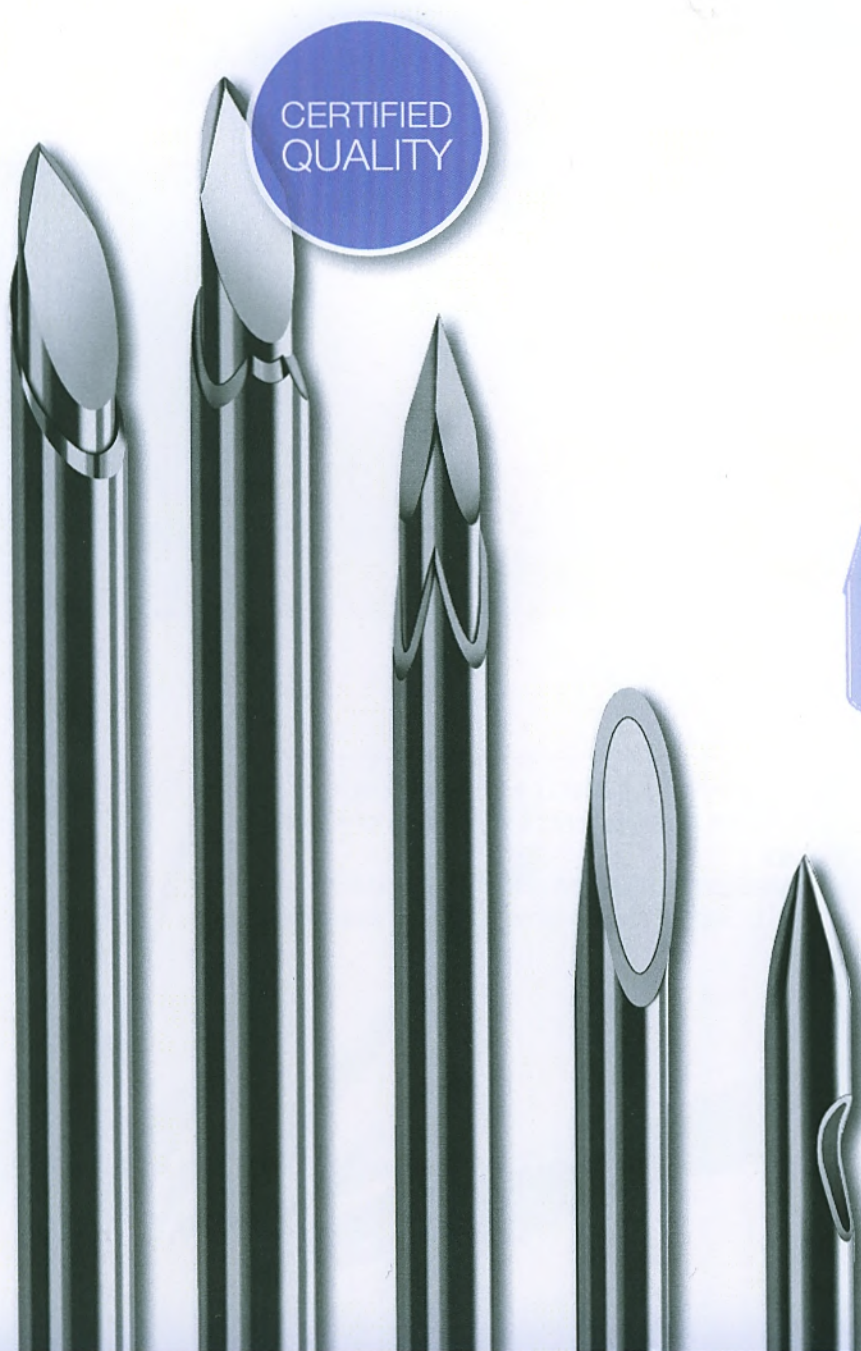


THE TIP MAKES THE DIFFERENCE



CERTIFIED
QUALITY



INJECTA – The Company



The company...

Our company's continued growth is exemplified by our production expansion. With more than 5,000 square meters of production area at our disposal and clean room quality products, we have made another significant step towards consolidating our company's progress and market position.

We are looking forward to meeting your challenges!

How to reach us...

By car:

Exit the Autobahn 72 at Plauen Süd (South). Follow the signs for Oelsnitz i.V. towards Klingenthal. In Klingenthal follow road B283 (Markneukirchnerstraße, Auberbacherstraße). Then take S304 (Falkensteinerstraße) towards Falkenstein. Approximately 1 km after leaving town, you will reach the industrial area at Schwarzberg and INJECTA GmbH.

By plane:

Closest airports: Prague, Leipzig, Dresden and Nürnberg.

By train:

You can reach our premises either from the central station in Zwickau or Plauen with the "Vogtlandregionalbahn".



Certified Quality...

You can rely on premium products and reliable quality to meet your stringent requirements in the fields of medicine and technology.

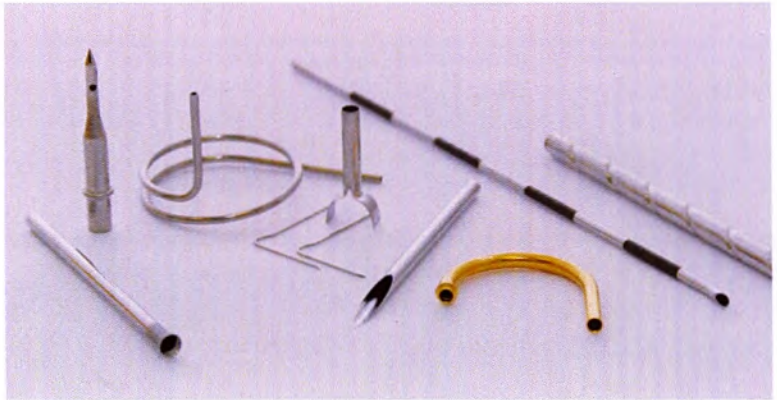
Our Quality Management System ensures compliance with DIN EN ISO 9001. Supporting documentation is available upon request.



Experience and quality

Over 50 years experience...

...and continuous improvements in the manufacturing of stainless steel precision tubes set apart our wide range of medical and industrial products.



Highly experienced personnel...

...along with the most current production techniques guarantee consistently high quality products. Continuous interaction with our customers enables common solutions to meet individual user requirements.

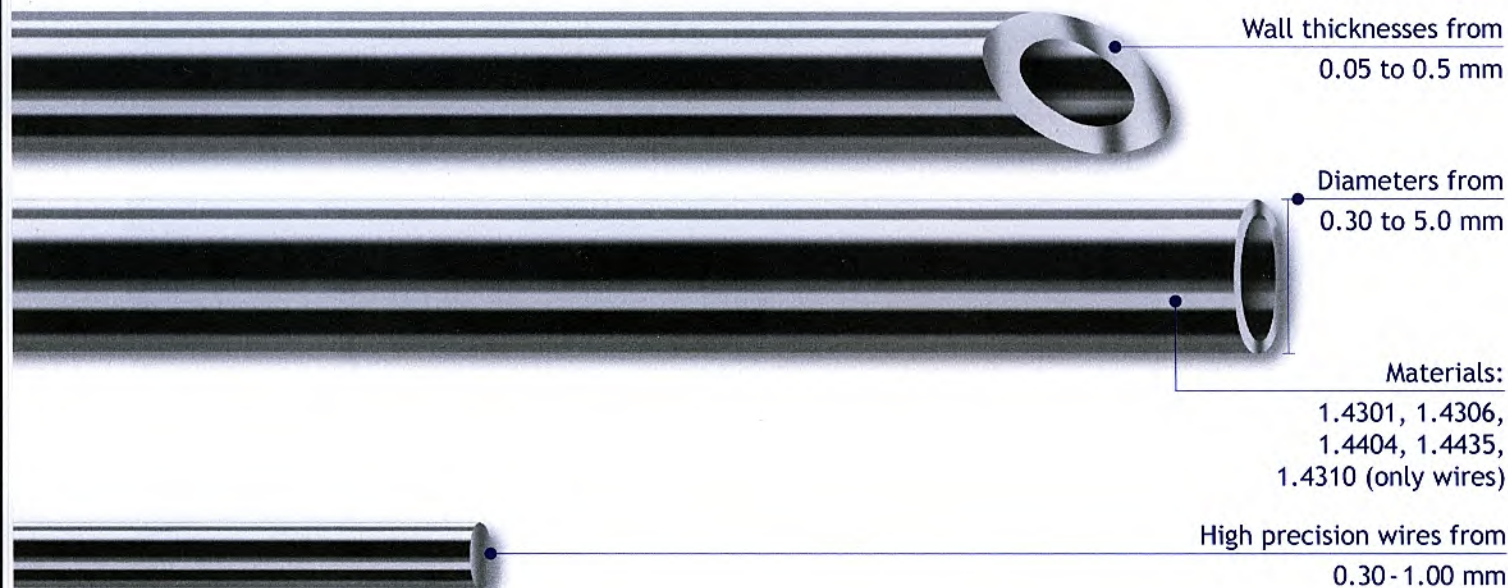
Forward-looking...

...our Quality Management System enables us to systematically plan and improve our processes to meet the evolving needs of our customers. With Certified Industrial Mechanic apprenticeships, we are ensuring a trained workforce for the future.



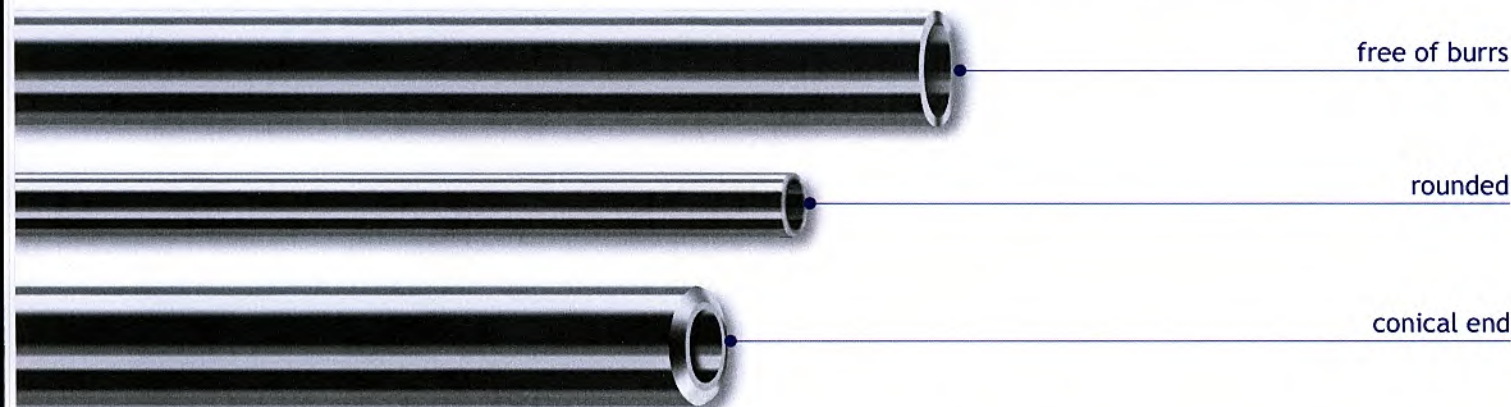
We produce for **medicine & industry**

High precision tubes, wires and cut offs



Available dimensions and materials as listed on the back

High precision tubes and cut offs:



Our tubes are manufactured according to ISO 9626. This guarantees that our customers receive consistently high quality regarding stiffness and breaking strength.

We can also provide intermediate sizes not included on the following table.

On request, we can certify chemical composition, tensile strength and surface roughness in inspection reports according to EN 10 204.

Tensile strength:

Our tubes are available with the following strengths:

hard	Rm > 900 N/mm ²
half-hard	Rm 720 - 900 N/mm ²
annealed	Rm < 720 N/mm ²

We produce for **medicine & industry**

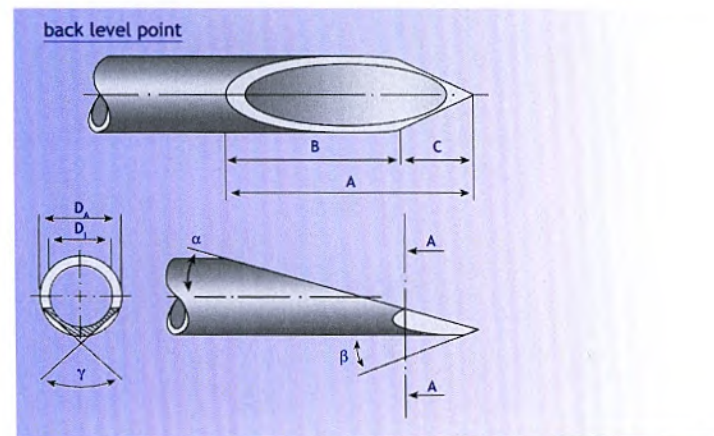
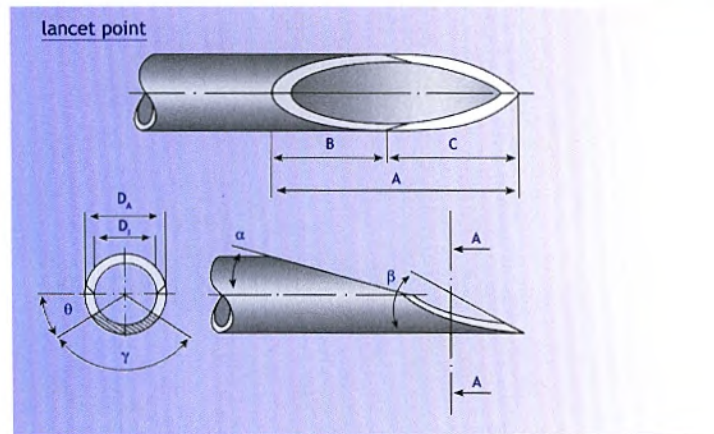
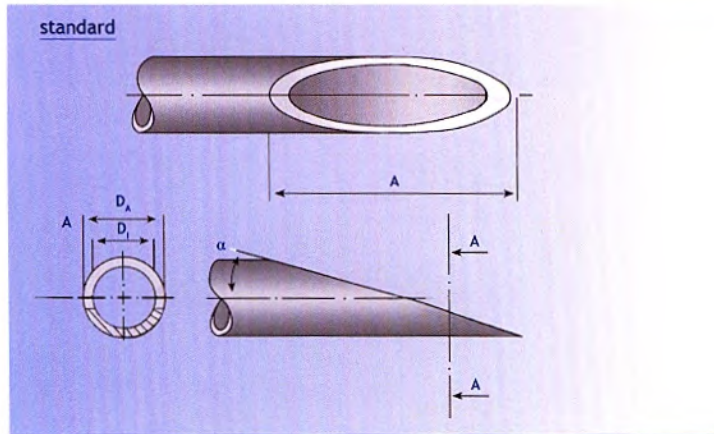
Available qualities, standards and technical data

Material specification	X5 CrNi 18-10	X5 CrNiMo 17 12 2	X2 Cr Ni 19-11	X2 CrNiMo 18 14 3	X10 CrNi 18 8
German specification (EN 10088-2)	1.4301	1.4401/1.4404	1.4306	1.4435	1.4310
International standards	AISI 304	AISI 316 und 316L	AISI 304 L	AISI 316 L	AISI 301
Chemical analysis*					
C	</= 0.07 %	</= 0.07 % (1.4401) </= 0.03 % (1.4404)	</= 0.03 %	</= 0.03 %	</= 0.05 - 0.15 %
Si	</= 1.00 %	</= 1.00 %	</= 1.00 %	</= 1.00 %	</= 2.00 %
Cr	17.5 % - 19.5 %	16.5 % - 18.5 %	18.0 % - 20.0 %	17.0 % - 19.0 %	16.0 % - 19.0 %
Ni	8.0 % - 10.5 %	10.0 % - 13.0 %	10.0 % - 12.0 %	12.5 % - 15.0 %	6.0 % - 9.5 %
Mo	-	2.0 % - 2.5 %	-	2.5 % - 3.0 %	</= 0.80 %
Mn	</= 2.00 %	</= 2.00 %	</= 2.00 %	</= 2.00 %	</= 2.0 %
Characteristics	corrosion resistant in water and hypochloric media	higher resistance against corrosion caused by chlorine ions	higher resistance against intercranular corrosion	higher resistance against acid and intercranular corrosion	corrosion resistant in water and hypochloric media
	good cold forming properties	good cold forming properties	improved cold forming properties	cold forming properties	limited cold forming properties
Application	Medical technology as recommended needle material according to ISO 9626	Medical technology and pharmaceutical industry as recommended needle material according to ISO 9626	Medical technology	Pharmaceutical industry	Medical technology only for high precision wires

* according to EN 10088

Bevelled cannula needles for standard and special cannulae

Standard cannulae according to DIN 13097



- | | |
|--|---|
| D_A : outer diameter | α : primary bevel angle |
| D_i : inner diameter | β : tip angle |
| A: point length | θ : rotation angle |
| C: lancet (back bevel) length | γ : lancet (back bevel) angle |
| extra long tip $\alpha = 9^\circ \pm 1^\circ$ | long tip $\alpha = 12^\circ \pm 1^\circ$ |
| medium-sized tip $\alpha = 15^\circ \pm 1^\circ$ | short tip $\alpha = 18^\circ \pm 1^\circ$ |

Special cannulae

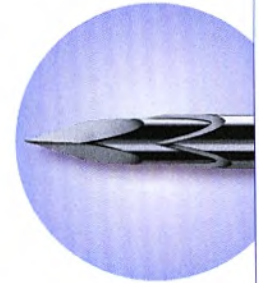
standard biopsy



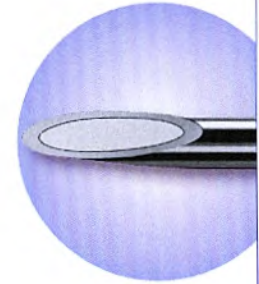
crown core cut



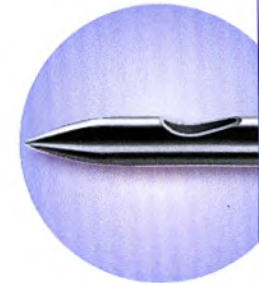
franseen style



epidural needles (toughy)



spinal needles



We produce for **medicine & industry**

Tubular components

A wide selection of machined tubular precision components of various shapes and options forms one sector of our product range. Our extensive range of production techniques provide flexibility to meet new requirements for premium products for medical and technical applications. Our principal production options are shown below:

lateral drilled holes



ground holes



embossed



grooves



beadings



slots



marking



reduced ends



widened ends



ends sandblasted



threaded ends



closed tip



trocac tip



closed trocac tip



bent tubings



Technical modifications reserved

This document may contain information on products that may not be available in particular countries

300-231-0000-1111

We are looking forward to meeting your challenges!