

CERAMIC SOLUTIONS

Solutions in advanced technical ceramics

Portfolio for the welding industry



Technical ceramics

Technical data sheets of our materials



Technical characteristics:

Density 6.02 gr/cm3
Bending resistance 1050Mpa
Compression strength 2250 Mpa
Impact resistance 8 Mpa.m1/2
Hardness 1150 HV 10
Max. temperature of use 1000°C
Wide range of colours



Technical characteristics:

Density 5.70 gr/cm3

Bending resistance 1.000 Mpa

Compression strength 2250 Mpa

Impact resistance 15 Mpa.m1/2

Hardness 1250 HV 10

Max. temperature of use 1000°C

Colour: Brown



Technical characteristics:

Density 3,2 gr/cm3
Bending resistance 750Mpa
Compression strength 2500 Mpa
Impact resistance 6.5 Mpa.m1/2
Hardness 1600 HV 10
Max. temperature of use 1250°C
Colour: Black



Technical characteristics:

Density 3.9 gr/cm3
Bending resistance 350 Mpa
Compression strength 3000 Mpa
Impact resistance 4Mpa.m1/2
Hardness 1800 HV 10
Max. temperature of use 1450°C
Colour: Ivory



POSITIONING PINS

Positioning of tailor-made parts

The hosting pins ensure a perfect placement of the components on the tools during the manufacturing process.



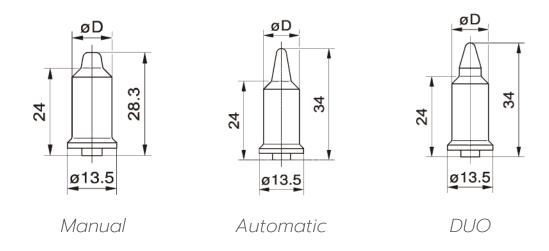
Low-wear: The Steelceram ceramic hosting pins guarantee a longer service life due to the high hardness of the material which does not lose tolerance overtime due to wear and tear.

Non-stick: The weld spatters resulting from the welding processes do not stick to the ceramic thanks to the nature of the material and the optimal finish of our materials.



Standard centering pins

The types of feeding can be:



We manufacture standard single-piece and hybrid centering pins. Hybrids are generally made up of a metal part, a ceramic sleeve and a PEEK plastic base.





Standard Metrics

M4	M5	M6	M8	M10	M12
4.5	5.5	6.5	8.5	11.0	13.0
4.6	5.6	6.6	8.6	11.1	13.1
4.7	5.7	6.7	8.7	11.2	13.2
4.8	5.8	6.8	8.8	11.3	13.3
4.9	5.9	6.9	8.9	11.4	13.4
5.0	6.0	7.0	9.0	11.5	13.5
5.1	6.1	7.1	9.1	11.6	13.6
5.2	6.2	7.2	9.2	11.7	13.7
5.3	6.3	7.3	9.3	11.8	13.8
5.4	6.4	7.4	9.4	11.9	13.9
5.5	6.5	7.5	9.5	12.0	14.0
5.6	6.6	7.6	9.6	12.1	14.1
5.7	6.7	7.7	9.7	12.2	14.2
5.8	6.8	7.8	9.8	12.3	14.3
5.9	6.9	7.9	9.9	12.4	14.4
6.0	7.0	8.0	10.0	12.5	14.5
		8.1	10.1	12.6	14.6
		8.2	10.2	12.7	14.7
		8.3	10.3	12.8	14.8
		8.4	10.4	12.9	14.9
		8.5	10.5	13.0	15.0
			10.6		
			10.7		
			10.8		
			10.9		
			11.0		

Diameter Tolerance -0.05mm -0.1mm

Example of reference

M4-Zr-AUT-D4,5

Metric 4 Centering Pin, Zircon, Auto Feed, Diameter 4,5

Special Pieces

Tailor-made manufacturing for any type of special parts.

We are equipped with the tools and technology to manufacture turning and milling parts, as well as the insertion of metal parts, internal and external ceramic threading, grooving and contouring.



Advanced Tubes and bearings

Adjusting pins for templates and ceramic bearings.

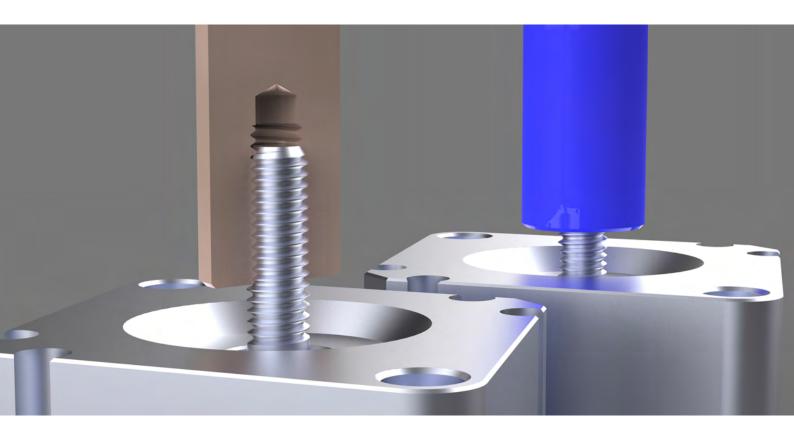
We manufacture both fixed and removable tubes for the adjustment of sheets and other applications and customised bearings with internal hole of h7 tolerance.



Threaded ceramic

Commercial metric ceramic thread

At Steelceram we have the capacity to manufacture internal threads in all our products. We offer the possibility to replace metal threaded bushings with ceramic threading. This allows higher working temperatures and offers higher tensile strength.





DO YOU NEED A SPECIAL PROTOTYPE?

Our technical department will help you

CONTACT US

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