

ECLA EUROPEAN CLASSIFICATION

B24C ABRASIVE OR RELATED BLASTING WITH PARTICULATE MATERIAL

Note [C2012.04]

This subclass covers: - the use of a blast of any particles or pellets dispersed in air, gas, or liquid for the treatment of surfaces or cutting of materials, the particles usually being of abrasive material; - the equivalent use of a jet of particles or pellets projected or energised by means other than a stream of air [N: - the equivalent use of material without particles or pellets for deburring, removal of extended surface areas or jet milling of local recessions, e.g. grooves] In this subclass, the following terms are used with the meanings indicated: - "abrasive" covers any material used in the manner mentioned in Note (1) above; - "blast" covers any equivalent jet of material mentioned in Note (1) above

B24C1/00 Methods for use of abrasive blasting for producing particular effects; Use of auxiliary equipment in connection with such methods

- B24C1/00B . [N: using material which dissolves or changes phase after the treatment e.g. ice, CO₂] [C1106]
- B24C1/00D . [N: using material without particles or pellets for deburring, removal of extended surface areas or jet milling of local recessions, e.g. grooves] [N1203]
- B24C1/02 . for sharpening or cleaning cutting tools, e.g. files
- B24C1/04 . for treating only selected parts of a surface, e.g. for carving stone or glass
- B24C1/04B . . [N: for cutting (energy dissipating devices therefor [B26F3/00C2](#))] [C1105]
- B24C1/06 . for producing matt surfaces, e.g. on plastic materials, on glass
- B24C1/08 . for polishing surfaces, e.g. [N: smoothing a surface] by making use of liquid-borne abrasives [C1105]
- B24C1/08B . . [N: Deburring] [N1105]
- B24C1/08D . . [N: Descaling; Removing coating films] [N1105]
- B24C1/10 . for compacting surfaces, e.g. shot-peening (for deforming sheet metal, tubes or profiles [B21D31/06](#); as a metallurgical treatment [C21D7/00](#), [C22F1/00](#)) [C1105]

B24C3/00 Abrasive blasting machines or devices; Plants

- B24C3/02 . characterised by the arrangement of the component assemblies with respect to each other ([B24C3/08](#), [B24C3/18](#) take precedence)
- B24C3/04 . . stationary
- B24C3/06 . . movable; portable
- B24C3/06B . . . [N: for vertical surfaces]
- B24C3/06C . . . [N: with suction means for the abrasive and the waste material]
- B24C3/06C1 [N: Self-contained units for floorings]
- B24C3/08 . essentially adapted for abrasive blasting of travelling stock or travelling workpieces

- B24C3/08B . . [N: for travelling bundles of wires] [C1105]
- B24C3/08C . . [N: Transfer or feeding devices; Accessories therefor]
- B24C3/08D . . [N: the travelling workpieces being moved into different working positions during travelling] [C1105]
- B24C3/08D2 . . . [N: whereby the workpieces are turned through a rotational arc of about 180 degrees] [N1105]
- B24C3/08E . . [N: using a vibratory transfer mechanism]
- B24C3/10 . . for treating external surfaces
- B24C3/12 . . . Apparatus using nozzles
- B24C3/14 . . . Apparatus using impellers
- B24C3/16 . . for treating internal surfaces

- B24C3/18 . essentially provided with means for moving workpieces into different working positions ([B24C3/08](#) takes precedence)
- B24C3/20 . . the work being supported by turn-tables
- B24C3/22 . . . Apparatus using nozzles
- B24C3/24 . . . Apparatus using impellers
- B24C3/26 . . the work being supported by barrel cages, i.e. tumblers; Gimbal mountings therefor
- B24C3/26B . . . [N: using refrigerating means] [C9801]
- B24C3/26C . . . [N: for continuously travelling workpieces]
- B24C3/28 . . . Apparatus using nozzles
- B24C3/30 . . . Apparatus using impellers

- B24C3/32 . designed for abrasive blasting of particular work, e.g. the internal surfaces of cylinder blocks ([B24C3/08](#), [B24C3/18](#) take precedence) [M1105]
- B24C3/32B . . [N: for electrical components]
- B24C3/32C . . [N: for internal surfaces, e.g. of tubes]
- B24C3/32C1 . . . [N: by an axially-moving flow of abrasive particles without passing a blast gun, impeller or the like along the internal surface (polishing or abrading surfaces using plastically deformable grinding compound, moved relatively to the workpiece under the influence of pressure [B24B31/116](#))] [C1105]
- B24C3/34 . . for cleaning sparking plugs

Guide heading: **Accessories or equipment for abrasive blasting machines or devices**

B24C5/00 **Devices or accessories for generating abrasive blasts**

- B24C5/00H . [N: Vibratory devices, e.g. for generating abrasive blasts by ultrasonic vibrations (sonic cleaning in general [B08B3/12](#))] [N1105]
- B24C5/02 . Blast guns, e.g. for generating high velocity abrasive fluid jets for cutting materials [N: (perforating by fluid jet [B26F1/26](#))] [M1105]
- B24C5/04 . . Nozzles therefor (nozzles in general [B05B](#))
- B24C5/06 . Impeller wheels; Rotor blades therefor
- B24C5/06B . . [N: Rotor blades or vanes; Locking means therefor] [M1105]

- B24C5/06C . . [N: One-piece wheels; Integral impeller units, e.g. made by casting] [C1105]
- B24C5/06D . . [N: Housings; Accessories therefor, e.g. liners]
- B24C5/06F . . [N: Transferring the abrasive particles from the feeding means onto the propeller blades, e.g. using central impellers]
- B24C5/08 . Devices for generating abrasive blasts non-mechanically, e.g. of metallic abrasives by means of a magnetic field [N: or by detonating cords] [C1105]

B24C7/00 Equipment for feeding abrasive material; Controlling the flowability, constitution, or other physical characteristics of abrasive blasts

- B24C7/00B . [N: the abrasive material being fed in a liquid carrier]
- B24C7/00B1 . . [N: with control of feed parameters, e.g. feed rate of abrasive material or carrier] [C1105]
- B24C7/00B1E . . . [N: of feed pressure] [C1105]
- B24C7/00B2 . . [N: with means for preventing clogging of the equipment]
- B24C7/00B3 . . [N: the blasting medium being a gaseous stream]
- B24C7/00C . [N: the abrasive material being fed in a gaseous carrier]
- B24C7/00C1 . . [N: with control of feed parameters, e.g. feed rate of abrasive material or carrier] [C1105]
- B24C7/00C1E . . . [N: of feed pressure] [C1105]
- B24C7/00C2 . . [N: with means for preventing clogging of the equipment or for preventing abrasive entering the airway] [M1104]
- B24C7/00C3 . . [N: the blasting medium being a liquid stream]
- B24C7/00E . [N: the abrasive material being fed in a mixture of liquid and gas ([B24C7/00B3](#), [B24C7/00C3](#) take precedence; blasting medium with additives [B24C11/00H](#))] [N1105]
- B24C7/00H . [N: the abrasive material being fed by mechanical means, e.g. by screw conveyors] [N1105]

B24C9/00 Appurtenances of abrasive blasting machines or devices, e.g. working chambers, arrangements for handling used abrasive material

- B24C9/00B . [N: Removing abrasive powder out of the blasting machine]
- B24C9/00C . [N: Treatment of used abrasive material]

B24C11/00 Selection of abrasive materials [N: or additives] for abrasive blasts (polishing compositions C09G) [C1105]

- B24C11/00H . [N: of additives, e.g. anti-corrosive or disinfecting agents in solid, liquid or gaseous form] [N1105]