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4th International Trade Fair for Precision Castings

1	Ferrous castings –	1.3.25	Hydraulic and pneumatic industries
	Iron, steel and malleable foundries	1.3.26	Nuclear energy engineering
	•	1.3.27	Compressors
1.1	Material groups	1.3.28	Cranes
1.1.1	Grey cast iron	1.3.29	Art castings
1.1.2	Spheroidal graphite cast iron	1.3.30	Agricultural machinery
1.1.3	Compacted graphite cast iron	1.3.31	Aeronautical and space engineering
1.1.4	Malleable cast iron	1.3.32	Machinery construction (general)
1.1.5	Austenitic-ferritic cast iron with spheroidal graphite (ADI)	1.3.33	Medical engineering
1.1.6	Austenitic cast iron	1.3.34	Marine engineering
1.1.7	Wear-resistant cast iron	1.3.35	Metalworking machinery
1.1.8	Plain (unalloyed) cast steel	1.3.36	Motor construction
1.1.9	Heat-treatable cast steel	1.3.37	Foodstuffs machinery
1.1.10	Heat-resistant cast steel	1.3.38	Offshore engineering
1.1.11	Corrosion-resistant cast steel	1.3.39	Presses and rolling mill equipment
1.1.12	Creep resistant cast steel	1.3.40	Pumps and compressors
1.1.13	Cold toughness cast steel	1.3.41	Robot engineering
1.1.14	Superalloys (nickel-, cobalt-, iron-based)	1.3.42	Rail vehicles
1.1.14	Superations (meket-, condit-, mon-naseu)	1.3.43	Shipbuilding
1.2	Production processes	1.3.44	Special machines
1.2.1	Sand casting - machine moulding	1.3.45	Municipal furniture
1.2.1.1	Flask moulding	1.3.46	Steel industry (steelworks requirements)
1.2.1.2	Flaskless moulding	1.3.47	Textile and sewing machines
1.2.1.3		1.3.48	Civil and underground engineering
1.2.1.3	Evaporative pattern casting Shell moulding	1.3.49	Environmental engineering
	-	1.3.50	Process industry
1.2.2 1.2.2.1	Sand casting - hand moulding	1.3.51	Packaging industry
	with permanent patterns	1.3.52	Publicity and gift articles
1.2.2.2	Evaporative pattern casting	1.3.53	Machine tools
1.2.3	Permanent mould casting	1.5.55	riacilille toots
1.2.3.1	Gravity die casting	1.4	Examples of cast products
1.2.3.2	Centrifugal casting	1.4.1	Discharge pipes, soil pipes
1.2.3.3	Continuous casting	1.4.2	Exhaust manifolds
1.2.4	Investment casting	1.4.3	Axles and axle components
1.2.5	Other precision casting processes	1.4.4	Fittings
1.2.6	Special processes	1.4.5	Holding down plates
1.2.6.1	Vacuum moulding	1.4.6	Building machinery components
1.2.6.2	Composite casting	1.4.7	Mining machinery components
1.2.7	Rapid prototyping	1.4.8	Small hardware fittings
1.2	Customers and uses for iven steel and mallockle costinus	1.4.9	Base plates
1.3	Customers and uses for iron, steel and malleable castings	1.4.10	Crusher jaws
1.3.1	Plant construction	1.4.11	Brake shoes
1.3.2	Drive engineering	1.4.12	Brake drums and discs
1.3.3	Fittings	1.4.13	Bushes
1.3.4	Preparation of ore, building and mineral materials	1.4.14	Chemical plant components
1.3.5	Automobile industry (road vehicles)	1.4.15	Pressure pipes
1.3.6	Building and building materials machinery		
1.3.7	Fastenings	1.4.16 1.4.17	Electric motors Electrical engineering components
1.3.8	Mining	1.4.18	Enamelled parts and bathtubs
1.3.9	Small hardware industry (furniture, keys, locks)	1.4.19	Vehicle components
1.3.10	Chemical industry	1.4.20	Fittings
1.3.11	Printing and paper machinery	1.4.21	Wing nuts and bolts
1.3.12	Iron, sheet metal and fabricated metal products industry		•
1.3.13	Electrical engineering	1.4.22	Conveyor components
1.3.14	Power generation and distribution	1.4.23 1.4.24	Moulds
1.3.15	Vehicles (passenger)		Housings
1.3.16	Vehicles (utility)	1.4.25 1.4.26	Forging dies Transmission components
1.3.17	Precision mechanics/optics		•
1.3.18	Moulds, tools and jigs	1.4.27	Weights Handwheels
1.3.19	Glass and plastics industry	1.4.28	
1.3.20	Railway track machinery	1.4.29	Domestic equipment components
1.3.21	Rubber and plastics machinery	1.4.30	Boiler components
1.3.22	Heating equipment	1.4.31	Hearth and furnace castings
1.3.23	Building construction	1.4.32	Hydraulic castings
1.3.24	Woodworking machinery	1.4.33	Industrial furnace components

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				10/00 - 20/00,
1.4.34	Insulator caps		1.4.98	Shotblasting abrasives
1.4.35	Refrigerator components		1.4.99	Textile machinery components
1.4.36	Calender rolls		1.4.100	Historic castings, Restorations
1.4.37	Sewage castings		1.4.101	Tunnel segments
1.4.38	Nuclear reactor components		1.4.102	Turbine components
1.4.39	Chemical plant boilers		1.4.103	Valve boxes
1.4.40	Chains, chain links		1.4.104	Traffic control components
1.4.41	Piano and grand piano frames		1.4.105	Rolls - steel milling
1.4.42	Steelworks moulds		1.4.106	Rolls - crushing
1.4.43	Moulds for other purposes		1.4.107	Roll housings
1.4.44	Pistons		1.4.108	Heat exchanger components
1.4.45	Piston rings		1.4.109	Machine tool components
1.4.46	Compressor components		1.4.110	Tool components
1.4.47	Motor vehicle components		1.4.111	Gear rings
1.4.48	Art castings		1.4.111	Gearwheels
1.4.49	Couplings		1.4.112	Cylinders
1.4.50	Crankshafts		1.4.114	•
				Cylinder blocks
1.4.51	Bearings		1.4.115	Cylinder heads
1.4.52	Agricultural machinery components		1.4.116	Cylinder liners
1.4.53	Bushes (Bearing)		1.4.117	Cylinder jackets
1.4.54	Rollers			
1.4.55	Turbine impellers			
1.4.56	Grinding media			Namfamana matal arationa Aluminium
1.4.57	Machine tool beds and tables		2	Nonferrous metal castings – Aluminium,
1.4.58	Marine engineering components		_	zinc, copper, magnesium, nickel and
1.4.59	Measuring and control components			other nonferrous metal foundries
1.4.60	Motor housings - electrical engineering			
1.4.61	Motor housings - large motors		2.1	Material groups
1.4.62	Motor housings - machines		2.1.1	Aluminium and its alloys
1.4.63	Motor housings - road vehicles		2.1.2	Magnesium and its alloys
1.4.64	Motor components		2.1.3	Titanium and its alloys
1.4.65	Sleeves		2.1.4	Copper and its alloys
1.4.66	Hubs		2.1.5	Zinc and its alloys
1.4.67	Sewing machine components		2.1.6	Nickel and its alloys
1.4.68	Camshafts		2.1.7	Cobalt and its alloys
1.4.69	Oven and fireplace plates		2.1.8	Lead and its alloys
1.4.70	Petrochemical plant components		2.1.9	Tin and its alloys
1.4.71	Connecting rods		2.1.10	Precious metals
1.4.72	Pneumatic plant components		2.1.11	Other alloys
1.4.73	Rods (continuously cast material)			
1.4.74	Pump components		2.2	Production processes
1.4.75	Radiators	Ī	2.2.1	Sand casting - machine moulding
1.4.76	Wheel bearing components		2.2.1.1	Flask moulding
1.4.77	Wheels		2.2.1.2	Flaskless moulding
1.4.78	Pulleys		2.2.1.3	Lost foam process
1.4.79	Rings		2.2.1.4	
1.4.80	Pipes		2.2.1.5	Shell moulding
1.4.81	Pipes (composite castings)		2.2.1.6	Core package process
1.4.82	Grates and fire bars		2.2.2	Permanent mould casting
1.4.83	Round rods		2.2.2.1	Gravity die casting
1.4.84	Sanitary castings		2.2.2.1	Low pressure die casting
	Manhole covers			
1.4.85			2.2.3	Pressure die casting
1.4.86	Switchbox components		2.2.3.1	Conventional pressure die casting
1.4.87	Rail vehicle components		2.2.3.2	Squeeze casting
1.4.88	Shipbuilding components		2.2.3.3	Thixocasting
1.4.89	Ship propellers		2.2.4	Continuous casting
1.4.90	Slag ladles (pots)		2.2.5	Centrifugal casting
1.4.91	Lock and small hardware components		2.2.6	Investment casting
1.4.92	Keys		2.2.7	Other precision processes
1.4.93	Weldable steel joints		2.2.8	Special processes
1.4.94	Welding rods		2.2.8.1	Bell casting
1.4.95	Flywheels		2.2.8.2	Art casting
1.4.96	Municipal furniture		2.2.8.3	Vacuum centrifugal casting
1.4.97	Piston, Rods		2.2.8.4	Vacuum differential pressure casting
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			10/00-20/00/
2.2.8.5	Composite casting	2.3.61	Sports/Games/Leisure
2.2.9	Rapid prototyping	2.3.62	Municipal furniture
		2.3.63	Textile industry
2.3	Customers and uses of nonferrous metal castings	2.3.64	Clock industry
2.3.1	Plant construction	2.3.65	Traffic engineering
2.3.2	Drive engineering	2.3.66	Packaging industry
2.3.3	Apparatus and appliance engineering	2.3.67	Publicity and gift articles
2.3.4	Fittings	2.3.68	Machine tools
2.3.5	Automobile industry (road vehicles)		
2.3.6	Main building industry	2.4	Examples of cast products for the listed customers
2.3.7	Fastenings		and applications
2.3.8	Lighting equipment	2.4.1	Axles and axle components
2.3.9	Mining	2.4.2	Armatures and fittings
2.3.10	Small hardware	2.4.3	Construction machinery components
2.3.11	Office equipment	2.4.4	Mining equipment components
2.3.12	Chemical and petroleum industries	2.4.5	Mining machinery components
2.3.13	Computers	2.4.6	Hardware (windows)
2.3.14	Printing and paper machinery	2.4.7	Hardware (furniture)
2.3.15	Compressed air and welding engineering	2.4.8	Baseplates
2.3.16	Iron, sheet metal and fabricated products	2.4.9	Bushes
2.3.17	Iron and steel industries	2.4.10	Office equipment components
2.3.18	Electric motors	2.4.11	Electric motor components
2.3.19	Electrical engineering	2.4.12	Vehicle components
2.3.20	Power generation and distribution	2.4.13	Wheel rims
2.3.21	Vehicles (passenger)	2.4.14	Fittings
2.3.22	Vehicles (utility)	2.4.15	Conveyor components
2.3.23	Precision mechanics, optics	2.4.16	Moulds
2.3.24	Light engineering	2.4.17	Housings
2.3.25	Windows	2.4.18	Transmission components
2.3.26	Filtration equipment	2.4.19	Bells
2.3.27	Conveyors	2.4.20	Handwheels
2.3.28	Moulds, tools and jigs	2.4.21	Domestic equipment components
2.3.29	Transmissions and motors	2.4.22	Heating equipment components
2.3.30	Glass and plastics industry	2.4.23	Human medicine components
2.3.31	Bell casting	2.4.24	Industrial furnace components
2.3.32	Tools	2.4.25	Refrigerator components
2.3.33	Domestic appliances	2.4.26	Nuclear reactor components
2.3.34	Heating equipment	2.4.27	Pistons
2.3.35	Hydraulics and pneumatics	2.4.28	Compressor components
2.3.36	Nuclear energy engineering	2.4.29	Motor vehicle components
2.3.37	Communications engineering	2.4.30	Art castings
2.3.38	Compressors	2.4.31	Coupling components
2.3.39	Art castings	2.4.32	Laboratory equipment components
2.3.40	Agricultural machines	2.4.33	Bearings
2.3.41	Foodstuff industry	2.4.34	Bearing materials
2.3.42	Aeronautical and space engineering	2.4.35	Rollers
2.3.43	Machinery (general)	2.4.36	Turbine impellers
2.3.44	Medical engineering	2.4.37	Marine engineering components
2.3.45	Marine engineering	2.4.38	Measuring & control engineering comp.
2.3.46	Measuring and control engineering	2.4.39	Motor housings - electrical engineering
2.3.47	Furniture industry	2.4.40	Motor housings - road vehicles
2.3.48	Motor construction	2.4.41	Motor components
2.3.49	Motorcycles and 2-wheelers	2.4.42	Sockets
2.3.50	Offshore engineering	2.4.43	Wheel hubs
2.3.51	Optical industry	2.4.44	Sewing machine components
2.3.52	Presses and rolling mills	2.4.45	Oven and fireplace plates
2.3.53	Process industry	2.4.46	Oil sumps
2.3.54	Pumps and compressors	2.4.47	Connecting rods
2.3.55	Roller shutters and awnings	2.4.48	Pneumatic plant components
2.3.56	Rail vehicles	2.4.49	Rods (continuous cast)
2.3.57	Shipbuilding	2.4.50	Propellers
2.3.58	Jewellery	2.4.51	Pump components
2.3.59	Safety engineering	2.4.52	Wheels
2.3.60	Special machines	2.4.53	Wheel bearing components
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			16/06 – 20/06/
2.4.54	Pipes	3.3.2	Planning and logistics
2.4.55	Pipes (composite castings)	3.3.3	Value analysis
2.4.56	X-ray plant components	3.3.4	Laboratory services
2.4.57	Round rods	3.3.5	Advice on materials
2.4.58	Sanitary castings		
2.4.59	Switchbox components	3.4	Education, learning and publications
2.4.60	Rail vehicle components	3.4.1	Technical information service
2.4.61	Shipbuilding components		(information, reference material, data banks)
2.4.62	Ship propellers	3.4.2	Technical literature
2.4.63	Lock and hardware components	3.4.3	Study and vocational training
2.4.64	Keys	3.4.4	Education and further education, schooling and
2.4.65	Weldable pressure die cast joints		training
2.4.66	Welding machine components		
2.4.67	Flywheels	3.5	Measuring and testing
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	2.6	Carandam turaturant/Markinian
2.4.73	Valve boxes	3.6	Secondary treatment/Machining
2.4.74 2.4.75	Traffic control components	3.6.1 3.6.2	Heat treatment Mechanical machining
2.4.75	Gear rings Gearwheels	3.6.3	Coating, priming, painting
2.4.77	Cylinders	3.6.4	Assembly
2.4.77	Cylinder blocks	3.0.4	Assembly
2.4.79	Cylinder blocks Cylinder heads	3.7	Quality assurance
2.4.80	Cylinder liners	3.7.1	Marking technology
2.4.81	Cylinder timers Cylinder jackets	3.7.2	Marking
	- J		-
		3.8	Computer tomography
		3.8.1	Services, application technology
3	Services	3.8.2	Software
3.1	Concept	3.9	Software for foundries
3.1.1	Concept development		
3.1.2	Concept benchmark		
		4	F
3.2	Product development		Forging
3.2.1	Design, development and simulation		
2.0.0	(design optimization, virtual trials)		Forged parts
3.2.2	Provision of prototypes- rapid prototyping and	4.1.1	Drop forged parts Whitesmith parts
2224	rapid tooling	4.1.2	•
3.2.2.1 3.2.2.2	Stereolithography (STL) Selective Laser Sintering (SLS)	4.1.3 4.1.4	Precision forged parts Copper forgings
3.2.2.3	Fused Deposition Modeling (FDM)	4.1.4	Aluminium forgings
3.2.2.4	Laminated Object Modelling (LOM)	4.1.6	Forged parts for the automotive industry
3.2.2.5	3D Printing	4.1.7	Others
3.2.2.6	Sand milling method	7.1.7	others
3.2.3	Advice on materials and component testing	4.2	Processing of forged parts
3.2.4	Pattern	7.2	Trocessing or lorged pures
3.2.4.1	Wooden pattern	4.3	Extrusion press parts
3.2.4.2	Plastic pattern		
3.2.4.3	Foamed plastic pattern	4.4	Upset forgings
3.2.4.4	Metal pattern		
3.2.4.5	Plastic core making tools	4.5	Trade
3.2.4.6	Metal core making tools		
3.2.5	Diemaking		
3.2.5.1	Diecasting tools		
3.2.5.2	Injection-moulding tools	5	Sinters
3.2.5.3	Cast iron mould		
3.2.5.4	Core making tools	5.1	Moduled parts from sintered metal
3.3	Engineering services (research and consultation)	5.2	Sintered bearings
3.3.1	Certification and classification		

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		Düsseldorf 16/06 – 20/06/1
5.3	Sintered magnets	
5.4	Sintered metals	
5.5	Sintered products, metallic	
5.6	Sintered products, non-metallic	
5.7	Coating	
5.8	Others	
6	Trade and logistics	
6.1	Manufacturers	
6.2	Trade	
6.3	Logistics	
6.4	Storage techniques	
6.5	Transport systems	
6.6	Service	
6.7	Delivery service	
6.8	Pre-operational techniques (sawing, cutting)	
6.9	Pre-operational centres	