



China Hailiang Group

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PRODUCTS INTRODUCTION



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HAILIANG

HAILIANG GROUP IN BRIEF

110th Of China's Top 500 Enterprises

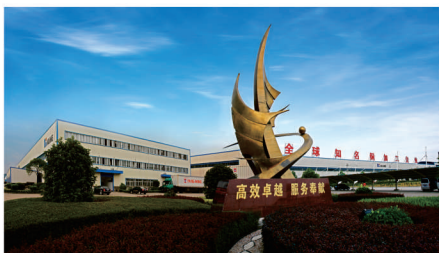
FACTORY PLANT



Zhejiang Hailiang Co. Ltd
(Plant 1 Tube Mill)



Zhejiang Hailiang Co. Ltd
(Plant 2 Fitting Mill)



Zhejiang Hailiang Co. Ltd
(Plant 3 Coil Mill)



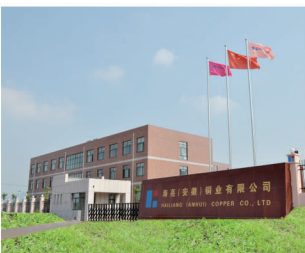
Shanghai Hailiang Copper
Co., Ltd.



Hailiang (Vietnam) Copper
Manufacturing Co., Ltd.



Loyal Hailiang Copper
(Thailand) Co., Ltd



Hailiang (ANHUI)
Copper Co., Ltd



Guangdong Hailiang



Hailiang Alltop Tube
Guangdong Co., Ltd (Plant 2)



Hailiang Alltop Tube
Guangdong Co., Ltd (Plant 1)

COMPANY PROFILE

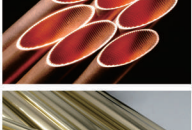
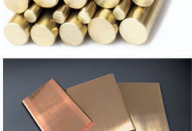
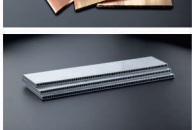
110th of China's Top 500 Enterprises
18th of China's Top 500 Private Enterprises

Hailiang is one of the world's largest producers for copper and copper alloy products including tubing, rods fittings etc. In the past 20 years, the group has committed to Efficiency, Excellence, Quality and Service as four key elements. Being guided by Technology Oriented, Brand Building Strategy, International Business Focusing, and harmonious corporation culture, Hailiang has achieved continuous high speed growth. Presently, Hailiang has more than 12000 staff, and covers 80 subordinate enterprises. With copper manufacturing as the core business, Hailiang has developed into a group company covering real estate, education, nonferrous metal trade, machinery manufacturing, plumbing plastic pipe manufacturing and hotel business.

In 2017, Hailiang's comprehensive competence has ascended to NO. 110th among the top 500 enterprises in China. Hailiang will follow its direction of make super fine, make strong, make larger endeavoring to be the most competitive copper-processing multinational enterprises in the world.



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HAILIANG

Having a capacity of water from hundreds of rivers
Illuminating the five continents



Build Century HAILIANG
Create World-Class Brand

HAILIANG 海亮

COPPER TUBE SERIES

• COPPER TUBES

Main Purposes:
Water, Gas, Sanitation, Air Conditioning, Refrigeration,
Fire Protection and General Purposes.

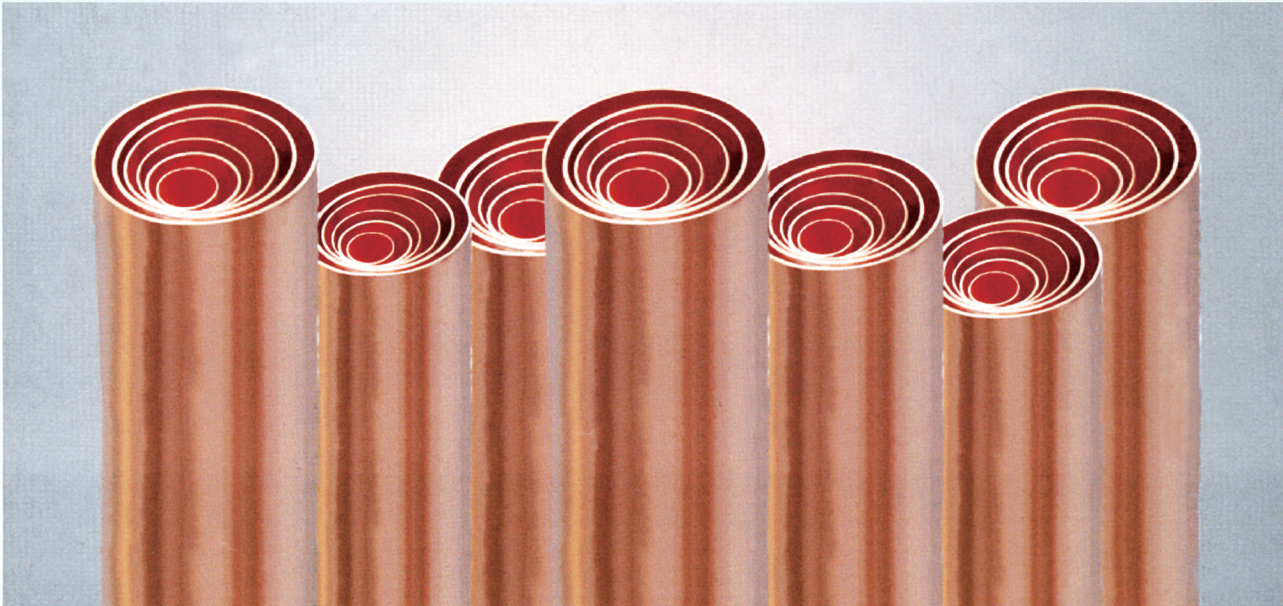


◆ Standard and Copper Alloy No.

Standard		Alloy No.	Temper				Chemical CompositionCu%		
JIS H3300		C1220	H		1/2H	OL	O	Minimum 99.90	
JISH3300									
BS2871		C106		H		1/2H	/		O
EN12735-2		CU-DHP		Y0 80		/	Y0 40		Y0 35
EN12735-1		or CW024A		R360	R290	R250	/		R220
EN1057				R360	R290	R250	/		R220
EN12449		CU-DHP		R360	R290	R250	/		R220/R200
		or CW024A		H110	H095	H070	/		H040
DIN		SF-Cu		F36		F25	F22		O
ASTM	B68	C12200		/		/	O 50		O 60
	B88			H58					
	B75			H80和H58		H55	O 50		O 60
	B280			H58		/			O 60
	B743-92a			H58		/	O 50		O 60

COPPER TUBE SERIES

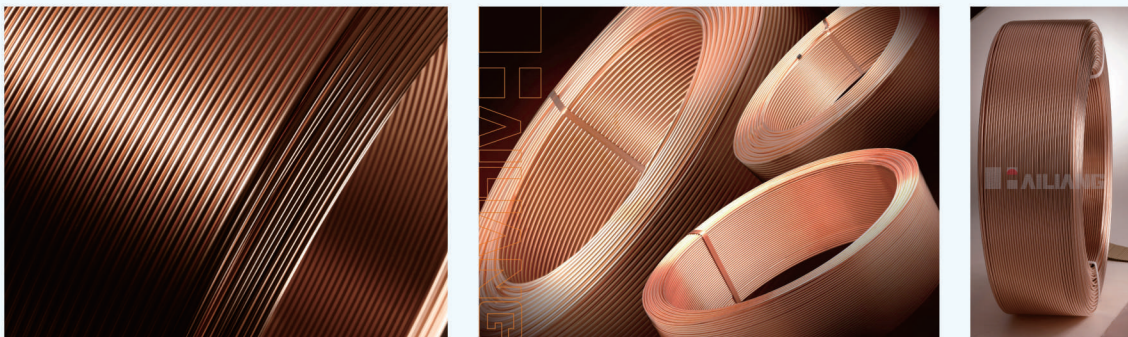
• STRAIGHT TUBES SERIES



◆ Specifications

Thickness O.D.	0.013 " to 0.023 "	0.023 " to 0.031 "	0.031 " to 0.039 "	0.039 " to 0.047 "	0.047 " to 0.059 "	0.059 " to 0.078 "	0.078 " to 0.12 "	0.12 " to 0.16 "	0.16 " to 0.22 "	0.22 " to 0.27 "	0.27 " to 0.37 "
1/4 " to 1/2 "	O	O	O	O	O						
1/2 " to 3/4 "	O	O	O	O	O	O					
3/4 " to 1 "	O	O	O	O	O	O	O	O			
1 " to 1-3/8 "		O	O	O	O	O	O	O	O		
1-3/8 " to 1-1/2 "			O	O	O	O	O	O	O		
1-1/2 " to 1-19/20 "			O	O	O	O	O	O	O	O	
1-19/20 " to 2-1/2 "			O	O	O	O	O	O	O	O	
2-1/2 " to 2-3/4 "				O	O	O	O	O	O	O	O
2-3/4 " to 3-3/8 "				O	O	O	O	O	O	O	O
3-3/8 " to 4 "					O	O	O	O	O	O	O
4 " to 5-3/8 "						O	O	O	O	O	O
5-3/8 " to 6-1/4 "							O	O	O	O	O
6-1/4 " to 8-5/8 "								O	O		

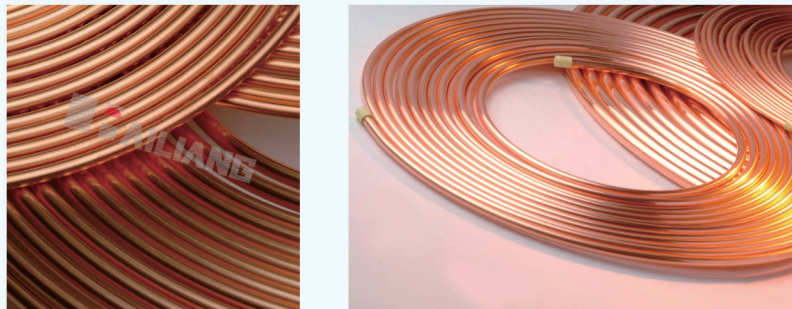
• LWC FOR ACR SERIES (PLAIN)



◆ Specifications(FOR REFERENCE ONLY)

O.D.		WALL THICKNESS		COIL WEIGHT	
mm	inch	mm	inch	kg	lbs
3.8	5/32	0.28-0.60	0.011-0.024	90-130 130-180 >180(as per customer's requirements)	200-300 300-400 >400(as per customer's requirements)
4.76	3/16	0.28-0.81	0.011-0.032		
6.35	1/4	0.28-1.07	0.011-0.042		
7.94	5/16	0.28-1.5	0.011-0.059		
9.52	3/8	0.28-1.5	0.011-0.059		
12.7	1/2	0.35-2.00	0.014-0.079		
15.88	5/8	0.46-2.00	0.018-0.079		
19.05	3/4	0.71-2.00	0.028-0.079		
22.22	7/8	0.89-2.00	0.035-0.079		

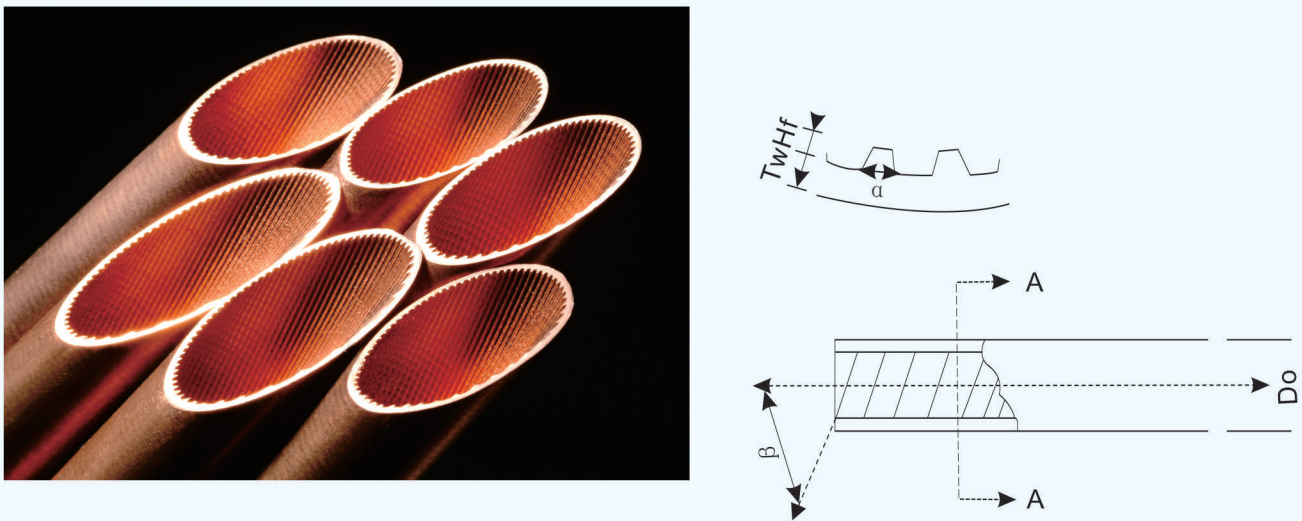
• PANCAKE COILS SERIES



◆ Specifications

O.D(inch)	Thickness(inch)	Length(ft)
1/8 " to 1 1/8 "	0.014 " to 0.059 "	≤100

• LWC FOR ACR SERIES (INNER GROOVED)



◆ Specifications(FOR REFERENCE ONLY)

Specifications	Unit weight	O.D	I.D	Bottom Wall Thickness Tw	Fin Groove Depth Hf	Total wall Thickness	Apex Angle	Helix Angle	Number of Tooth
Φ 5.00×0.20+0.15-18°	33	5.00	4.30	0.20	0.15	0.35	40	18	40
Φ 7.00×0.25+0.10-15°	52	7.00	6.30	0.25	0.10	0.35	40	15	65
Φ 7.00×0.25+0.18-18°	57	7.00	6.14	0.25	0.18	0.43	40	18	50
Φ 7.00×0.25+0.22-16°	58	7.00	6.06	0.25	0.22	0.47	22	16	54
Φ 7.00×0.27+0.15-18°	60	7.00	6.16	0.27	0.15	0.42	53	18	60
Φ 7.94×0.25+0.18-18°	65	7.94	7.08	0.25	0.18	0.43	40	18	50
Φ 7.94×0.25+0.20-18°	66	7.94	7.04	0.25	0.20	0.45	40	18	50
Φ 7.94×0.26+0.17-18°	66	7.94	7.08	0.26	0.17	0.43	40	18	50
Φ 7.94×0.28+0.20-18°	72	7.94	6.98	0.28	0.20	0.48	40	18	50
Φ 7.94×0.30+0.20-18°	76	7.94	6.94	0.30	0.20	0.50	40	18	50
Φ 9.52×0.27+0.16-18°	82	9.52	8.66	0.27	0.16	0.43	30	18	70
Φ 9.52×0.28+0.12-15°	80	9.52	8.72	0.28	0.12	0.40	53	15	65
Φ 9.52×0.28+0.15-18°	83	9.52	8.66	0.28	0.15	0.43	53	18	60
Φ 9.52×0.28+0.15-25°	88	9.52	8.66	0.28	0.15	0.43	90	25	65
Φ 9.52×0.28+0.20-18°	85	9.52	8.56	0.28	0.20	0.48	25	18	55
Φ 9.52×0.28+0.20-18°	88	9.52	8.56	0.28	0.20	0.48	40	18	60
Φ 9.52×0.30+0.20-18°	90	9.52	8.52	0.30	0.20	0.50	30	18	60
Φ 9.52×0.30+0.20-18°	94	9.52	8.52	0.30	0.20	0.50	53	18	60
Φ 9.52×0.34+0.15-25°	104	9.52	8.54	0.34	0.15	0.49	90	25	65
Φ 9.52×0.40+0.25-18°	123	9.52	8.22	0.40	0.25	0.65	40	18	60
Φ 12.00×0.36+0.25-18°	140	12.00	10.78	0.36	0.25	0.61	40	18	70
Φ 12.70×0.35+0.25-18°	155	12.70	11.50	0.35	0.25	0.60	53	18	70
Φ 12.70×0.40+0.25-18°	170	12.70	11.40	0.40	0.25	0.65	53	18	70
Φ 12.70×0.50+0.25-18°	201	12.70	11.20	0.50	0.25	0.75	53	18	75
Φ 12.75×0.36+0.21/0.25-20°	150	12.75	11.53	0.36	0.25	0.61	48	20	70

COPPER TUBE SERIES

• PACKING WAYS(LWC)

	Packing ways	Wooden pallets	plates		Way of placing strings		Winding way		Hailiang	Neutral
			Cardboard Reels	Reels (I.D.Payout)	Draw from I.D.	Draw from O.D.	Clockwise	Anti-Clockwise		
Hailiang	General packing	☒	☒	☒		☒	☒	☒	☒	
	Simple Packing	☒						☒	☒	
	Draw from I.D.Packing	☒		☒	☒		☒	☒	☒	
	General double pallets packing	☒	☒	☒			☒	☒	☒	
Neutral	General Packing	☒	☒	☒		☒	☒	☒		☒
	Simple Packing	☒		☒			☒	☒		☒
	Draw from I.D.Packing	☒			☒			☒		☒
	General double pallets packing	☒	☒	☒			☒	☒		☒



General Packing



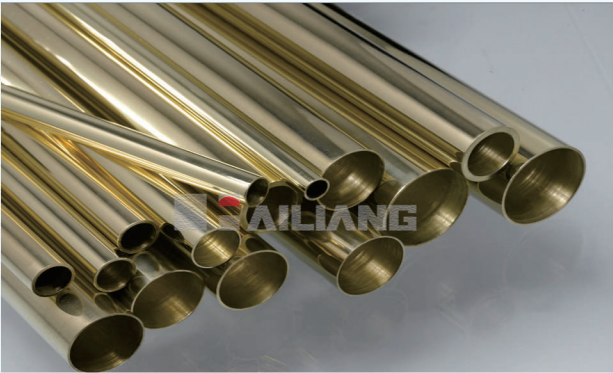
Our production lines

COPPER ALLOY SERIES

• BRASS STRAIGHT TUBE

Main Purposes:

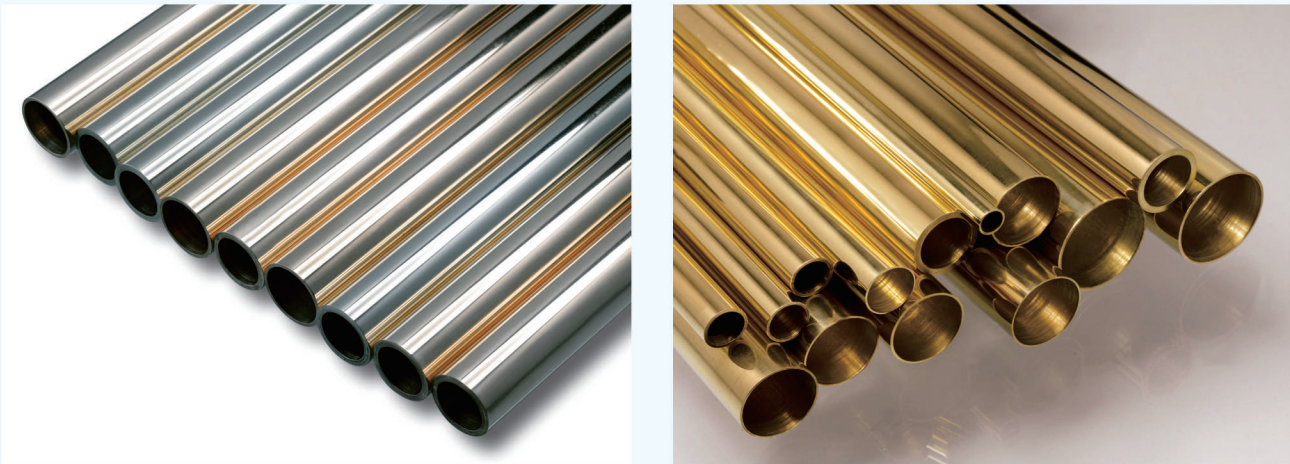
Buildings, Sanitation,
Marine,Desalt Sea Water
Seawater Desalination
Projects,etc.



◆ Main Standard and Copper Alloy No .

Standard	Copper Alloy No.	Temper
ASTMB111	C44300	O 61
	C68700	O 61
	C70600	O 61/H55
	C71500	O 61
	C71640	O 61/Hr50
JISH3300	C4430	O
	C6870	O
	C7060	O
	C7150	O
	C7164	O
BS EN12451 (BS2871)	CuZn28Sn1As(CZ111)	R320/H060/R360/H080
	CuZn20A12As(CZ110)	R340/H070/R390/H085
	CuNi10Fe1Mn(CN102)	R290/H075/R310/H105/R480/H150
	CuNi30Fe1Mn(CN107)	R370/H090/R480/H120
	CuNi30Fe2Mn2(CN102)	R420/H090
ASTMB135	C33000	O 1/2H H
	C28000	
	C27000/C27200/C27400	
	C26000/C26200/C26800	
	C23000	

• HIGH ACCURACY COPPER ALLOY TUBE



- Main Products:
- Admiralty Brass Tube C44300
 - Al-Brass Tube C68700
 - CuNi Tube C70600
 - CuNi Tube C71500/C71640

Total Capacity:50,000 Ton/Year

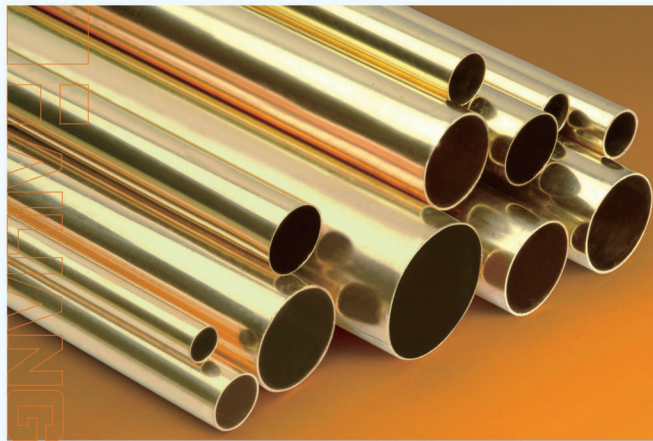
Specification scope of high accuracy copper alloy tube												
O.D.(mm)	Thickness (unit:mm)											Length(mm)
	0.4	0.4~1.0	1.0~2.0	2.0~3.0	3.0~4.0	4.0~5.0	5.0~6.0	6.0~7.0	7.0~8.0	8.0~10.0	10.0~12.0	
4.74~10	O	O										≦25000
>10~20	O	O	O	O	O							≦25000
>20~50		O	O	O	O	O	O	O				≦25000
>50~100			O	O	O	O	O	O	O	O	O	≦15000
>100~200				O	O	O	O	O	O	O	O	≦12000
>200~300					O	O	O	O	O	O	O	≦6000
>300~419					O	O	O	O	O	O	O	≦6000

Chemical composition of high accuracy copper alloy tube

Standard	Name	Copper Alloy No	Chemical Composition(%)													
			Cu	Sn	Pb	Fe	Al	Zn	Mn	Ni	As	C	Co	P	S	Others
	Admiralty Brass Tube	C44300	70.0~73.0	0.9~1.2	≤0.07	≤0.06	—	Remainder	—	—	0.02~0.06			—		—
ASTM B111	Al-Brass Tube	C68700	76.0~79.0	—	≤0.07	≤0.06	1.8~2.5	Remainder	—	—	0.02~0.06			—		—
	90-10 Cuni Tube	C70600	Remainder	—	≤0.05	1.0~1.8	—	≤1.0	≤1.0	9.0~11.0			—	—		—
	70-30 Cuni Tube	C71500	Remainder	—	≤0.05	0.04~1.0	—	≤1.0	≤1.0	29.0~33.0			—	—		—
	66/30/2/2 Cuni Tube	C71640	Remainder	—	≤0.05	1.7~2.3	—	≤1.0	1.5~2.5	29.0~32.0		≤0.06	—	—	≤0.03	—
JIS H3300	Condenser Brass Tube	C4430	70.0~73.0	0.9~1.2	≤0.05	≤0.05	—	Remainder	—	—	0.02~0.06			—		—
		C6870	76.0~79.0	—	≤0.05	≤0.05	1.8~2.5	Remainder	—	—	0.02~0.06			—		—
	Condenser CuNi Tube	C7060	Remainder	—	≤0.05	1.0~1.8	—	≤0.50	0.20~1.0	9.0~11.0	—		—	—		Cu+Fe+Mn+Ni≥99.5
		C7150	Remainder	—	≤0.05	0.04~1.0	—	≤0.50	0.20~1.0	29.0~33.0	—		—	—		Cu+Fe+Mn+Ni≥99.5
		C7164	Remainder	—	≤0.05	1.7~2.3	—	≤0.50	1.5~2.5	29.0~32.0	—		—	—		Cu+Fe+Mn+Ni≥99.5
BS EN12451 (B2671)	Condenser Brass Tube	CuZn28Sn1As (CZ111)	70.0~72.5	0.9~1.3	≤0.05	≤0.07	—	Remainder	≤0.1	≤0.1	0.20~0.06			≤0.1		≤0.3
		CuZn20A12As (Cz110)	76~79.0	—	≤0.05	≤0.07	1.8~2.3	Remainder	≤0.1	≤0.1	0.02~0.06			≤0.1		≤0.3
	Condenser CuNi Tube	CuNi10Fe1Mn (CN102)	Remainder	≤0.03	≤0.02	1.0~2.0	—	≤0.05	0.50~1.0	9.0~11.0	—	≤0.05	≤0.1	≤0.02	≤0.05	≤0.2
		CuNi30Fe1Mn (CN107)	Remainder	≤0.05	≤0.02	0.4~1.0	—	≤0.05	0.50~1.5	30.0~32.0	—	≤0.05	≤0.1	≤0.02	≤0.05	≤0.2
		CuNi30Fe1Mn (Cn108)	Remainder	≤0.05	≤0.02	1.5~2.5	—	≤0.05	1.5~2.5	29.0~32.0	—	≤0.05	≤0.1	≤0.02	≤0.05	≤0.2

COPPER ALLOY SERIES

• BRASS STRAIGHT TUBE



Thickness O.D.	0.019 " to 0.023 "	0.023 " to 0.031 "	0.031 " to 0.039 "	0.039 " to 0.047 "	0.047 " to 0.059 "	0.059 " to 0.078 "	0.078 " to 0.12 "	0.12 " to 0.16 "
1/4 " to 1/2 "	O	O	O	O	O			
1/2 " to 3/4 "	O	O	O	O	O	O		
3/4 " to 1 "		O	O	O	O	O	O	
1 " to 1-3/8 "			O	O	O	O	O	O
1-3/8 " to 2 "				O	O	O	O	O
2 " to 2-3/4 "				O	O	O	O	

• PACKING WAYS



FITTING SERIES

• FITTINGS SERIES



◆ Welding Fitting

SPECIFICATION	NOMINAL SIZE(inch/mm)	STANDARD
45°Elbow CXC	1/8 to 6	ASME B 16.22
90°Elbow CXC	1/8 to 2x11/2	
90°Long Elbow CXC	1/8 to 4	
45°Street Elbow FTGXC	1/8 to 4	
90°Street Elbow FTGXC	1/4 to 4	
90°Street Long Elbow FTGXC	1/8 to 3	
Coupling w/stop CXC Dimple	1/8 to 8	
Coupling Less/stop CXC Dimple	1/8 to 5	
Coupling w/stop rolled	1/8 to 8	
Reducing Coupling w/stop CXC	5/8x1/4 to 6x3	
Fitting Reducer FTGXC	5/8x1/4 to 4x11/4	
Tee CXCXC	1/8 to 8	
Reducing Tee	1/4x1/8 to 8x8x4	
Tube Strap	1/8 to 2	
P-Strap	1/2 to 2	EN1254-1
U-Bend	1 to 2	
Cap	1/8 to 6	
Flush Bushing FTGXC	1/4x1/8 to 2x11/2	
45° Equal Elbow CXC E10ECC	8 to 308	
90° Equal Elbow CXC HLE11ECC	6 to 308	
45°Street Elbow FTGXC E13EFC	8 to 159	
90°Street Elbow FTGXC E14EFC	6 to 219	
90° Long Radius Street Elbow CXFTG E15ELFC	12 to 108	
90° Long Radius Street Elbow CXC E12ELLC	12 to 108	
Cross CXCXCXC E60CCCC	15 22 28 35	
Equal Tee CXCXC E30TCC	6 to 308	
Reducing Tee CXCXC E31TRC	42x42x42 to 219x219x159	
Stop End E40CAP	8 to 159	
Reducing Coupler CXC E21RRC	15x10 to 219x108	
Fitting Reducer CXFTG E22RCF	16x12 to 219x159	
Equal Coupler CXC E20CC	C6 to 308	

◆ Threaded Fitting

SPECIFICATION	NOMINAL SIZE(inch)	STANDARD
Male Adapter CXM	1/4x1/8 to 2x2	ASME B16.22
Male Adapter FTGXM	1/4x1/4 to 2-1/2x2-3/8	
Female Adapter CXF	3/8x3/8 to 2x2	
Female Adapter FTGXF	1/4x1/4 to 2-1/2x2-3/8	
UNION BRASS	3/8 to 1	

◆ Solder Fitting

SPECIFICATION	NOMINAL SIZE(inch/mm)	STANDARD
45°Elbow CXC	5/8 7/8 15 to 54	ASME B16.22/EN1254-1
90°Elbow CXC	5/8 7/8 15 to 54	
90° Street Elbow FTGXC	15 to 54	
90° Reducing Elbow CXC	22x15 28x15 28x22	
Coupling CXC	5/8 7/8 8 to 54	
Slip Coupling CXC	15 22 28	
Reducing Coupling CXFTG	15x8 to 54x42	
Coupling Reducer	10x8 to 54x42	
Tee CXCXC	5/8 7/8 8 to 54	
Reducing Tee CXCXC	28x22x15 to 54x54x42	
Cap	5/8 7/8 8 to 54	

◆ Press Fitting (Gas series)

SPECIFICATION	NOMINAL SIZE(mm)	STANDARD
Forza Copper Press Gas Elbow 45°	15mm tubex15mm, 20mm tubex20mm, 25mm tubex25mm, 32mm tubex32mm, 40mm tubex40mm, 50mm tubex50mm, 65mm tubex65mm, 80mm tubex80mm, 100mm tubex100mm	As3688
Forza Copper Press Gas Elbow 45°	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	
Forza Copper Press Gas Elbow	15mm tubex15mm, 20mm tubex20mm, 25mm tubex25mm, 32mm tubex32mm, 40mm tubex40mm, 50mm tubex50mm, 65mm tubex65mm, 80mm tubex80mm, 100mm tubex100mm	
Forza Copper Press Gas Elbow	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	
Forza Copper Press Gas Coupling	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	
Forza Copper Press Gas Slip Coupling	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	
Forza Copper Press Gas Reducer	20mm tubex15mm, 25mm tubex15mm, 25mm tubex20mm, 32mm tubex20mm, 32mm tubex25mm, 40mm tubex20mm, 40mm tubex25mm, 40mm tubex32mm, 50mm tubex25mm, 50mm tubex32mm, 50mm tubex40mm, 65mm tubex40mm, 65mm tubex50mm, 80mm tubex40mm, 80mm tubex50mm, 80mm tubex65mm	
Forza Copper Press Gas Reducing Coupling	20mmx15mm, 25mmx15mm, 25mmx20mm, 32mmx20mm, 32mm x25mm, 40mmx32mm, 50mmx25mm, 50mmx32mm, 50mmx40mm, 65mmx32mm, 65mmx40mm, 65mmx50mm, 80mmx40mm, 80mmx50mm, 80mmx65mm	
Forza Copper Press Gas Equal Tee	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	
Forza Copper Press Gas Reducing Tee	20mmx15mmx(15mm), 20mmx15mmx(20mm), 20mmx20mmx(15mm), 25mmx25mmx(20mm), 32mmx32mmx(25mm), 40mmx40mmx(32mm), 50mmx50mmx(40mm), 65mmx65mmx(50mm), 80mmx80mmx(50mm), 80mmx80mmx(65mm)	
Forza Copper Press Gas End Cap	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	

◆ Press Fitting (Water series)

SPECIFICATION	NOMINAL SIZE(mm)	STANDARD
Forza Copper Press Gas Elbow 45°	15mm tubex15mm, 20mm tubex20mm, 25mm tubex25mm, 32mm tubex32mm, 40mm tubex40mm, 50mm tubex50mm, 65mm tubex65mm, 80mm tubex80mm, 100mm tubex100mm	As3688
Forza Copper Press Gas Elbow 45°	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	
Forza Copper Press Gas Elbow	15mm tubex15mm, 20mm tubex20mm, 25mm tubex25mm, 32mm tubex32mm, 40mm tubex40mm, 50mm tubex50mm, 65mm tubex65mm, 80mm tubex80mm, 100mm tubex100mm	
Forza Copper Press Gas Elbow	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	
Forza Copper Press Gas Coupling	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	
Forza Copper Press Gas Slip Coupling	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	
Forza Copper Press Gas Reducer	20mm tubex15mm, 25mm tubex15mm, 25mm tubex20mm, 32mm tubex20mm, 32mm tubex25mm, 40mm tubex20mm, 40mm tubex25mm, 40mm tubex32mm, 50mm tubex25mm, 50mm tubex32mm, 50mm tubex40mm, 65mm tubex40mm, 65mm tubex50mm, 80mm tubex40mm, 80mm tubex50mm, 80mm tubex65mm	
Forza Copper Press Gas Reducing Coupling	20mmx15mm, 25mmx15mm, 25mmx20mm, 32mmx20mm, 32mm x25mm, 40mmx32mm, 50mmx25mm, 50mmx32mm, 50mmx40mm, 65mmx32mm, 65mmx40mm, 65mmx50mm, 80mmx40mm, 80mmx50mm, 80mmx65mm	
Forza Copper Press Gas Equal Tee	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	
Forza Copper Press Gas Reducing Tee	20mmx15mmx(15mm), 20mmx15mmx(20mm), 20mmx20mmx(15mm), 25mmx25mmx(20mm), 32mmx32mmx(25mm), 40mmx40mmx(32mm), 50mmx50mmx(40mm), 65mmx65mmx(50mm), 80mmx80mmx(50mm), 80mmx80mmx(65mm)	
Forza Copper Press Gas End Cap	15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 65mm, 80mm, 100mm	

• BRASS FITTINGS



Copper Alloy No.: C46500
C37700
C35200

◆ Fitting Series

Brass capillary fitting		
Male Coupling		Female Coupling
15mm×1/2" M	22mm×3/4" M	15mm×1/2" F 22mm×3/4" F
28mm×1" M	15mm×3/4" M	28mm×1" F 15mm×3/4" F
22mm×1" M		
Male Elbow		Female Elbow
15mm×1/2" M	22mm×3/4" M	15mm×1/2" F 22mm×3/4" F
28mm×1" M	15mm×3/4" M	28mm×1" F 15mm×3/4" F
Female Tee		Wall Plated Elbow
15mm×15×1/2" F	22mm×22×3/4" F	15mm×1/2" F
28mm×28×1" F		22mm×3/4" F

◆ Brass Compression Fittings

Male Couping And Female Coupling	
15mm×1/2" M/F	22mm×3/4" M/F
28mm×1" M/F	15mm×3/4" M/F
Coupling	Male Elbow
15mm×15mm 22mm×22mm	15mm×1/2" M 22mm×3/4" M
28mm×28mm 22mm×15mm	28mm×1" M 15mm×3/4" M
28mm×22mm	
Female Elbow	Elbow
15mm×1/2" F 22mm×3/4" F	15mm×15mm 22mm×22mm
28mm×1" F 15mm×3/4" F	28mm×28mm 22mm×15mm
	28mm×22mm
Tee	Wall Plated Elbow
15mm×15mm×1/2" F	15mm×1/2" F 22mm×3/4" F
22mm×22mm×3/4" F	
22mm×22mm×1/2" F	
28mm×28mm×1" F	
15mm×15mm×15mm	
22mm×22mm×22mm	
28mm×28mm×28mm	
22mm×22mm×15mm	
22mm×15mm×22mm	

◆ Threaded Fittings

Nipple F×M	Cap	Coupling M×M
3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"
Coupling F×F	Coupling M×F	Elbow F×F
3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"
Elbow M×F	Elbow M×M	Tee F×F×F
3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"
Reducing Bush F×F		Reducing Adapter M×M
1/2" ×3/8" 3/4" ×1/2"		1/2" ×3/8" 3/4" ×1/2"
1" ×1/2" 1" ×3/4"		1" ×1/2"
11/4" ×3/4" 11/4" ×1/2"		11/4" ×3/4" 11/4" ×1/2"
3Piece Adapter M×F	3Pieceadapter F×F	3 Piece Adapter M×M
3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"
3PIECE ADAPTER M×M		NUT
3/8" 1/2" 3/4" 1"		16" 1/2" 20×3/4"
Female Adapter		
1/2" F×1/2" /16	1/2" F×3/4" /20	3/4" F×3/4" /20
Male Elbow		Female Elbow
1/2" /16×1/2" /16		1/2" F×1/2" /16 3/4" F×1/2" /16
3/4" /20×3/4" /20		1/2" F×3/4" /20 3/4" F×3/4" /20
Female Tee		
1/2" /16×1/2" F×1/2" /16 3/4" /20×1/2" F×3/4" /20		
3/4" /20×3/4" F×3/4" /20		
Male Tee		
1/2" /16×1/2" /1/2" /16		
3/4" /20×1/2" ×3/4" /20		

INSULATED COPPER TUBES
PLASTIC-COATED COPPER TUBES

Main Purposes:
Air Conditioning,
Water, Gas, etc.



◆ Standard Size(inch)

Type	Size d2×t2/d1×t1	O.D.of the tube d1 d2 d3	Thickness of Insulator t1t2t3t4	Length	Material	Weight Pounds/feet
-P2320 -P2330	$\frac{1}{4} " \times 0.032$ $\frac{3}{8} " \times 0.032$	1.02 " 0.87 " 1.89 "	0.35 " 0.2 "	30ft to 100ft	0	0.233
-P2420 -P2430	$\frac{1}{4} " \times 0.032$ $\frac{1}{2} " \times 0.032$	1.30 " 0.87 " 2.17 "	0.394 " 0.2 "	30ft to 100ft	0	0.286
-P2520	$\frac{1}{4} " \times 0.032$ $\frac{5}{8} " \times 0.039$	1.42 " 0.87 " 2.29 "	0.394 " 0.2 "	30ft to 100ft	0	0.390
-P3520	$\frac{3}{8} " \times 0.032$ $\frac{5}{8} " \times 0.039$	1.42 " 1.02 " 2.44 "	0.394 " 0.2 "	30ft to 100ft	0	0.440
-P3620	$\frac{3}{8} " \times 0.032$ $\frac{3}{4} " \times 0.039$	1.54 " 1.02 " 2.56 "	0.394 " 0.2 "	30ft to 100ft	0	0.569
-P4620	$\frac{1}{2} " \times 0.032$ $\frac{3}{4} " \times 0.039$	1.54 " 1.30 " 2.84 "	0.394 " 0.2 "	30ft to 100ft	0	0.629

PLASTIC-COATED COPPER TUBES MADE ACCORDING TO EN1057 OR ASTM B88

DN (mm)	O.D. (mm)	Thickness (mm)	Gear-shaped Loop (mm)	Parallerl Loop (mm)	Foam (mm)	Maximum Deviation (mm)	Length	Maximum Deviation (mm)
15	15	0.7	18.6	17	21.5	±0.20	2.9 to 5.8	0 to +10
20	22	0.9	25.6	24	28.5			
25	28		31.6	30				
32	35	1.2		37.6		±0.30		
40	42			44.6				
50	54			56.8		±0.40		
65	67			69.8				
80	76	1.5		78.8		±0.50		

SMALL FURBISHED
BRASS ROD SERIES

• SMALL FURBISHED BRASS RODS

Main Purposes :
Air Conditioning, Electricity, Machinery, Etc.



Designation, Chemical Composition of Small Furbished Brass Rods

Copper Alloy No .		Designation	Width or Diameter (mm)
JIS	UNS		
C2700	C27000	—	Round Rod 5 to 80
C2800	C28000	—	
—	C34000 C34500 C35000 C35300	ASTM B453	
—	C36000	ASTM B16	
C3601	C36000	—	
C3602	C36000	—	Square Rod Hexi Rod 12 to 40
C3603	—	—	
C3604	—	—	
C3605	—	—	
C3712 C3771	C37100 C37700	—	
C4622	C46200	—	
C4641	C46400	—	
—	C48500	ASTM B21	
—	C67300 C67600	ASTM B138	
C6782	—	—	
C6783	—	—	

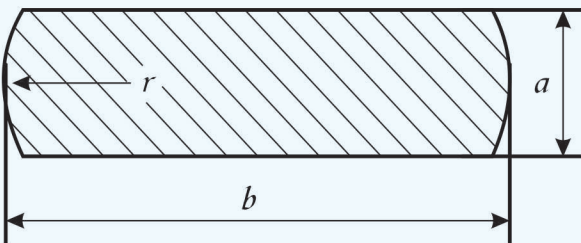
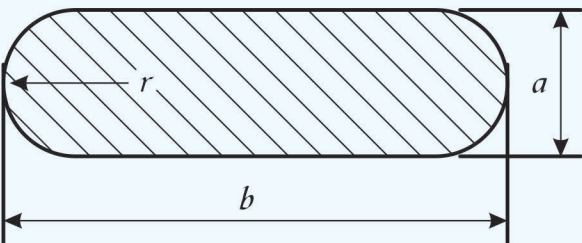
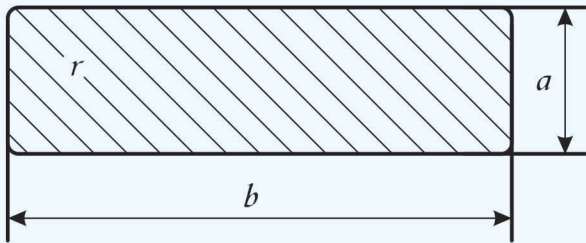
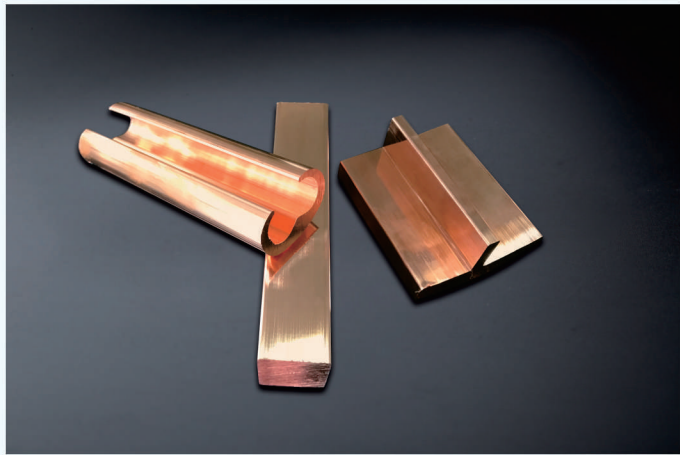
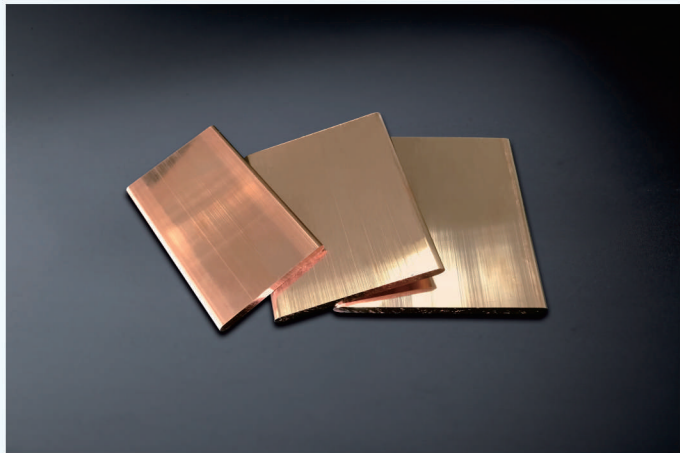
• CONDUCTIVE COPPER BUSBAR

Main Purposes:

Copper busbar is widely used in electrical field, such as transformer, switch contact, switchgear, distribution cabinet, generator unit and etc.

Standard: · GBT 5585.1-2005
· ASTM B187-2015
· JIS H3140-2012

Total Capacity: 20,000 MT

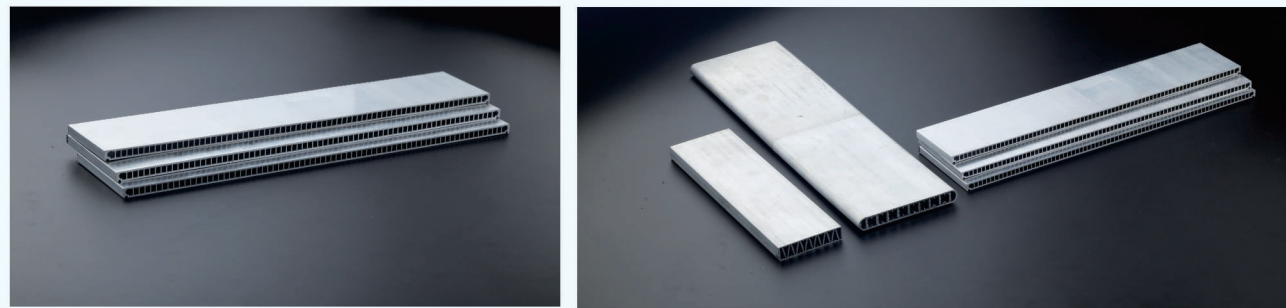


◆ Specifications (For reference only)

NO.	a*b	NO.	a*b	NO.	a*b	NO.	a*b	NO.	a*b
1	3*12	32	5*40	63	6*160	94	9.5*100	125	14*120
2	3*15	33	5*45	64	6*170	95	10*10	126	15*15
3	3*20	34	5*50	65	6*200	96	10*20	127	15*30
4	3*25	35	5*60	66	6.3*93	97	10*30	128	15*40
5	3*30	36	5*63	67	7*30	98	10*40	129	15*50
6	3*40	37	5*80	68	7*40	99	10*50	130	15*100
7	3*45	38	5*100	69	7*50	100	10*56	131	16*16
8	3*50	39	5*120	70	7*80	101	10*60	132	16*50
9	3*70	40	5*140	71	8*20	102	10*63	133	16*60
10	3*75	41	5*160	72	8*25	103	10*70	134	18*50
11	3*80	42	5*200	73	8*30	104	10*80	135	18*80
12	3*100	43	6*20	74	8*32	105	10*90	136	20*20
13	3*120	44	6*25	75	8*40	106	10*100	137	20*30
14	3*140	45	6*30	76	8*50	107	10*120	138	20*50
15	3*160	46	6*35	77	8*53	108	10*125	139	20*60
16	3*200	47	6*40	78	8*55	109	10*140	140	20*100
17	4*15	48	6*45	79	8*60	110	10*150	141	20*125
18	4*16	49	6*50	80	8*63	111	10*160	142	20*160
19	4*20	50	6*60	81	8*65	112	12*20	143	22*22
20	4*25	51	6*63	82	8*70	113	12*30	144	22*60
21	4*30	52	6*65	83	8*75	114	12*40	145	24*54
22	4*40	53	6*75	84	8*80	115	12*50	146	25*25
23	4*50	54	6*80	85	8*90	116	12*60	147	25*50
24	4*60	55	6*85	86	8*100	117	12*80	148	25*60
25	4*80	56	6*90	87	8*110	118	12*100	149	25*100
26	5*15	57	6*100	88	8*120	119	12*120	150	28*28
27	5*20	58	6*110	89	8*125	120	12*125	151	30*30
28	5*25	59	6*120	90	8*130	121	12*150	152	30*50
29	5*28	60	6*125	91	8*160	122	12.5*100	153	30*80
30	5*30	61	6*140	92	9*100	123	13*13	154	35*50
31	5*35	62	6*150	93	9*120	124	14*14	155	40*40

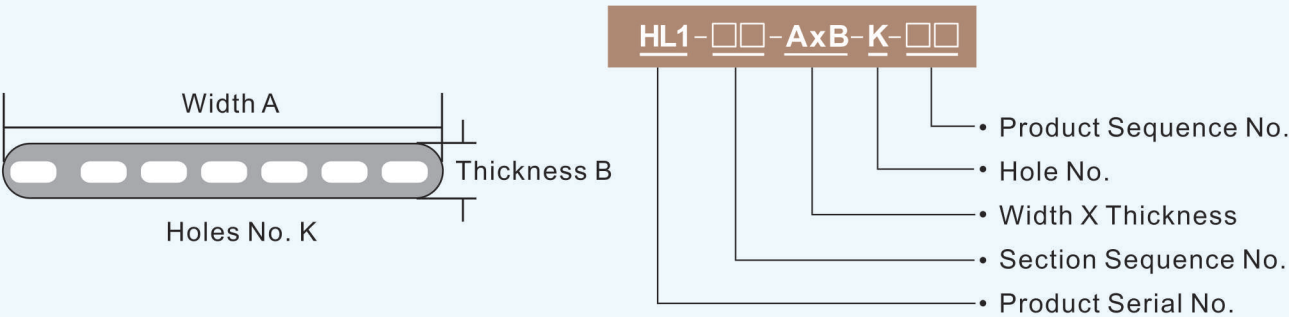
ALUMINUM MULTI-PORT EXTRUSION TUBE

ALUMINUM MULTI-PORT EXTRUSION TUBE



Main Purposes:

Aluminum Multi-Port Extrusion Tube is mainly used in Micro Channel Heat Exchanger (MCHE) which performs higher heat transfer efficiency.



Model	Width (mm)	Thickness (mm)	Holes Number	kg/m	Material Grade
HL1-1-12×1.4-12-1	12	1.4	12	0.0268	3102
HL1-2-16×1.3-16-1	16	1.3	16	0.0364	3102
HL1-4-16×2-10-1	16	2	10	0.043	1100
HL1-15-20×1.8-10-1	20	1.8	10	0.0542	3102
HL1-35-20×1.8-12-1	20	1.8	12	0.0482	1100
HL1-21-25×2-18-1	25	2	18	0.0754	3102
HL1-6-25.4×2-13-1	25.4	2	13	0.0702	3102
HL1-8-26×2-21-1	26	2	21	0.0745	3102
HL1-91-26×2-13-1	26	2	13	0.0779	1100
HL1-22-32×2-25-3	32	2	25	0.0956	3102
HL1-39-32×2.05-6-1	32	2.05	6	0.089	3003
HL2-15-45×2.5-8	45	2.5	8	0.0858	3F03
HL2-28-50×5-10	50	5	10	0.1906	3F03
HL2-26-57×5-10	57	5	10	0.2665	3F03

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