

Plasma cutting

Outokumpu PSC Nordic

Outokumpu PSC Nordic is specialized in plasma cutting of Moda, Core, Supra, Forta and Ultra range stainless steel grades.

Outokumpu PSC Nordic offers

- CAD-CAM-steered cutting of various components
- Plasma cutting under water
- Maintained flatness and straightness (tolerances)
- Maintained hardness
- Controlled cutting phase
- Infinitely changed cutting phase during ongoing operations
- Minimal oxidation in clear cuts
- Thicknesses up to 150 mm
- Specialist knowledge of stainless steel
- Lengths up to 15 000 mm

What is plasma cutting?

Plasma cutting is a method developed especially for stainless steel and other more difficult to process material. The hot plasmas energy is used to blow away melted material. Plasma cutting up to 50 mm takes place under water which means that the heat input is kept on a very low level. Flatness and straightness are maintained and the hardness of the material is also practically not affected.

Our big plasma cutting machine has a 5- axis head which leads to possibilities of making phase cuts. During the cutting process the phase angle can be changed infinitely all the way from a positive to a negative angle. This gives the possibility to order special cuts with a perpendicular angle.

Plasma cutting is both quick and economical. Other tolerances and tolerance modes can be offered on special request.

Material

Outokumpu PSC Nordic is specialized in plasma cutting of Moda, Core, Supra, Forta and Ultra range stainless steel grades. In addition to this plasma cut high strength steel and wear steel can be offered.

Machine park

Table 1

	Thickness, mm	Max plate size Length x width, mm
Cutting table 1	2 – 100	8 000 – 3 000
Cutting table 2	2 – 75	16 000 – 6 500

Tolerances

Table 2

Standard	Thickness, mm	Outside measure		Inside measure	
		Length, mm		Length, mm	
		≤ 6000	> 6000	≤ 6000	> 6000
– 9,9		-0/+3	-0/+5	-3/+0	-5/+0
10 – 39,9		-0/+5	-0/+7	-5/+0	-7/+0
40 – 100		-0/+10	-0/+12	-10/+0	-12/+0
Special					
Thickness, mm					
0 – 50		-0/+2	-0/+2	-2/+0	-2/+0



Working towards forever.

We work with our customers and partners to create long lasting solutions for the tools of modern life and the world's most critical problems: clean energy, clean water, and efficient infrastructure. Because we believe in a world that lasts forever.

outokumpu
classic

Moda

Mildly
corrosive
environments

Core

Corrosive
environments

Supra

Highly
corrosive
environments

outokumpu
pro

Forta

Duplex
& other
high strength

Ultra

Extremely
corrosive
environments

Dura

High
hardness

Therma

High
service
temperatures

Prodec

Improved
machinability

Deco

Special
surfaces

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high performance stainless steel



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