

# Product-group categories

Development	
1. Development and design	1.1 Design 1.2 Component and system development 1.3 Product development 1.4 Process development 1.5 Development and design engineering 1.6 Other – Development and design
2. IT systems/software	2.1 Hardware (general) 2.2 CAD/CAM systems 2.3 Simulation 2.4 Software, special-purpose 2.5 Other – IT systems/software
3. Tooling and mouldmaking	3.1 Die making, tool making 3.2 Model and prototype making 3.3 Rapid prototyping 3.4 Rapid tooling 3.5 Other – Tooling and mouldmaking
4. Tools	4.1 Progressive die 4.2 Norms for punching and shaping tools 4.3 Injection molding/die-casting dies 4.4 Cutting and punching tools 4.5 Deep-drawing die 4.6 Tool-handling and tool-fastening systems 4.7 Bending tools 4.8 Tool-clamping devices 4.9 Separating tools 4.10 Spare tool parts 4.11 Other tools
5. Semi-finished goods, materials	5.1 Intermediate/semi-finished products, metallic 5.2 Intermediate/semi-finished products, non-metallic 5.3 Other semi-finished goods and materials
6 Process materials	6.1 Chemicals 6.2 Norms 6.3 Polishing agents 6.4 Cleaning agents 6.5 Lubricants 6.6 Other process materials

# Manufacturing

7. Shaping and stamping	<ul style="list-style-type: none"> <li>7.1 Bending machines and systems</li> <li>7.2 Lathes</li> <li>7.3 Presses</li> <li>7.4 Roll bending machines</li> <li>7.5 Stamping machines and systems</li> <li>7.6 Special-purpose machines</li> <li>7.7 Service-providers – Stamping and shaping</li> <li>7.8 Other equipment, spare parts and accessories for shaping and stamping</li> </ul>
8. Surface treatment, refinement	<ul style="list-style-type: none"> <li>8.1 Etching machines and systems</li> <li>8.2 Coating machines and systems</li> <li>8.3 Erosion machines and systems</li> <li>8.4 Electroplating machines and systems</li> <li>8.5 Marking systems and equipment</li> <li>8.6 Polishing machines and systems</li> <li>8.7 Cleaning machines and systems</li> <li>8.8 Grinding machines and systems</li> <li>8.9 Service-providers – surface technology</li> <li>8.10 Other equipment, spare parts and accessories for surface treatment and refinement</li> </ul>
9. Injection molding for plastics	<ul style="list-style-type: none"> <li>9.1 Processing machines and systems</li> <li>9.2 Extruders</li> <li>9.3 Cooling equipment</li> <li>9.4 Injection molding machines and systems</li> <li>9.5 Service-providers – Injection molding</li> <li>9.6 Other equipment, spare parts and accessories for injection molding for plastics</li> </ul>
10. Metal/plastic composite technologies	<ul style="list-style-type: none"> <li>10.1 Automation solutions for metal/plastic composites</li> <li>10.2 Assemblies (mounted in plastic)</li> <li>10.3 Inserts (plastic injected around inserted part)</li> <li>10.4 Outserts (part surrounds injected plastic)</li> <li>10.5 Integrated manufacturing techniques</li> <li>10.6 Other metal/plastic composite technologies</li> </ul>

# Manufacturing

11. Assembly and handling technology, periphery	11.1 Reeling/unreeling machines 11.2 Destacking systems 11.3 Strip position control systems 11.4 Strip-storage systems 11.5 Strip-straightening machine 11.6 Strip-lubricating systems 11.7 Strip welding machines 11.8 Container filling systems 11.9 Oiling systems 11.10 Removal systems 11.11 Feeders, feed technology 11.12 Conveyor systems 11.13 Reels 11.14 Hot runners 11.15 Plastic feeder systems 11.16 Cooling equipment and systems 11.17 Assembly equipment and systems 11.18 Robots 11.19 Cleaning equipment 11.20 Lubricating equipment and systems 11.21 Other equipment, spare parts and accessories for assembly and handling technology and periphery
12. Interconnection technology	12.1 Laser welding systems 12.2 Crimp contacts 12.3 Solder contacts 12.4 Press-fit contacts 12.5 Plug contacts 12.6 Other interconnection technologies

# Manufacturing

13. Process and quality control	13.1 Production data-acquisition (PDA) systems 13.2 Coordinate measuring technology and devices 13.3 Light barriers 13.4 Machine data-acquisition (MDA) systems 13.5 Manufacturing execution systems (MES) 13.6 Measuring, testing and inspection equipment 13.7 Compression force control systems 13.8 Process measuring technology 13.9 Process control and automation 13.10 Process monitoring 13.11 Traceability equipment 13.12 Sensors 13.13 Regulation and control equipment 13.14 Tool-safety equipment 13.15 Tool monitoring 13.16 Other equipment, spare parts and accessories for process and quality control
14. Production logistics	14.1 Coils 14.2 Storage systems and equipment 14.3 Warehouse logistics systems and equipment 14.4 Packaging technology 14.5 Transport vehicles 14.6 Service-providers – Transport and logistics 14.7 Other equipment, spare parts and accessories for production logistics
15. Occupational safety and environmental protection	15.1 Disposal 15.2 Recycling 15.3 Safety engineering 15.4 Environmental technology 15.5 Other – Occupational safety and environmental protection
16. Used machines, systems, plants	16.1 Plants 16.2 Machines 16.3 Systems 16.4 Other used machines, systems and plants

# Hybrid components

17. Stamped parts/components	17.1 Bent parts 17.2 Turned parts 17.3 Injection molded parts 17.4 Compression molded parts 17.5 Stamped bent parts 17.6 Stamped parts 17.7 Drawn parts 17.8 Other stamped parts/components
18. Metal/plastic hybrid components	18.1 Hybrid components 18.2 Hybrid housings 18.3 Hybrid frames 18.4 Hybrid assemblies 18.5 MID components 18.6 Other metal/plastic hybrid components
19. Metal/plastic composite solutions according to user industry	19.1 Automotive 19.2 Communications 19.3 Electrical/electronics 19.4 Building technology/installation technology 19.5 Domestic engineering/appliance technology 19.6 Industrial engineering/plant and machinery technology 19.7 Information technology/data processing 19.8 Aviation and aerospace 19.9 Medical technology 19.10 Optics/precision optics 19.11 Other user industries
20. Services	20.1 Contract/basic research 20.2 Education/training 20.3 Consulting 20.4 General overall/modernization 20.5 Retrofitting 20.6 Repair/maintenance 20.7 Trade associations 20.8 Publishers 20.9 Other services

Last update: June 1, 2008