.g. 1.4404
	■ tool steel alloys, e.g. 1.2709
	■ aluminum alloys, e.g. AlSi7Mg
	■ nickel-based alloys, e.g. IN625 or IN718
	■ others on request
part density	up to 99,9 %
geometric accuracy (xy)	up to 100 µm



## Dimensions

dimensions (L x W x H)	1,675 mm x 1,028 mm x 1,540 mm <sup>(2)</sup>
weight (fully equipped)	ca. 500 kg ~ 1,100 lbs (ca. 710 kg ~ 1,565 lbs)

## Software

### Slice AM & Autodesk<sup>(3)</sup>

<sup>(1)</sup> subject to technical change without notice

<sup>(2)</sup> H = 2,100 mm with the cover open

<sup>(3)</sup> is charged additionally



Product Video  
Kurtz Ersä  
Alpha 140

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