



**mkm**  
we live copper

Strips  
Sheet from strip

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## OUR ASPIRATION

# Our sheets made from strip keep us ahead of our rivals – by lengths.

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Copper has remarkable properties. It conducts very well, withstands extreme temperatures and is highly corrosion-resistant, for centuries, in fact. On top of all that it looks elegant yet vibrant. It's no wonder that copper and its alloys such as brass and bronze give rise to so many ideas – in practically every industry and field, be it arts and crafts, the electrical industry, machine-building, architecture, the lifestyle industry, decoration – the list is long.

Sheets made from copper, brass or bronze strip are popular among architects since their warm colours go well with natural products like stone and wood. This has made it a highly fashionable material which has been used in numerous hotels, public lounges, spas and other places of wellbeing.

Copper is also a winner from a technical and functional point of view. That's why it is used so often in electrical engineering as well as the power supply industry and in off-shore systems.

MKM sheets made from strip are a beautiful and functional choice to make. Many global players see it that way. Why do so many world-market-leaders trust us, and why does our market share grow year by year? Perhaps because we deliver our standard products faster, because we're more flexible about special lengths and special alloys. Or because our fully integrated production facilities enable us to guarantee quality from start to finish. Whichever way you look at it, we're usually lengths ahead of our rivals.

# Used worldwide. Copper and alloys from Mansfeld.

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**M**KM strip sheet's outstanding processing properties enable it to adapt to almost anything. Our customers love this product because it's so good for punching, bending, deep-drawing, milling, galvanising and welding. All this means it possesses the perfect properties for perforated sheet, the production of stamped and bent parts, gaskets, pressure containers, busbars for switching cabinets and countless other things.

## Our expertise – your gain

MKM sheets made from strip fully satisfy every conceivable chemical and mechanical requirement. Copper and copper alloys from Mansfeld are used all over the world – in Europe, North Africa, the Middle East, South-East Asia and the Far East. And for good reason.

## Word gets around about expertise

Hamburg, London and New York trust Mansfeld's copper and brass. These are cities famed for their good taste. Cladding made of copper has established itself firmly as an element of style in contemporary architecture. Take the Hotel Empire Riverside Hamburg for example, or the Bloomberg in London and Rockefeller Plaza in New York – all of them rely on copper from Mansfeld. Of course, copper is also used inside buildings, not least in lifts – which is particularly apt given copper's tendency to elevate things.

MKM sheet from strip is available cold-rolled in copper, brass and bronze. It comes in lengths of up to 4 m, thicknesses between 0.5 mm and 10 mm and widths of up to 1220 mm (different dimensions on request). We always have at least three tonnes of the most common varieties in stock, which you can call off at short notice.



With us it's not just about the product, it's also about perfect packaging so that the product stays the way it's supposed to be.

**By opting for MKM's sheets made from strip you are choosing:**

- grease-free, clean, plain-rolled surfaces, thicknesses up to 4.0 mm
- computer and camera controlled surface inspection on both sides
- a product manufactured and tested using tolerances based on the common standards (EN, ASTM, JIS), or using customer standards given sufficient tonnage
- comprehensive support and advice during the selection process
- decades of experience involving standard and special-ised requirements
- a durable, vibrant, versatile and maintenance-free material
- a material that is light and flexible to process
- a recyclable, ecologically and economically competitive material
- a huge variety of product widths and thicknesses
- integrated production – from preliminary to finished strip – all from a single source
- more than a century of experience across the entire spectrum of copper production and processing
- a highly qualified workforce
- comprehensive advice and support for:
  - product development
  - surface qualities
  - new material qualities and alloys
  - optimising the use of materials
  - new applications
  - improving business and technological processes
- product- and order-specific packaging, etc.

# Facts and figures

Alloy	Thick-ness in mm	Strength		
		soft	half-hard	hard
1) Cu-ETP, EN 1652/EN13599 1000 x 2000 mm	0,50		x	
	0,80		x	
	1,00		x	
	1,50		x	
	2,00	x	x	x
	2,50	x	x	x
	3,00	x	x	x
	4,00	x	x	x
	5,00	x	x	
	6,00		x	
2) C1100, JISH3100/2006, 1/2 h (equivalent to Cu-ETP) 1219,2 x 2436,8 mm	1,00		x	
	1,50		x	
	2,00		x	
	3,00		x	
3) Cu-DHP, EN1652 1000 x 2000 mm	0,50		x	
	0,80		x	
	0,90		x	
	1,00	x	x	
	1,20		x	
	1,50	x	x	
	2,00	x	x	
	2,50	x	x	
	3,00	x	x	
	4,00		x	
5,00		x		
6,00		x		

Alloy	Thick-ness in mm	Strength			
		soft	half-hard	hard	
4) Cu-OF, EN1652/EN13599 1000 x 2000 mm	1,00		x		
	1,50		x		
	2,00		x		
	3,00		x		
	4,00		x		
	5,00		x		
	6,00		x		
	10,00		x		
	5) CuZn37, EN 1652 1000 x 2000 mm	0,50		x	
		0,80	x	x	
0,90			x		
1,00		x	x		
1,20			x		
1,50		x	x		
2,00		x	x		
2,50			x		
3,00		x	x		
4,00			x		
6) C272, JISH3100/2006, 1/2 h (equivalent to CuZn37) 1219,2 x 2436,8 mm	0,80		x		
	1,00		x		
	1,50		x		
	2,00		x		
	3,00		x		
	4,00		x		

## Alloys, copper

Material DIN/EN	Material no.	Material abbreviation as per				
		ISO	ASTM	BS	AFNOR	JIS
E-Cu 58/CW 004 A	2.0065	Cu-ETP	C 11000	C 101	Cu-a1	C 1100
SE-Cu/CW 020 A CW 021 A	2.0070	Cu-PHC Cu-HCP	C 10300	C 103	Cu-c1	-
SF-Cu/CW 024 A	2.0090	Cu-DHP	C 12200	C 106	Cu-b1	C 1220
OF-Cu/CW 008 A	2.0040	Cu-OF	C 10200	C 103	Cu-c1	C 1020
Cu-OFE/CW 009 A	-	Cu-OFE	C 10100	C 110	Cu-c2	C 1011

Special alloys on request

## Alloys, brass, lead-free

Material DIN/EN	Material no.	Material abbreviation as per				
		ISO	ASTM	BS	AFNOR	JIS
CuZn37/CW 508 L	2.0321	CuZn37	C 27400	CZ 108	-	C 2720

## Alloys, bronze

Material DIN/EN	Material no.	Material abbreviation as per				
		ISO	ASTM	BS	AFNOR	JIS
CuSn6/CW 452 L	2.1020	CuSn6	C 51900	PB 103	CuSn6 P	C 5191
CuSn8/CW 453 L	2.1030	CuSn8	C 52100	PB 104	CuSn9 P	C 5212

Other alloys on request

## Product areas



### STRIP

MKM supplies preliminary strip, industrial strip, transformer strip, cable and HF cable strip and roofing strip. We manufacture all of our strip products using our Conti-M® technology which we developed inhouse, using continuous casting technology to achieve a uninterrupted 24/7 process.



### SHEETS, PLATES AND DISCS

MKM offers sheets, plates and discs in a wide range of dimensions. Our rolling mill is supplied by our own foundries. Our strengths lie in a rich range of more than fifty alloys. We can also produce plates and discs to customer specific drawings on request.



### WIRE

MKM supplies the entire spectrum of wire rod, from thick, medium and fine wire to stranded wire and wire rope. Our fully integrated Contirod® technology allows us to offer copper wire products and alloy wire products (plain and tinned) with a wide range of finishes.



### TUBES

MKM supplies tubes of different lengths, diameters and thicknesses. Our HETCU® (installation tubing) and HETCOOL® (refrigeration, air conditioning and medical technology) product families are extremely well established in the market. Consistent quality management from our own continuous casting plant, right through to the tube drawing process guarantees seamless tubing with outstanding quality.



### BARS

MKM is one of Europe's leading producers of copper bars and profiles. Our production range encompasses a wide range of sizes in various grades of copper. We also produce customised profiles based on technical drawings.



### CUSTOM SOLUTIONS

MKM develops solutions tailored entirely to its customers' requirements. With the technical means and many years of experience, we regularly find unconventional solutions.

We can manufacture any of our products in compliance with the relevant DIN standards, internationally established standards and custom requirements. All of our packaging is appropriate to the products it contains.

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