

B23 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)

B23H WORKING OF METAL BY THE ACTION OF A HIGH CONCENTRATION OF ELECTRIC CURRENT ON A WORKPIECE USING AN ELECTRODE WHICH TAKES THE PLACE OF A TOOL; SUCH WORKING COMBINED WITH OTHER FORMS OF WORKING OF METAL (processes for the electrolytic or electrophoretic production of coatings, electroforming, or apparatus therefor C25D; processes for the electrolytic removal of material from objects C25F; manufacturing printed circuits using precipitation techniques to apply the conductive material to form the desired conductive pattern H05K 3/18) [4]

This subclass covers the working of metal described as “electroerosion”. [4]

ELECTRICAL DISCHARGE MACHINING.....	1/00	MACHINING PARTICULAR OBJECTS OR	
ELECTROCHEMICAL MACHINING	3/00	OBTAINING SPECIAL EFFECTS OR	
COMBINED MACHINING	5/00	RESULTS.....	9/00
COMMON PROCESSES OR APPARATUS	7/00	AUXILIARY APPARATUS OR DETAILS.....	11/00

1/00 Electrical discharge machining, i.e. removing metal with a series of rapidly recurring electrical discharges between an electrode and a workpiece in the presence of a fluid dielectric [4]	7/04 . . Apparatus for supplying current to working gap; Electric circuits specially adapted therefor [4]
1/02 . Electric circuits specially adapted therefor, e.g. power supply, control, preventing short circuits or other abnormal discharges [4]	7/06 . . Control of the travel curve of the relative movement between electrode and workpiece [4]
1/04 . Electrodes specially adapted therefor or their manufacture (B23H 9/00 takes precedence) [4]	7/08 . . Wire electrodes [4]
1/06 . . Electrode material [4]	7/10 . . . Supporting, winding or electrical connection of wire-electrode [4]
1/08 . Working media [4]	7/12 . Rotating-disc electrodes [4]
1/10 . Supply or regeneration of working media [4]	7/14 . Electric circuits specially adapted therefor, e.g. power supply [4]
3/00 Electrochemical machining, i.e. removing metal by passing current between an electrode and a workpiece in the presence of an electrolyte [4]	7/16 . . for preventing short circuits or other abnormal discharges [4]
3/02 . Electric circuits specially adapted therefor, e.g. power supply, control, preventing short circuits [4]	7/18 . . for maintaining or controlling the desired spacing between electrode and workpiece [4]
3/04 . Electrodes specially adapted therefor or their manufacture (B23H 9/00 takes precedence) [4]	7/20 . . for programme-control, e.g. adaptive [4]
3/06 . . Electrode material [4]	7/22 . Electrodes specially adapted therefor or their manufacture (B23H 7/08, B23H 7/12, B23H 9/00 take precedence) [4]
3/08 . Working media [4]	7/24 . . Electrode material [4]
3/10 . Supply or regeneration of working media [4]	7/26 . Apparatus for moving or positioning electrode relatively to workpiece; Mounting of electrode [4]
5/00 Combined machining [4]	7/28 . . Moving electrode in a plane normal to the feed direction, e.g. orbiting [4]
5/02 . Electrical discharge machining combined with electrochemical machining [4]	7/30 . . Moving electrode in the feed direction (B23H 7/32 takes precedence) [4]
5/04 . Electrical discharge machining combined with mechanical working [4]	7/32 . . Maintaining desired spacing between electrode and workpiece [4]
5/06 . Electrochemical machining combined with mechanical working, e.g. grinding or honing [4]	7/34 . Working media [4]
5/08 . . Electrolytic grinding [4]	7/36 . Supply or regeneration of working media [4]
5/10 . Electrodes specially adapted therefor or their manufacture (B23H 1/04, B23H 3/04 take precedence) [4]	7/38 . Influencing metal working by using specially adapted means not directly involved in the removal of metal, e.g. ultrasonic waves, magnetic fields or laser irradiation [4]
5/12 . Working media [4]	9/00 Machining specially adapted for treating particular metal objects or for obtaining special effects or results on metal objects (heat treatment by cathodic discharge C21D 1/38) [4]
5/14 . Supply or regeneration of working media [4]	9/02 . Trimming or deburring [4]
7/00 Processes or apparatus applicable to both electrical discharge machining and electrochemical machining [4]	9/04 . Treating surfaces of rolls [4]
7/02 . Wire-cutting [4]	9/06 . Marking or engraving [4]
	9/08 . Sharpening [4]

B23H

- 9/10

. Working turbine blades or nozzles **[4]**
- 9/12

. Forming parts of complementary shape, e.g. punch-and-die **[4]**
- 9/14

. Making holes **[4]**
- 9/16

. . . using an electrolytic jet **[4]**
- 9/18

. Producing external conical surfaces or spikes (B23H 9/08 takes precedence) **[4]**
- 11/00

Auxiliary apparatus or details, not otherwise provided for [4]