## **Product categories NEWCAST**

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7<sup>th</sup> International Trade Fair for Castings

Düsseldorf

				21/06 – 25/06/23
1	Ferrous castings - iron, steel and	1.3.2	20	Railway track machinery
	malleable foundries	1.3.2	21	Rubber and plastics machinery
		1.3.2	22	Heating equipment
1.1	Material groups	1.3.2	23	Building construction
1.1.1	Grey cast iron	1.3.2	24	Woodworking machinery
1.1.2	Spheroidal graphite cast iron	1.3.2	25	Hydraulic and pneumatic industries
1.1.3	Compacted graphite cast iron	1.3.2	26	Nuclear energy engineering
1.1.4	Malleable cast iron	1.3.2	27	Compressors
1.1.5	Austenitic-ferritic cast iron with spheroidal graphite	1.3.2	28	Cranes
	(ADI)	1.3.2	29	Art castings
1.1.6	Austenitic cast iron	1.3.3	30	Agricultural machinery
1.1.7	Wear-resistant cast iron	1.3.3	31	Aeronautical and space engineering
1.1.8	Plain (unalloyed) cast steel	1.3.3	32	Machinery construction (general)
1.1.9	Heat-treatable cast steel	1.3.3	33	Medical engineering
1.1.10	Heat-resistant cast steel	1.3.3	34	Marine engineering
1.1.11	Corrosion-resistant cast steel	1.3.3	35	Metalworking machinery
1.1.12	Creep resistant cast steel	1.3.3	36	Motor construction
1.1.13	Cold toughness cast steel	1.3.3	37	Foodstuffs machinery
1.1.14	Superalloys (nickel-, cobalt-, iron-based)	1.3.3	88	Offshore engineering
		1.3.3	39	Presses and rolling mill equipment
1.2	Production processes	1.3.4	<b>•</b> 0	Pumps and compressors
1.2.1	Sand casting - machine moulding	1.3.4	<b>i</b> 1	Robot engineering
1.2.1.1	Flask moulding	1.3.4	12	Rail vehicles
1.2.1.2	Flaskless moulding	1.3.4	¥3	Shipbuilding
1.2.1.3	Evaporative pattern casting	1.3.4	4	Special machines
1.2.1.4	Shell moulding	1.3.4	<b>i</b> 5	Municipal furniture
1.2.2	Sand casting - hand moulding	1.3.4	<b>i</b> 6	Steel industry (steelworks requirements)
1.2.2.1	with permanent patterns	1.3.4	¥7	Textile and sewing machines
1.2.2.2	Evaporative pattern casting	1.3.4	8	Civil and underground engineering
1.2.3	Permanent mould casting	1.3.4	<b>•</b> 9	Environmental engineering
1.2.3.1	Gravity die casting	1.3.5	50	Process industry
1.2.3.2	Centrifugal casting	1.3.5	51	Packaging industry
1.2.3.3	Continuous casting	1.3.5	52	Publicity and gift articles
1.2.4	Investment casting	1.3.5	53	Machine tools
1.2.5	Other precision casting processes			
1.2.6	Special processes	1.4		Examples of cast products
1.2.6.1	Vacuum moulding	1.4.1	l	Discharge pipes, soil pipes
1.2.6.2	Composite casting	1.4.2	2	Exhaust manifolds
1.2.7	Rapid prototyping	1.4.3	3	Axles and axle components
	, , , , ,	1.4.4	i	Fittings
1.3	Customers and uses for iron, steel and malleable	1.4.5	5	Holding down plates
	castings	1.4.6	5	Building machinery components
1.3.1	Plant construction	1.4.7	7	Mining machinery components
1.3.2	Drive engineering	1.4.8	3	Small hardware fittings
1.3.3	Fittings	1.4.9	)	Base plates
1.3.4	Preparation of ore, building and mineral materials	1.4.1	LO	Crusher jaws
1.3.5	Automobile industry (road vehicles)	1.4.1	l1	Brake shoes
1.3.6	Building and building materials machinery	1.4.1	12	Brake drums and discs
1.3.7	Fastenings	1.4.1	13	Bushes
1.3.8	Mining	1.4.1	۱4	Chemical plant components
1.3.9	Small hardware industry (furniture, keys, locks)	1.4.1	15	Pressure pipes
1.3.10	Chemical industry	1.4.1	<b>l6</b>	Electric motors
1.3.11	Printing and paper machinery	1.4.1		Electrical engineering components
1.3.12	Iron, sheet metal and fabricated metal products	1.4.1	18	Enamelled parts and bathtubs
	industry	1.4.1		Vehicle components
1.3.13	Electrical engineering	1.4.2		Fittings
1.3.14	Power generation and distribution	1.4.2		Wing nuts and bolts
1.3.15	Vehicles (passenger)	1.4.2		Conveyor components
1.3.16	Vehicles (utility)	1.4.2		Moulds
1.3.17	Precision mechanics / optics	1.4.2		Housings
1.3.18	Moulds, tools and jigs	1.4.2		Forging dies
1.3.19	Glass and plastics industry	1.4.2	26	Transmission components

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			21/00 - 25/00/2
1.4.27	Weights	1.4.89	Ship propellers
1.4.28	Handwheels	1.4.90	Slag ladles (pots)
1.4.29	Domestic equipment components	1.4.91	Lock and small hardware components
1.4.30	Boiler components	1.4.92	Keys
1.4.31	Hearth and furnace castings	1.4.93	Weldable steel joints
1.4.32	Hydraulic castings	1.4.94	Welding rods
1.4.33	Industrial furnace components	1.4.95	Flywheels
1.4.34	Insulator caps	1.4.96	Municipal furniture
1.4.35	Refrigerator components	1.4.97	Piston, Rods
1.4.36	Calender rolls	1.4.98	Shotblasting abrasives
1.4.37	Sewage castings	1.4.99	Textile machinery components
1.4.38	Nuclear reactor components	1.4.100	Historic castings, Restorations
1.4.39	Chemical plant boilers	1.4.101	Tunnel segments
1.4.40	Chains, chain links	1.4.102	Turbine components
1.4.41	Piano and grand piano frames	1.4.102	Valve boxes
1.4.42	Steelworks moulds	1.4.103	Traffic control components
1.4.43	Moulds for other purposes	1.4.105	Rolls - steel milling
1.4.44	Pistons	1.4.106	Rolls - crushing
1.4.45	Piston rings	1.4.107	Roll housings
1.4.46	Compressor components	1.4.107	Heat exchanger components
1.4.47	Motor vehicle components	1.4.109	Machine tool components
1.4.48	Art castings	1.4.110	Tool components
1.4.49	_	1.4.111	•
1.4.50	Couplings Crankshafts	1.4.111	Gear rings Gearwheels
1.4.50		1.4.112	Cylinders
1.4.52	Bearings Agricultural machinery components		Cylinder blocks
1.4.52	Bushes (bearing)	1.4.114	Cylinder blocks Cylinder heads
1.4.54	Rollers	1.4.115	-
1.4.55	Turbine impellers	1.4.117	Cylinder liners
1.4.56	Grinding media	1.4.117	Cylinder jackets
1.4.57	Machine tool beds and tables		
1.4.58	Marine engineering components		Nonferrous metal castings - aluminium,
1.4.59	Measuring and control components	2	zinc, copper, magnesium, nickel and
1.4.60	Motor housings - electrical engineering		other nonferrous metal foundries
1.4.61	Motor housings - electrical engineering  Motor housings - large motors		other nomerous metat roundines
1.4.62	Motor housings - targe motors  Motor housings - machines	2.1	Material groups
1.4.63	Motor housings - machines  Motor housings - road vehicles	2.1.1	Aluminium and its alloys
1.4.64	Motor components	2.1.1	Magnesium and its alloys
1.4.65	Sleeves	2.1.2	Titanium and its alloys
1.4.66	Hubs	2.1.3	Copper and its alloys
1.4.67		2.1.4	••
1.4.68	Sewing machine components	2.1.5	Zinc and its alloys
	Camshafts	2.1.7	Nickel and its alloys
1.4.69	Oven and fireplace plates		Cobalt and its alloys
1.4.70	Petrochemical plant components	2.1.8	Lead and its alloys
1.4.71 1.4.72	Connecting rods Pneumatic plant components	2.1.9 2.1.10	Tin and its alloys Precious metals
1.4.72	Rods (continuously cast material)	2.1.10	Other alloys
1.4.74	,	2.1.11	ouiei alloys
1.4.74	Pump components Radiators	2.2	Production processes
1.4.75	Wheel bearing components	2.2.1	Production processes Sand casting - machine moulding
1.4.76	Wheels	2.2.1	-
1.4.77	Pulleys	2.2.1.1	Flask moulding Flaskless moulding
1.4.78			<u> </u>
1.4.79	Rings	2.2.1.3	Lost foam process
1.4.80	Pipes Pipes (composite castings)	2.2.1.4	Vacuum sand casting Shell moulding
1.4.81	Grates and fire bars		Core package process
1.4.82	Round rods	2.2.1.6	Permanent mould casting
			<u> </u>
1.4.84	Sanitary castings	2.2.2.1	Gravity die casting
1.4.85	Manhole covers	2.2.2.2	Low pressure die casting
1.4.86	Switchbox components	2.2.3	Pressure die casting
1.4.87	Rail vehicle components	2.2.3.1	Conventional pressure die casting
1.4.88	Shipbuilding components	2.2.3.2	Squeeze casting

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2.2.3.3	Thixocasting	2.3.48	Motor construction
2.2.4	Continuous casting	2.3.49	Motorcycles and 2-wheelers
2.2.5	Centrifugal casting	2.3.50	Offshore engineering
2.2.6	Investment casting	2.3.51	Optical industry
2.2.7	Hot chamber process	2.3.52	Presses and rolling mills
2.2.8	Other precision processes	2.3.53	Process industry
2.2.9	Special processes	2.3.54	Pumps and compressors
2.2.9.1	Bell casting	2.3.55	Roller shutters and awnings
2.2.9.2	Art casting	2.3.56	Rail vehicles
2.2.9.3	Vacuum centrifugal casting	2.3.57	Shipbuilding
2.2.9.4	Vacuum differential pressure casting	2.3.58	Jewellery
2.2.9.5	Composite casting	2.3.59	Safety engineering
2.2.10	Rapid prototyping	2.3.60	Special machines
		2.3.61	Sports / games / leisure
2.3	Customers and uses of nonferrous metal castings	2.3.62	Municipal furniture
2.3.1	Plant construction	2.3.63	Textile industry
2.3.2	Drive engineering	2.3.64	Clock industry
2.3.3	Apparatus and appliance engineering	2.3.65	Traffic engineering
2.3.4	Fittings	2.3.66	Packaging industry
2.3.5	Automobile industry (road vehicles)	2.3.67	Publicity and gift articles
2.3.6	Main building industry	2.3.68	Machine tools
2.3.7	Fastenings	2.4	Francisco of cost and destriction the Bated costs are
2.3.8	Lighting equipment	2.4	Examples of cast products for the listed customers
2.3.9	Mining		and applications
2.3.10	Small hardware	2.4.1	Axles and axle components
2.3.11	Office equipment	2.4.2	Armatures and fittings
2.3.12	Chemical and petroleum industries	2.4.3	Construction machinery components
2.3.13 2.3.14	Computers Printing and paper machinery	2.4.4	Mining equipment components Mining machinery components
2.3.14	Compressed air and welding engineering	2.4.6	Hardware (windows)
2.3.16	Iron, sheet metal and fabricated products	2.4.7	Hardware (furniture)
2.3.17	Iron and steel industries	2.4.8	Baseplates
2.3.17	Electric motors	2.4.9	Bushes
2.3.19	Electrical engineering	2.4.10	Office equipment components
2.3.19	Power generation and distribution	2.4.11	Electric motor components
2.3.21	Vehicles (passenger)	2.4.12	Vehicle components
2.3.22	Vehicles (utility)	2.4.13	Wheel rims
2.3.23	Precision mechanics, optics	2.4.14	Fittings
2.3.24	Light engineering	2.4.15	Conveyor components
2.3.25	Windows	2.4.16	Moulds
2.3.26	Filtration equipment	2.4.17	Housings
2.3.27	Conveyors	2.4.18	Transmission components
2.3.28	Moulds, tools and jigs	2.4.19	Bells
2.3.29	Transmissions and motors	2.4.20	Handwheels
2.3.30	Glass and plastics industry	2.4.21	Domestic equipment components
2.3.31	Bell casting	2.4.22	Heating equipment components
2.3.32	Tools	2.4.23	Human medicine components
2.3.33	Domestic appliances	2.4.24	Industrial furnace components
2.3.34	Heating equipment	2.4.25	Refrigerator components
2.3.35	Hydraulics and pneumatics	2.4.26	Nuclear reactor components
2.3.36	Nuclear energy engineering	2.4.27	Pistons
2.3.37	Communications engineering	2.4.28	Compressor components
2.3.38	Compressors	2.4.29	Motor vehicle components
2.3.39	Art castings	2.4.30	Art castings
2.3.40	Agricultural machines	2.4.31	Coupling components
2.3.41	Foodstuff industry	2.4.32	Laboratory equipment components
2.3.42	Aeronautical and space engineering	2.4.33	Bearings
2.3.43	Machinery (general)	2.4.34	Bearing materials
2.3.44	Medical engineering	2.4.35	Rollers
2.3.45	Marine engineering	2.4.36	Turbine impellers
2.3.46	Measuring and control engineering	2.4.37	Marine engineering components
2.3.47	Furniture industry	2.4.38	Measuring & control engineering comp.

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			21/06 – 25/06/
2.4.39	Motor housings - electrical engineering	3.2.3	Advice on materials and component testing
2.4.40	Motor housings - road vehicles	3.2.4	Pattern
2.4.41	Motor components	3.2.4.1	Wooden pattern
2.4.42	Sockets	3.2.4.2	Plastic pattern
2.4.43	Wheel hubs	3.2.4.3	Foamed plastic pattern
2.4.44	Sewing machine components	3.2.4.4	Metal pattern
2.4.45	Oven and fireplace plates	3.2.4.5	Plastic core making tools
2.4.46	Oil sumps	3.2.4.6	Metal core making tools
2.4.47	Connecting rods	3.2.5	Die making
2.4.48	Pneumatic plant components	3.2.5.1	Die casting tools
2.4.49	Rods (continuous cast)	3.2.5.2	Injection-moulding tools
2.4.50	Propellers	3.2.5.3	Cast iron mould
2.4.51	Pump components	3.2.5.4	Core making tools
2.4.52	Wheels	3.2.3.4	core making toots
2.4.53	Wheel bearing components	3.3	Engineering services (research and consultation)
2.4.54	Pipes	3.3.1	Certification and classification
2.4.55	•	3.3.2	Planning and logistics
	Pipes (composite castings)		
2.4.56	X-ray plant components	3.3.3	Value analysis
2.4.57	Round rods	3.3.4	Laboratory services
2.4.58	Sanitary castings	3.3.5	Advice on materials
2.4.59	Switchbox components		
2.4.60	Rail vehicle components	3.4	Education, learning and publications
2.4.61	Shipbuilding components	3.4.1	Technical information service
2.4.62	Ship propellers		(information, reference material, data banks)
2.4.63	Lock and hardware components	3.4.2	Technical literature
2.4.64	Keys	3.4.3	Study and vocational training
2.4.65	Weldable pressure die cast joints	3.4.4	Education and further education, schooling and training
2.4.66	Welding machine components		
2.4.67	Flywheels	3.5	Measuring and testing technology
2.4.68	Municipal furniture	3.5.1	Material testing
2.4.69	Textile machinery components	3.5.2	Non-destructive testing processes
2.4.70	Historic castings, restorations	3.5.3	Dimensional inspection
2.4.71	Turbine components	3.5.4	Quality control
2.4.72	Clock components		•
2.4.73	Valve boxes	3.6	Secondary treatment / machining
2.4.74	Traffic control components	3.6.1	Heat treatment
2.4.75	Gear rings	3.6.2	Mechanical machining
2.4.76	Gearwheels	3.6.3	Coating, priming, painting
2.4.77	Cylinders	3.6.4	Assembly
2.4.78	Cylinder blocks		
2.4.79	Cylinder heads	3.7	Quality assurance
2.4.80	Cylinder liners	3.7.1	Marking technology
2.4.81	Cylinder tiners Cylinder jackets	3.7.2	Marking
2.4.01	Cythider Jackets	3.7.2	Marking
		3.8	Computer tomography
3	Services	3.8.1	Services, application technology
2	Services		Software
2.4	Comment	3.8.2	Sortware
3.1	Concept	2.0	6.6. 6.6.1:
3.1.1	Concept development	3.9	Software for foundries
3.1.2	Concept benchmark		
		,	C* 1
3.2	Product development	4	Sinters
3.2.1	Design, development and simulation		
	(design optimization, virtual trials)	4.1	Moduled parts from sintered metal
3.2.2	Provision of prototypes- rapid prototyping and	4.2	Sintered bearings
	rapid tooling	4.3	Sintered magnets
3.2.2.1	Stereolithography (STL)	4.4	Sintered metals
3.2.2.2	Selective Laser Sintering (SLS)	4.5	Sintered products, metallic
3.2.2.3	Fused Deposition Modeling (FDM)	4.6	Sintered products, non-metallic
3.2.2.4	Laminated Object Modelling (LOM)	4.7	Coating
3.2.2.4			
3.2.2.5	3D Printing	4.8	Laser-sintered parts

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5	Trade and logistics
5.1	Manufacturers
5.2	Trade
5.3	Logistics
5.4	Storage techniques
5.5	Transport systems
5.6	Service
5.7	Delivery service
5.8	Pre-operational techniques (sawing, cutting)
5.9	Pre-operational centres
6	Sustainability and recycling
7	Consulting, design, service and engineering
8	Technical publications, technical periodicals, associations
9	Training, further education