

## PIPING SYSTEM PTE LTD



STAINLESS STEEL SEAMLESS PIPES & TUBES / 不锈钢无缝钢管

SS WELDED PIPES & TUBES / 不锈钢焊接钢管

SS BUTTWELD FITTINGS / 不锈钢管件

SS BRIGHT ANNEALING TUBES / 不锈钢光亮管

SS BRIGHT BARS / 不锈钢光亮棒

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产品介绍

MAJOR PRODUCTS

产品尺寸 / PRODUCT SIZE

| 产品 Products                                     | 外径 OD   | 壁厚 WT     | 长度 Length |
|-------------------------------------------------|---------|-----------|-----------|
| 不锈钢无缝钢管<br>Stainless Steel Seamless Pipe & Tube | 6-813mm | 0.5-60mm  | Max 55m   |
| U型管 U-Bent Tubes                                | 6-32mm  | 0.5-3.5mm | Max 26m   |

产品和牌号 / PRODUCT AND GRADES

| 钢种 Types                                                  | 牌号 Grades                                                                                                                                                                                         |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 奥氏体不锈钢<br>Austenitic Stainless Steel                      | TP304,TP304L,TP304H,TP316,TP316L,TP316H,TP316Ti,TP316LN,TP321,TP321H,TP347H,TP347HFG,TP310S,TP310H,TP317,TP317L,TP316LMo $\geq$ 2.5, etc.                                                         |
| 超级奥氏体不锈钢<br>Super Austenitic Stainless Steel              | N08904,N08367,S31254, S30432                                                                                                                                                                      |
| 铁素体/奥氏体双相不锈钢<br>Ferrite-Austenitic Duplex Stainless Steel | S31500,S32001,S30815,S31803,S32205,S32750,S32760                                                                                                                                                  |
| 镍基合金 Ni-Alloy                                             | N02200,N02201,N04400,N05500,N06600,N06601,N06625,N06617,N07718,N08800,N08810,N08811,N08028,N08825,N10276,N06455,N06022,N6200,N10665,N10675,N06002,N06030,N07750,N08020,N08925,N08367,N08926,N8366 |
| API耐蚀合金<br>API Corrosion Resistant Alloy                  | LC30-1812,LC65-2205,LC65-2506,LC80-2507,LC30-2242                                                                                                                                                 |

注：可按照用户需求设计、生产，满足用户个性化需要的产品。



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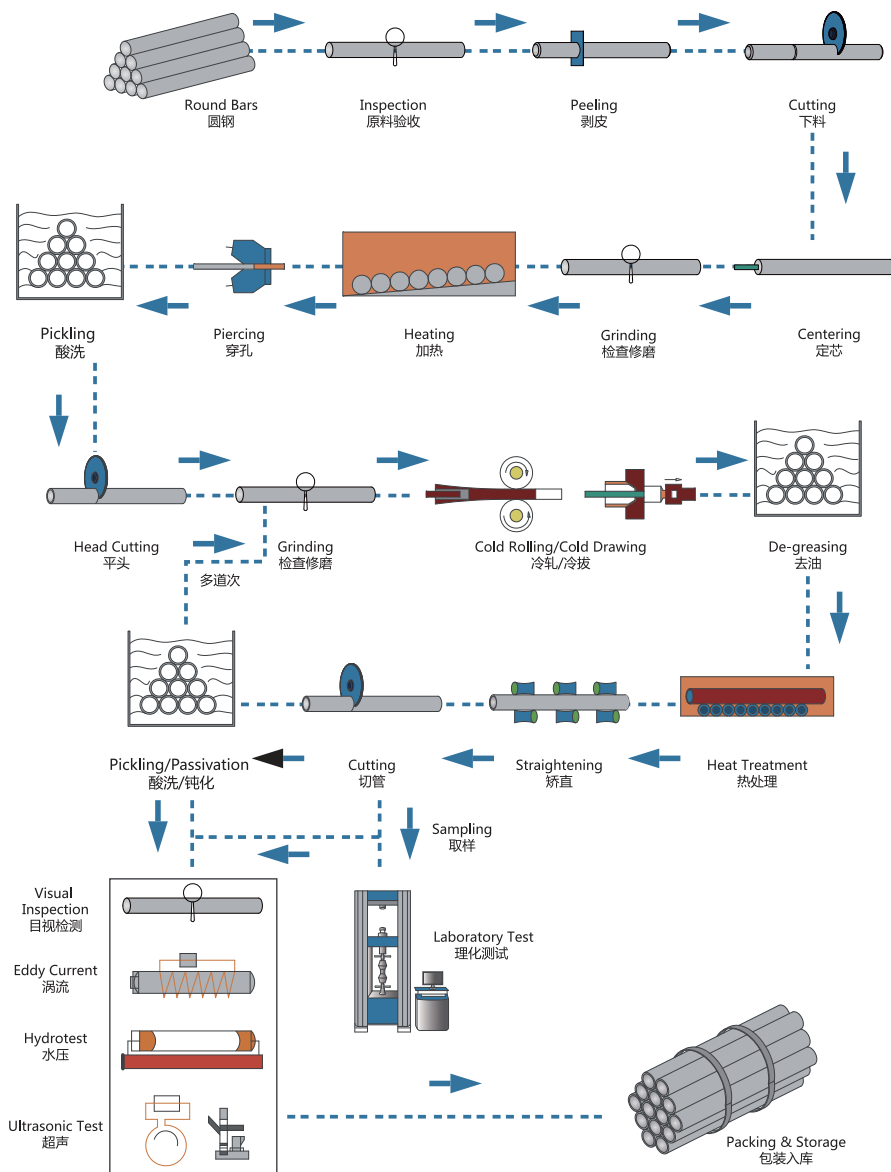
产品标准 / PRODUCT STANDARDS

| 标准类型<br>Standard Types | 生产标准<br>Standard                                                                                                                                                |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ASTM                   | ASTM A312 , ASTM A213 , ASTM A269 , ASTM A376 , ASTM A511 ,<br>ASTM A789 , ASTM A790 , ASTM B163 , ASTM B167 , ASTM B407 ,<br>ASTM B423 , ASTM B444 , ASTM B677 |
| ASME                   | ASME SA312 , ASME SA789 , ASME SA790 , ASME SA376 , ASME SA213 ,<br>ASME SB163 , ASME SB167 , ASME SB407 , ASME SB423 , ASME SB444 ,<br>ASME SB677              |
| API                    | API 5LC                                                                                                                                                         |
| JIS                    | JIS G3459 , JIS G3463                                                                                                                                           |
| EN                     | EN 10216-5 , EN 10216-2                                                                                                                                         |
| GOST                   | GOST 5632-72 , GOST 9941-81                                                                                                                                     |
| GB                     | GB/T 14975 , GB/T 14976 , GB 13296 , GB 5310 , GB 9948 ,<br>GB/T 21833                                                                                          |
| DIN                    | DIN 17456 , DIN 17458                                                                                                                                           |
| 船级社认证<br>IACS          | ABS , CCS , DNV•GL , LR , RINA , BV , KR                                                                                                                        |



生产工艺流程

MANUFACTURING PROCESS



不锈钢焊接钢管 / SS WELDED PIPES & TUBES

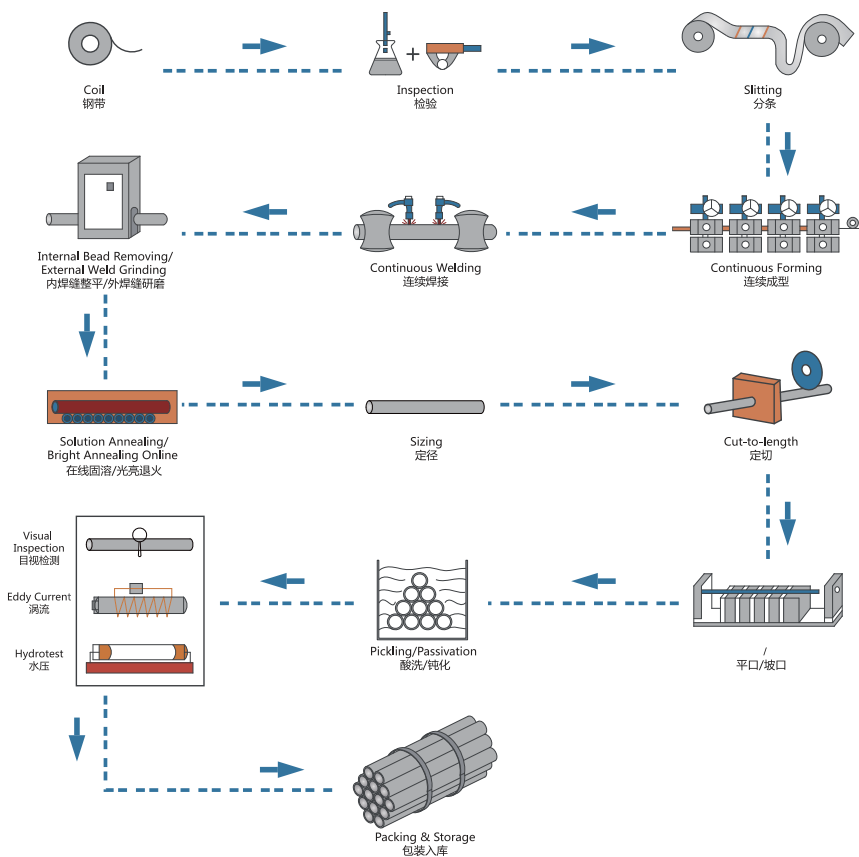
主要生产能力

PRODUCTION CAPACITY

| 产品名称<br>Product Name                                                                                    | 执行标准<br>Standard                                                                                                                                                                        | 外径范围 ( mm )<br>Outer Diameter                                                                                                                                                                                                            | 壁厚范围 ( mm )<br>Wall Thickness                                                                                                               | 长度范围 ( mm )<br>Length                                                                                                         | 年产量(T)<br>Annual Output |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 工业配管用<br>不锈钢焊管<br>SS Welded<br>Pipes & Tubes<br>for Industrial<br>Use                                   | ASTM : A312、<br>A358、A790、<br>A928、A268、<br>A269<br><br>API : API Spec5LC<br><br>EN : EN 10217-7<br><br>JIS:G3459、 G3468<br><br>GB : GB/T 12771、<br>GB/T 21832<br><br>HG:HG 20537.1 ~ 4 | 连续成型焊管<br>Continuously welded<br>pipes & tubes<br>12-762<br><br>单支成型直缝焊管<br>Longitudinally welded<br>pipes after bending<br>426-2440<br><br>单支成型环缝焊管，<br>最大外径3048<br>Circumferentially welded<br>pipes after bending;<br>maximum OD 3048 | 连续成型焊管5S ~ 40S<br>( 1.24~13 )<br>Continuously welded<br>pipes & tubes<br><br>单支成型焊管<br>Welded pipes after<br>bending<br>5S ~ XXS ( 3 ~ 60 ) | 连续成型焊管<br>3000 ~ 12000<br>Continuously welded<br>pipes & tubes<br><br>单支成型焊管<br>Welded pipes after<br>bending<br>1000 ~ 12000 | 25000                   |
| 机械结构用不锈<br>钢焊管<br>SS Welded<br>Pipes & Tubes<br>for Mechanical<br>Use                                   | ASTM A554<br>GB/T 12770<br>JIS G3446<br>EN 10217-7                                                                                                                                      | 12 ~ 325                                                                                                                                                                                                                                 | 0.5 ~ 10                                                                                                                                    | 3000 ~ 12000                                                                                                                  | 5000                    |
| 锅炉热交换器、<br>冷凝器用不锈<br>钢焊管<br>SS Welded<br>Pipes & Tubes<br>for Boiler Heat<br>Exchanger and<br>Condenser | ASTM A249<br>JIS G3463<br>DIN 17457<br>EN 10217-7<br>GB/T 24593                                                                                                                         | ASTM A249<br>19.1 ~ 101.6<br><br>其它标准<br>other standards<br>(15.9 ~ 219.08)                                                                                                                                                              | ASTM A249<br>0.5 ~ 3<br><br>其它标准<br>other standards<br>0.5 ~ 6                                                                              | 3000 ~ 18000                                                                                                                  | 3000                    |
| 给水用不锈<br>钢焊管<br>SS Welded<br>Pipes & Tubes<br>for Water<br>Supply                                       | JIS G3448<br>EN 10312<br>GB/T 12771<br>GB/T 19228<br>CJ/T 151                                                                                                                           | 10 ~ 406                                                                                                                                                                                                                                 | 0.6 ~ 6                                                                                                                                     | 3000 ~ 12000                                                                                                                  | 2000                    |

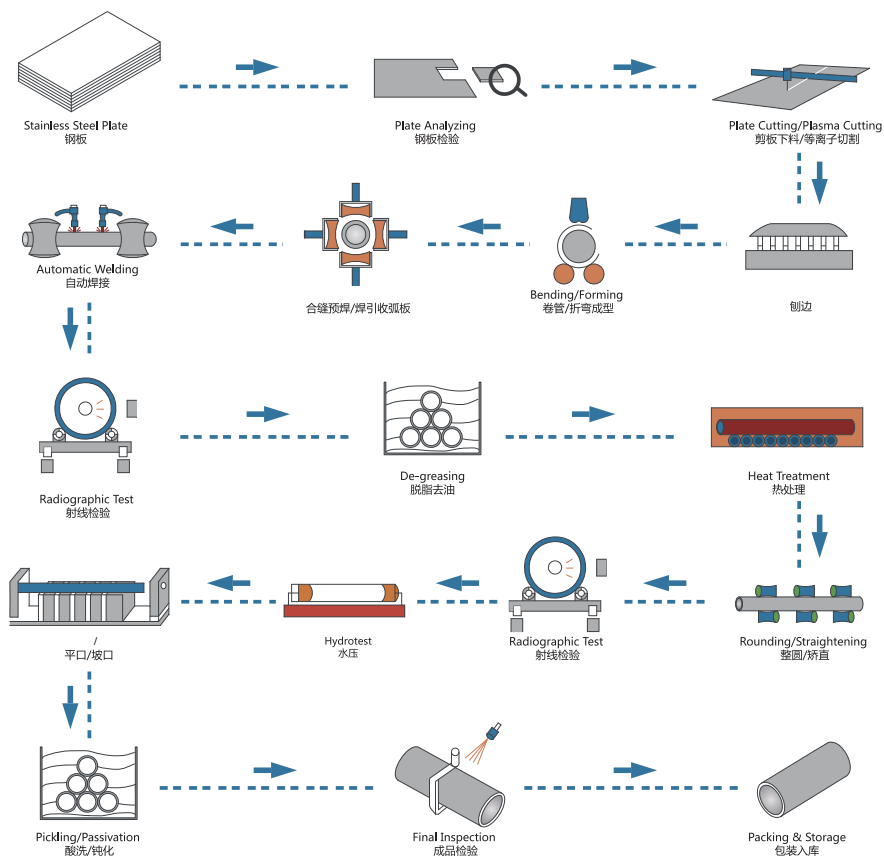
连续成型焊管生产工艺流程

CONTINUOUS MANUFACTURING PROCESS  
OF WELDED PIPES & TUBES



# 单支成型焊管生产工艺流程

## BENDING PROCESS OF WELDED PIPES



我们的产品

OUR PRODUCTS



CROSS  
四通



CAP  
管帽



45° LR ELBOW  
45度长径弯头



EQUAL TEE  
等径三通



90° LR ELBOW  
90度长径弯头



STUB END  
翻边



ECCENTRIC  
REDUCER  
偏心大小头



90° SR ELBOW  
90度短径弯头



REDUCING TEE  
异径三通



180° RETURN  
180度弯头



CONCENTRIC  
REDUCER  
同心大小头



生产范围 / PRODUCTION RANGE

尺寸/Size: Seamless Fittings from 1/2" to 24"

Welded Fittings from 1/2" to 60"

类型/Type: WP-S WP-W WP-WX

材质/Grade: WP304 WP304L WP310S WP316 WP316L  
WP321 WP321H WP347H S31803 S32205 1.4301 1.4307 1.4845  
1.4401 1.4404 1.4541 1.4571

标准/Specification: GB/T 12459, GB/T 13401, SH 3408, SH 3409,  
ASTM A403, ASTM A815, ASME SA403, ASME SA815,  
ASME B16.9, ASME B16.28, ASME B16.25, EN10253-4

我们的产品

OUR PRODUCTS



生产范围 / PRODUCTION RANGE

类型/Type: SW&NTP Threaded Fittings

尺寸/Size: From 1/8" to 4"

压力/Class: 2000#,3000#,6000#,9000#

材质/Grade: F304 F304L F304H F310 F310H F316 F326L F321 F321H F904L F51 F53

标准/Specification: ASTM A182/ASME SA182, ASME B162.11, MSS SP-83, MSS SP-97, GB/T 14383

类型/Type: Forged Flanges

尺寸/Size: From 1/2" to 24"

压力/Class: 150#,300#,600#,900#,1500#,2500#  
压力/PN: PN 2.5,PN,PN10,PN16,PN25,PN40,PN63, PN100,PN160,PN250,PN320,PN400

材质/Grade: F304 F304L F304H F310 F310H F316 F316L F321 F321H F904L F51 F53

标准/Specification: ASTM A182/ASME SA182, ASME B16.5, ASME B16.47, ASME B16.48, EN 1092-1,GB/T9112-GB/T 9124,HG/T 20592, HG/T 20615, HG/T20623, HG/T 21547

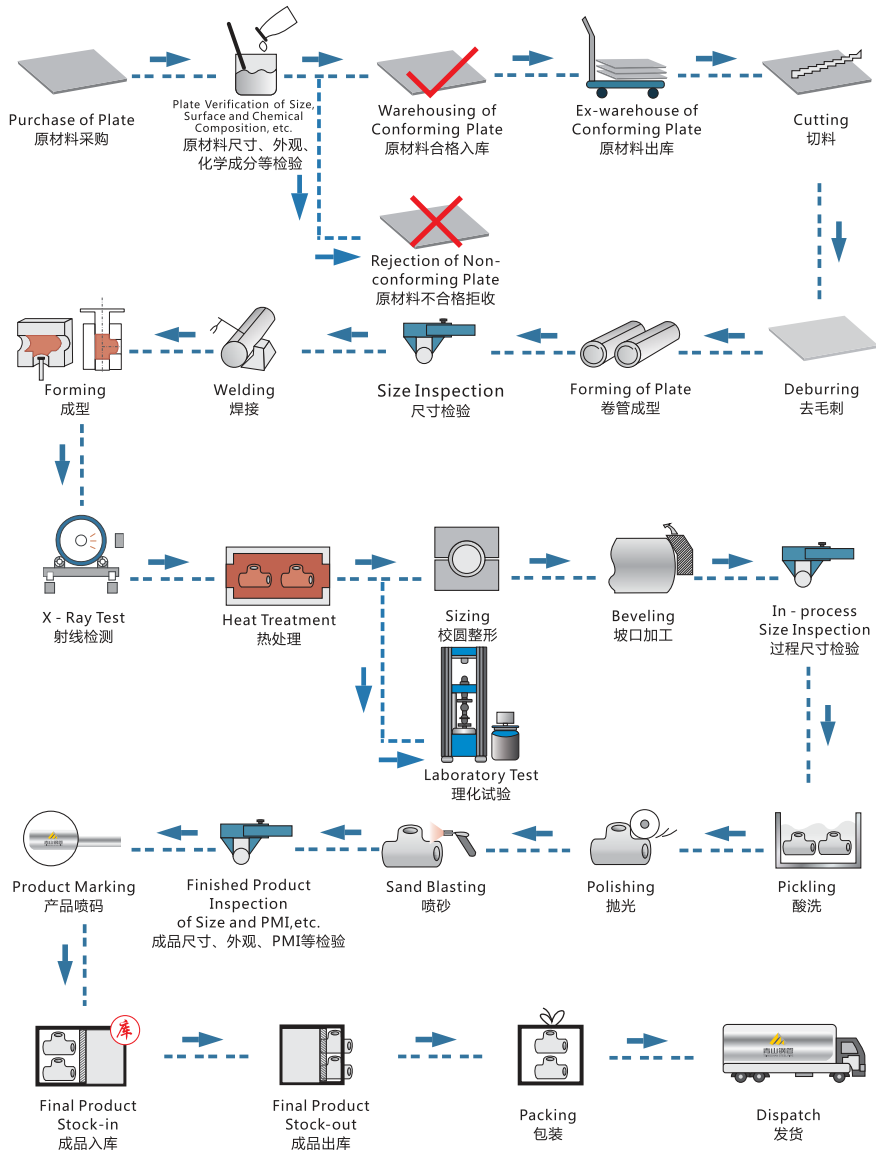
PIPING SYSTEM PTE LTD

常用牌号 / GENERAL GRADES

| 类型<br>Series                                   | ASTM     | UNS<br>Designation | GB (2017版)     | GB (1992版)    | EN     | JIS      |
|------------------------------------------------|----------|--------------------|----------------|---------------|--------|----------|
| 奥氏体<br>不锈钢<br>Austenitic<br>Stainless<br>Steel | WP304    | S30400             | 06Cr19Ni10     | 0Cr18Ni9      | 1.4301 | SUS304   |
|                                                | WP304L   | S30403             | 022Cr19Ni10    | 00Cr19Ni10    | 1.4307 | SUS304L  |
|                                                | WP304H   | S30409             | -              | -             | -      | SUS304H  |
|                                                | WP316    | S31600             | 06Cr17Ni12Mo2  | 0Cr17Ni12Mo2  | 1.4401 | SUS316   |
|                                                | WP316L   | S31603             | 022Cr17Ni12Mo2 | 00Cr17Ni14Mo2 | 1.4404 | SUS316L  |
|                                                | -        | -                  | -              | -             | 1.4571 | SUS316Ti |
|                                                | WP317L   | S31703             | 022Cr19Ni13Mo3 | 00Cr19Ni13Mo3 | -      | SUS317L  |
|                                                | WP321    | S32100             | 06Cr18Ni11Ti   | 0Cr18Ni10Ti   | 1.4541 | SUS321   |
|                                                | WP321H   | S32109             | 07Cr19Ni11Ti   | -             | -      | SUS321H  |
|                                                | WP310S   | S31008             | 06Cr25Ni20     | 0Cr25Ni20     | 1.4845 | SUS310S  |
|                                                | WP347    | S34700             | 06Cr18Ni11Nb   | 0Cr18Ni11Nb   | -      | SUS347   |
|                                                | WP347H   | S34709             | 07Cr18Ni11Nb   | -             | -      | SUS347H  |
|                                                | WP904L   | N08904             | -              | -             | 1.4539 | -        |
|                                                | WPS31254 | S31254             | -              | -             | -      | -        |
| 双相钢<br>Duplex                                  | WPS31803 | S31803             | -              | 0Cr26Ni5Mo2   | 1.4462 | -        |
|                                                | WPS32205 | S32205             | -              |               | 1.4462 | -        |
|                                                | WPS32750 | S32750             | -              |               | -      | -        |
|                                                | WPS32760 |                    | -              |               | -      | -        |

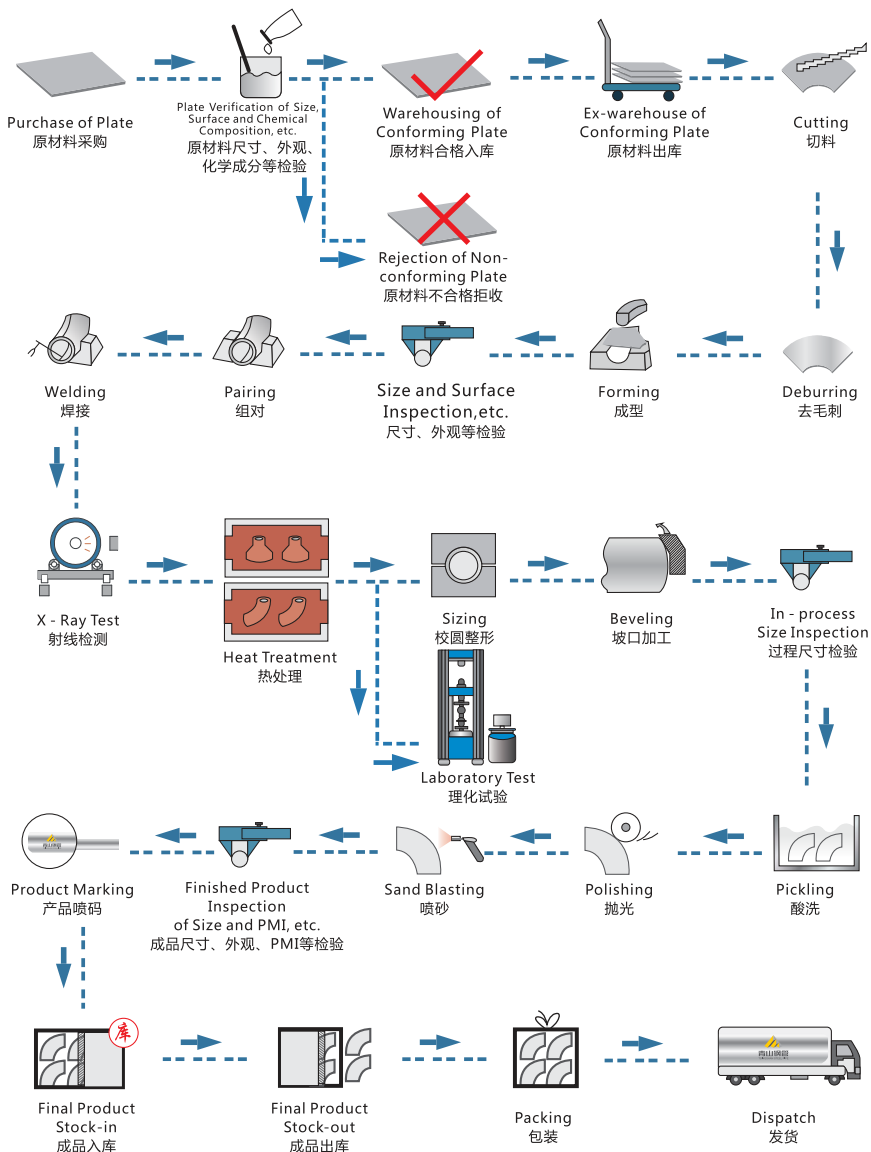
# 钢板制三通管件生产工艺流程

## PROCESS FLOW CHART FOR WELDED TEES



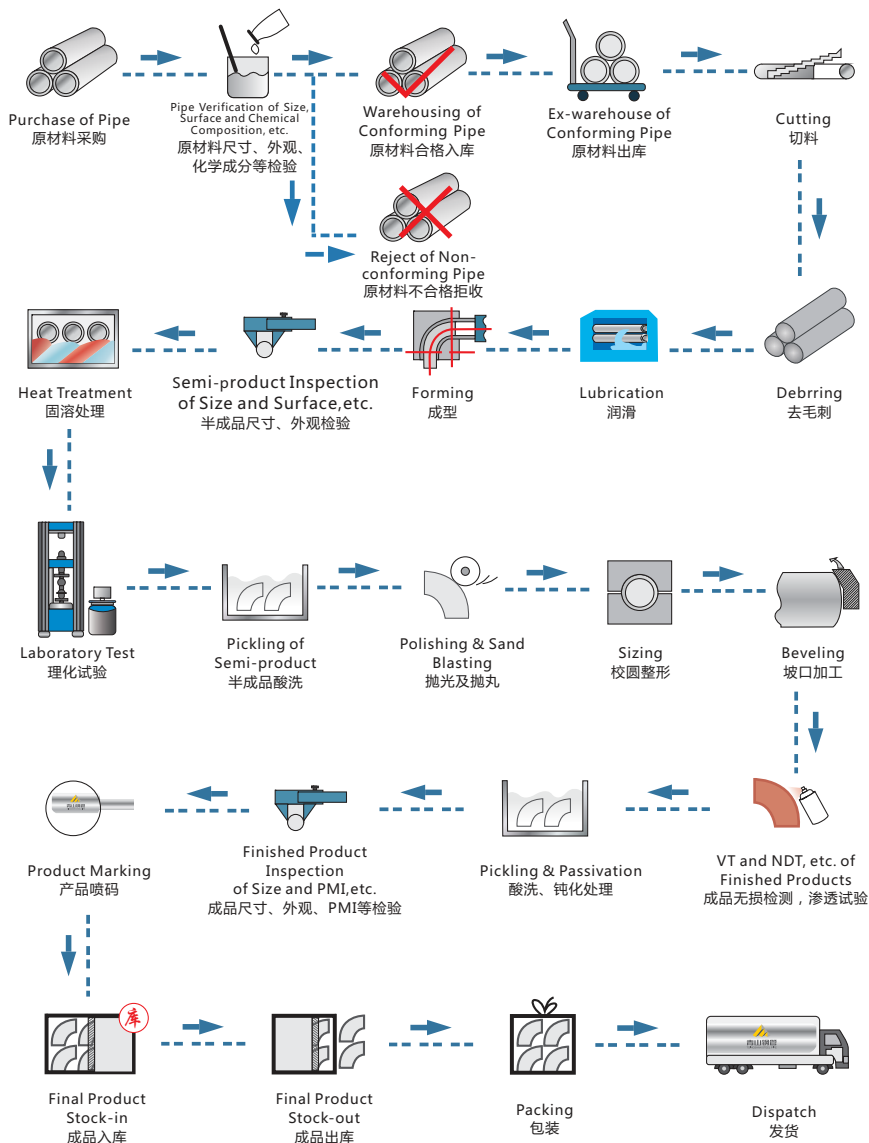
# 钢板制弯头、大小头生产工艺流程

## PROCESS FLOW CHART FOR WELDED ELBOW AND REDUCER



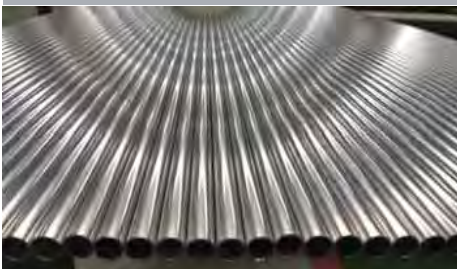
管制管件生产工艺流程(弯头、三通、大小头和管帽)生产工艺流程

PROCESS FLOW CHART FOR SEAMLESS TEE, ELBOW, REDUCER AND CAP



产品概况

PRODUCTS

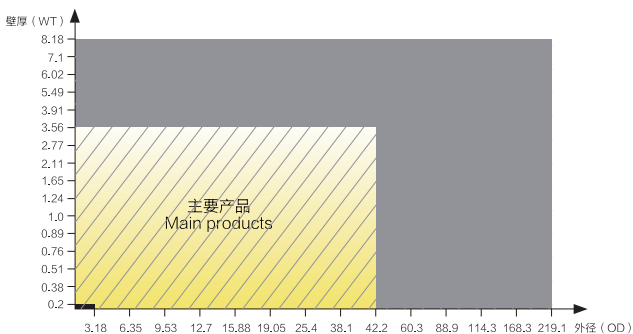


光亮管 / BA TUBES

产品规格生产范围 Product range

外径 (OD) : 3.18-219.1mm

壁厚 (WT) : 0.2-8.18mm



## 产品概况

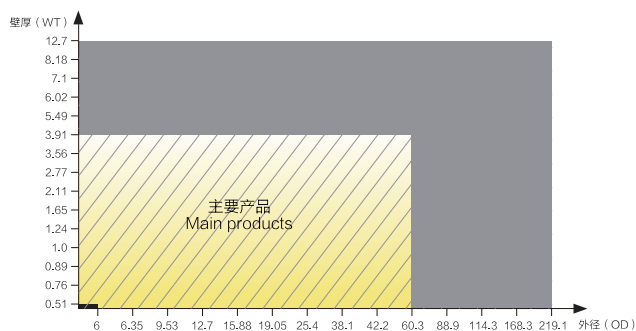
## PRODUCTS

### 抛光管 / POLISHED TUBES

产品规格生产范围 Product range

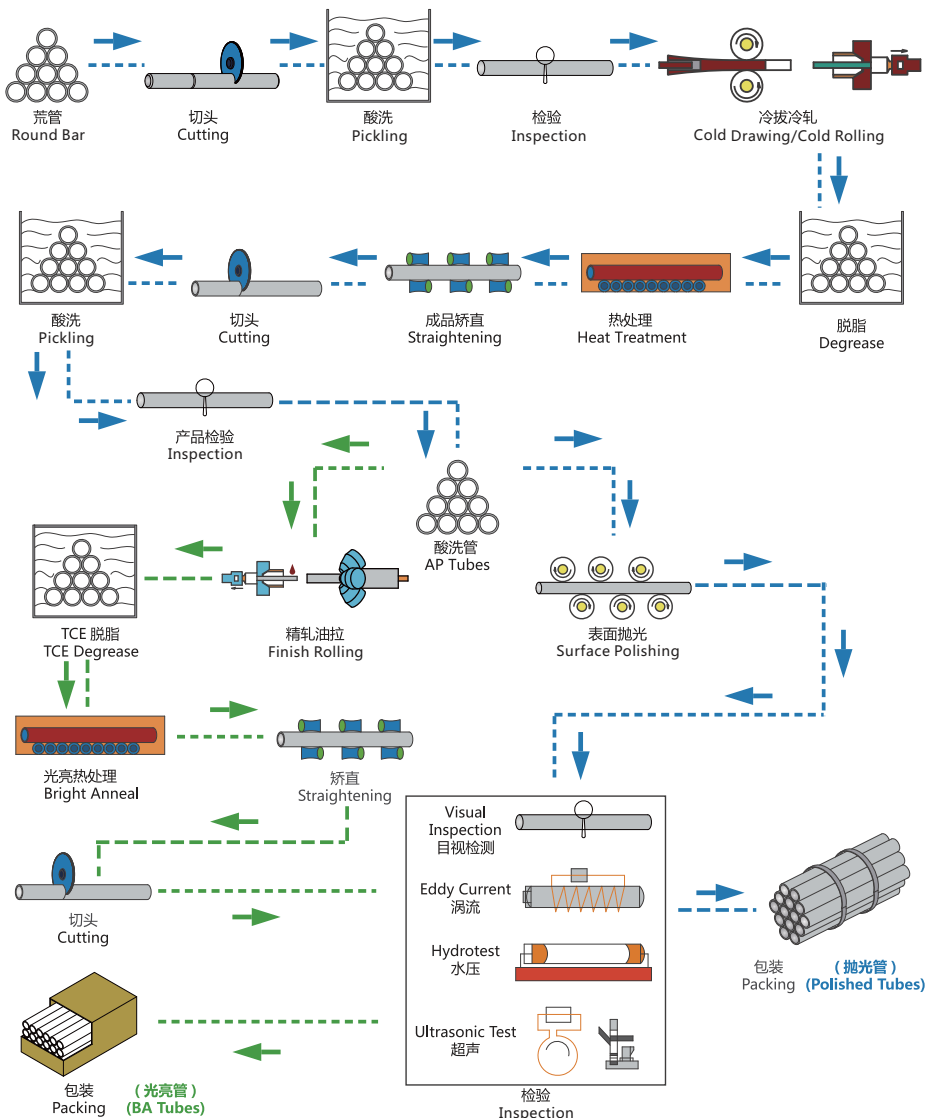
外径 (OD) : 6-219.1mm

壁厚 (WT) : 0.51-12.7mm



生产流程

PRODUCTION PROCESS



主营业务及标准

MAIN PRODUCTS AND STANDARDS

| 产品名称<br>Main Products  |                   | 主要钢种<br>Main Grades                                               | 尺寸范围<br>Outer Diameter<br>(mm) | 长度范围<br>Length (mm) | 执行标准<br>Standard       | 备注说明<br>Remarks     |
|------------------------|-------------------|-------------------------------------------------------------------|--------------------------------|---------------------|------------------------|---------------------|
| 热轧棒<br>Hot Rolling Bar |                   | 303, 303Cu, 304/L, 316/L, 310S, 321, 410, 420, 416, 17-4PH, 201Cu | 15-180                         | 4000-7500           | GB, JIS, ASTM, EN, DIN | 可依需要定制<br>As demand |
| 剥皮棒<br>Peeling Bar     |                   | 303, 303Cu, 304/L, 316/L, 310S, 321, 416, 17-4PH, 201Cu           | 15-100                         | 3000-7500           |                        |                     |
| 冷抽棒<br>CD Bar          | 圆棒<br>Round Bar   | 303, 303Cu, 304/L, 316/L, 321, 416, 17-4PH, 201Cu                 | 2-100                          | 2000-6000           |                        |                     |
|                        | 四角棒<br>Square Bar | 303, 303Cu, 304/L, 316/L, 321, 416, 17-4PH, 201Cu                 | 5-50                           | 2000-6000           |                        |                     |
|                        | 六角棒<br>Hex Bar    | 303, 303Cu, 304/L, 316/L, 321, 416, 17-4PH, 201Cu                 | 5-50                           | 2000-6000           |                        |                     |
| 无心研磨棒<br>CG Bar        |                   | 303, 303Cu, 304/L, 316/L, 321, 416, 17-4PH, 201Cu                 | 2-100                          | 2000-6000           |                        |                     |



生产流程

PRODUCTION PROCESS

