

Symbol	Typ	Titel
B	Sektion	PERFORMING OPERATIONS; TRANSPORTING
B21	Untersektion	SHAPING
B21	Klasse	MECHANICAL METAL-WORKING WITHOUT ESSENTIALLY REMOVING MATERIAL; PUNCHING METAL (casting, powder metallurgy B22; shearing B23D; working of metal by the action of a high concentration of electric current B23H; soldering, welding, flame-cutting B23K; other working of metal B23P; punching sheet material in general B26F; processes for changing of physical properties of metals C21D , C22F; electroforming C25D 1/00)
B21L	Unterklasse	MAKING CHAINS (chains in general F16G)
B21L 1/00	Hauptgruppe	Making chains or chain links by bending workpieces of rod, wire, or strip to form links of oval or other simple shape (B21L 3/00 , B21L 7/00 take precedence)
B21L 1/02	1-Punkt Untergruppe	. by bending the ends of the workpieces to abut
B21L 1/04	1-Punkt Untergruppe	. by bending and interconnecting the ends of the workpieces with or without separate jointing members
B21L 3/00	Hauptgruppe	Making chains or chain links by bending the chain links or link parts and subsequently welding or soldering the abutting ends (B21L 7/00 takes precedence)
B21L 3/02	1-Punkt Untergruppe	. Machines or devices for welding chain links
B21L 3/04	2-Punkt Untergruppe	. . by making use of forge or pressure welding
B21L 5/00	Hauptgruppe	Making chains or chain links by working the starting material in such a way that integral, i.e. jointless, chain links are formed
B21L 5/02	1-Punkt Untergruppe	. in such a way that interconnected links are formed
B21L 7/00	Hauptgruppe	Making chains or chain links by cutting single loops or loop-parts from coils, assembling the cut parts and subsequently subjecting same to twisting with or without welding
B21L 9/00	Hauptgruppe	Making chains or chain links, the links being composed of two or more different parts, e.g. drive chains (B21L 1/04 , B21L 7/00 , B21L 11/14 , B21L 13/00 take precedence)
B21L 9/02	1-Punkt Untergruppe	. of roller-chain or other plate-link type
B21L 9/04	2-Punkt Untergruppe	. . Punching or bending the different parts of the chain links
B21L 9/06	2-Punkt Untergruppe	. . Sorting, feeding, assembling, riveting, or finishing parts of chains
B21L 9/08	2-Punkt Untergruppe	. . Combining the chain links with auxiliary parts, e.g. welding-on wear-resistant parts
B21L 11/00	Hauptgruppe	Making chains or chain links of special shape
B21L 11/02	1-Punkt Untergruppe	. each link being formed of a single member of which both ends are bent or shaped to engage the middle portion of the next link
B21L 11/04	2-Punkt Untergruppe	. . the ends being pierced or punched to form eyes
B21L 11/06	3-Punkt Untergruppe	. . . the workpiece being of thin strip metal
B21L 11/08	2-Punkt Untergruppe	. . the ends being interengaged with other parts of the same link
B21L 11/10	1-Punkt Untergruppe	. the chain links having opposed correspondingly shaped cylindrical and hook-like parts of which one part forms a hinge-like support for the adjacent link (B21L 11/02 takes precedence)
B21L 11/12	1-Punkt Untergruppe	. Forming bead chains
B21L 11/14	1-Punkt Untergruppe	. Making chain links with inserted or integrally- formed studs
B21L 13/00	Hauptgruppe	Making terminal or intermediate chain links of special shape; Making couplings for chains, e.g. swivels, shackles
B21L 15/00	Hauptgruppe	Finishing or dressing chains or chain links, e.g. removing burr material, calibrating (B21L 9/06

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B21L 15/02	1-Punkt Untergruppe	. Twisting already closed links
B21L 17/00	Hauptgruppe	Making chains or chain links not covered by one of the preceding main groups (by casting B22D 25/02)
B21L 19/00	Hauptgruppe	Appurtenances for chain-making not restricted to any particular process
B21L 21/00	Hauptgruppe	Tools or implements for repairing chains using metal-working operations, e.g. for detaching deformed chain links