

## SECTION B — PERFORMING OPERATIONS; TRANSPORTING

### B23 MACHINE TOOLS; METAL-WORKING NOT OTHERWISE PROVIDED FOR

**B23C MILLING** (broaching B23D; broach-milling in making gears B23F; arrangements for copying or controlling B23Q)

#### Subclass index

MILLING MACHINES IN GENERAL.....	1/00
MILLING PARTICULAR WORK.....	3/00
COMPONENT PARTS, ACCESSORIES.....	5/00, 9/00
DEVICES FOR ATTACHMENT TO ANY MACHINE.....	7/00

<b>1/00</b>	<b>Milling machines not designed for particular work or special operations</b>	3/24	• Making square or polygonal ends on workpieces, e.g. key studs on tools
1/02	• with one horizontal working-spindle	3/26	• Making square or polygonal holes in workpieces, e.g. key holes in tools
1/025	• • with working-spindle in a fixed position [2]	3/28	• Grooving workpieces
1/027	• • with working-spindle movable in a vertical direction [2]	3/30	• • Milling straight grooves, e.g. keyways
1/04	• with a plurality of horizontal working-spindles	3/32	• • Milling helical grooves, e.g. in making twist-drills
1/06	• with one vertical working-spindle	3/34	• • Milling grooves of other forms, e.g. circumferential
1/08	• with a plurality of vertical working-spindles	3/35	• • Milling grooves in keys
1/10	• with both horizontal and vertical working-spindles	3/36	• Milling milling-cutters (B23C 3/28 takes precedence)
1/12	• with spindle adjustable to different angles, e.g. either horizontally or vertically	<b>5/00</b>	<b>Milling-cutters</b> (for cutting gear teeth B23F 21/12)
1/14	• with rotary work-carrying table (work-tables for machine tools in general B23Q 1/00)	5/02	• characterised by the shape of the cutter
1/16	• specially designed for control by copying devices	5/04	• • Plain cutters, i.e. having essentially a cylindrical or tapered cutting surface of substantial length (B23C 5/10 takes precedence)
1/18	• • for milling while revolving the work	5/06	• • Face-milling cutters, i.e. having only or primarily a substantially flat cutting surface
1/20	• Portable devices or machines (details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed B25F 5/00); Hand-driven devices or machines [4]	5/08	• • Disc-type cutters
<b>3/00</b>	<b>Milling particular work; Special milling operations; Machines therefor</b> (milling gear teeth B23F; milling of threads B23G 1/32) [2]	5/10	• • Shank-type cutters, i.e. with an integral shaft
3/02	• Milling surfaces of revolution (B23C 3/06, B23C 3/08 take precedence)	5/12	• • Cutters specially designed for producing particular profiles (B23C 5/10 takes precedence)
3/04	• • while revolving the work	5/14	• • • essentially comprising curves
3/05	• • Finishing valves or valve seats [2]	5/16	• characterised by physical features other than shape
3/06	• Milling crankshafts	5/18	• • with permanently-fixed cutter-bits or teeth
3/08	• Milling cams, camshafts, or the like	5/20	• • with removable cutter-bits or teeth
3/10	• Relieving by milling (lathes or turning devices for relieving B23B 5/42)	5/22	• • • Securing arrangements for bits or teeth
3/12	• Trimming or finishing edges, e.g. deburring welded corners	5/24	• • • • adjustable
3/13	• Surface milling of plates, sheets or strips [2]	5/26	• Securing milling-cutters to the driving spindle
3/14	• Scrubbing or peeling ingots or similar workpieces	5/28	• Features relating to lubricating or cooling
3/16	• Working surfaces curved in two directions	<b>7/00</b>	<b>Milling devices able to be attached to a machine tool, whether or not replacing an operative portion of the machine tool</b>
3/18	• • for shaping screw-propellers, turbine blades, or impellers	7/02	• to lathes
3/20	• • for shaping dies	7/04	• to planing or slotting machines
3/22	• Forming overlapped joints, e.g. of the ends of piston-rings	<b>9/00</b>	<b>Details or accessories so far as specially adapted to milling machines or cutters</b> (drives, control devices, or accessories, in general B23Q)