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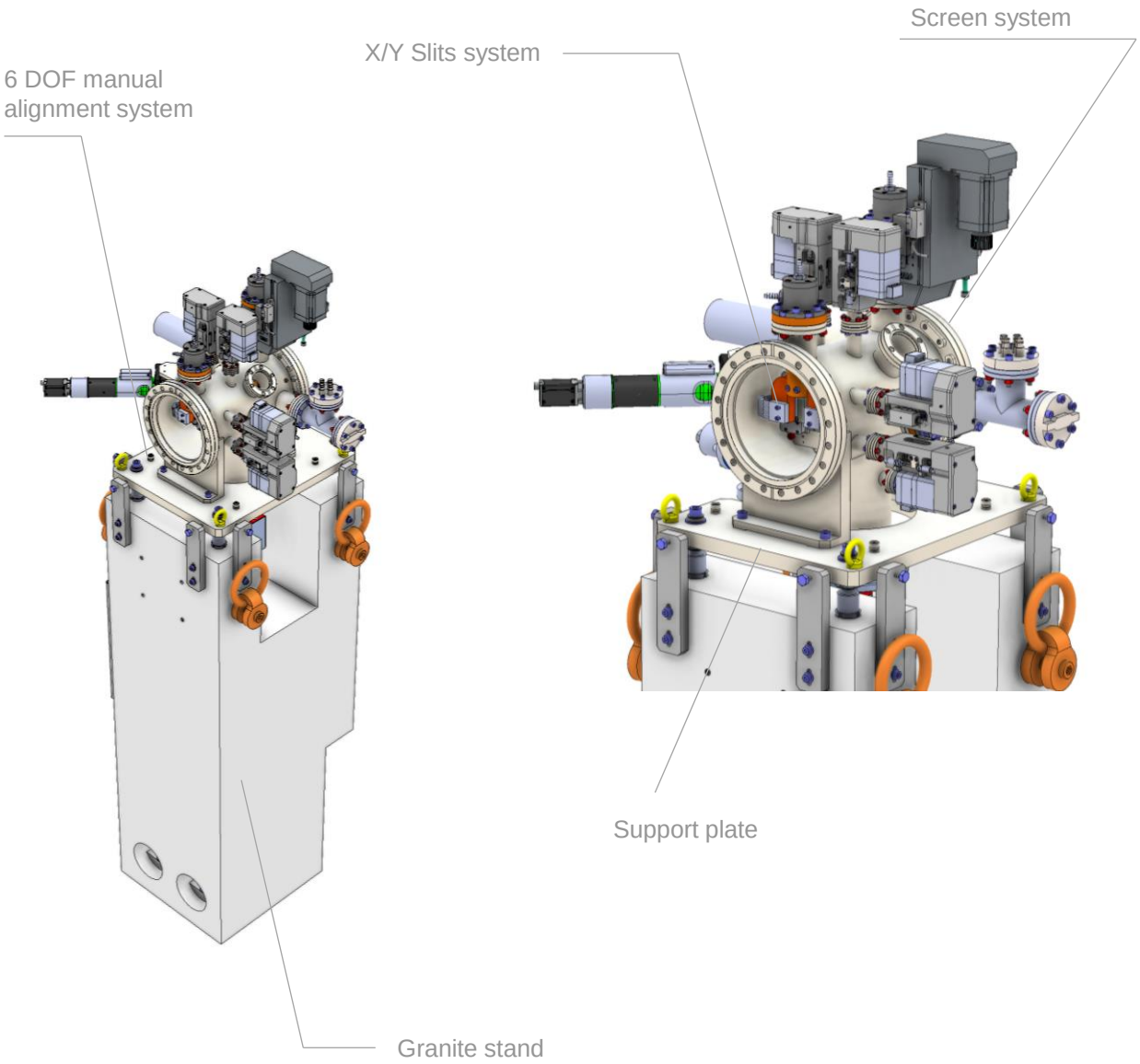
Monochromatic slits with viewing screen

A compact and modular design for beam shaping



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20 rue du tour de l'Eau | F-38400 S^{T} Martin d'Hères

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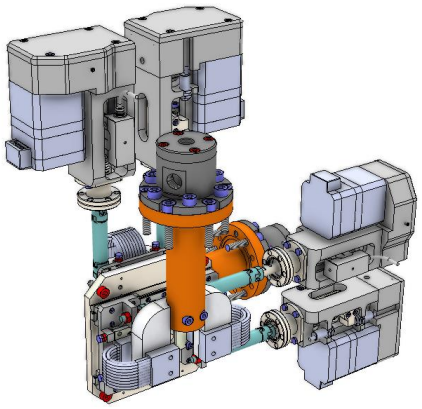
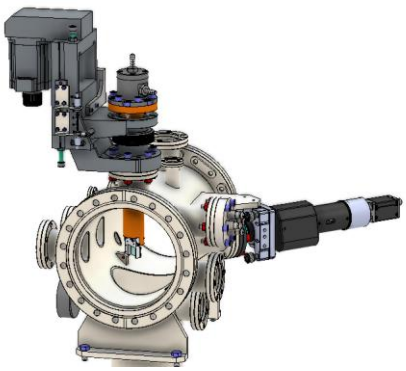
Slits

Maximum X/Y aperture size	25 x 25 mm²
XY blade overlap	5 mm
Closed loop blades position repeatability	< 50 µm
Theoretical resolution	< 10 µm
Stability (> 10 Hz rms)	< 25 µm
Blade material	Densimet® D185ND (Tungsten-Nickel-Iron Alloy)
Blade edge surface finish	< 0.3 µm rms
Blade body surface finish	< 0.3 µm rms
Straightness	< 30 µm
Parallelism	< 30 µm



Diagnostic screen system

Screen material	Boron doped CVD diamond
Screen thickness	20 µm
Screen size aperture	15 x 15 mm²
Screen angle of incidence	45°
Camera	
Magnification (low / high)	x 0.21 / x 1.45
Low magnification field of view	17 x 23 mm
High magnification field of view	2.5 x 3.4 mm
Object resolution Low magnification	33 µm/pixel
Object resolution High magnification	4.8 µm/pixel



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Indirect water cooling

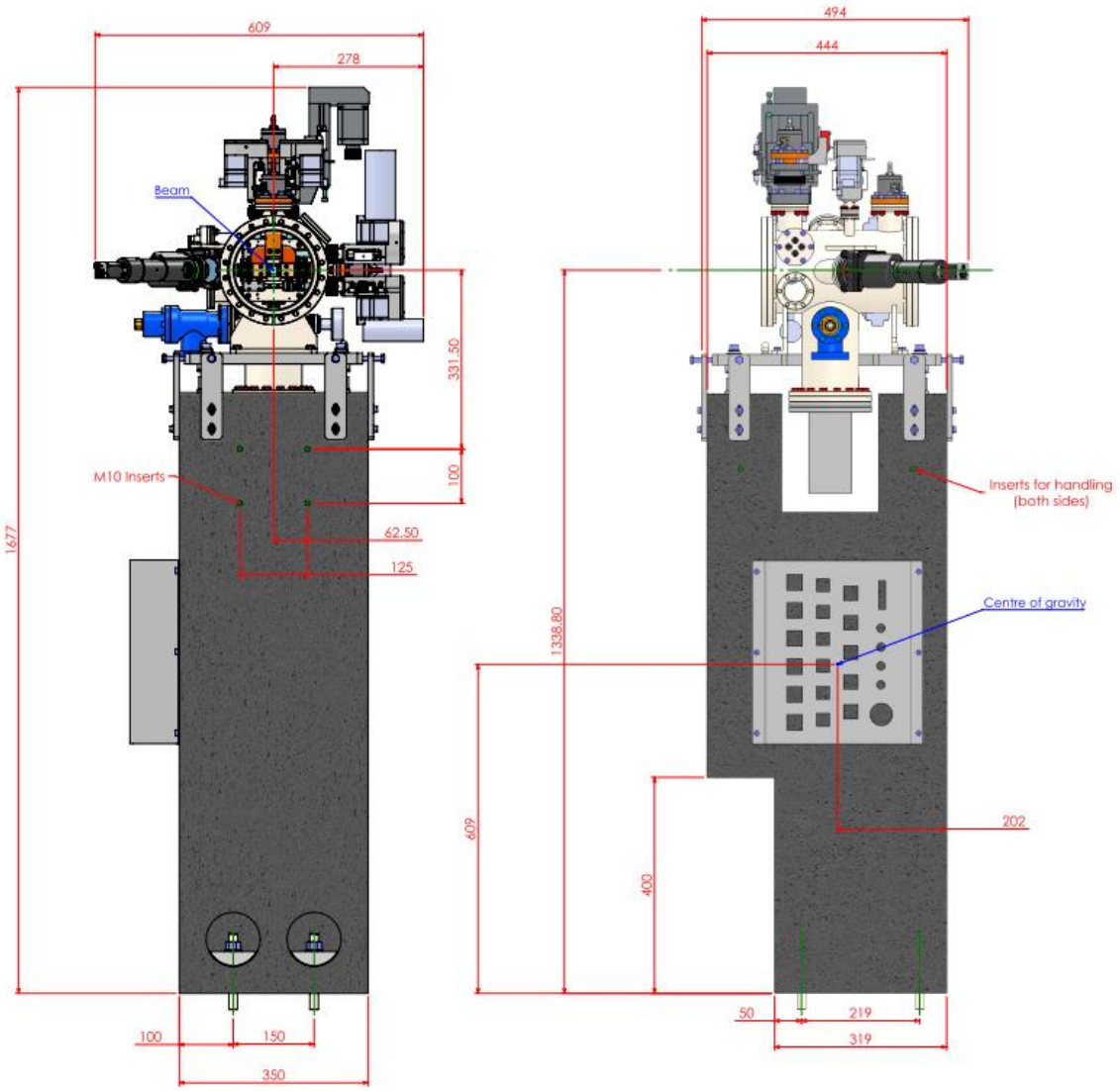
The cooling of the slit system is composed of 2 cooling units, 1 per slit unit (Horizontal and Vertical). Cooling of the blade is done via a heatsink connected with copper braids. On each blade, temperature can be measured with 1 PT100.

The cooling of the screen system is made with a cold finger directly connected to the diamond screen. The temperature can be measured via 2 PT100 located on each side of the screen.

Max Pressure (bar)	8.3
Connectors	G ¼ female
Flow rate (L/min)	2

Weight and Dimensions

Weight = 32 kg (without the granite support)



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