



WORLD LEADERS IN PRECISION ALUMINUM

world class product quality. excellence in delivery performance. outstanding customer service.

WE ARE ALIMEX

world leaders in precision aluminium.



We are **market founder** and **leading provider** of high precision quality aluminium cast products.

Leading technology based on more than 40 years of experience in aluminium production and processing.

Through **continuous product innovations** we have achieved a leading position in both the German and the global market alike.

Worldwide success. Expansion of the alimex Group in Europe, America, Asia.

Currently 180 employees.

CORE BUSINESS

our key capabilities.

Development, production, processing & distribution of high precision aluminium cast products.

INDUSTRY PRODUCTS

plates

cuts and blocks

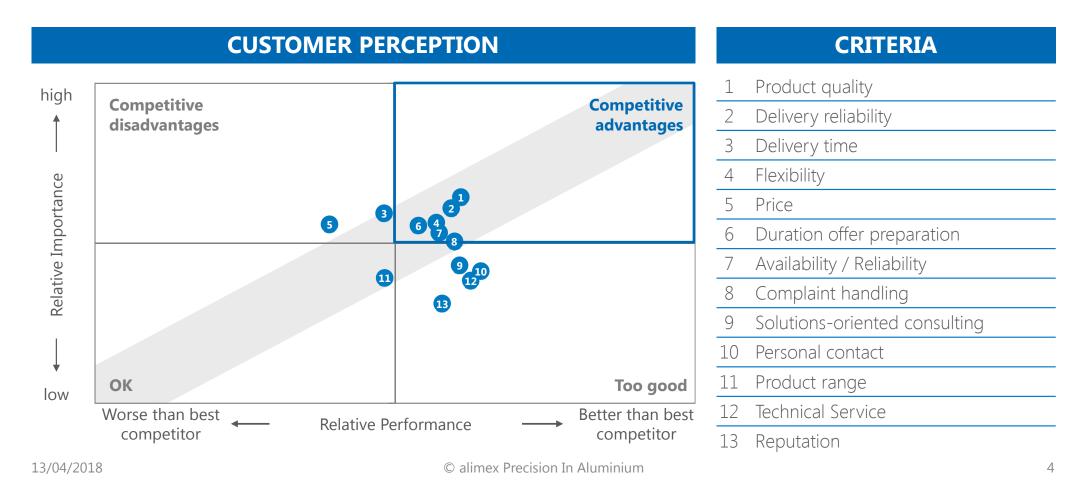
complex CNC components

Centre of Research & Excellence (CoRE)



COMPETITIVE POSITIONING

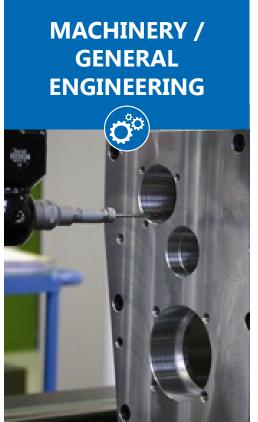
90% of our clients would recommend alimex.



TARGET MARKETS

numerous market applications.









13/04/2018

© alimex Precision In Aluminium

ALIMEX TODAY

Today, still a family owned business, aluminium cast plates remain at the heart of alimex, complimented by the introduction of precision CNC machined components in 2000









alimex Germany







alimex Americas

alimex Benelux

alimex APAC

ALIMEX PRODUCT PORTFOLIO

alimex Cast Plate: 5080, 5754, ACP 7

Fine grain structure, low porosity and excellent machining characteristics all define the cost saving and value added attributes of every block or plate of ACP. Offered with Precision Machined (P) or Raw Sawn (R) surface finishes. Our flatness and tolerances are industry leading, predicable and precise.

alimex Eloxpure®: 5080, 5754

In-House R&D developed product consistently offering improved anodising, with maximum technical and visual performance.

alimex Rolled Plate: 5083, 6082, 7075

PLANAL products are a range of rolled aluminium plates with precision machined surfaces. Industry leading material with unmatched flatness and tolerances





ALIMEX CAST TOOLING PLATE PRODUCTION

Slab Production and alimex Quality Control

- Vertical DC Casting Process by others
- alimex Chemical Composition
- alimex Casting Parameters
- alimex In-House Bespoke Heat Treatment

alimex Cast Slab Benefits

- ✓ Fine Grain Structure
- ✓ Low Porosity
- ✓ Market Leading Mechanical Properties
- ✓ Full Stress Relieved Product
- ✓ World Class Quality
- ✓ Product Reliability and Repeatability









Processing to alimex Cast Plates for surface machined- or sawn plates

Processing to rolled plates

ALIMEX IN HOUSE HEAT TREATMENT FACILITY



Bespoke Heat Treatment Facility

- Designed and Developed by alimex
- A Truly Unique bespoke solution
- Resource Saving and Environmentally Friendly
- Various Heat Treatment possibilities for alimex Products
- 550 Tonne capacity for various slab sizes
- In-House Heat Treatment Processing
- Over 40 years of development and optimisation
- Finely tuned Heat Treatment for Optimal Results
- Repeatability and Quality Guaranteed

ALIMEX PRODUCTION – PLATES AND BLOCKS

alimex Cast Plate & Block Production

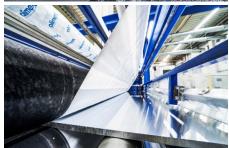
- Maximum Thickness of 1000mm
- Horizontally Sawn in cold Condition
- Surface Machined in cold Condition
- Top and Bottom Surfaces Ready for use
- All plates and blocks have the same
 - Mechanical Properties throughout
 - No Inherent Stresses
 - PVC Coated on Both Sides

alimex Cast Plate & Block Benefits

- ✓ Fine Grain Structure
- ✓ Low Porosity
- ✓ Market Leading Mechanical Properties
- ✓ Full Stress Relieved Product
- ✓ World Class Quality
- ✓ Product Reliability and Repeatability









	alimex Cast Plate	Rolled Plate				
Flatness	Deviation 0,13 – 0,4mm	Deviation 3,00 – 9,5mm				
Surface Finish (Ra)	<0,3µm	Typical 80μm – 115μm				
Thickness Tolerance	± 0,1mm (Machined Only)	± 0,3 – ± 3,3mm				
Thickness	5 – 250mm Machined (P) 8 – 1060mm Sawn (R)	5 – 300mm				
Stability	Very Stable	Not Guaranteed				
ACP in many circumstances can replace Rolled Plate and MIC 6 Cast Plate						

Precision CNC Machining









Precision CNC Machining



1500 mm

12



13/04/2018

OUR MACHINERY PORTOFOLIO CURRENTLY INCLUDES THE FOLLOWING

1100 mm

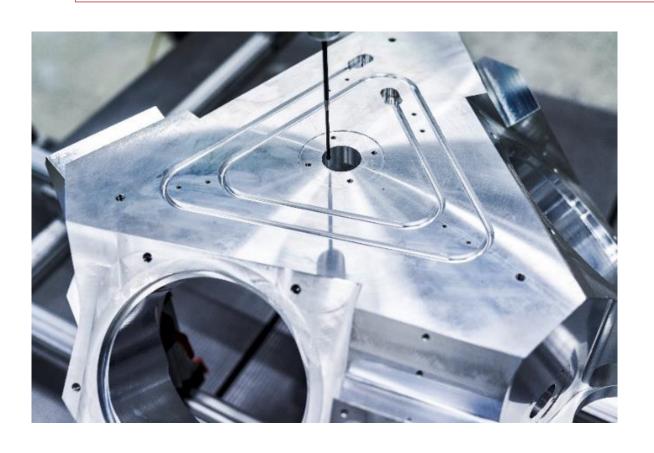
2700 mm 2700 mm 1600 mm

DEGUE: 144	110.45005	D. 411 200D	(a . a avus)	WINGENEUM.	
DECKEL MAHO 1600S		DMU 200P (3 + 2 AXIS)		JUNGENTHAL	
	sal Milling Machine		sal Milling Machine	Horizontal Rotating Table Lathe	
Workspace	/ driveway	Workspace	/ driveway	Workspace / driveway	
X =	1600 mm	X =	1800 mm	Turntable-ø	1500 mm
Y=	800 mm	Y=	2000 mm	Diameter-ø	1400 mm
Z=	550 mm	Z=	1100 mm	Max Material Thickness	500 mm
DOOSAN MECATEC 1400 H		FOOKE 905 LINEAR (5 AXIS)		VDF	
CNC Universal Milling Machine		CNC Univer	sal Milling Machine	Lathe Center	
Workspace / driveway		Workspace / driveway		Workspace / driveway	
X =	1400 mm	X =	4500 mm		
Y=	700 mm	Y=	3000 mm	Max. Diameter	400 mm
Z=	625 mm	Z=	1500 mm	Max. Length	900 mm
DMU 200P (5 AXIS)		FOOKE END	OURA	KMG WENZEL LH 65	
CNC Universal Milling Machine		CNC Universal Milling Machine		Measuring Machine	
Workspace / driveway		Workspace / driveway		Workspace / driveway	
X =	1800 mm	X =	3100 mm	X =	650 mm
Y=	2000 mm	Y=	2600 mm	Y=	1600 mm
Z=	1100 mm	Z=	300 mm	Z=	500 mm
DMU 200P (5 AXIS)		DECKEL FP	2	KMG Zeiss MMZ-E	
CNC Universal Milling Machine		CNC Universal Milling Machine		Measuring Machine	
Workspace / driveway		Workspace / driveway		Workspace / driveway	
X =	1800 mm	X =	500 mm	X =	2000 mm
Y=	2000 mm	Y=	300 mm	Y=	4000 mm

400 mm

Precision CNC Machining





<u>Aluminium Component Production</u>

- Manufacturer for over 20 years
- References available on request
- Large 5 Axis Capabilities (4500 x 3000 x 1500mm)
- Large CMM Capabilities (2000 x 4000 x 1500mm)
- Recent investments include:
 - DMU 270P (Q1 2018)
 - Cleaning & Packing Building
 - QA: ISO9001:2015 Approved



