



KUKPLAN

aluminum plates – cast & milled



KUKPlan CST and **CST-M** are made from cast and homogenized ingots of the naturally hard alloy **EN AW 5083**.

These plates are stress-relieved and have an excellent machineability. The homogenized structure and the specific heat treatment add to the features of these products.

KUKPlan CST and **CST-M** are used in all areas of mechanical engineering as well as in mold and tool-construction.



For more information on our products and services, feel free to contact our headquarter in Lilienthal or one of our subsidiaries.

KASTENS & KNAUER GMBH
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KuK CST plates and blocks, cast, rough cut

Sizes: 1500 x 3000 mm (1270 x 3000; 1520 x 3020 mm)

Other sizes upon request

thickness	theor. weight	
mm	kg/m ²	EN AW 5083
10,0	27,9	◆
12,0	33,5	◆
15,0	41,8	◆
20,0	55,8	◆
22,0	61,3	◆
25,0	69,7	◆
30,0	83,7	◆
35,0	97,6	◆
40,0	111,6	◆
45,0	125,1	◆
50,0	139,5	◆
55,0	152,9	◆
60,0	167,4	◆
65,0	180,7	◆
65,0	180,7	◆
70,0	194,6	◆
75,0	208,5	◆
80,0	222,4	◆
85,0	236,3	◆
90,0	250,2	◆
95,0	264,1	◆
100,0	278,0	◆
110,0	305,8	◆
115,0	319,7	◆
125,0	347,5	◆
130,0	361,4	◆
140,0	389,2	◆
150,0	417,0	◆

◆ on stock



We cut from cast, homogenized ingots up to 800 mm in thickness.

Please contact us for any desired thickness and intermediate size in the horizontal section.

Surfaces and edges are rough cut and – due to the structure – stress relieved.





KuKPlan CST-M plates, cast, homogenized, milled

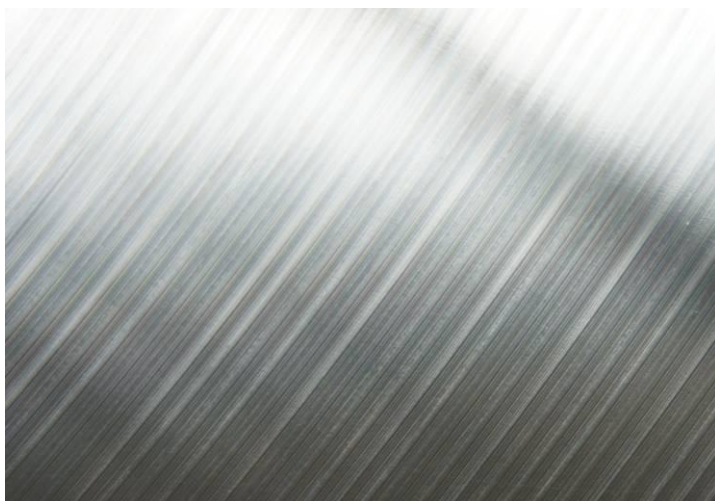
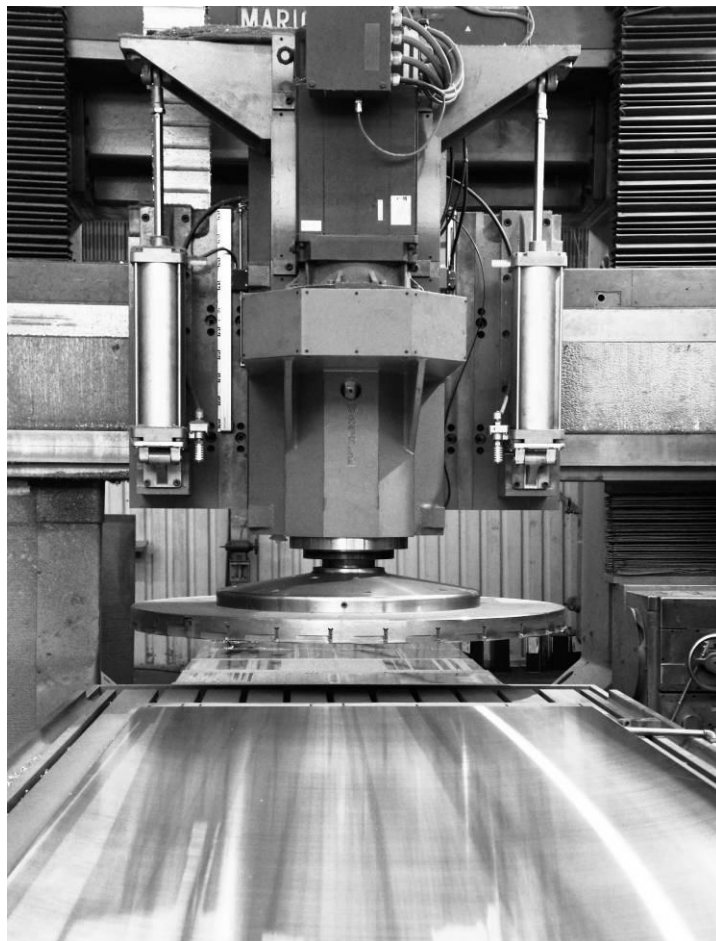
Sizes: 1500 x 3000 mm (1270 x 3000; 1520 x 3020 mm)

Other sizes upon request

thickness	theor. weight	
mm	kg/m ²	EN AW 5083
10,0	27,9	◆
12,0	33,5	◆
13,0	36,3	◆
15,0	41,8	◆
18,0	50,0	◆
20,0	55,8	◆
22,0	61,3	◆
25,0	69,7	◆
30,0	83,7	◆
35,0	97,6	◆
40,0	111,6	◆
50,0	139,5	◆
60,0	167,4	◆

◆ on stock

KUKPlan CST-M is a very profitable product, when it comes to machineability.



KuKplan RMT plates, rolled, forged, milled and PVC coated

Sizes: 1500 x 3000 mm (1520 x 3020 mm)

Other sizes upon request

thick ness	theor. weight	RMT 280	RMT 281	RMT 500
mm	kg/m ²	EN AW 5083	EN AW 6082	EN AW 7075
6,0	16,6	◆	◆	
8,0	22,3	◆	◆	◆
10,0	27,9	◆	◆	◆
12,0	33,5	◆	◆	◆
13,0	36,3	◆	◆	
15,0	41,8	◆	◆	◆
20,0	55,8	◆	◆	◆
22,0	61,3	◆	◆	
25,0	69,7	◆	◆	◆
30,0	83,7	◆	◆	◆
35,0	97,6	◆	◆	◆
40,0	111,6	◆	◆	◆
50,0	139,5	◆	◆	◆
60,0	167,4	◆	◆	

◆ on stock

The milling machine and the tools are used exclusively for the production of the CST-/RMT-family.

So we can assure to work with production machines that are perfectly designed for the material.

Our products are constantly enhanced and improved and are now available in 3 different alloys for a variety of applications.

Our product **RMT 500 (EN AW7075)** offers a particularly high strength and more dimensional stability.

For anodizing purposes we have developed RMT **281 (EN AW 6082)**.

RMT

The product RMT (rolled – milled – tempered) by **KASTENS & KNAUER GmbH & Co. International KG** stands for both sided flat-milled aluminum plates, which are also provided with a protective double-sided PVC cover.

To achieve the maximum results in the production of these plates, we put great focus to the selection of primary material and their certified production according to **DIN EN ISO 9001:2008**.



Tolerances and variations in cast and rolled plates

The tolerances for plates are:

Nominal thickness	CST-M (cast)	RMT 280 (rolled)	RMT 281 (rolled)	RMT 500 (rolled)
	EN AW 5083	EN AW 5083	EN AW 6082	EN AW 7075
< 16 mm	+/- 0,10 mm	+/- 0,10 mm	+/- 0,10 mm	+/- 0,15 mm
>= 16 mm	+/- 0,10 mm	+/- 0,10 mm	+/- 0,10 mm	+/- 0,15 mm

Deviation of flatness

Nominal thickness	CST-M (cast)	RMT 280 (rolled)	RMT 281 (rolled)	RMT 500 (rolled)
	EN AW 5083	EN AW 5083	EN AW 6082	EN AW 7075
< 16 mm	0,35 mm/m	0,35 mm/m	0,35 mm/m	0,40 mm/m
>= 16 mm	0,25 mm/m	0,25 mm/m	0,25 mm/m	0,35 mm/m

For cut offs a revised scheme is necessary.

Dmax = total deviation in percent

Non heat treated alloys CST-M und RMT 280

Nominal thickness		Total variance partial variance	partial variance in %
from	to	in % of gauge length	(with an axis –l– min. 200 mm)
		Dmax/L	Dmax/l
> 6,0	15,9	0,045	0,13
16,0	50	0,035	

Heat treated alloys RMT 281 und RMT 500

Nominal thickness		Total variance partial variance	partial variance in %
from	to	in % of gauge length	(with an axis –l– min. 200 mm)
		Dmax/L	Dmax/l
> 6,0	15,9	0,055	0,15
16,0	50	0,045	

