

01	Sheet metal, semi-finished and finished products (ferrous/non-ferrous)	04.02.01 sheet metal profile rolling machines, spinning and flow forming machines	08.04.00	resistance welding equipment	12	Data processing (hard- and software)	
		04.02.02 sheet metal forming machines	08.04.01 stud welding machines (also automatic)		12.01.00	data processing, general	
01.01.00	sheet/plate/strip metal	04.02.03 extruding presses	08.04.02 multi-operator stud welding machines		12.01.01	integrated solutions for sheet metal and section working (CAD/CAM)	
01.01.01	metal film	04.02.04 thread rolling machines	08.04.03 spot welding machines		12.01.02	integrated design solutions (2-D/3-D)	
01.01.02	thin sheet metal	04.02.05 cold extrusion presses	08.04.04 spot welding guns		12.01.03	other CAD/CAM/CIM applications	
01.01.03	strip (coiled) metal	04.02.06 coining presses	08.04.05 seam welding machines		12.01.04	process simulation	
01.01.04	plate	04.02.07 knurling machines	08.04.06 butt welding machines		12.01.05	interfacing and development	
01.01.05	tailored blanks, special sheets	04.02.08 edge forming machines	08.05.00	welding robots	12.01.06	process control, measuring and guidance systems	
01.02.00	surface treated/plastic coated/ plated sheet and coil	04.02.09 rollforming machines for hollow components	08.06.00	accessories for welding/soldering/ plasma equipment (incl. robots)	12.01.07	process data capturing	
		04.02.10 rollforming operations, general	08.06.01 welding rods/electrodes, consumables		12.01.08	other applications in manufacturing data service and administration	
01.03.00	semi-finished products (incl. punched sheet, expanded metal)	04.02.11 corrugating machines for sheet metal	08.06.02 gels		12.01.09	(incl. data conversion, graphics storage and warehouse control, integrated factory solutions)	
		04.02.12 sandwich panel machines	08.07.00	bonding			
01.04.00	sections/tubes	04.03.00	tensile/pressure forming				
01.04.01	formed tube/section parts	04.03.01 drawing/ironing machines	04.03.01 drawing/ironing machines				
01.05.00	sheet metal parts/finished products	04.03.02 spinning and planishing machines	04.04.00	tensile forming			
01.05.01	blanks (incl. laser-, plasma-, waterjet cut parts etc.)	04.03.02 spinning and planishing machines	04.04.01 stretch wrap forming presses				
		04.04.01 stretch wrap forming presses	04.04.02 deep drawing presses				
01.05.02	pressed, drawn, punched and flanked parts	04.05.00	straightening, forming, bending				
01.05.03	formed and punched-formed parts	04.05.01 bending machines	04.05.01 bending machines				
01.05.04	spun/flow formed parts	04.05.02 bending/straightening presses	04.05.02 bending/straightening presses				
01.05.05	internal high pressure/hydroformed parts, deep drawn parts, specialised parts	04.05.03 sheet metal levelling machines	04.05.03 sheet metal levelling machines				
		04.05.04 sheet metal bending machines	04.05.04 sheet metal bending machines				
01.05.06	warm and hot formed parts	04.05.05 curling machines	04.05.05 curling machines				
01.05.07	sheet metal assemblies, other fin. parts (incl. fastening systems, profiled joints)	04.05.06 seaming/tube forming machines	04.05.06 seaming/tube forming machines				
		04.05.07 flanging machines	04.05.07 flanging machines				
		04.05.08 die sinking presses/press brakes	04.05.08 die sinking presses/press brakes				
		04.05.09 straightening machines and equipment	04.05.09 straightening machines and equipment				
01.06.00	sub-contractors	04.05.10 bending rolls/circular lamination	04.05.10 bending rolls/circular lamination				
		04.05.11 folding machines	04.05.11 folding machines				
		04.05.12 crimping machines	04.05.12 crimping machines				
		04.05.13 stretcher levelling machines	04.05.13 stretcher levelling machines				
		04.05.14 beading machines	04.05.14 beading machines				
		04.05.15 rollformers	04.05.15 rollformers				
		04.06.00	edge forming				
		04.06.01 rounding off equipment	04.06.01 rounding off equipment				
		04.06.02 sheet metal deburring machines	04.06.02 sheet metal deburring machines				
		04.06.03 plate edging machines	04.06.03 plate edging machines				
		04.06.04 edge trimming machines	04.06.04 edge trimming machines				
		04.06.05 plate edge bevellers	04.06.05 plate edge bevellers				
		04.07.00	internal high pressure forming				
		04.08.00	hot forming/press hardening				
02	Handling technology	05	Flexible sheet metal working technology	09	Surface technology	13	Factory and warehouse equipment
02.01.00	feeding and discharging (coil)	05.01.00	blanking incl. workpiece/tool handling	09.01.00	Surface treatment, general	13.01.00	factory/warehouse equipment, general
02.01.01	coiling/uncoiling equipment, reels	05.01.01	trimming and forming machines	09.01.01	surface protection, general	13.01.01	factory/warehouse equipment, general
02.01.02	stop systems	05.01.02	sheet metal working centres	09.01.02	dip-coating processes, general	13.01.02	general
02.01.03	passline control systems	05.01.03	bending centres	09.01.03	washing, degreasing	13.01.03	general
02.01.04	feeding/discharging equipment	05.01.04	cutting centres	09.01.04	cleaning	13.01.04	general
02.02.00	handling and part removal	05.01.05	combined laser cutting/forming machines	09.01.05	drying	13.01.05	general
02.02.01	stacking devices	05.01.06	feed presses and automatic bending equipment	09.01.06	lubricating	13.01.06	general
02.02.02	ejecting devices	05.01.07	transfer presses	09.01.07	paint finishing	13.01.07	general
02.02.03	workpiece insertion units	05.02.00	bending and folding incl. workpiece/tool handling	09.01.08	electrostatic coating	13.01.08	general
02.02.04	feeders	05.03.00	joining incl. workpiece/tool handling	09.01.09	vaporising, melting	13.01.09	general
02.02.05	blank feeding units	05.04.00	integrated sheet metal working incl. workpiece/tool handling	09.01.10	hot-dip zinc plating, hot dip tinning	13.01.10	general
02.02.06	robots for sheet metal working/handling	05.04.01	can making machines	09.01.11	flame/laser spraying	13.01.11	general
02.02.07	transfer facilities	05.04.02	roll forming equipment for special can necks and covers	09.01.12	electro-surfacing	13.01.12	general
02.02.08	feeding and loading equipment, general	06	Tube/section working	09.01.13	diffusing	13.01.13	general
02.03.00	workpiece fixing	06.01.00	tube/section cutting and trimming (incl. punching/stamping)	09.01.14	diffusion annealing	13.01.14	general
02.03.01	magnetic workpiece fixing devices	06.02.00	tube/section forming (incl. bending and CNC equipment)	09.01.15	hardening	13.01.15	general
02.03.02	vacuum fixing plates	06.03.00	tube/section end forming and deburring	09.01.16	eroding	13.01.16	general
02.04.00	intermediate storage	06.04.00	tube/section measuring systems	09.01.17	descaling	13.01.17	general
02.04.01	storage of sheet metal parts	06.05.00	other tube/section working	09.01.18	changing the characteristics of materials	13.01.18	general
02.04.02	storage of coils	07	Machine elements	09.01.19	deburring	13.01.19	general
02.04.03	storage of blanks	07.01.00	components for sheet metal/plate working machines	09.02.00	surface treatment, chemical	13.01.20	general
02.05.00	tool handling	07.01.01	drive technology/drive units	09.02.01	stripping, electrolytical polishing	13.01.21	general
02.06.00	assembly technology	07.01.02	turning rolls, turning and tilting tables	09.02.02	corroding	13.01.22	general
		07.01.03	flexible machine mountings	09.02.03	pickling	13.01.23	general
		07.01.04	gearboxes, gears	09.02.04	coating	13.01.24	general
		07.01.05	cooling agents and systems	09.03.00	surface treatment, electro-chemical/electrolytical	13.01.25	general
		07.01.06	light barriers/light curtains	09.03.01	coating, galvanising	13.01.26	general
		07.01.07	motors, generators and accessories	09.03.02	dip-coating processes, electrochemical	13.01.27	general
		07.01.08	blanking impact absorbers	09.04.00	surface treatment, mechanical	13.01.28	general
		07.01.09	vibration absorbers	09.04.01	grinding processes, general	13.01.29	general
		07.01.10	spraying plants and equipment	09.04.02	wide belt grinding	13.01.30	general
		07.01.11	lubrication systems	09.04.03	long belt grinding	13.01.31	general
		07.01.12	two-hand trip guards	09.04.04	vessel grinding	13.01.32	general
		07.01.13	linear guidance systems	09.04.05	brushing	13.01.33	general
		07.01.14	energy supply and guidance systems (cable ducts, hoses, flexible energy conduits)	09.04.06	polishing	13.01.34	general
		07.01.15	optical components (incl. lasers)	09.04.07	shot-blasting	13.01.35	general
		07.01.16	hydraulic components	09.04.08	shot peening	13.01.36	general
		07.01.17	pneumatic components			13.01.37	general
		07.01.18	vacuum components			13.01.38	general
		07.01.19	other mechanical components (safety at work equipment see also 14.01.00)			13.01.39	general
03	Separation technology	08	Joining and fastening technology	10	Tool technology for sheet metal/plate working	14	Safety at work/ environment protection
03.01.00	separation equipment, general	08.01.00	joining by forming/staking/ clinching	10.01.00	separation tools	14.01.00	work place/body protection
03.01.01	strip slitting units/systems	08.01.01	pressure joining	10.01.01	knives/shear blades	14.01.01	waste gas treatment
03.01.02	edge trimming equipment	08.01.02	mobile pressure joining equipment	10.01.02	cutting/punching tools (incl. transfer tools, perforating tools, grooving tools)	14.01.02	extraction/filter devices/booths
03.01.03	trimming machines (manual/ automatic)	08.02.00	joining with fastener	10.01.03	carbide tools	14.01.03	waste water treatment
03.01.04	fine blanking presses (manual/ automatic)	08.02.01	riveting	10.01.04	pressure forming tools	14.01.04	noise and vibration protection
03.01.05	blanking	08.02.02	screw fastening	10.02.00	roll-forming tools (levelling, section/thread forming, angled rolling, flow-forming rollers)	14.01.05	radiation protection
03.01.06	laser cutting machines	08.02.03	nail fastening	10.02.01	spinning/pressing/straightening/ planishing tools (incl. thread forming, flow-forming and flow-turning tools)	14.01.06	air treatment/smoke and dust filters
03.01.07	plasma jet cutting machines	08.02.04	other fastener-based joining methods	10.03.00	drawing/pressure forming tools	14.01.07	accident prevention systems/divers
03.01.08	cutting to length and slitting machines	08.02.05	automated equipment and tools	10.03.01	lancing/plunging/burring tools (incl. die-plates, rollers, flow-turning tools)	14.02.00	environmental technology, recycling
03.01.09	flame cutting equipment	08.03.00	welding and soldering	10.03.02	forming-by-raising tools, bending-by-bulging tools	14.02.01	environmental research and consultation services
03.01.10	slitting lines	08.03.01	autogenous welding/soldering equipment	10.04.00	drawing tools	14.02.02	coolant/lubricant recycling
03.01.11	cutting-off grinders	08.03.02	arc welding machines	10.04.01	stretch-forming/embossing tools		
03.02.00	shears and cutting machines	08.03.03	plasma and laser beam welding and cutting equipment	10.05.00	drawing/pressure forming tools		
03.02.01	section, billet, ingot shears	08.03.04	tube welding equipment	10.05.01	lancing/plunging/burring tools (incl. die-plates, rollers, flow-turning tools)		
03.02.02	circle cutting shears	08.03.05	shielded arc welding installations	10.05.02	forming-by-raising tools, bending-by-bulging tools		
03.02.03	curve cutting shears	08.03.06	other welding/soldering machines and equipment	10.05.03	forming-by-raising tools, bending-by-bulging tools		
03.02.04	slab shears			10.06.00	hot forming/press hardening tools		
03.02.05	rotary shears			10.07.00	staking/clinching tools		
03.02.06	special shears and cutting machines			10.08.00	tool sets		
03.02.07	guillotine shears			10.08.01	follow-on tool sets		
03.03.00	cutting to length/trimming			10.08.02	transfer tool sets		
03.03.01	length cutting machines			10.09.00	other tools		
03.04.00	sawing equipment			10.10.00	tool accessories, components		
03.04.01	band sawing machines			10.10.01	templates		
03.04.02	circular sawing machines			10.10.02	standardised components, guide elements, springs		
03.04.03	other sawing machines			10.10.03	lubricating equipment		
03.05.00	other separation processes			10.10.04	jigs		
03.05.01	cutting machines for hollow shapes			10.10.05	plastic components for tools		
03.05.02	water cutting systems			10.11.00	tool handling/treatment		
03.06.00	punching, notching, blanking, stamping			10.11.01	heat treatment of tools/hard coatings		
03.06.01	nibbling and notching machines			10.11.02	clamping systems		
03.06.02	punching presses			10.11.03	tool changing systems		
03.06.03	precision blanking presses						
03.06.04	high performance feed presses (autom.)						
03.06.05	turret punch presses						
03.06.06	punching machines						
03.06.07	turret presses						
03.06.08	rotary die punching						
03.07.00	notching, perforating						
03.07.01	automated notching machines						
03.07.02	perforating machines						
03.08.00	specialised presses for punching/ notching/stamping						
04	Forming technology						
04.01.00	presses, general						
04.01.01	mechanical presses						
04.01.02	hydraulic presses						
04.01.03	pneumatic presses						
04.01.04	CNC-presses						
04.01.05	double-sided presses						
04.01.06	eccentric presses						
04.01.07	foot lever presses						
04.01.08	toggle lever presses						
04.01.09	crank presses						
04.01.10	trout presses, workshop presses						
04.01.11	blow forging presses						
04.01.12	specialised presses						
04.01							