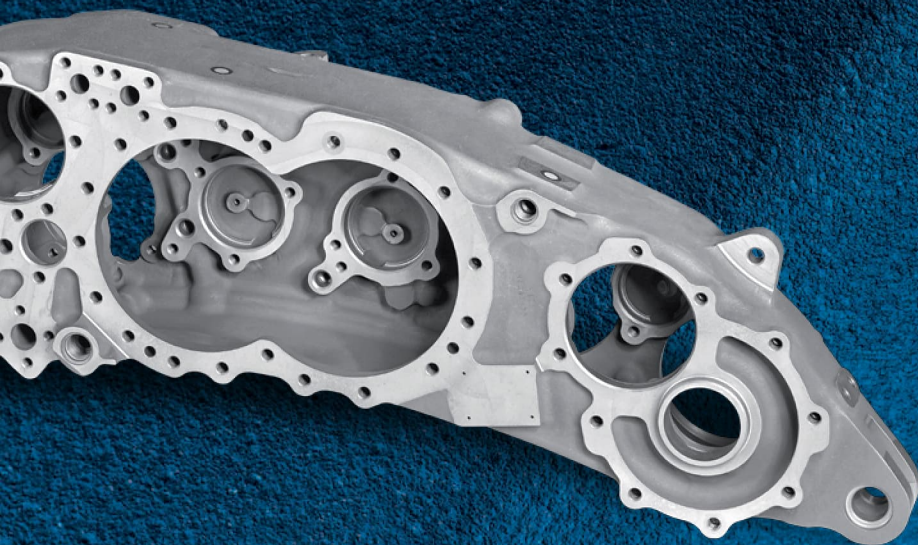


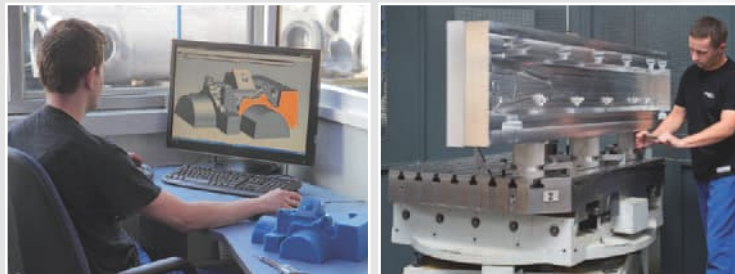


Thoni Alutec®
Casting the future

PRECISION IN

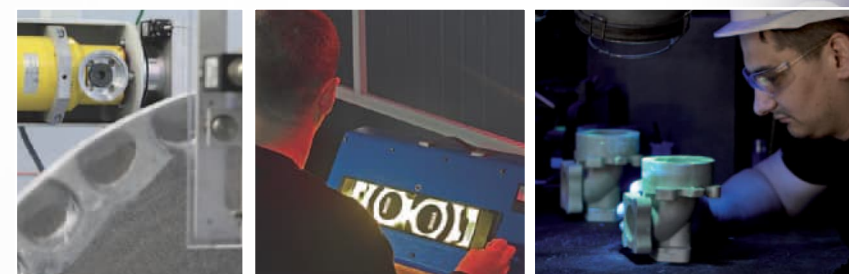
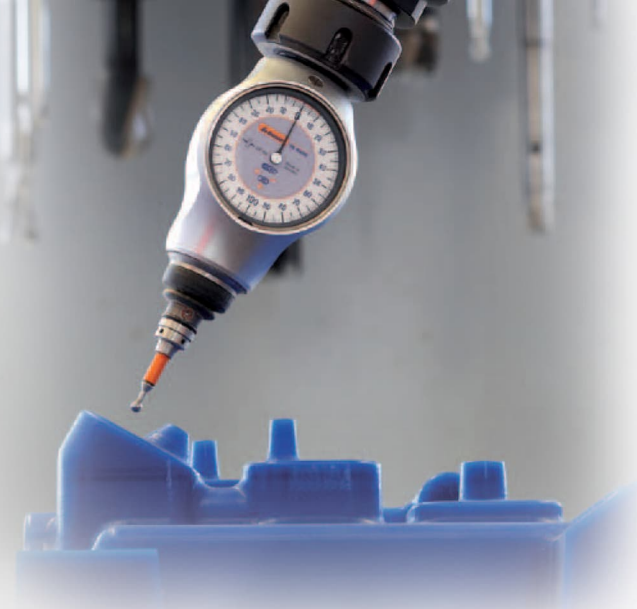
CASTINGS & MACHINING
SURFACE TREATMENT
FULL SUPPLY CHAIN





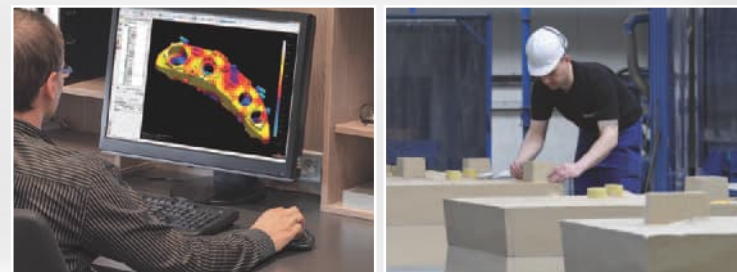
Pattern shop

In our pattern shop, experienced senior pattern makers and young technicians form an excellent team, combining traditional pattern making and the latest CNC technology.



Non-destructive tests

Our aluminium castings can be X-rayed in four CNC chambers. We also carry out ultrasonic, dye-penetrant and fluorescent penetrant testing according to international standards or customer specifications.



Foundry

Under one roof we have developed four different casting technologies to fulfill customer requirements: Sand Casting, Gravity-die casting, Low pressure die casting, Low pressure sand casting. All four processes are supported by simulation of flow and solidification.

Rapid prototyping

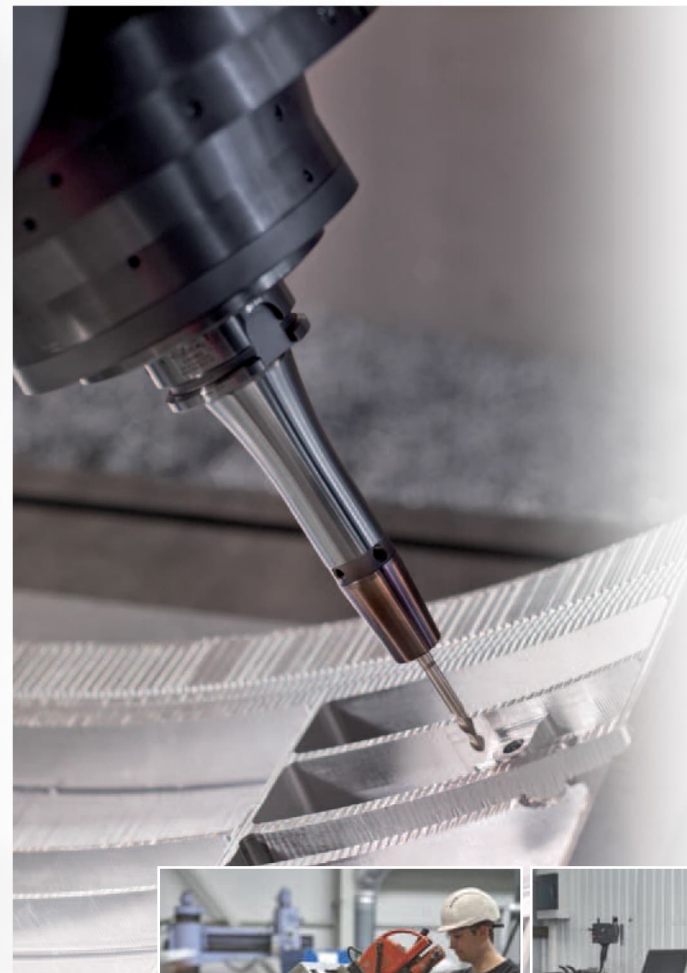
To fulfill sophisticated design requirements and improve development lead time we implemented a rapid prototyping technology.



Metallurgy & heat treatment



The heat treatment of aluminium castings has taken great leaps forward in recent years and can increase mechanical properties significantly. The foundry is equipped with a complete metallurgical laboratory to determine the chemical and mechanical characteristics. Microsections are examined under the microscope to obtain final information on the solidified aluminium.



CNC machining

Our CNC machine shop takes care of probably the most important step in the supply chain after the foundry. State-of-the-art CNC machining centres and CNC lathes machine our castings precisely and guarantee that parts are finished on time.



Quality inspection

To ensure component precision our extensive range of equipment guarantees dimensional and surface quality. Besides a large number of handheld measuring tools, we have installed five coordinate measuring machines.



PRECISION CASTINGS



PRECISION IN:

- CASTING
- MACHINING
- SURFACE TREATMENT
- ASSEMBLY
- FULL SUPPLY CHAIN

Experience gathered over decades combined with continuous improvement in manufacturing and training of our highly skilled staff, has made THONI-ALUTEC one of the most competent jobbing foundries in this sector worldwide. Diversification of our activity gives our customers the complete supply chain related to aluminium castings. Our customers are individually supplied with castings according to various international standards and thus receiving a complete solution tailored to their requirements. The integration of all processes inhouse, provides shortest delivery times and a very high level of quality.

CERTIFICATES:

AS/EN 9100
ASME Certificate U-Stamp
NADCAP
- Heat treatment
- NDT testing
- Welding
- Chemical processes
MARINE APPROVAL ABS
EXPORT LICENSE CONTROL
EN-4179
ISO 24394
ABS MARINE & OFFSHORE
APPROVAL
BV MARINE & OFFSHORE
APPROVAL- RECOGNITION II

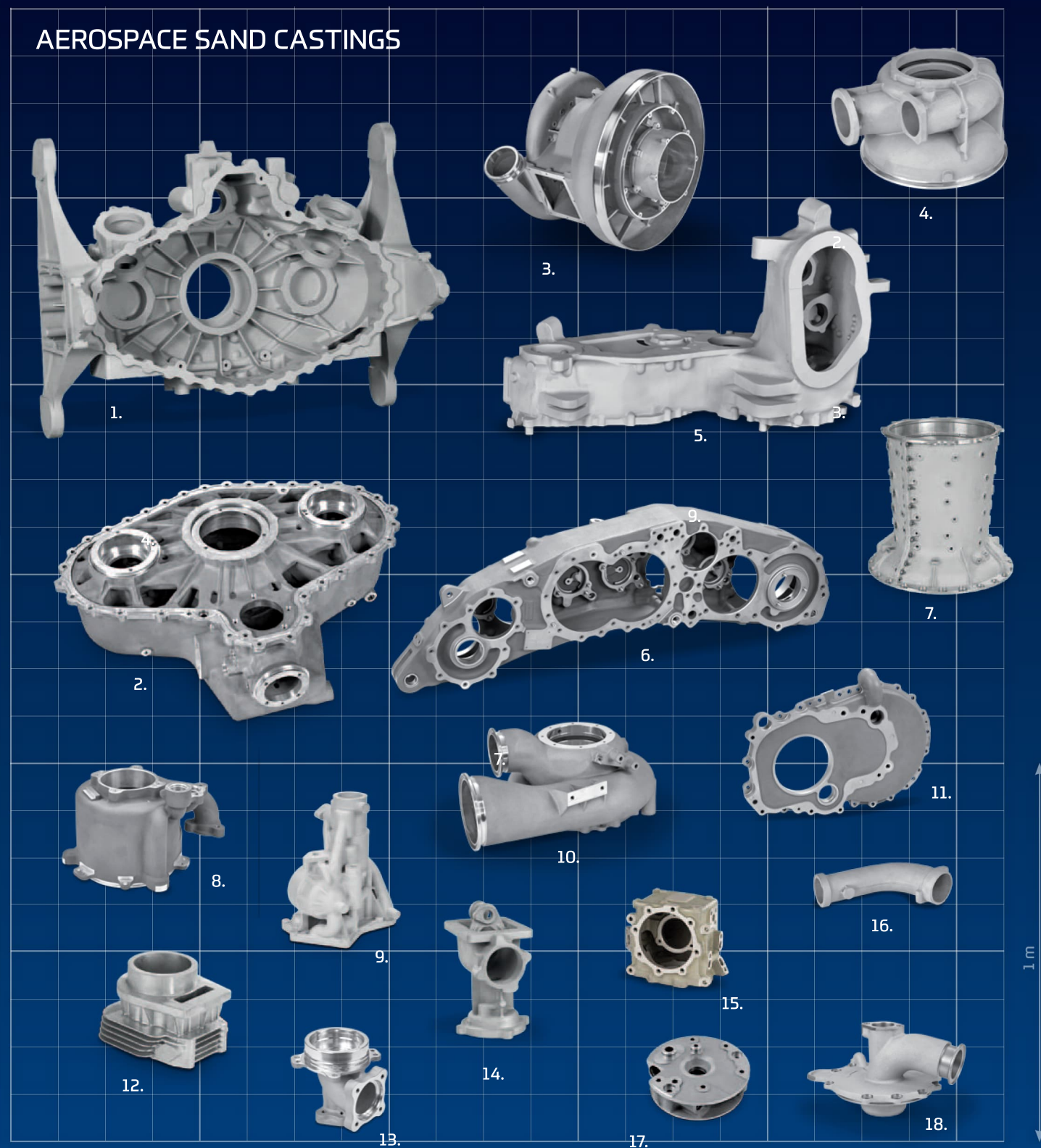
AVIATION VALLEY

DEFENSE

AEROSPACE



AEROSPACE SAND CASTINGS

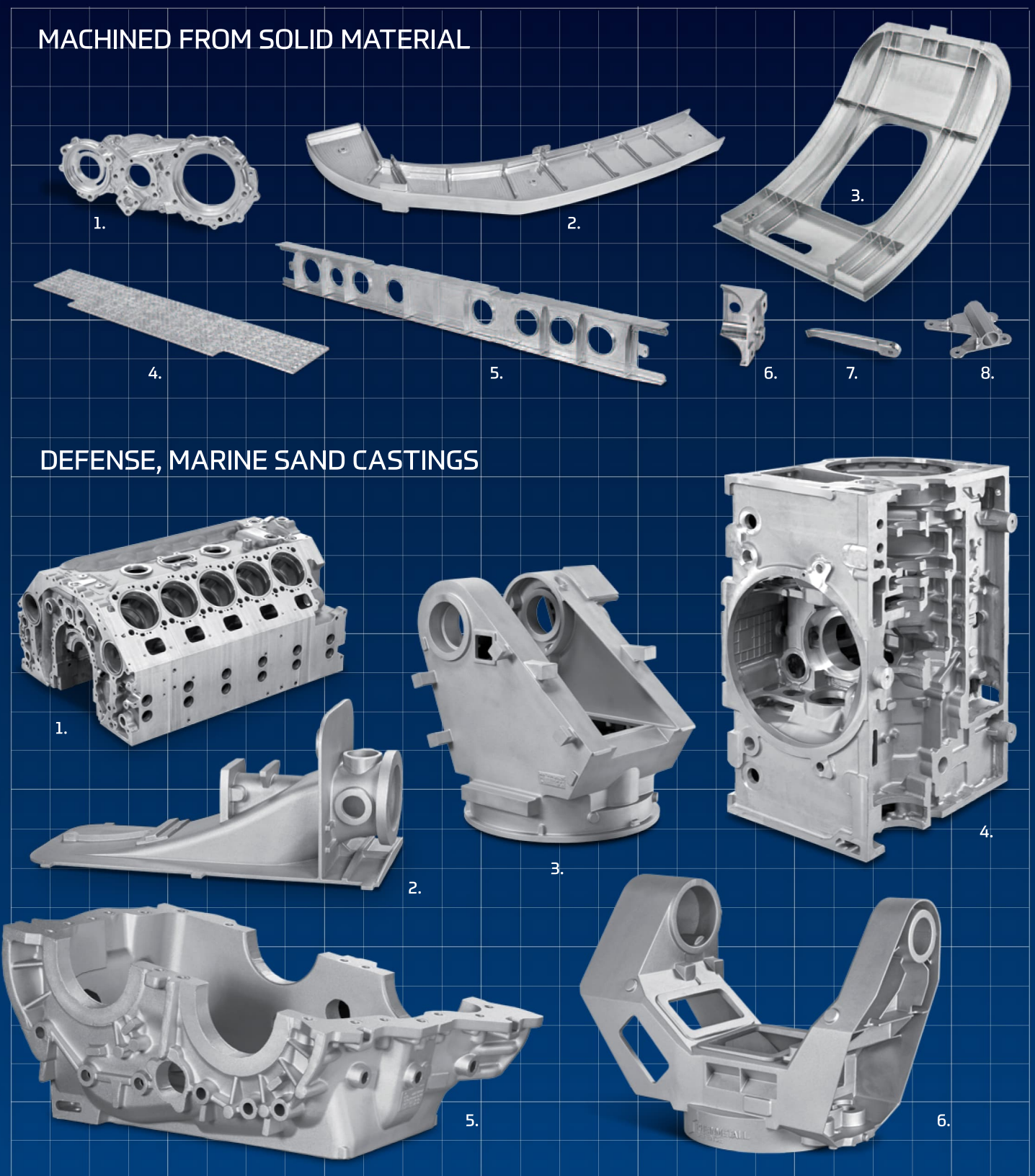


Aerospace sand castings

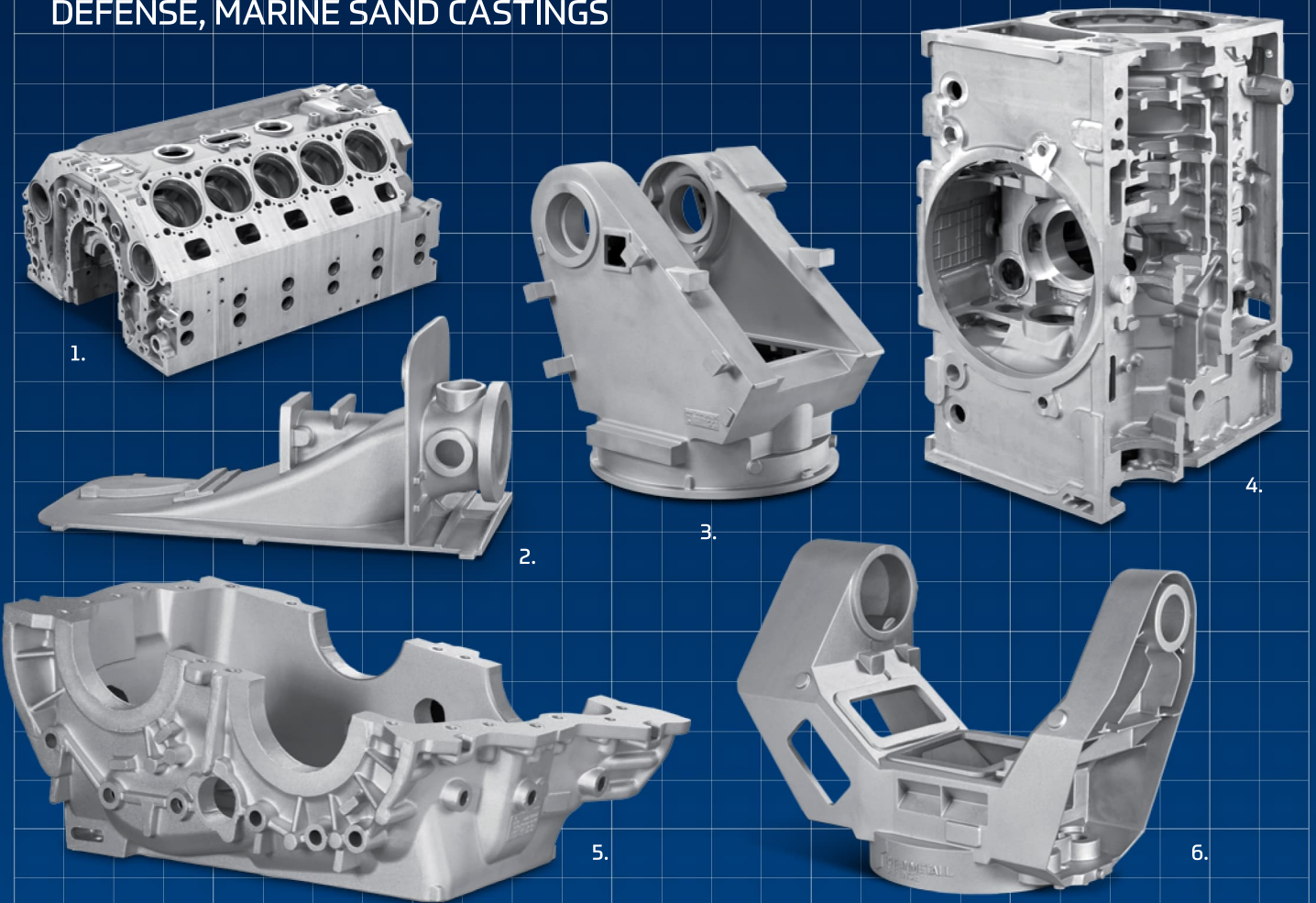
1. Upper housing 1000 x 600 x 500, 42 kg, AlSi7Mg0,6 T6 / 357.0-T6
2. Lower gearbox 600 x 500 x 400, 32 kg, AlSi7Mg0,6 T6 / 357.0-T6
3. Turbine scroll 442 x 412 x 378, 11,5 kg, AlSi7Mg0,6 T6 / 357.0-T6
4. Turbine scroll 342 x 298 x 185, 3,5 kg, AlSi7Mg0,6 T6 / 357.0-T6
5. AGB housing 904 x 533 x 581, 32 kg, AlSi5Cu1,2Mg T7 / 355.0-T7
6. AGB housing 1195 x 371 x 205, 26 kg, AlSi7Mg0,6 T6 / 357.0-T6
7. Compressor body 319 x ø339, 3,2 kg, AlCu5MgTi T6 / 201.0-T6
8. Breather cover 320 x 260 x 190, 2,8kg, AlSi7Cu1,5Mg ST6
9. Housing 246 x 203 x 282 4,6kg, AlSi5Cu1,2Mg T7 / 355.0-T7

10. Turbine scroll 448 x 250 x 134, 3,3 kg, AlSi7Mg0,6 T6 / 357.0-T6
11. Support Cast 450 x 294 x 65, 3,4 kg, AlSi7Mg0,6 ST6
12. Radial engine cylinder 250 x 250 x 250, 4 kg, AlSi17Cu4MgZ
13. Air outlet support CA 150 x 145 x 130, 1,5kg, AlSi7Cu1,5Mg ST6
14. Gearbox 200 x 100 x 100, 2 kg, AlSi7Mg0,6 T6 / 357.0-T6
15. TGB gearbox 200 x 200 x 200, 4,2 kg, AlSi7Mg0,6 T6 / 357.0-T6
16. Pipe 350 x 90 x 200, 1,1kg, AlCu5MgTi T6 / 201.0-T6
17. Pump housing ø180 x 200, 6 kg, AlSi7Mg0,6 T6 / 357.0-T6
18. Cover breather 290 x 220 x 160, 1,8 kg, AlSi7Mg0,6 T6 / 357.0-T6

MACHINED FROM SOLID MATERIAL



DEFENSE, MARINE SAND CASTINGS



Machined from solid material

1. AGB cover 420 x 260 x 60, 1,4 kg 2818A T851
2. Frame 70 x 300 x 1600, 3,5 kg, 6061 T6
3. Bussines jet door 930 x 150 x 630, 8 kg, 5083H111
4. Aircraft Electronic Frame 8 x 180 x 1000, 1,5 kg, 6061 T6
5. Frame 50 x 180 x 1500, 300 kg, 6061 T6
6. Helicopter frame support 90 x 100 x 200, 4 kg, AMS-6348
7. Helicopter handle 200 x 20 x 30, 0,4 kg, 6061 T6
8. Helicopter frame support 80 x 80 x 80, 0,3 kg, AMS-6348

Defense, marine sand castings

1. Cylinder block 930 x 730 x 500, AlSi9MgT6 / 359.0-T6
2. Waterjet Inlet 1000 x 600 x 530, 81kg, AlSi7Mg0,3 ST6
3. Yoke 900 x 800 x 900, 26 kg, AlSi7Mg0,3 T6
4. Gearbox housing 1200 x 850 x 600, 315kg, AlSi9MgT6 / 359.0-T6
5. Carrier housing 1550 x 720 x 620, AlSi9Mg T6 / 359.0 T6
6. EL-Structure 1279 x 893 x 622, 120kg, AlSi7Mg0,6 ST6



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Casting the future

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Casting the future

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