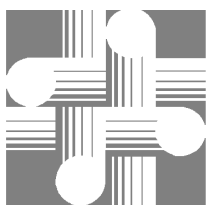


The specialist of tailor made tubes and components

The core business of AMT is the supply of "custom made" carbon and alloy precision steel tubing to manufacture mechanical parts and elements



amt s.r.l.

Precision tubes and bars



AMT srl - Via Como 4 - 20063 CERNUSCO s/N (Milano) - Italia
Tel 0039-0292105330- Fax 0039-0292104488 www.amtsrl.com

We are glad to introduce you our Company, the products and services that we can offer you.

AMT is ISO 9002 certified since 1998 and obtained the ISO 9001:2008 certification in March 2010.

Since 1980 AMT we supplied mechanical tubing to original equipment and component manufacturers. Our core business is the supply of "custom made" carbon and alloy precision steel tubing suitable for the manufacturing of mechanical parts and elements.

AMT sells directly in Italy and operates both directly or through distributors, agents or associated partners in the rest of Europe.

AMT supplies its tubings in electric resistance welded or hot rolled seamless conditions: these tubes may be supplied as cold drawn, heat treated, machined or as a finished component manufactured to the customer's specification.

AMT seamless and electric resistance welded mechanical steel tubing comes in a wide range of carbon, alloy and stainless steels. Precision cold drawn tubes are finished to tolerances of hundreds of millimeter and smoothness similar to that of fine machining.

AMT custom made precision steel tubing is used in the manufacturing of plain and spline 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 chassis.

AMT sales range include also mechanical components, always manufactured according to specific customer drawings, that may be supplied as finished and tested parts for final assemblies or as pre-machined and heat treated parts ready for further processing.

AMT carries permanent inventories of **KART** tubes:

- Seamless cold drawn tubes in 25CrMo4 steel for go-kart chassis and rollbar
- Welded and welded cold drawn carbon steel tubes for go-kart axels and all go-kart components

AMT has specialties with short delivery terms as:

- **LARCO**: hard chrome plated carbon and alloy engineered steel bars, precision finished to tolerance ISO f7 in sizes over 130 mm OD that, when cut to length, are ideal for the manufacture of hydraulic cylinder piston rams and hydraulic press columns.
- **TUBCROM**: outside hard chrome plated carbon and alloy steel tubes eventually honed or skived and roller burnished inside to H8
- **LEVINOX**: stainless steel tubes inside honed to H8-H11 suitable to manufacture pneumatic and oleo-hydraulic cylinders to be used in case of severe corrosion conditions
- **ROLLERS**: ultra fine straightened tubing and shafts suitable to manufacture high speed tubular rollers and shafts

AMT stands behind the quality of its products and services. You can depend on AMT to get the precision steel tubing, chrome plated bar and related components required, without the need to deal with multiple suppliers. Choosing AMT products and services means to save purchasing time and money as the company business is the customer satisfaction. Technical and sale AMT staff is at your complete disposal for any quote or further information you might need.



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: Realisation 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 **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

Application: 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)



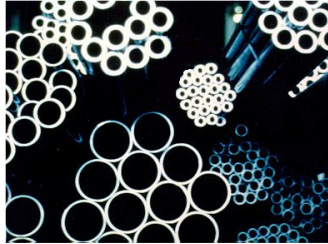
TuffDOM Tubing **Welded cold drawn tubes**

Passes the toughest tests

Application: Realisation 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 - Microalloy 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:

construction: 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 - 16MnCrS5 - 17NiCrMo2 - 17Cr3 - 20MnCr5

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



KART **Seamless drawn tubes SSTF - Welded cold drawn tubes DOM –** **Welded steel tubes SAL**

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

Standard sizes to manufacture ROLLBARS

TUBES FOR FRAMES:

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

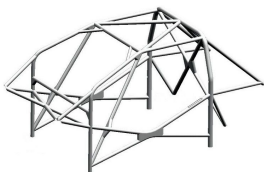
TUBES FOR AXLES:

Seamless SSTF and welded cold drawn DOM tubes in carbon and alloy steel Ø mm 50,1x2,2 - 40,1x3,2 mm

TUBES FOR COMPONENTS:

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

FINISHED AXLES for KART and QUAD: On request



ROLLBAR

Seamless cold drawn tubes SSTF and welded cold drawn tubes DOM in carbon and alloy steel

Ø mm Ø 45 x 1,5 - 40x 2 - 50 x 2



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: Realisation 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 micro-alloy 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) from 2,3 mm to 100 mm

Standard steels:

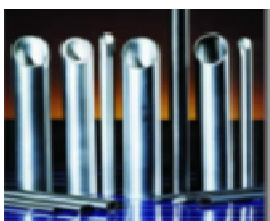
construction: E235 (Fe 360 UNI7729 - St 37.0 DIN1629)

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



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

The bars with no limits in size and lengths

Application: Steels of hydraulic cylinders, press columns

Size range: starting from 130 mm

Steels: C45 – ASTM A 105

Chrome thickness and hardness: 25 μm 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, realised starting from SS, SSTF, DOM, TuffDOM tubes

Application: Bodies and steels 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 μm minimum - HV 850-1150

Straightness: 1 mm : 1.000 mm



LEV INOX **Stainless steel tubes inside honed**

Realized starting from seamless cold drawn tubes

Application: hydraulic cylinder bodies for the nautical, food industries and energy production facilities

Steels: AISI 304 - 304L - 316 – 316L - 316Ti

ID tolerance : ISO H9/10/H11 depending on the ratio \varnothing / thickness

ID roughness: Ra 0,40 μm max

Straightness: 1 mm on 1.000 mm

Out of roundness: included in ID tolerance

Size range: from ID \varnothing mm 25 mm up to 200 mm-wall thickness from 2 to 12.5 mm

STANDARD SIZES AVAILABLE IN PERMANENT STOCK



PROFIL-FORM

Welded and welded or seamless cold drawn tubes in different shaped profiles in carbon, micro-alloyed, alloyed and stainless steels.

Check of:

- correspondence of the dimensional tolerances specified in the order
- weights and quantities before shipment

Identification and traceability of the products according to ISO 9000

COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= **ISO 9001:2008** =



Services



Cutting to fix length



**Cutting to fix length
with deburring and
washing**



**Packaging
according to
customer requirement**



**Cutting to fix length
with bevelling
according to
customer's
specification**



**Heat treatment on
tubes and/or on
machined tubular part**



Just-in-time service

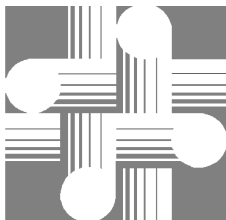
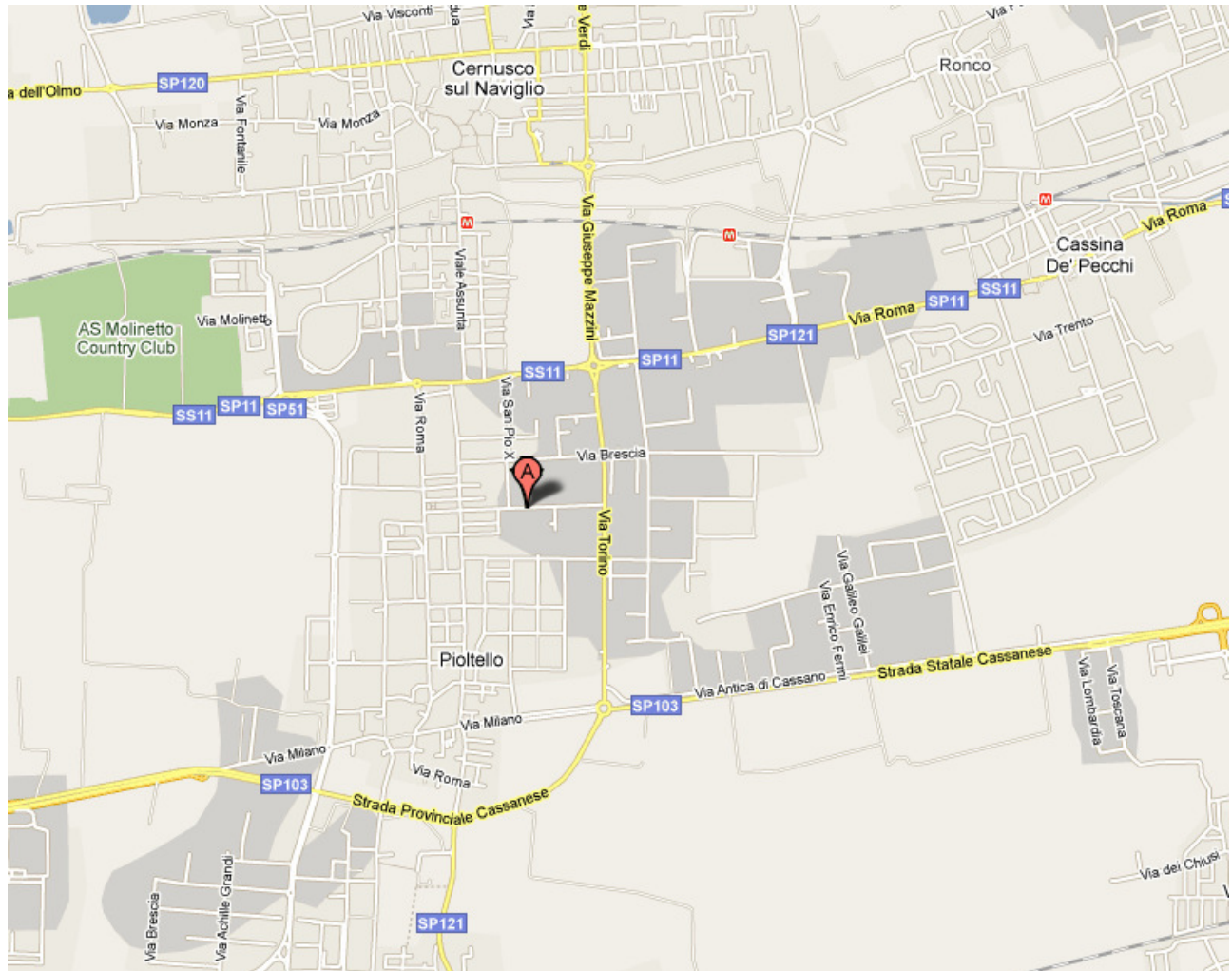
Specific products

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.



WHERE WE ARE:



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