

Symbol	Typ	Titel
B	Sektion	SECTION B — PERFORMING OPERATIONS; TRANSPORTING
B23	Klasse	MACHINE TOOLS; METAL-WORKING NOT OTHERWISE PROVIDED FOR (punching, perforating, making articles by processing sheet metal, tubes, or profiles B21D; wire-working B21F; making pins, needles, or nails B21G; making chains B21L; grinding B24)
B23B	Unterklasse	TURNING; BORING (arrangements for copying or controlling B23Q)
		<u>Turning</u>
B23B 1/00	Hauptgruppe	Methods for turning or working essentially requiring the use of turning-machines; Use of auxiliary equipment in connection with such methods
B23B 3/00	Hauptgruppe	General-purpose turning-machines or devices, e.g. centre lathes with feed rod and lead screw; Sets of turning-machines
B23B 3/02	1-Punkt Untergruppe	. Small lathes, e.g. for toolmakers (specially designed for watchmakers G04D 3/00)
B23B 3/04	1-Punkt Untergruppe	. Turning-machines in which the workpiece is rotated by means at a distance from the headstock
B23B 3/06	1-Punkt Untergruppe	. Turning-machines or devices characterised only by the special arrangement of constructional units (B23Q 37/00 takes precedence; structural features of details, <u>see</u> the relevant groups; such features of general applicability B23Q)
B23B 3/08	1-Punkt Untergruppe	. Turning-machines characterised by the use of faceplates
B23B 3/10	2-Punkt Untergruppe	. . with the faceplate horizontal, i.e. vertical boring and turning machines
B23B 3/12	2-Punkt Untergruppe	. . with the faceplate vertical, i.e. face lathes
B23B 3/14	2-Punkt Untergruppe	. . Mountings or drives of faceplates
B23B 3/16	1-Punkt Untergruppe	. Turret lathes for turning individually-chucked workpieces
B23B 3/18	2-Punkt Untergruppe	. . with horizontal working-spindle
B23B 3/20	2-Punkt Untergruppe	. . with vertical working-spindle
B23B 3/22	1-Punkt Untergruppe	. Turning-machines or devices with rotary tool heads
B23B 3/24	2-Punkt Untergruppe	. . the tools of which do not perform a radial movement; Rotary tool heads therefor
B23B 3/26	2-Punkt Untergruppe	. . the tools of which perform a radial movement; Rotary tool heads thereof
B23B 3/28	1-Punkt Untergruppe	. Turning-machines in which the feed is controlled by a copying device, i.e. copying lathes (features of copying devices B23Q 35/00)
B23B 3/30	1-Punkt Untergruppe	. Turning-machines with two or more working-spindles, e.g. in fixed arrangement
B23B 3/32	2-Punkt Untergruppe	. . for performing identical operations simultaneously on two or more workpieces
B23B 3/34	1-Punkt Untergruppe	. Short turning-machines with one or multiple working-spindles attended from the end (B23B 3/12 takes precedence)
B23B 3/36	1-Punkt Untergruppe	. Associations of only turning-machines directed to a particular metal-working result (if the metal-working result is not essential B23Q 39/00)
B23B 5/00	Hauptgruppe	Turning-machines or devices specially adapted for particular work; Accessories specially adapted therefor
B23B 5/02	1-Punkt Untergruppe	. for turning hubs or brake drums (B23B 5/04 takes precedence)
B23B 5/04	1-Punkt Untergruppe	. for reconditioning hubs or brake drums or axle spindles without removing same from the vehicle

Symbol	Typ	Titel
B23B 5/06	1-Punkt Untergruppe	. for turning valves or valve bodies
B23B 5/08	1-Punkt Untergruppe	. for turning axles, bars, rods, tubes, rolls, i.e. shaft-turning lathes, roll lathes; Centreless turning
B23B 5/10	2-Punkt Untergruppe	. . for turning pilgrim rolls
B23B 5/12	2-Punkt Untergruppe	. . for peeling bars or tubes by making use of cutting bits arranged around the workpiece (making use of cutting bits arranged around the workpiece otherwise than by turning B23D 79/12) [2]
B23B 5/14	1-Punkt Untergruppe	. Cutting-off lathes (shearing B23D)
B23B 5/16	1-Punkt Untergruppe	. for bevelling, chamfering, or deburring the ends of bars or tubes
B23B 5/18	1-Punkt Untergruppe	. for turning crankshafts, eccentrics, or cams, e.g. crankpin lathes
B23B 5/20	2-Punkt Untergruppe	. . without removing same from the engine
B23B 5/22	2-Punkt Untergruppe	. . Holding the workpiece in the machine, e.g. chucking devices
B23B 5/24	1-Punkt Untergruppe	. for turning pistons or other workpieces to a slightly non-circular cross-section
B23B 5/26	1-Punkt Untergruppe	. for simultaneously turning internal and external surfaces of a body
B23B 5/28	1-Punkt Untergruppe	. for turning wheels or wheel sets or cranks thereon, i.e. wheel lathes
B23B 5/30	2-Punkt Untergruppe	. . Arrangements providing for tool control by templates
B23B 5/32	2-Punkt Untergruppe	. . for reconditioning wheel sets without removing same from the vehicle; Underfloor wheel lathes for railway vehicles
B23B 5/34	2-Punkt Untergruppe	. . Holding the workpiece in the machine, e.g. chucking devices therefor; Drivers therefor
B23B 5/36	1-Punkt Untergruppe	. for turning specially-shaped surfaces by making use of relative movement of the tool and work produced by geometrical mechanisms, i.e. forming-lathes
B23B 5/38	2-Punkt Untergruppe	. . for turning conical surfaces inside or outside, e.g. taper pins
B23B 5/40	2-Punkt Untergruppe	. . for turning spherical surfaces inside or outside
B23B 5/42	2-Punkt Untergruppe	. . for turning relieving surfaces, i.e. relieving-lathes
B23B 5/44	2-Punkt Untergruppe	. . for turning polygonal or other non-circular surfaces controlled by gear or guide mechanisms, i.e. eccentric lathes
B23B 5/46	2-Punkt Untergruppe	. . for turning helical or spiral surfaces (thread cutting B23G)
B23B 5/48	3-Punkt Untergruppe	. . . for cutting grooves, e.g. oil grooves of helicoidal shape
B23B 7/00	Hauptgruppe	Automatic or semi-automatic turning-machines with a single working-spindle, e.g. controlled by cams; Equipment therefor; Features common to automatic and semi-automatic turning-machines with one or more working-spindles
B23B 7/02	1-Punkt Untergruppe	. Automatic or semi-automatic machines for turning of stock
B23B 7/04	2-Punkt Untergruppe	. . Turret machines
B23B 7/06	2-Punkt Untergruppe	. . with sliding headstock
B23B 7/08	2-Punkt Untergruppe	. . with the working-spindle vertical
B23B 7/10	2-Punkt Untergruppe	. . Accessories, e.g. guards
B23B 7/12	1-Punkt Untergruppe	. Automatic or semi-automatic machines for turning of workpieces

Symbol	Typ	Titel
B23B 7/14	2-Punkt Untergruppe	. . with the working-spindle horizontal
B23B 7/16	2-Punkt Untergruppe	. . with the working-spindle vertical
B23B 9/00	Hauptgruppe	Automatic or semi-automatic turning-machines with a plurality of working-spindles, e.g. automatic multiple-spindle machines with spindles arranged in a drum carrier able to be moved into pre-determined positions; Equipment therefor (equipment applicable to single-spindle machines B23B 7/00)
B23B 9/02	1-Punkt Untergruppe	. Automatic or semi-automatic machines for turning of stock
B23B 9/04	2-Punkt Untergruppe	. . with the working-spindles horizontal
B23B 9/06	2-Punkt Untergruppe	. . with the working-spindles vertical
B23B 9/08	1-Punkt Untergruppe	. Automatic or semi-automatic machines for turning of workpieces
B23B 9/10	2-Punkt Untergruppe	. . with the working-spindles horizontal
B23B 9/12	2-Punkt Untergruppe	. . with the working-spindles vertical
B23B 11/00	Hauptgruppe	Automatic or semi-automatic turning-machines incorporating equipment for performing other working procedures, e.g. slotting, milling, rolling
B23B 13/00	Hauptgruppe	Arrangements for automatically conveying or chucking or guiding stock
B23B 13/02	1-Punkt Untergruppe	. for turning-machines with a single working-spindle
B23B 13/04	1-Punkt Untergruppe	. for turning-machines with a plurality of working-spindles
B23B 13/06	1-Punkt Untergruppe	. Arrangements for switching-off the drive of turning-machines after the stock has been completely machined
B23B 13/08	1-Punkt Untergruppe	. Arrangements for reducing vibrations in feeding-passages or for damping noise (damping noise in general G10K)
B23B 13/10	1-Punkt Untergruppe	. with magazines for stock
B23B 13/12	1-Punkt Untergruppe	. Accessories, e.g. stops, grippers
B23B 15/00	Hauptgruppe	Arrangements for conveying, loading, adjusting, reversing, chucking, or discharging workpieces specially designed for automatic or semi-automatic turning-machines <u>Components or accessories particularly for turning machines</u>
B23B 17/00	Hauptgruppe	Lathe beds (foundation frames, carriage guides as such B23Q 1/00)
B23B 19/00	Hauptgruppe	Headstocks; Equivalent parts of any machine tools
B23B 19/02	1-Punkt Untergruppe	. Working-spindles; Features relating thereto, e.g. supporting arrangements (B23B 13/00 takes precedence)
B23B 21/00	Hauptgruppe	Lathe carriages; Cross-slides; Tool posts (tool holders B23B 29/00); Similar parts of any machine tools
B23B 23/00	Hauptgruppe	Tailstocks; Centres
B23B 23/02	1-Punkt Untergruppe	. Dead centres
B23B 23/04	1-Punkt Untergruppe	. Live centres
B23B 25/00	Hauptgruppe	Accessories or auxiliary equipment for turning-machines (for machine tools in general B23Q; cooling or lubricating B23Q 11/12)
B23B 25/02	1-Punkt Untergruppe	. Arrangements for chip-breaking in turning-machines (on cutting tools B23B 27/22)
B23B 25/04	1-Punkt Untergruppe	. Safety guards specially designed for turning-machines (in general F16P)
B23B 25/06	1-Punkt Untergruppe	. Measuring, gauging, or adjusting equipment on turning-machines for setting-on, feeding, controlling, or monitoring the cutting tools or work (measuring devices or gauges G01B)
B23B 27/00	Hauptgruppe	Tools for turning or boring machines (for drilling machines B23B 51/00); Tools of a similar kind in general; Accessories therefor

Symbol	Typ	Titel
B23B 27/02	1-Punkt Untergruppe	. Cutting tools with straight main part and cutting edge at an angle (B23B 27/04-B23B 27/08 take precedence)
B23B 27/04	1-Punkt Untergruppe	. Cutting-off tools (B23B 27/08 takes precedence)
B23B 27/06	1-Punkt Untergruppe	. Profile cutting tools, i.e. forming-tools
B23B 27/08	1-Punkt Untergruppe	. Cutting tools with blade- or disc-like main parts
B23B 27/10	1-Punkt Untergruppe	. Cutting tools with special provision for cooling
B23B 27/12	2-Punkt Untergruppe	. . with a continuously-rotated circular cutting edge; Holders therefor
B23B 27/14	1-Punkt Untergruppe	. Cutting tools of which the bits or tips are of special material
B23B 27/16	2-Punkt Untergruppe	. . with exchangeable cutting bits, e.g. able to be clamped
B23B 27/18	2-Punkt Untergruppe	. . with cutting bits or tips rigidly mounted, e.g. by brazing
B23B 27/20	2-Punkt Untergruppe	. . with diamond bits
B23B 27/22	1-Punkt Untergruppe	. Cutting tools with chip-breaking equipment
B23B 27/24	1-Punkt Untergruppe	. Knurling tools
B23B 29/00	Hauptgruppe	Holders for non-rotary cutting tools (B23B 27/12 takes precedence); Boring bars or boring heads; Accessories for tool holders
B23B 29/02	1-Punkt Untergruppe	. Boring bars
B23B 29/03	1-Punkt Untergruppe	. Boring heads
B23B 29/034	2-Punkt Untergruppe	. . with tools moving radially, e.g. for making chamfers or undercuttings [4]
B23B 29/04	1-Punkt Untergruppe	. Tool holders for a single cutting tool
B23B 29/06	2-Punkt Untergruppe	. . Tool holders equipped with longitudinally- arranged grooves for setting the cutting tool
B23B 29/08	2-Punkt Untergruppe	. . Tool holders equipped with grooves arranged crosswise to the longitudinal direction for setting the cutting tool
B23B 29/10	3-Punkt Untergruppe	. . . with adjustable counterbase for the cutting tool
B23B 29/12	2-Punkt Untergruppe	. . Special arrangements on tool holders
B23B 29/14	3-Punkt Untergruppe	. . . affording a yielding support of the cutting tool, e.g. by spring clamping
B23B 29/16	3-Punkt Untergruppe	. . . for supporting the workpiece in a backrest
B23B 29/18	3-Punkt Untergruppe	. . . for retracting the cutting tool
B23B 29/20	3-Punkt Untergruppe	. . . for placing same by shanks in sleeves of a turret
B23B 29/22	3-Punkt Untergruppe	. . . for tool adjustment by means of shims or spacers
B23B 29/24	1-Punkt Untergruppe	. Tool holders for a plurality of cutting tools, e.g. turrets
B23B 29/26	2-Punkt Untergruppe	. . Tool holders in fixed position
B23B 29/28	2-Punkt Untergruppe	. . Turrets manually adjustable about a vertical pivot
B23B 29/30	2-Punkt Untergruppe	. . Turrets manually adjustable about a horizontal pivot
B23B 29/32	2-Punkt Untergruppe	. . Turrets adjustable by power drive, i.e. turret heads

Symbol	Typ	Titel
B23B 29/34	2-Punkt Untergruppe	. . Turrets equipped with triggers for releasing the cutting tools
B23B 31/00	Hauptgruppe	Chucks; Expansion mandrels; Adaptations thereof for remote control (devices for securing work or tools to spindles in general B23Q 3/12; rotary devices holding by magnetic or electrical force acting directly on work B23Q 3/152)
B23B 31/02	1-Punkt Untergruppe	. Chucks
B23B 31/06	2-Punkt Untergruppe	. . Features relating to the removal of tools or work; Accessories therefor
B23B 31/07	3-Punkt Untergruppe	. . . Ejector wedges [5]
B23B 31/08	2-Punkt Untergruppe	. . holding tools or work yieldably
B23B 31/10	2-Punkt Untergruppe	. . characterised by the retaining or gripping devices or their immediate operating means
B23B 31/103	3-Punkt Untergruppe	. . . Retention by pivotal elements, e.g. catches, pawls [5]
B23B 31/107	3-Punkt Untergruppe	. . . Retention by laterally-acting detents, e.g. pins, screws, wedges; Retention by loose elements, e.g. balls [5]
B23B 31/11	3-Punkt Untergruppe	. . . Retention by threaded connection [5]
B23B 31/113	3-Punkt Untergruppe	. . . Retention by bayonet connection [5]
B23B 31/117	3-Punkt Untergruppe	. . . Retention by friction only, e.g. using springs, resilient sleeves, tapers [5]
B23B 31/12	3-Punkt Untergruppe	. . . Chucks with simultaneously-acting jaws, whether or not also individually adjustable
B23B 31/14	4-Punkt Untergruppe	 Involving the use of centrifugal force
B23B 31/16	4-Punkt Untergruppe	 moving radially
B23B 31/163	5-Punkt Untergruppe	 actuated by one or more spiral grooves [5]
B23B 31/165	5-Punkt Untergruppe	 actuated by screw-and-nut mechanisms [5]
B23B 31/167	5-Punkt Untergruppe	 actuated by oblique racks [5]
B23B 31/169	5-Punkt Untergruppe	 actuated by toothed gearing (B23B 31/167 takes precedence) [5]
B23B 31/171	5-Punkt Untergruppe	 actuated by a cam surface in a radial plane [5]
B23B 31/173	5-Punkt Untergruppe	 actuated by coaxial conical surfaces (B23B 31/177 takes precedence) [5]
B23B 31/175	5-Punkt Untergruppe	 actuated by levers moved by a coaxial control rod [5]
B23B 31/177	5-Punkt Untergruppe	 actuated by the oblique surfaces of a coaxial control rod (B23B 31/167 takes precedence) [5]
B23B 31/18	4-Punkt Untergruppe	 pivotally movable in planes containing the axis of the chuck
B23B 31/19	4-Punkt Untergruppe	 moving parallel to the axis of the chuck
B23B 31/20	4-Punkt Untergruppe	 Longitudinally-split sleeves, e.g. collet chucks
B23B 31/22	4-Punkt Untergruppe	 Jaws in the form of balls
B23B 31/24	2-Punkt Untergruppe	. . characterised by features relating primarily to remote control of the gripping means
B23B 31/26	3-Punkt Untergruppe	. . . using mechanical transmission through the working-spindle
B23B 31/28	3-Punkt Untergruppe	. . . using electric or magnetic means in the chuck
B23B 31/30	3-Punkt Untergruppe	. . . using fluid-pressure means in the chuck

Symbol	Typ	Titel
B23B 31/32	2-Punkt Untergruppe	. . with jaws carried by diaphragm
B23B 31/34	2-Punkt Untergruppe	. . with means enabling the workpiece to be reversed or tilted
B23B 31/36	2-Punkt Untergruppe	. . with means for adjusting the chuck with respect to the working-spindle
B23B 31/38	2-Punkt Untergruppe	. . with overload clutches
B23B 31/39	2-Punkt Untergruppe	. . Jaw changers [5]
B23B 31/40	1-Punkt Untergruppe	. Expansion mandrels
B23B 31/42	2-Punkt Untergruppe	. . characterised by features relating primarily to remote control of the gripping means
B23B 33/00	Hauptgruppe	Drivers; Driving centres; Nose clutches, e.g. lathe dogs <u>Boring; Drilling (for surgical purposes A61B 17/16; in metal using electric current B23H 9/14; by laser beam B23K 26/00; earth or rock drilling E21B) [3]</u>
B23B 35/00	Hauptgruppe	Methods for boring or drilling, or for working essentially requiring the use of boring or drilling machines; Use of auxiliary equipment in connection with such methods
B23B 37/00	Hauptgruppe	Boring by making use of vibrations of ultrasonic frequency (working materials by subjecting the grinding tools or the abrading medium to vibration, e.g. grinding with ultrasonic frequency, B24B 1/04)
B23B 39/00	Hauptgruppe	General-purpose boring or drilling machines or devices; Sets of boring or drilling machines
B23B 39/02	1-Punkt Untergruppe	. Boring machines; Combined horizontal boring and milling machines
B23B 39/04	1-Punkt Untergruppe	. Co-ordinate boring or drilling machines; Machines for making holes without previous marking
B23B 39/06	2-Punkt Untergruppe	. . Equipment for positioning work
B23B 39/08	2-Punkt Untergruppe	. . Devices for programme control
B23B 39/10	1-Punkt Untergruppe	. characterised by the drive, e.g. by fluid-pressure drive, pneumatic power drive
B23B 39/12	1-Punkt Untergruppe	. Radial drilling machines
B23B 39/14	1-Punkt Untergruppe	. with special provision to enable the machine or the drilling or boring head to be moved into any desired position, e.g. with respect to immovable work
B23B 39/16	1-Punkt Untergruppe	. Drilling machines with a plurality of working-spindles; Drilling automatons
B23B 39/18	2-Punkt Untergruppe	. . Setting work or tool carrier along a straight index line
B23B 39/20	2-Punkt Untergruppe	. . Setting work or tool carrier along a circular index line; Turret head drilling machines
B23B 39/22	2-Punkt Untergruppe	. . with working-spindles in opposite headstocks
B23B 39/24	2-Punkt Untergruppe	. . designed for programme control
B23B 39/26	1-Punkt Untergruppe	. in which the working position of tool or work is controlled by copying discrete points of a pattern (features of copying devices B23Q 35/02)
B23B 39/28	1-Punkt Untergruppe	. Associations of only boring or drilling machines directed to a particular metal-working result (if not producing a particular metal-working result B23Q 39/00)
B23B 41/00	Hauptgruppe	Boring or drilling machines or devices specially adapted for particular work; Accessories specially adapted therefor
B23B 41/02	1-Punkt Untergruppe	. for boring deep holes; Trepanning, e.g. of gun or rifle barrels
B23B 41/04	1-Punkt Untergruppe	. for boring polygonal or other non-circular holes
B23B 41/06	1-Punkt Untergruppe	. for boring conical holes

Symbol	Typ	Titel
B23B 41/08	1-Punkt Untergruppe	. for boring, drilling, or tapping holes in tubes under fluid or gas pressure (sealing features or operations, combined with placing branch parts F16L 41/04)
B23B 41/10	1-Punkt Untergruppe	. for boring holes in steam boilers
B23B 41/12	1-Punkt Untergruppe	. for forming working surfaces of cylinders, of bearings, e.g. in heads of driving rods, or of other engine parts
B23B 41/14	1-Punkt Untergruppe	. for very small holes
B23B 41/16	1-Punkt Untergruppe	. for boring holes with high-quality surface
B23B 43/00	Hauptgruppe	Boring or drilling devices able to be attached to a machine tool, whether or not replacing an operative portion of the machine tool (if specially adapted for particular work B23B 41/00)
B23B 43/02	1-Punkt Untergruppe	. to the tailstock of a lathe
B23B 45/00	Hauptgruppe	Hand-held or like portable drilling machines, e.g. drill guns; Equipment therefor (details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed B25F 5/00) [4]
B23B 45/02	1-Punkt Untergruppe	. driven by electric power
B23B 45/04	1-Punkt Untergruppe	. driven by fluid-pressure or pneumatic power
B23B 45/06	1-Punkt Untergruppe	. driven by man-power
B23B 45/08	2-Punkt Untergruppe	. . for drilling rails or profiled stock
B23B 45/10	2-Punkt Untergruppe	. . by using a fiddle bow or a belt
B23B 45/12	2-Punkt Untergruppe	. . by using a ratchet brace
B23B 45/14	1-Punkt Untergruppe	. Means for holding or guiding the drilling device or for securing it to the work (B23B 41/08 takes precedence); Thrust stands
B23B 45/16	1-Punkt Untergruppe	. with superimposed percussive action (portable percussive machines with superimposed rotation B25D 16/00) [3]
B23B 47/00	Hauptgruppe	<u>Components or accessories for boring or drilling machines</u> Constructional features of components specially designed for boring or drilling machines; Accessories therefor (working-spindles, bearing sleeves therefor B23B 19/02; for machine tools in general B23Q)
B23B 47/02	1-Punkt Untergruppe	. Drives; Gearings (B23B 39/10 takes precedence)
B23B 47/04	2-Punkt Untergruppe	. . for rotating the working-spindle
B23B 47/06	3-Punkt Untergruppe	. . . driven essentially by electrical means
B23B 47/08	3-Punkt Untergruppe	. . . driven essentially by fluid-pressure or pneumatic power
B23B 47/10	4-Punkt Untergruppe	 equipped with turbines or other rotating machines
B23B 47/12	4-Punkt Untergruppe	 equipped with oscillating pistons
B23B 47/14	3-Punkt Untergruppe	. . . Change-speed gearings; Reversing gearings
B23B 47/16	3-Punkt Untergruppe	. . . Belt or chain drives
B23B 47/18	2-Punkt Untergruppe	. . for feeding or retracting tool or work
B23B 47/20	3-Punkt Untergruppe	. . . actuated essentially by electric power
B23B 47/22	3-Punkt Untergruppe	. . . actuated essentially by fluid-pressure or pneumatic power

Symbol	Typ	Titel
B23B 47/24	3-Punkt Untergruppe	. . . Stops or feed interruption owing to fracture or overload of the boring or drilling tool
B23B 47/26	1-Punkt Untergruppe	. Liftable or lowerable drill heads or headstocks; Balancing arrangements therefor
B23B 47/28	1-Punkt Untergruppe	. Drill jigs for workpieces (equipment for setting or guiding the drill B23B 49/00)
B23B 47/30	1-Punkt Untergruppe	. Additional gear with one or more working-spindles attachable to the main working-spindle and mounting the additional gear
B23B 47/32	1-Punkt Untergruppe	. Arrangements for preventing the running-out of drills or fracture of drills when getting through
B23B 47/34	1-Punkt Untergruppe	. Arrangements for removing chips out of the holes made; Chip-breaking arrangements attached to the tool
B23B 49/00	Hauptgruppe	Measuring or gauging equipment on boring machines for positioning or guiding the drill; Devices for indicating failure of drills during boring; Centring devices for holes to be bored (marking-out equipment B25H 7/00; measuring devices, gauges G01B)
B23B 49/02	1-Punkt Untergruppe	. Boring templates or bushings
B23B 49/04	1-Punkt Untergruppe	. Devices for boring or drilling centre holes in workpieces
B23B 49/06	1-Punkt Untergruppe	. Devices for drilling holes in brake bands or brake linings
B23B 51/00	Hauptgruppe	Tools for drilling machines
B23B 51/02	1-Punkt Untergruppe	. Twist drills
B23B 51/04	1-Punkt Untergruppe	. for trepanning
B23B 51/05	2-Punkt Untergruppe	. . for cutting discs from sheet [4]
B23B 51/06	1-Punkt Untergruppe	. Drills with lubricating or cooling equipment
B23B 51/08	1-Punkt Untergruppe	. Drills combined with tool parts or tools for performing additional working
B23B 51/10	1-Punkt Untergruppe	. Bits for countersinking
B23B 51/12	1-Punkt Untergruppe	. Adapters for drills or chucks; Tapered sleeves
B23B 51/14	2-Punkt Untergruppe	. . Adapters for broken drills