



16th International
Foundry Trade Fair
with Technical Forum

Düsseldorf
21/06 – 25/06/27

1	Foundry plants and installations, planning, construction, engineering
2	Melting shop
2.1	Cupolas
2.1.1	Cupolas, coke-fired
2.1.2	Cupolas, cokeless, gas-fired or oil-fired
2.2	Electric melting and holding furnaces (pouring equipment see 10.1)
2.2.1	Electric arc furnaces for foundries
2.2.2	Crucible induction furnaces
2.2.3	Channel type induction furnaces
2.2.4	Melting and holding furnaces, electric resistance type
2.2.5	Hearth-type electric melting and holding furnaces
2.2.6	Crucible lifting furnaces
2.2.7	Bale-out furnaces, electric
2.2.8	Vacuum melting furnaces
2.2.9	Other electric melting and holding furnaces
2.2.10	Dosing furnaces, gas and electric heated
2.3	Fuel-heated melting and holding furnaces
2.3.1	Crucible melting and holding furnaces, fuel-heated
2.3.2	Hearth-type melting and holding furnaces, fuel-heated
2.3.3	Rotary furnaces
2.3.4	Bale-out furnaces, fuel-heated
2.3.5	Melting and holding furnaces, fuel-heated
2.4	Auxiliary melting and melt processing facilities
2.4.1	Charging plants
2.4.2	Charge preheating facilities
2.4.3	Electromagnetic conveying channels for molten metal
2.4.4	Blowing-in equipment for cupolas
2.4.5	Oxygen addition equipment for cupolas
2.4.6	Inoculation devices, injection equipment
2.4.7	Induction stirring installations
2.4.8	Recuperators
2.4.9	Slag treatment equipment
2.4.10	Melt treatment stations
2.4.11	Inert gas installations
2.4.12	Gas flushing installations
2.4.13	Vacuum degassing equipment
2.5	Melting and holding furnaces, accessories
2.5.1	Crucibles
2.5.2	Graphite electrodes
2.5.3	Heating wires and heating bars for electric resistance type furnaces
2.5.4	Emergency collecting pit
2.5.5	Melting and holding furnaces, other accessories
2.5.6	Power electronics / converter
2.5.7	Automation (melting and holding furnaces, accessories)
2.5.8	Safety engineering (melting and holding furnaces, accessories)
2.5.9	Melting and holding furnaces, services
2.6	Operating materials and supplies for the melting shop
2.6.1	Foundry coke
2.6.2	Slag-forming additives
2.6.3	Melt treating agents and covering agents for ferrous cast alloys

2.6.4	Melt treating agents and covering agents for non ferros cast alloys
2.6.5	Recarburizers
2.6.6	Gas, industrial
2.6.7	Gas, hydrogen

3	Refractories technology
3.1	Refractory materials and products, insulating materials
3.1.1	Refractory ramming mixtures
3.1.2	Refractory bricks
3.1.3	Refractory gating system parts
3.1.4	Insulating materials and products
3.2	Equipment for the lining of melting and pouring equipment
3.2.1	Compaction apparatus for refractory ramming materials
3.2.2	Spraying machines for refractory material
3.2.3	Break-out equipment for furnace and ladle lining

4	Metallic charge materials
4.1	Charge materials for iron, steel and malleable iron casting
4.1.1	Pig iron
4.1.2	Scrap, scrap iron
4.1.3	Ferro-alloys
4.1.4	Alloying metals, master alloys (iron, steel and malleable iron casting)
4.1.5	Inoculants
4.1.6	Nodularizing additions for spheroidal graphite cast iron
4.2	Charge materials for non-ferrous metal castings
4.2.1	Aluminium, aluminium alloys
4.2.2	Magnesium, magnesium alloys
4.2.3	Copper, copper alloys
4.2.4	High-grade zinc alloys
4.2.5	Tin, zinc, alloys
4.2.6	Alloying metals, master alloys (non-ferrous metal castings)
4.2.7	Alloys for rheocasting, thixocasting and squeeze-casting
4.2.8	Non-ferrous metal scraps

5	Moulding and core making
5.1	Moulding machines and plants for bentonite-bonded sands
5.1.1	Moulding machines
5.1.2	Moulding plants, flaskless
5.1.3	Moulding plants with flasks
5.2	Moulding machines and plants for non bentonite-bonded moulds
5.2.1	Cold-setting resin moulding processes, equipment
5.2.2	Shell moulding process, equipment
5.2.3	Waterglass process, equipment
5.2.4	Lost-foam processes, equipment
5.2.5	Vacuum moulding process, equipment
5.2.6	Investment casting processes, equipment
5.2.7	Moulding machines and plants, other processes



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5.3	Core making machines and plants
5.3.1	Core blowing and shooting machines and plants
5.3.2	Core making machines, other
5.4	Moulding and core making machines, accessories
5.4.1	Gassing equipment for moulds and cores
5.4.2	Dosing devices for binders and additives
5.4.3	Mould handling equipment
5.4.4	Core handling equipment
5.4.5	Core treatment equipment (deflashing, coating, drilling), core glueing equipment
5.4.6	Automated core / mould manipulation systems
5.4.7	Coating preparation
5.4.8	Moulding and coremaking machines, other accessories
5.5	Moulding boxes and accessories
5.6	Salt core production
5.6.1	Salt cores, pressed and sintered
5.6.2	Core shot salt cores
5.6.3	Salt cores, die casted
5.6.4	Salt cores in hot chamber die casting process
6	Moulding sands
6.1	Sands
6.1.1	Silica sand
6.1.2	Chromite sand and flour
6.1.3	Zircon sand and flour
6.1.4	Moulding sands with natural clay binder
6.1.5	Sands, other
6.2	Moulding sand binders
6.2.1	Bentonites and clays
6.2.2	Synthetic resin binders for cold setting processes
6.2.3	Synthetic resin binders for gassing processes
6.2.4	Synthetic resin binders for thermosetting processes
6.2.5	Sodium silicate binders
6.2.6	Cement binders
6.2.7	Binders for investment casting
6.2.8	Moulding sand binders, others
6.3	Moulding sand additives, coatings for moulds and cores
6.3.1	Lustrous carbon formers
6.3.2	Moulding sand additives, others
6.3.3	Mould and core coatings
6.4	Moulding sands ready-to-use
6.4.1	Precoated sands for shell moulding
6.4.2	Betonite-bonded sands ready-to-use, waterless
6.4.3	Moulding sands ready-to-use, others
7	Moulding sand preparation and sand reclamation
7.1	Moulding sand preparation
7.1.1	Moulding sand preparation machines and plants
7.1.2	Moulding sand mixer
7.1.3	Crushing and grinding plants
7.1.4	Magnetic separators

7.1.5	Measuring and control equipment for moulding sand preparation
7.1.6	Sand coolers
7.1.7	Sand aerators
7.1.8	Sand precoating plants (for shell moulding)
7.1.9	Screening machines and installations (silos and hoppers see 15.7)
7.1.10	Separators for chromite and silica sand, zircon and silica sand
7.1.11	Moulding sand preparation, further equipment
7.2	Sand reclamation, plants and machines
7.2.1	Sand reclamation of clay bonded moulding sands
7.2.2	Sand reclamation of sodium silicate and cement bonded sands
7.2.3	Sand reclamation of synthetic resin bonded sands
7.2.4	Crushing and grinding plants for used sand
8	Moulding auxiliaries
8.1	Pneumatic rammers
8.2	Moulding auxiliaries, general
8.3	Foundry tools
8.4	Mould and core adhesives
8.5	Cores, prefabricated
8.6	Chaplets
9	Gating and feeding
9.1	Covering compounds for feeders
9.2	Breaker cores
9.3	Filterelements for liquid metals
9.4	Exothermic materials
9.5	Cooling elements
9.6	Strainer cores
9.7	Feeder sleeves
9.8	Funnels and filter Systems
9.9	Gating and feeding, other auxiliaries
10	Casting machines and pouring equipment
10.1	Pouring equipment
10.1.1	Pouring equipment, mechanical
10.1.2	Pouring equipment, dosing
10.1.3	Pouring equipment, heated (pouring furnaces)
10.1.4	Pouring ladles
10.1.5	Launders
10.1.6	Pig casting machines
10.1.7	Pouring equipment and plants, other
10.1.8	Precision fine casting units
10.2	Die casting machinery and plant
10.2.1	Cold chamber die casting machinery
10.2.2	Vacuum assisted cold chamber special process
10.2.3	Thixocasting die casting machinery
10.2.4	Squeeze casting die casting machinery
10.2.5	Warm chamber die casting machinery
10.2.6	Complete die casting systems / die casting cells



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10.3	Peripheral equipment and auxiliary materials for die casting (die casting dies see 17.3.1)	11.4.2	Sawing machines
10.3.1	Ladling and dosing equipment for die casting	11.4.3	Gating and feeding system separator machines and installations
10.3.2	Die heater /-cooler units and accessories	11.4.4	Abrasive cut-off machines and wheels
10.3.3	Die spraying units	11.4.5	Fettling facilities, other
10.3.4	Release agents for die casting	11.5	Grinding machines and accessories
10.3.5	Operating and auxiliary materials for die casting	11.5.1	Grinding machines, automatic controlled
10.3.6	Extracting equipment for die castings	11.5.2	A-type grinding machines, hand operated or mechanized
10.3.7	Trimming machines for die casting	11.5.3	Hand-grinding machines
10.3.8	Trimming tools for die casting	11.5.4	Grinding wheels
10.3.9	Ascension pipes for dosing installations and low pressure casting	11.5.5	Abrasives, others
10.3.10	Other accessories for die casting	11.5.6	Grinding technology, others
10.3.11	Vacuum technology for die casting machines	11.6	Fettling tools and fettling accessories, general
10.4	Die casting machines and accessories	11.6.1	Fettling chambers, fettling benches, fettling cabins
10.4.1	Gravity die casting machines / plants	11.6.2	Fettling tools and sundries
10.4.2	Low pressure die casting machines / plants	11.7	Interlacing and automation of fettling shops
10.4.3	Accessories, operating and auxiliary material for die casting machines	11.8	As-cast casting inspection equipment
10.5	Centrifugal casting machines and accessories	12	Surface treatment
10.5.1	Centrifugal casting machines	12.1	Enamelling plants
10.5.2	Centrifugal casting moulds	12.2	Paint spraying units and tools
10.6	Continuous casting machines and accessories	12.3	Impregnation plants
10.6.1	Continuous casting machines / plants	12.4	Galvanizing plants
10.6.2	Continuous casting moulds	12.5	Surface treatment materials
10.7	Accessories	12.6	Surface treatment plants
10.7.1	Inductors	13	Welding and cutting
10.7.2	Pouring Control System	13.1	Flame cutting installations and accessories
10.7.3	Power Electronics	13.2	Welding installations and accessories
10.7.4	Automation (accessories for casting machines and pouring equipment)	13.3	Filler metals
10.7.5	Safety Engineering (accessories for casting machines and pouring equipment)	14	Heat treating and drying furnaces
10.7.6	Accessories, service	14.1	Mould and ladle dryers
11	Knock-out, fettling and finishing	14.2	Core drying stoves
11.1	Knock-out	14.3	Sand drying plants and stoves
11.1.1	Knock-out and cooling drums and conduits	14.4	Heat treating furnaces and installations
11.1.2	Knock-out machines	14.5	Burners and heaters
11.1.3	Cooling conveyors	14.6	Microwave dryer
11.1.4	Decorating equipment	15	Transportation and storage
11.2	Blasting plant and accessories	15.1	Trucks, industrial
11.2.1	Pneumatic blast cleaning machines	15.2	Cranes, hoists, rack trucks and accessories
11.2.2	Airless shot-blasting machines	15.3	Pneumatic conveyors
11.2.3	Pressure water blasting plants	15.4	Roller conveyors
11.2.4	Dry ice blasting machines	15.5	Oscillating conveyors
11.3	Shot-blasting abrasives	15.6	Continuous conveyors (belt conveyors, bucket conveyors and others)
11.3.1	Shot-blasting abrasives, metallic	15.7	Bunkers, silos and accessories
11.3.2	Shot-blasting abrasives, inorganic, nonmetallic	15.8	Transport containers, pallets, racks
11.3.3	Shot-blasting abrasives, organic		
11.3.4	Shot-blasting abrasives, others		
11.4	Fettling installations		
11.4.1	Deflashing machines		



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16

Manipulation

- 16.1 Manipulators
- 16.2 Industrial robots
- 16.3 Manipulators, mechanical
- 16.4 Positioning devices

17

Pattern and die making

- 17.1 Pattern and die making, machines and tools
 - 17.1.1 Wood working machines
 - 17.1.2 Metal machining, machine-tools
 - 17.1.3 Foam pattern production, machines
 - 17.1.4 Spotting presses
 - 17.1.5 Wax pattern injection machines
 - 17.1.6 Patternmaking and die making tools
 - 17.1.7 Cleaning equipment for permanent moulds
- 17.2 Pattern and die making materials and standard elements
 - 17.2.1 Metals and alloys
 - 17.2.2 Standard elements for permanent moulds and dies
 - 17.2.3 Hot working steels for die casting dies
 - 17.2.4 Die making, accessories
 - 17.2.5 Heating and cooling devices for moulding and castings tools
 - 17.2.6 Plastics
 - 17.2.7 Ceramics
 - 17.2.8 Pattern wood
 - 17.2.9 Pattern varnishes
 - 17.2.10 Pattern making sundries
 - 17.2.11 Plaster
 - 17.2.12 Investment casting waxes, waxes for wax injection machines, special waxes
- 17.3 Pattern equipment, permanent moulds and accessories
 - 17.3.1 Die casting dies
 - 17.3.2 Permanent moulds, gravity dies
 - 17.3.3 Gauges and fixtures
 - 17.3.4 Patterns and core boxes made of wood and plastic
 - 17.3.5 Metal patterns and core boxes
 - 17.3.6 Metal plates
 - 17.3.7 Lost foam patterns
- 17.4 Solid freeform manufacturing
 - 17.4.1 Object generation, equipment and processes
 - 17.4.2 Rapid prototyping, equipment and processes
 - 17.4.3 Rapid tooling, materials, technologies and processes

18

Control systems

- 18.1 Process control, models, simulation
- 18.2 Control equipment, automation technology

19

Measurement and test technology

- 19.1 Measuring instruments
 - 19.1.1 Temperature measuring instruments
 - 19.1.2 Thermal analysis equipment
 - 19.1.3 Aluminium melt testing equipment

19.2

Scales and weighing machines

19.3

Testing of materials and workpieces

- 19.3.1 Tightness testers
- 19.3.2 Endoscopes
- 19.3.3 Hardness testers
- 19.3.4 Crack detection equipment, test media
- 19.3.5 X-ray testing equipment
- 19.3.6 Ultrasonic testing equipment
- 19.3.7 Materials testing, further equipment
- 19.3.8 Surface inspection

19.4

Chemical analyses and metallography

- 19.4.1 Gas analysis apparatus
- 19.4.2 Laboratory equipment
- 19.4.3 Spectrographic analysis equipment
- 19.4.4 Metallographic testing equipment
- 19.4.5 Microscopes
- 19.4.6 Grinding and polishing installations for metallography
- 19.4.7 Analytical apparatus, others

19.5

Mould and moulding sand testing

- 19.5.1 Mould testing equipment
- 19.5.2 Moulding sand testing equipment

19.6

Quality control

20

Compressed-air technology

- 20.1 Compressed-air plants and accessories
- 20.2 Pneumatic tools
- 20.3 Compressors and accessories

21

Exhaust and ventilation technology

- 21.1 Exhaust systems
- 21.2 Blowers and fans
- 21.3 Ventilating and air-conditioning equipment

22

Environmental protection and waste removal

- 22.1 Flue gas cleaning plants
- 22.2 Waste water cleaning plants
- 22.3 Dust extraction systems
- 22.4 Filters and filter materials
- 22.5 Operating supplies for waste management plants
- 22.6 Foundry waste preparation plants
- 22.7 Pelletization plants
- 22.8 Residue recycling
- 22.9 Slag dressing plants
- 22.10 Water treatment plants
- 22.11 Environmental protection and waste removal, further installations

23

Safety and security

- 23.1 Personal protective equipment
- 23.2 First aid, rescue



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- 23.3 Workstation architecture, ergonomcy
- 23.4 Security at work
- 23.5 Services, consulting

24 Data processing and digitalization of production processes

- 24.1 Data processing, product development and optimisation software CAD / CAE
- 24.2 Artificial intelligence, machine learning and data science solutions
- 24.3 Simulation of casting processes
- 24.4 Computer programs for the construction of models and moulds
- 24.5 Software for business and process data capture
- 24.6 Quality assurance software
- 24.7 E-business, e-commerce, IT solutions
- 24.8 Engineering services

25 Additive manufacturing

- 25.1 Software and digitalization solutions
- 25.2 Manufacturer of metal powders
 - 25.2.1 Aluminium based powders
 - 25.2.2 Stainless steel based powders
 - 25.2.3 Cobalt-Chromium based powders
 - 25.2.4 Copper based powders
 - 25.2.5 Nickel based powders
 - 25.2.6 Titanium based powders
 - 25.2.7 Carbon Steel based powders
 - 25.2.8 Other metal powders
- 25.3 Manufacturer of metal wires
- 25.4 Manufacturer of metal blocks, plates, bars
- 25.5 Manufacturer of metal pastes
- 25.6 Manufacturer of metal parts
- 25.7 Manufacturer of cores and moulding materials
- 25.8 Machinery, equipment and process for additive manufacturing
 - 25.8.1 Powder bed printing
 - 25.8.1.1 SLS (Selective Laser Sintering)
 - 25.8.1.2 SLM (Selective Laser Melting)
 - 25.8.1.3 LBM (Laser Beam Melting)
 - 25.8.1.4 LMF (Laser Metal Fusion)
 - 25.8.1.5 DMLS (Direct Metal Laser Sintering)
 - 25.8.1.6 LMD (Laser Metal Disposition)
 - 25.8.1.6.1 LPF (Laser Powder Forming)
 - 25.8.2 Binder jetting
 - 25.8.3 Surface coating
 - 25.8.3.1 Laser material processing / DED Directed Energy Deposition
 - 25.8.3.2 CLAD process / cladding
 - 25.8.3.3 Turning, grinding, milling

- 25.8.4 Other installations and procedures for additive manufacturing

25.9 Systems for mould and core materials

- 25.10 3D sand printing
 - 25.10.1 Organic binder systems
 - 25.10.2 Inorganic binder systems

- 25.11 Post processing
 - 25.11.1 Machining
 - 25.11.2 EDM (Electrical Discharge Machining)
 - 25.11.3 Peening
 - 25.11.4 Grinding
 - 25.11.5 Polishing
 - 25.11.6 Surface treatment (post processing, additive manufacturing)
 - 25.11.7 Heat treatment
 - 25.11.8 HIP (Hot Isostatic Pressing)
 - 25.11.9 Controlling (post processing, additive manufacturing)
 - 25.11.10 Vibratory grinding
 - 25.11.11 Cleaning

26 Research, development, associations, institutions

27 Consulting, design, service and engineering

28 Technical publications, technical periodicals

29 Training, further education