Mechanical Tube

ILJIN Steel produces hot-rolled and cold-drawn mechanical tubes made of alloy steel that meet or exceed various international standards including ASTM A519, ASTM A513, EN 10297 and EN 10305.
ILJIN Steel have integrated process with Seamless tube and cold drawing.
It is possible to provide better service to customer, quick delivery, technical improvement, value engineering, prompt feed back for quality improvement.







List of Standards and Ranges for Mechanical Application

Specification	Steel Grade
ASTM A519/513 Seamless/ERW Carbon and Alloy Steel Mechanical Tubes	1008 - 1045, 52100, 1520, 1536, 1541, 4115, 4130
JIS 3441 Alloy Steel Tube for Machine Structural Purpose	STKM11 - 20 S10C - S58C SCM, SCR, SNCM, SUJ2
JIS 3445 Carbon Steel Tube for Machine Structural Purpose	
JIS 4051 Carbon Steel for Machine Structural use	
DIN EN 10297-1 Seamless circular steel tubes for mechanical and general engineering purpose; Non-alloy and alloy steel tubes	E235, E355, E470 and others according to standards
DIN EN 10305-1 Steel tubes for precision applications; Seamless cold drawn tubes	E235, E355

Tube For Automotive Parts

Items	Material	Size(mm)		Condition
		O.D	W.T	
Drive Shaft	ASTM 1026 ASTM 1035 EN 25CrMo4	20 ~ 60	2 ~ 6	Cold drawn & Annealed Cold Drawn & Q/T
Airbag Inflator	SAE 1510-M 10CrMnMo	20 ~ 70	1.5 ~ 4	Cold Drawn & Q/T
Axle	SAE 1030, SAE 1527 EN E 355 (ST 52)	101.6 ~ 152.4	6.35 ~ 25.4	Hot Finished SMLS
CV Joint Cage	SAE 8617H EN 16NiCrMo2	40 ~ 90	4 ~ 14	As rolled, or normalized
Bearing	SAE52100 EN 100Cr6, SUJ2	20 ~ 170	1.5 ~ 20	Spheroidizing Annealed

Tube For Hydraulic Cylinder

Ready to Honing

(Unit : mm)

Application	Supply Condition		Material Grade	Size Range
Double Acting Telescopic	ERW & Seamless (DOM, CDS)	Stress Relived (BKS)	SAE1020, 1026 EN10305(St52.3) STKM13C	O.D : 40 ~ 308 W.T : 4.0 ~ 25.0 L'th : 4~11.5m

Ready to Use

Application	Supply Condition		Material Grade	Size Range (mm)
SSID Tube (No honing)	Tube Condition	ERW & DOM (BK)	SAE1020/1026 EN10305(St52.3) STKM13C	O.D : 15.0~140 W.T : 1.0~12.5 L'th : 4~11.5m
	Dimension Tolerance	ISO H9 Grade		
	Inside Roughness	Rmax 5μm Max.		

Size Range

Outside Diameter	Wall Thickness (mm)																										
	3.0	3.5	4.0	5.0	5.5	6.5	7.0	7.5	8.0	9.0	9.5	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	19.0	20.0	22.0	24.0	25.0	26.0	27.0	28.0	29.0	30.0
25.4																													
27.2																													
31.8																													
33.4																													
38.1																													
42.2																													
42.7																													
44.5																													
48.3																													
48.6																													
50.8																													
54.0																													
60.3																													
63.5																													
73.0																													
76.2																													
88.9																													
101.6																													
114.3																													
127.0																													
139.7																													
141.3																													
152.4																													
165.2																													
168.3																													
177.8																													
190.7																													
215.9																													
228.6																													
241.3																													
254.0																													
266.7																													
279.4																													
292.1																													
304.8																													

Seamless Hot finished

Seamless Cold finished