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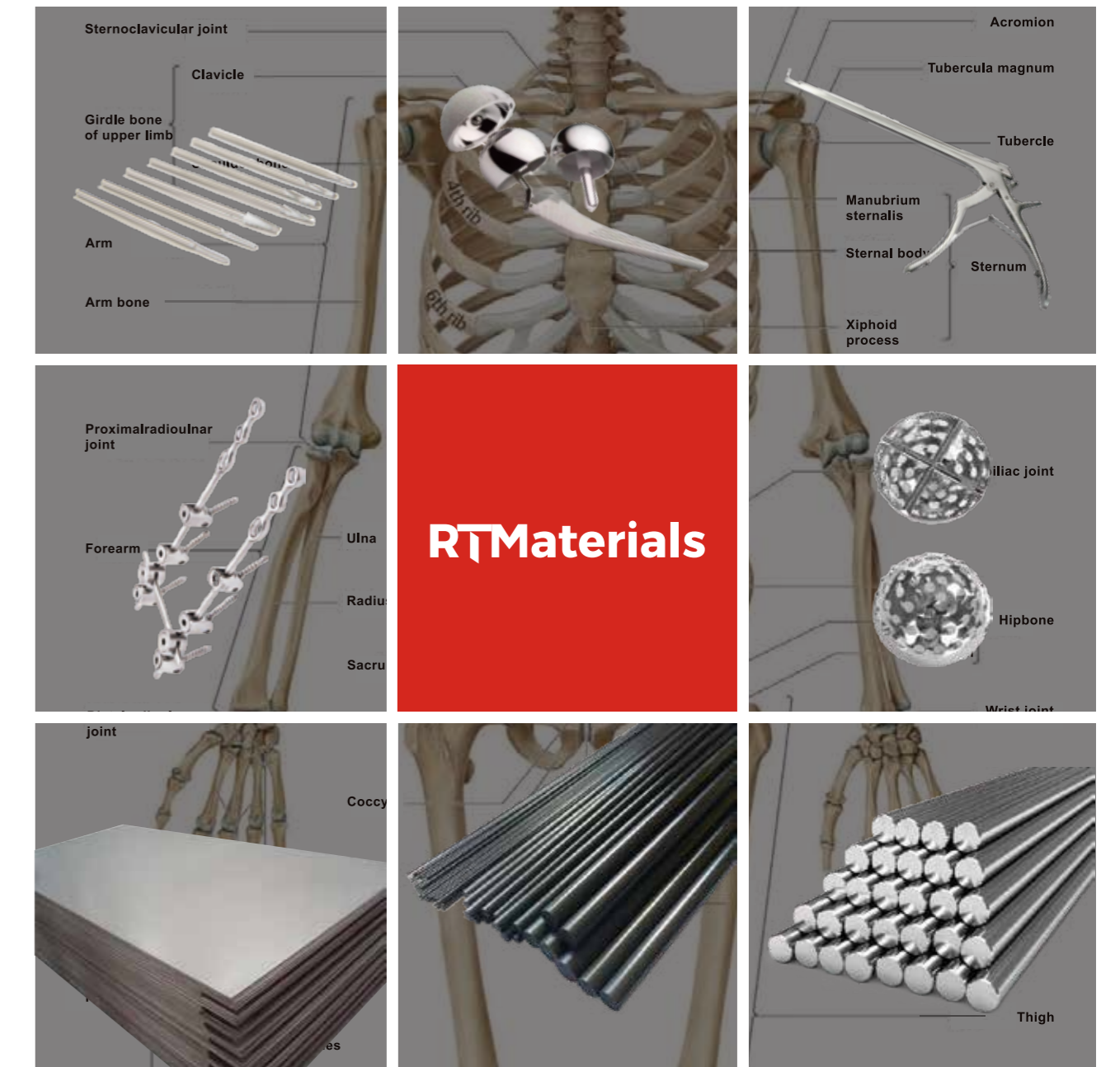
- Yong Xin
- Baosteel
- FuShun Steel
- Tisco
- Tsingshan

Quality Certification



RTMaterials

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- ☎ (0086) 18616558180
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- PROCESSING&DISTRIBUTION OF RAW MATERIALS
- STRINGENT QUALITY CONTROL
- PRODUCTS TAILORED TO NEEDS
- BROAD VARIETY OF PRODUCTS AND ADEQUATE INVENTORY

## Surgical implant materials

|                            | Grade                | Common                        | Specification                        | Available in |
|----------------------------|----------------------|-------------------------------|--------------------------------------|--------------|
| Implant<br>Stainless steel | 316LVM-1.4441        | 00Cr18Ni14Mo3                 | ASTMF138 F139-ISO5832-1\ GB4234-2017 | ○ ▭ ▯        |
|                            | 1.4472-High Nitrogen | X4CrNiMoN21-9-4               | ASTMF1586ISO5832-9                   | ○            |
| Cobalt base<br>alloy       | CoCr28Mo(forge)      | CCM                           | ASTMF1537ISO5832-12Alloy1/2          | ○ ⦿          |
|                            | Co-Ni-Cr-Mo          | MP35N                         | AMS58447/ISO5832-6                   | ○            |
| Rare Material              | Co-Ni-W-CO-2.4964    | L-605                         | ASTMF1907ISO5832-5\ EN10204          | ○            |
|                            | Nitinol(NiTi alloy)  |                               | ASTMF2063                            | ○ ▭ ▯        |
| Titanium alloy             | Tantale              |                               | ASTMF560\ISO13782                    | ○ ⦿          |
|                            | Ti6Al4V Eli-Grade23  | TC4/TC4ELI                    | ASTMF136\ISO5832-3\ ASTM B348        | ○ ▭ ⦿        |
|                            | Ti6Al7Nb             | TC20                          | ASTMF67\ISO5832-11                   | ○            |
|                            | Tipur Grade2-3.7065  | TA2                           | ASTMF67\ISO5832-2                    | ○ ▭          |
| Plastics                   | Ti-pur Grade4-3.7065 | TA4                           | ASTMF67\ISO5832-2                    | ○ ▭          |
|                            | X-PE                 | UHMWPE synthesis requirements | ASTMF2565-2013YY/ T0811-2010         | ○            |
|                            |                      | UHMWPE Powder                 | ISO5834-1-2019/ ISO5834-2-2019       | ⦿            |
|                            | VE-XL-PE             | UHMWPE blended with Vitamin E | ASTMF2695-2012YY/ T0811-2010         | ○            |
|                            |                      | UHMWPE with Vitamin E Powder  | ASTMF2695-2012                       | ⦿            |
|                            | PEEK                 | PEEK for implants             | ASTMF2026-17,YY/ T 0660-2008         | ○            |

**Product forms:**

- Round bar ○
- Flat bar ▭
- Strip ▯
- Tube ▯
- Powder ⦿

**Orthopedic implant materials** which require high smelting purity and compliance with ASTM or ISO standards are divided into two main types:

**01** Titanium and its alloys are widely used as **biomaterials**

**02** Stainless steels and **CoCrMo** alloys are widely used as **bone cements**

**Purity Ti(TA2/TA4)** with cold worked/annealed process is used for dental implants. We also supply titanium powder, stainless steel powder, cobalt-chromium-molybdenum powder for dental implants, orthopedic implants and other uses.



**Mentime**, we can supply Implant plastics of peek and UHMWPE bars.



## Stainless steel surgical instruments

|                                  | Grade             | Common                          | Specification                      | Available in |
|----------------------------------|-------------------|---------------------------------|------------------------------------|--------------|
| Martensite<br>Stainless Steel    | AISI420A-1.4021   | X20Cr13                         | ASTMF899\EN10088-3                 | ○ ▭          |
|                                  | AISI420B-1.4028   | X30Cr13                         | ASTMF899\EN10088-3                 | ○ ▭ ▯        |
|                                  | AISI420C-1.4034   | X46Cr13                         | ASTMF899                           | ○            |
|                                  | AISI420Mod-1.4123 | X15TN\ X40CrMoVN16-2            | ASTMF899\ASTMA276                  | ○ ▭ ▯        |
| Precipitation<br>Stainless Steel | AISI630-1.4542    | 17-4ph\ X5CrNiCuTiNb12-9        | ASTMF899EN10088-3\ ASTMA564 AMS564 | ○ ▭ ▯        |
|                                  | C455              | Custom455@_ X3CrNiCuNb12-9      | ASTMF899\ASTMA564\ AMS5617         | ○ ▭          |
|                                  | C465              | Custom465@_ X2CrNiMoAlTi12-11-2 | ASTMF899\AMS5936                   | ○ ▭ ▯        |
|                                  | 13-8Mo            | 13-8PH                          | ASTMA564\AMS5629H                  | ○ ▭          |
|                                  | 303/304           | X2CrNi19-11 1.4306107           | ASTMF899\ASTMA959                  | ○ ▭ ▯        |
| Plastics                         | 316L/630          | 1.4404,1.4435,1.4542            | ASTMF899\ASTMA959                  | ○ ▭ ▯        |
|                                  | PTFF              | PTFF                            | QB/T4041-2010                      | ○            |
|                                  | POM               | POM                             | ASTMD6778                          | ○            |
|                                  | PPSU              | Poly Sulfone                    | ASTMD6394                          | ○            |
|                                  | PFCC41            | PFCC41 Caminated bor            | GB/T51325-2009                     | ○            |

**Product forms:**

- Round bar ○
- Flat bar ▭
- Strip ▯
- Tube ▯
- Powder ⦿

### Precipitation hardening stainless steel

(Type 17-4ph/630 is most commonly used, as well as 455, 465 and 13-8 Mo.)

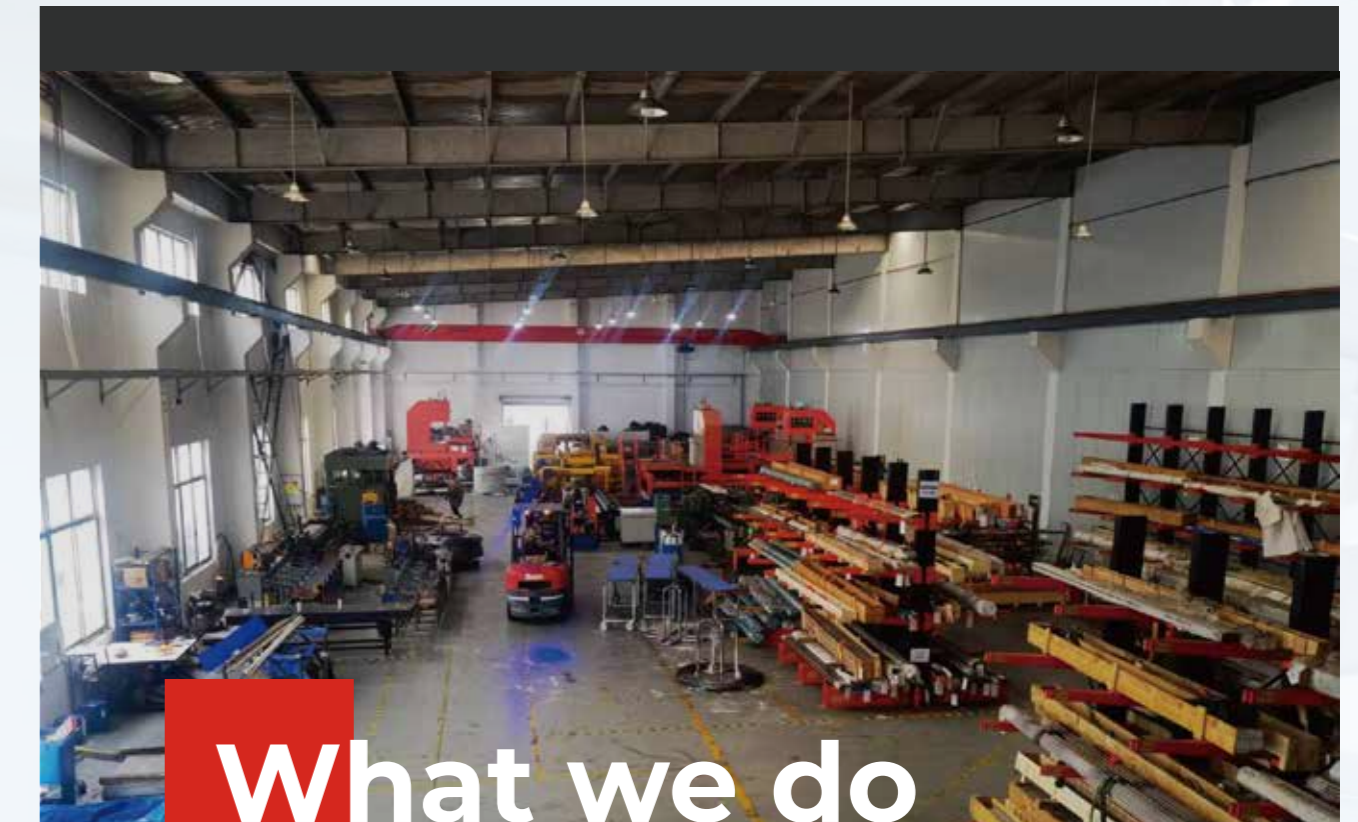


### Martensitic stainless steel

(Type 420 is most commonly used, as well as 420B/J2, 420Mod-X15TN)



**Grade 303Cu/304/316L/630**, various types of tubes are available according to customer's Spec.



# What we do

We have been providing solutions that enhance our customers' manufacturing processes since our establishment in 2009. With over ten years of experience, we are now a leading manufacturer and distributor of quality materials for surgical instruments and medical implants used in trauma, spine, sports medicine and joint. We have been certified to ISO9001 and ISO13485 (medical devices) and are widely recognized by our client throughout the country.

# Who we are

We are a manufacturer and distributor of precision raw materials and preparation services. We have procured high efficiency sawing machines, milling machines, grinding machines and other equipment to provide customized services.