



## **DOM Precision welded cold drawn tubes**

*Tailor made sizes from 4 to 320 mm, high level of concentricity, tight tolerances and reduced stock allowances to save costs on machining operations*

**Application:** Tubular rings construction and mechanical components for automotive and mechanical industry

Size range: from mm 4 to mm 320 – Wall thickness: from 0,5 to 16 mm

Carbon steels: E155 (Fe280D) - E195 (Fe320D) - E235 (Fe360D) - E275 (Fe410D) - E355 (Fe510D)



## **DOM SSID Welded cold drawn tubes**

*Smooth Surface Inside Diameter ready for use*

**Application:** Realization of bodies for hydraulic cylinders

Size range: ID from 25 mm to 90 mm – Wall thickness 5 mm

Steels E355 (ST 52.3) in +C(BK) conditions

Tolerances and inside surface roughness: ISO H9 - Ra max 0,80 microns



## **DOM Shock absorbers Precision welded cold drawn tubes**

*The winning choice to manufacture high precision shock absorbers*

**Application:** Shock absorbers and gas spring cylinder bodies

Size range: between 15 mm and 60 mm – Wall thickness: between 1 mm and 3 mm

Steels: E195 (St 34-2); E 235 (St 37-2) in +C (BK) conditions

Inside surface roughness: Ra max 0,50 microns



## **DOM Roller Tubing Welded cold drawn tubes**

*Ultra Fine straightened Tubing and Shafts*

**Applications:** To manufacture high speed tubular rollers and shafts

Size range: OD up to 381 mm – Wall thickness up to 16,5 mm

Standard steels: TuffDom 520 - E235-E355 (St37- St52) in standard conditions +SR (BKS)

Straightness: 1:1200 mm (on request 1:2000 mm)

**amt** s.r.l. Precision tubes and bars

COMPANY  
WITH QUALITY SYSTEM  
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## **TuffDOM Tubing** **Welded cold drawn tubes**

*Passes the toughest tests*

**Application:** Realization of telescopic cylinders, hydraulic cylinders simple and double effect, submersed pumps

Size range: from mm 25 to mm 305 - Wall thickness: from 2 to 19 mm

Carbon steels: TuffDOM520 - Microalloyed steels: TuffDOM620



## **SSTF** **Precision seamless cold drawn tubes**

*A wide range of carbon and alloyed steel, tailor made sizes, high ratio OD/wall*

**Application:** Realization of hollow shafts, tubular and mechanical components for automotive and mechanical industry

Size range: from 4 to mm 250 - Wall thickness: from 0,5 to 30 mm

Standard steels:

contruction: E235 (Fe 360 UNI7945 - Fe 35-2 UNI663 - St 35)

E255 (Fe 410 UNI7945 - Fe 45-2 UNI663 - St 45)

E355 (Fe 490 UNI7945 - Fe 52-2 UNI663 - St 52)

E410 (20MnV6)

casehardening: C10 - 16NiCrMo2 - 16MnCrS5 - 20NiCrMo2 - 17Cr3 - 20MnCr5

Q+T: C22 - C30 - C35 - C45 - C60 - 25CrMo4 - 30CrMo4 - 42CrMo4 - 39NiCrMo3



## **KART** **Seamless drawn tubes SSTF - Welded drawn tubes DOM - Welded steel tubes SAL**

*Standard sizes to manufacture Go-Kart always available in stock or in few days*

### **TUBES FOR FRAMES:**

Seamless drawn tubes SSTF in steel 25CrMo4 and sizes 28x2 - 30x2 - 32x2 mm

### **TUBES FOR AXLES:**

Seamless drawn tubes SSTF and welded drawn tubes DOM in carbon and alloyed steel and sizes 50,1x2,2 mm and 40,1x3,2 mm

### **TUBES FOR COMPONENTS:**

Welded steel tubes SAL in sizes  $\varnothing$  14x2 -  $\varnothing$  16x1,5 -  $\varnothing$  16x2 -  $\varnothing$  20x1,5 -  $\varnothing$  20x2 -  $\varnothing$  25x2 mm

### **FINISHED AXLES:**

On request

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## **SAL** **Precision welded steel tubes**

*The tubes for all mechanical applications where a precision degree in alternative to the cold drawn tubes is required*

**Application:** Realization of tubular mechanical components for automotive and mechanical industry

Size range: OD from 3 mm to 219 mm

Wall thickness: from 3 mm to 10 mm

Steels: carbon steel obtained from cold and hot rolled strips - high yield microalloy steels

Special profiles: on request



## **SS** **Hot rolled seamless tubes**

*Carbon and alloyed steel tubes for all mechanical applications*

**Application:** Tubular rings construction and mechanical components

Size range: (subject to steel grade and rolling process) OD from 21,3 mm to 711 mm

Wall thickness: (subject to steel grade and rolling process) da mm 2,3 a mm 100

Standard steels:

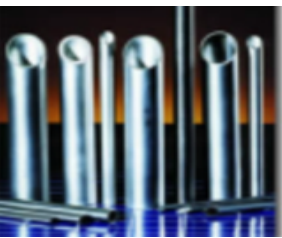
construction: E235 (Fe 360 UNI7729 - St 37.0 DIN1629)

E275 (Fe 410 UNI7729 - St 44.0 DIN1629)

E355 (Fe 510 UNI7729 - St 52.0 DIN1629)

casehardening: C10 - 16MnCr5 - 20MnCr5 - 20NiCrMo2 - 20CrNi4

Q+T: C22 - C35 - C45 - C60 - 25CrMo4 - 30CrMo4 - 42CrMo4 - 39NiCrMo3



## **INOX-NIKE** **Cold drawn tubes in stainless steels and nickel alloys**

*Precision and reliability*

**Application:** Measure equipment, gauges, thermocouples, medical and alimentary instruments, aeronautical, nuclear, military

Size range: from mm 0.2 up to mm 51 – Wall thickness: from 0.05 mm to mm 6

Lengths: 4-6 meters, on demand up to 40 meters

Steels 304 - 304L - 316-316L - 321 - 316TI - 310 - 347 - Uranus B6 (1) - Sanicro 28 (2) - 254 SMO (2) - SAF

2304 - 2205 - 2507(2) - Ni200-201(3) - Monel 400 (3) - Inconel 600-601-625-718 (3) - Incoloy 800-825 (3) -

Hastelloy C276-B2-X-C4 - C22(4) - A 214 - 230 (4) Cobalt alloy: HS 25 (KC 20 WN) (4) - HA 188 (KCN 22W) (4)

Registered trademark: (1) Ugine (2) Sandvick (3) Inco (4) Haynes

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**LARCO**  
**Ground and hard chrome plated bars size  $\varnothing >130$  mm**

*The bars with no limits in size and lengths*

**Applicazioni:** Steles of hydraulic cylinders, press columns

Size range: starting from 130 mm

Steels: C45 – ASTM A 105

Chrome thickness and hardness: 25  $\mu$ m minimum - HV 850-1150

Tolerances and surface roughness: ISO f7 - Ra max 0,40 microns



**LEV – STEL – TELE**  
**Inside honed tubes and/or outside ground**

*The complement of LARCO bars, realized starting from SS, SSTF, DOM, TuffDOM tubes*

**Application:** Bodies and steles for hydraulic cylinders, telescopic cylinders

Steels: E355 (ST 52) - 20 MnV6 - TuffDOM 520/620 - stainless steels

Tolerances and inside surface roughness: ISO H8 - Ra max 0,20 microns

Tolerances and outside surface roughness: ISO f7 - Ra max 0,40 microns







OD chrome thickness and hardness: 25  $\mu$ m minimum - HV 850-1150

Straightness: 1 mm su 1.000 mm

## Quality controls

	<p><b>Check of the correspondence between the requested and the received tolerances</b></p>
	<p><b>Identification and traceability of the material according to ISO 9000</b></p>
	<p><b>Check of the correspondence of weight and quantity ready for shipment</b></p>

## Services

	<b>Cutting to fix length</b>		<b>Cutting to fix length with bevelling according to customer's specification</b>
	<b>Cutting to fix length with deburring and washing</b>		<b>Heat treatment on tubes and/or on machined tubular part</b>
	<b>Packaging according to customer requirement</b>		<b>Just-in-time service</b>

## Specific products

### AMT finished and semi-finished mechanical hollow components

Plain and splined hollow shafts, diesel engine rocker shafts, plain and splined sleeves and couplings, threaded rings, gears, power take-offs, cylinder body and piston rod for shock absorbers and hydraulic cylinders, safety and breaking parts for cars, trucks, tractors and motorcycles, and go-kart and motorcycle frames, are some of the components that AMT supplies to the industry.



These components may be supplied as finished and tested parts for final assemblies or as pre-machined and heat treated parts ready for further processing.

All manufacturing operations are performed at ISO 9000 certified works and under AMT control.

AMT is entirely responsible for the quality of materials and manufacturing as well as for the fulfillment of the technical specifications. AMT is solely responsible for the on-time delivery of goods.

AMT customers save procurement time and money by relying upon AMT's experience in delivering the part that is needed when it is needed. AMT's coordination of raw material supply and value added operations allows its customers to concentrate on their core business.

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