



### An uncompromising quality charter

The entire manufacturing process at ASTRA has been ISO 9001 certified since 2006.



## COMPLETE RANGE: QUALITY & INNOVATION

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 <https://www.youtube.com/watch?v=skH7IM6HOYg>



ORTHOPAEDICS



PARAMEDICAL



PERSONAL SAFETY



INDUSTRY

# ASTRA, THE SPECIALIST IN FLEXIBLE MATERIAL COMPONENTS

For over 40 years, ASTRA has been specialized in cutting edge technology, particularly adapted to orthopaedics, personal safety, paramedical and many other industrial sectors.

## ASTRA is specialized in:

- The manufacturing of components made from flexible materials: Polyetherane, polyvinyl chloride, polyester and polyamide (cutting and assembling)
- High frequency welding
- Silk screen marking

## Our extensive tailor-made services can assist you throughout your project:

- Technical consulting and co-development
- Creation of prototypes
- Pre-series and functional tests
- Manufacturing of series in our workshops
- Customised packaging and delivery



BELTS AND STRAPS



COMFORT CUSHIONS



ORTHOSIS



PROTECTIVE  
ARMBANDS

## A HIGHLY EFFICIENT STRUCTURE, WITH TOP STANDARDS OF QUALITY

Based in the heart of the Rhone Alpes region, Astra possesses the state-of-the-art technology required, as well as a highly competent team, to manufacture products for several industrial partners.



**30 employees**



**3000 m<sup>2</sup>** of industrial equipment specialised in the assembly of flexible materials



**Its own R&D facility**



**More than 50 references** in the paramedical and orthopaedic industry throughout France, Germany, Europe and the world

Astra is a member of **TECHTERA – the Technical Textile and Flexible material Competitiveness Cluster**. Techtera identifies several key areas of strategic action which are invested in by leading businesses who are members of the cluster and renowned for their technological excellence. These areas include **Health, Personal Safety and Transports**.



Production line element for high frequency welding and silk screen marking





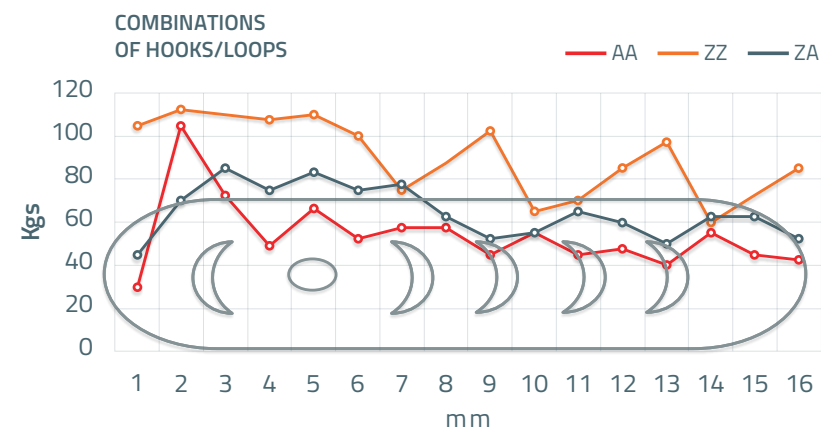
Astra builds components for the majority of custom-made orthotic manufacturers, such as:

- Fastening belts in PVC or PU with high frequency welded velcro, able to withstand repeated use and high temperature washes
- Integrated comfort cushions made of PVC/PU, foam and technical fabrics to optimize comfort.
- Custom made technical orthosis parts

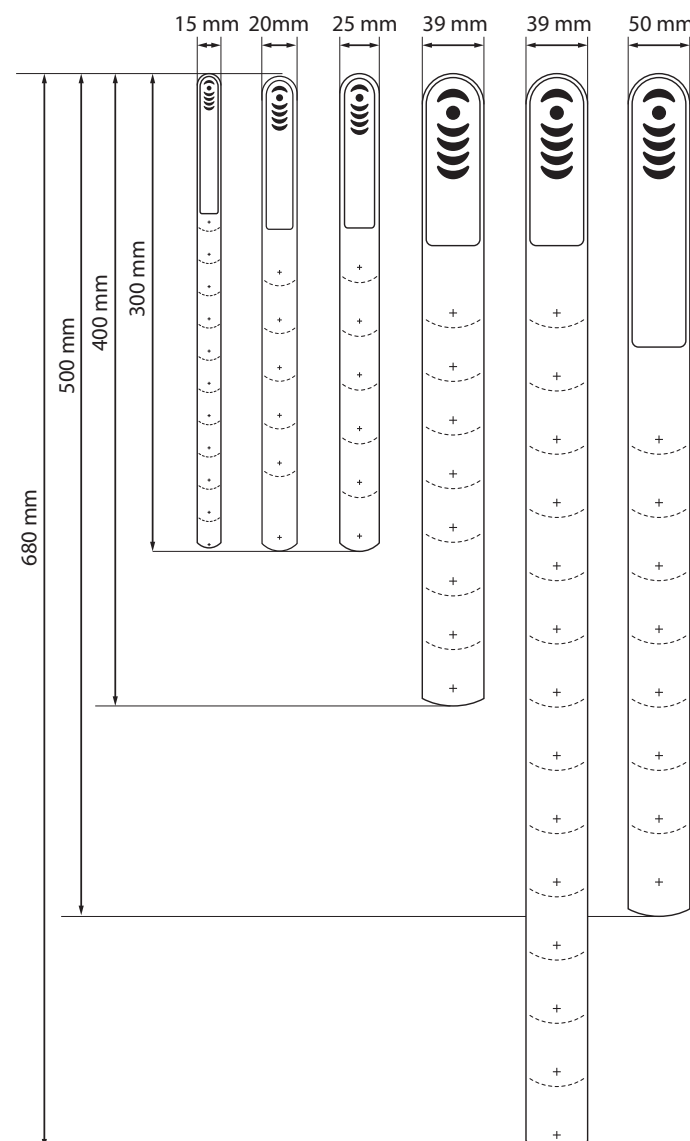
## BELTS / STRAPS



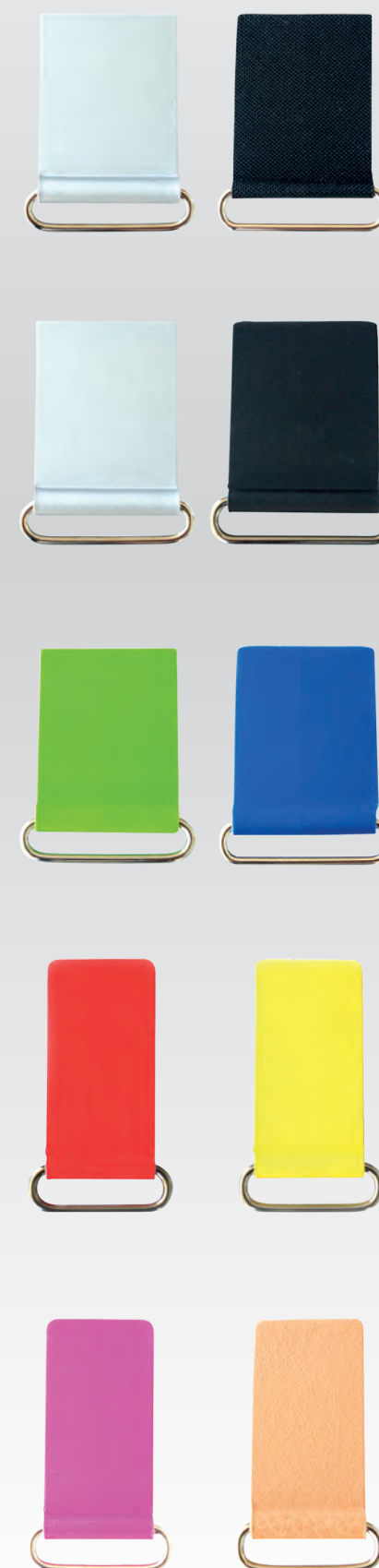
## GRIPPING TEST HOOK/LOOP VS CONTACT ZONE



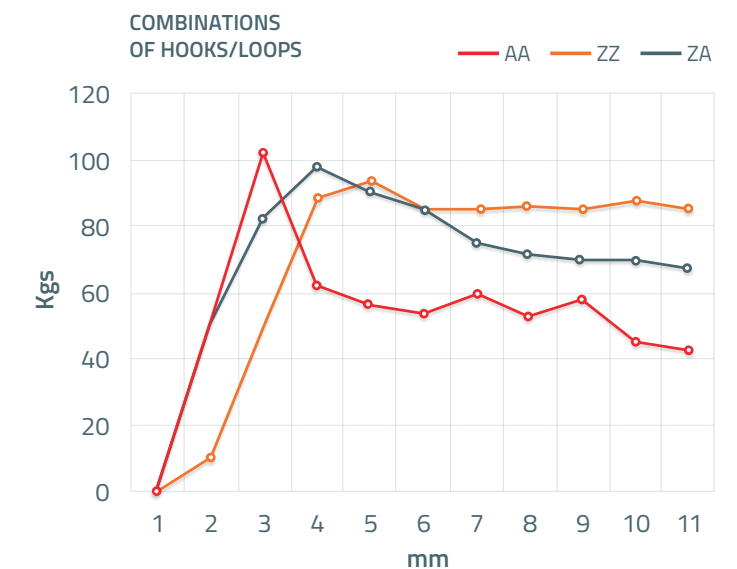
## MEASUREMENTS OF STANDARD BELTS AVAILABLE



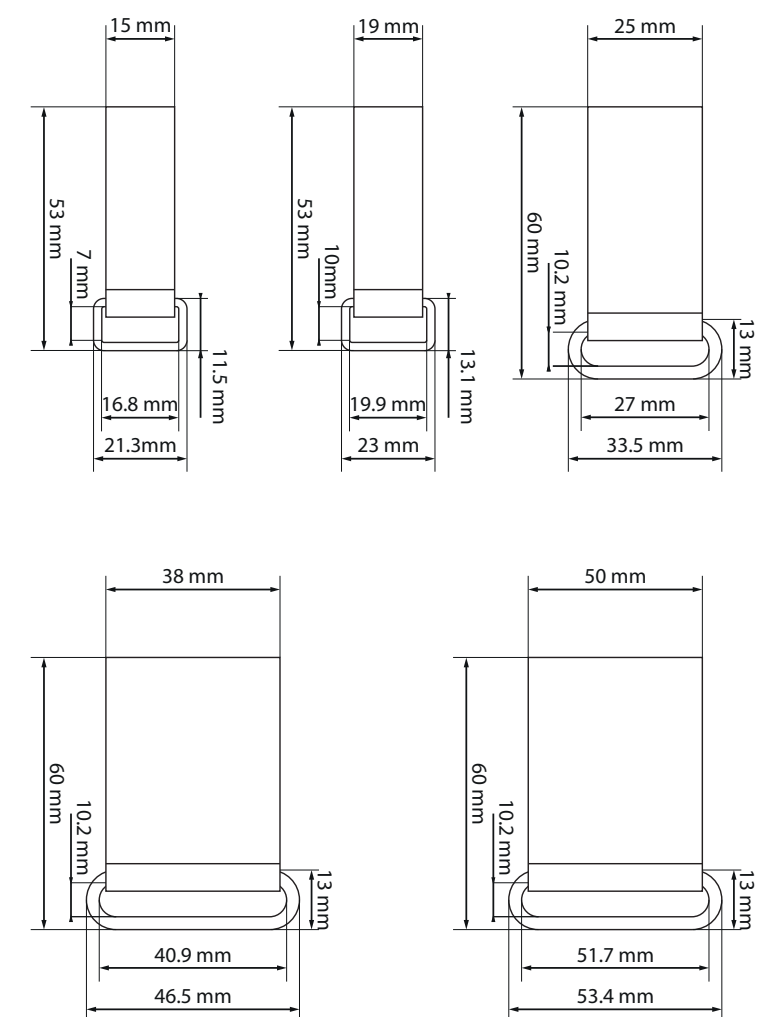
## BELTS AND STRAPS/BUCKLES



## LOOP GRIPPING TEST



## MEASUREMENTS OF STANDARD STRAPS AVAILABLE

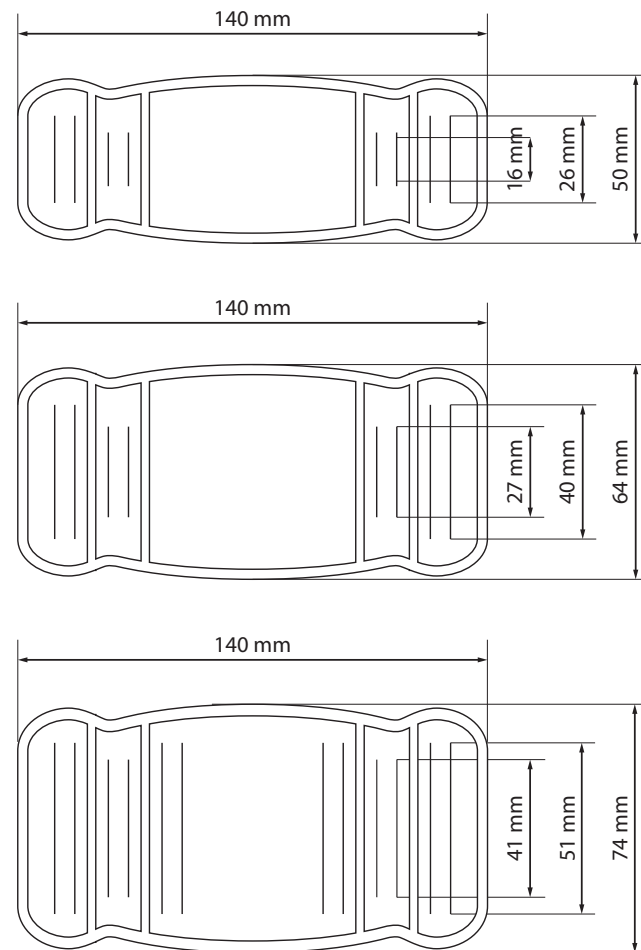




## COMFORT CUSHIONS



## MEASUREMENTS OF STANDARD COMFORT CUSHIONS AVAILABLE



## PARAMEDICAL

ASTRA manufactures parts and sub-assemblies for medical devices:

- Joint and muscle protections
- Components in PVC or PU with integrated pads for orthotics or technical shoes
- First aid kits with PVC and technical fabric



ASTRA manufactures safety accessories and signage products, such as:

- PVC Armbands with HF welded hook and loop systems, retro-reflective, photo-luminescent or plain
- Marked magnetic attachments, with welded and screen printed PVC
- PVC badges and labels with sewed or welded hook and loop systems
- Inflatable elements for individual protection: airbag structure, buoyancy elements
- PVC and fabric protections...

FASTENING STRAP FOR SAFETY SHOE



PVC RETRO-REFLECTIVE AND FLUORESCENT ARMBAND



INFLATABLE ELEMENT



## OTHER INDUSTRIAL SECTORS

ASTRA manufactures parts or sub-assemblies for diverse technical applications:

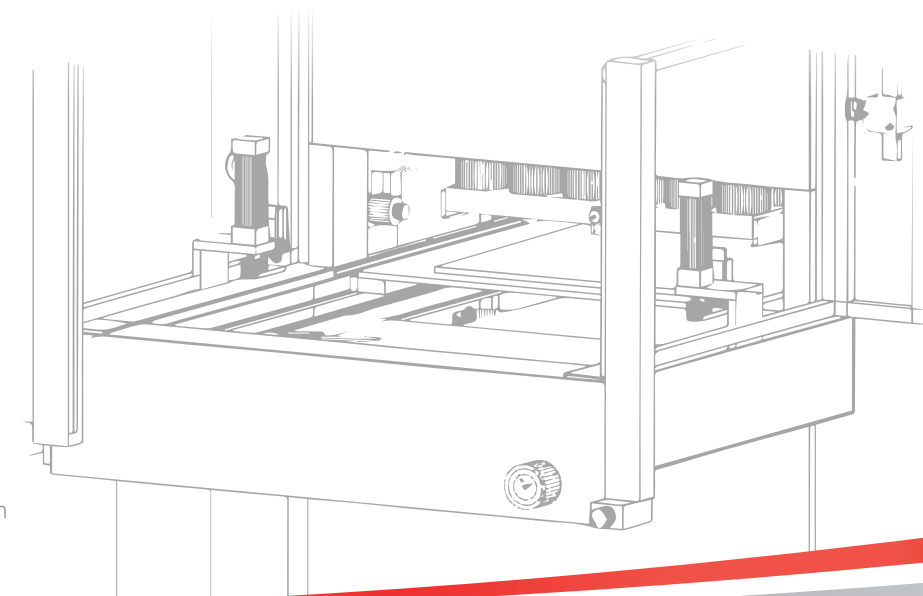
- Welding of liquid or air pockets
- Separation frames for filtration
- Labels for marking and decoration



FILTRATION MEMBRANE



PROTECTIVE EAR PADS FOR HELMETS



HF welding production line element