

Hollow bar and Mechanical tubing

Stainless steel hollow bar and Mechanical tubing is available in a wide range of sizes and grades. Our portfolio of hollow bar includes austenitic stainless steel and duplex stainless grades. Hollow bar sizes range from outside diameter 32 to 275 mm (1.26 to 10.83 in.).

Our improved machinability technology 'IMCO®' uses advanced technologies and the benefit of our integration with COGNE group to deliver consistent improvements in machinability and productivity together with the resilience of an integrated supply chain.

IMCO® Grades: as an integrated manufacturer we control the non-metallic inclusions to give them characteristics that improve the machinability. We convert the inclusions from hard, abrasive particles to softer self-lubricating particles without comprising important aspects such as corrosion resistance.

Class Leading performance: when benchmark tested alongside our competitors we demonstrate improved tool wear and chip formation.

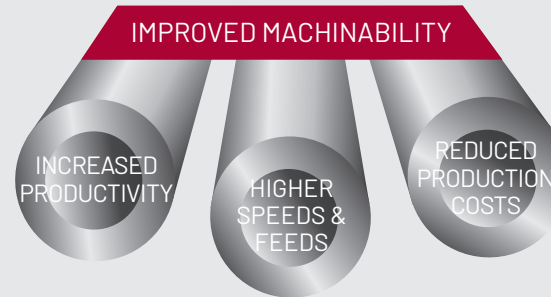
IMCO® meets and exceed the industry norms.

Our Global Presence



IMCO®

Improved Machinability COgne



GENUINE QUALITY

DMV QR code system to fight fake products
All of our orders are shipped with QR code validated certificates. Expect authentic DMV quality tubes only with validated QR code.



The QR code above links to the DMV website.



DMV
tubes@dmvtubes.com
Tel. +49 208 458 01
www.dmv tubes.com

Material solutions and tube expertise



AT A GLANCE Hollow Bar and Mechanical Tubing

IMCO® Hollow Bar from DMV

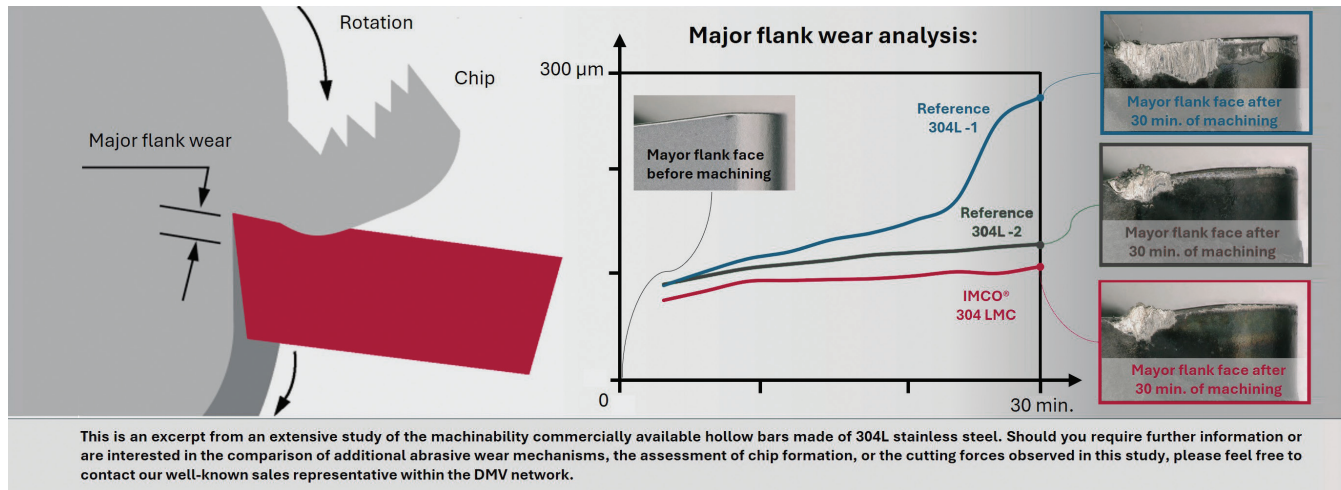


EN 01/2025

IMCO® Designation	DMV Designation	USA		Europe EN 10216-5		Others		
		UNS	Designation (grade)	Standard ASTM	Steel No.	Designation	Standard (SS)	Standard (BS)
IMCO® 304L	DMV 304LMC	S 30403	MT 304L (TP 304L)	A 511 A (312)	1.4307	X2CrNi18.9	2352	304S 11
IMCO® 316L	DMV 316LMC	S 31603	MT 316L (TP 316L)	A 511 A (312)	1.4404	X2CrNiMo17.12.2		316S 11

(...)/Grade designation and / or Standard not specific for Hollow Bars.

* DMV 316L with 2.5 - 3% Mo.



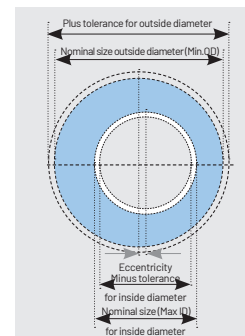
Size range and Machining allowances

Outside diameter range mm	Dimensional tolerances			
	For the outside diameter D	For the outside diameter d	For eccentricity (centre offset) E	For out-of-straightness h
32 # D # 275	-0/+2% (min. 1 mm)	+0/-2% (min. 1 mm)	10%	1 mm/m

Standard Hollow Bar Tolerances

Outside diameter range mm	Machining allowances	
	For the outside diameter	For the inside diameter
32 # D # 70	1.0 mm	1.0 mm
70 # D # 132	1.0 mm	1.0 mm
132 # D # 200	1.0 mm	2.0 mm
200 # D # 275	1.0 mm	2.0 mm

Note: The machining allowances are recommended minimum values and are related to short-length mechanical parts (L<2.5 x D, max. 250 mm). Machining allowances for longer parts or special machining procedures can be customised. Machining allowances when ordering Mechanical Tubing to ASTM A 511 are different to those for Hollow Bar.

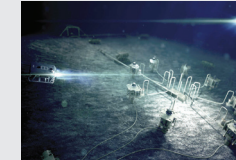


Our Markets, Products and Applications



General Engineering

Mechanical tubing, Hollow Bar
Heat Exchanger tube
Instrumentation & Process control tubes
Profiles.



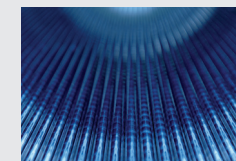
Oil and Gas

Subsea piping systems including Flowlines
Base pipes for Spools and Jumpers
Pipes and tubing for Manifolds & Christmas Trees



Powergen

Advanced Ultra Supercritical (AUSC) boilers
Nuclear Power - fission, fusion, SMR
Fuel reprocessing
Solar - molten salts



Petrochemical Industry

Crude Oil Furnaces, Direct Fired Heaters, E-Heaters
Crude Oil Heat Exchanger
Cracking Units
Piping Distillation Units
Condenser Tubes



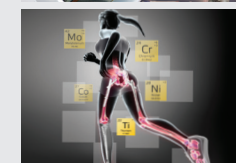
Chemical Process Industry

Cracker Tubes, Evaporator Tubes, Condenser Tubes, Bi-Metallic Tubes
High Pressure Tube Equipment
High Temperature Tube Equipment
High Acidic Tube Equipment
Hydrogen Separation



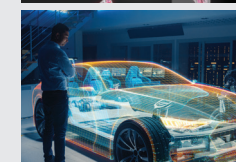
Aerospace

Airframe hydraulic control
Actuation systems and flow measurement
Engine fuel systems, air bleed instrumentation tubes.
Structural tubes and profiles



Medical

Exacting raw materials for Cardio & Trauma applications



Automotive

GDI and CNG fuel systems
Hydrogen refuelling
High Pressure systems