

ECLA EUROPEAN CLASSIFICATION

B28C PREPARING CLAY; PRODUCING MIXTURES CONTAINING CLAY OR CEMENTITIOUS MATERIAL, e.g. PLASTER (preparing material for foundry moulds [B22C5/00](#))

Note

In this subclass, the following terms or expressions are used with the meanings indicated:

- o "cement" or "mixtures of cement with other substance" includes plaster;
- o "clay" includes like ceramic compositions.

B28C1/00 Apparatus or methods for obtaining or processing clay (filtration in general [B01D](#); separation of solids from liquids [B03](#), [B07](#); chemical part [C04B](#); by mining or quarrying [E21C41/16](#), [E21C41/26](#), [E21C47/10](#))

- B28C1/00B . [N: Plant; Methods]
- B28C1/00B2 . . [N: Methods]
- B28C1/02 . for producing or processing clay suspensions, [N: e.g. slip] (producing or processing suspensions in general [B01](#))
- B28C1/04 . . Producing suspensions, e.g. by blunging [N: or mixing; with means for removing stones]
- B28C1/06 . . Processing suspensions [N: i.e. after mixing]
- B28C1/08 . . . Separating suspensions, e.g. for obtaining clay, for removing stones; [N: Cleaning clay slurries]
- B28C1/08B [N: Dewatering ([B28C1/08G](#) takes precedence); Using sieves]
- B28C1/08C [N: De-aerating]
- B28C1/08F [N: Washing]
- B28C1/08G [N: by centrifugal force]
- B28C1/10 . for processing clay-containing substances in non-fluid condition (clay slurries [B28C1/02](#)); [N: Plants]
- B28C1/12 . . Storing and conditioning in storage; Specially adapted storage spaces or devices for their filling or emptying; [N: Tower structures for the storage of clay] (feeding clay to shaping apparatus [B28B13/00](#))
- B28C1/14 . . specially adapted for homogenising, comminuting or conditioning clay in non-fluid condition or for separating undesired admixtures therefrom (processes involving conversion to a slurry [B28C1/02](#); conditioning in storage [B28C1/12](#); comminuting in general [B02C](#); chemical features in eliminating iron or lime [C04B](#))
- B28C1/16 . . . for homogenising, e.g. by mixing, kneading; [N: forcing through slots]
- B28C1/18 . . . for comminuting [N: clay lumps]
- B28C1/18B [N: by forcing the clay through screens or slots, e.g. using screw or rolls]
- B28C1/18B2 [N: on cylindrical or conical surfaces, e.g. on rotating drums]
- B28C1/18C [N: using co-operating rotating elements, e.g. cutters]
- B28C1/20 . . . for separating undesired admixed bodies, [N: e.g. stones]

- B28C1/20B [N: by forcing the clay through screens or slots, e.g. having exchangeable screens or slots]
- B28C1/20B2 [N: on cylindrical or conical surfaces, e.g. on rotating drums]
- B28C1/22 combined with means for conditioning by heating, humidifying, or vacuum treatment, [N: by cooling, by sub-atmospheric pressure treatment]
- B28C1/22B [N: by moistening, e.g. by steam]
- B28C1/22C [N: by degassing, de-aerating]
- B28C1/22D [N: by heating, drying]

Guide heading: **Mixing clay or cement with other material** ([general arrangement or layout of plant B28C9/00](#); [mixers in general B01F](#); [concrete paving mixers combined with distributing devices E01C19/00](#); [machines for preparing mixtures of road-metal with bitumen E01C19/10](#))

Note

In groups [B28C3/00](#) to [B28C7/00](#), the following term is used with the meaning indicated:

- "mixing" includes preliminary mixing, e.g. of some of the ingredients final mixing, and agitating the mixture to prevent segregation thereof

B28C3/00 **Apparatus or methods for mixing clay with other substances** ([producing clay suspensions B28C1/02](#))

B28C5/00 **Apparatus or methods for producing mixtures of cement with other substances, e.g. slurries, mortars, porous or fibrous compositions** ([controlling the mixing apparatus and supplying the ingredients B28C7/00](#) [N: [separating cement from waste concrete B03B9/06D2](#)])

- B28C5/00B . [N: Methods for mixing ([B28C5/38B4](#), [B28C5/40B](#) take precedence)] [N9604]
- B28C5/00B3 . . [N: involving mechanical aspects] [N9604]
- B28C5/02 . without using driven mechanical means effecting the mixing ([B28C5/48](#) takes precedence)
- B28C5/02A . . [N: using a flexible mat or bag] [N1204]
- B28C5/02B . . [N: Mixing guns or nozzles; Injector mixers (applying plaster by gas pressure [E04F21/12](#); both conveying and distributing concrete [E04G21/04](#); conveying concrete [B65G53/32](#); accelerating or decelerating material flow in troughs or tubes [B65G53/58](#))] [C9904]
- B28C5/04 . . Gravitational mixing; Mixing by intermingling streams of ingredients ([N: [B28C5/02B](#) takes precedence]; ingredients projected by fluid pressure [B28C5/06](#))
- B28C5/06 . . the mixing being effected by the action of a fluid (in combination with driven mechanical means, producing cellular concrete [B28C5/38](#))
- B28C5/08 . using driven mechanical means affecting the mixing ([B28C5/40](#), [B28C5/42](#), [B28C5/48](#) take precedence; in combination with the action of a fluid [B28C5/38](#))
- B28C5/08A . . [N: Details; Accessories]
- B28C5/08A1 . . . [N: Drum mixer cover, e.g. lid] [N1204]
- B28C5/08A2 . . . [N: Charging or discharging gates or chutes; Sealing means]

B28C5/08A3	. . .	[N: Drum insulating means] [N1204]
B28C5/08A4	. . .	[N: Drives or drive systems, e.g. toothed racks, winches (B28C7/08H5B takes precedence)]
B28C5/08A4B	. . . .	[N: Drives for mixers of the tilted-drum type (B28C5/08A4D takes precedence)]
B28C5/08A4C	. . . .	[N: Drives for drums rotating about a horizontal axis and supported by rotating rollers (B28C5/08A4D takes precedence)]
B28C5/08A4D	. . . .	[N: Hydraulic drives]
B28C5/08A5	. . .	[N: Supporting frames or structures, e.g. supporting wheels]
B28C5/08B	. .	[N: Adaptations of mixing containers therefor, e.g. use of material, coatings]
B28C5/08D	. .	[N: Mixing apparatus in which a mixing container is hoisted along an inclined or vertical track during mixing to discharge at a higher level]
B28C5/08F	. .	[N: Mixing in separate stages involving different containers for each stage]
B28C5/08G	. .	[N: having a stator-rotor system with intermeshing teeth or cages]
B28C5/08J	. .	[N: provided with sieves or filters]
B28C5/08K	. .	[N: Mobile mixing devices, e.g. hanging]
B28C5/10	. .	Mixing in containers not actuated to effect the mixing
B28C5/12	. . .	with stirrers sweeping through the materials [N: ,e.g. with incorporated feeding or discharging means or with oscillating stirrers]
B28C5/12A	. . . .	[N: with means for elevating the stirrer, e.g. out of the containers]
B28C5/12B	. . . .	[N: Independent stirrer-drive units, e.g. portable or mounted on a wheelbarrow]
B28C5/12C	. . . .	[N: discontinuously operating mixing devices, e.g. with consecutive containers]
B28C5/12C2	. . . . .	[N: with pressure or suction means for discharging]
B28C5/12F	. . . .	[N: for materials flowing continuously through the mixing device and with incorporated feeding or discharging devices (feeding or discharging devices per se B28C5/08A2)]
B28C5/12F2	. . . . .	[N: with feeding devices (B28C5/12F5 , B28C5/12F6 take precedence)]
B28C5/12F3	. . . . .	[N: with discharging devices (B28C5/12F5 , B28C5/12F6 take precedence)]
B28C5/12F3B	. . . . .	[N: Applying pressure for discharging (applying pressure during mixing B28C5/46B)]
B28C5/12F4	. . . . .	[N: for making cellular concrete (in general B28C5/38B)]
B28C5/12F5	. . . . .	[N: with consecutive separate containers with rotating stirring and feeding or discharging means]
B28C5/12F5B	. . . . .	[N: having a feeding hopper and consecutive vertical or inclined mixing container fed at its upper part]
B28C5/12F6	. . . . .	[N: with rotating stirring and feeding or discharging means fixed on the same axis, e.g. in an inclined container fed at its lower part]
B28C5/14	. . . .	the stirrers having motion about a horizontal or substantially horizontal axis [N: (with feeding or discharging means B28C5/12)]
B28C5/14A	. . . . .	[N: with container tiltable or elevatable for emptying]
B28C5/14B	. . . . .	[N: the stirrer shaft carrying screw-blades]
B28C5/14B2	. . . . .	[N: for materials flowing continuously through the mixing device]
B28C5/14C	. . . . .	[N: with several mixing chambers arranged one after the other]
B28C5/14F	. . . . .	[N: with several stirrers with parallel shafts in one container (B28C5/14C)]

		takes precedence)]
B28C5/14F2	. . . . .	[N: the material being moved perpendicularly to the axis of the shafts]
B28C5/14G	. . . . .	[N: the stirrer shaft carrying a plurality of radially extending mixing bars]
B28C5/16	. . . . .	the stirrers having motion about a vertical or steeply inclined axis [N: (with feeding or discharging means B28C5/12)]
B28C5/16A	. . . . .	[N: in containers tiltable for emptying in containers with inclined axes]
B28C5/16J	. . . . .	[N: in annularly-shaped containers]
B28C5/16J2	. . . . .	[N: with stirrers having planetary motion]
B28C5/16K	. . . . .	[N: Pan-type mixers]
B28C5/16K1	. . . . .	[N: with stirrers having planetary motion]
B28C5/18	. .	Mixing in containers to which motion is imparted to effect the mixing
B28C5/18A	. . . .	[N: rotating about an inclined axis (about a steeply inclined axis B28C5/26)]
B28C5/18A2	. . . . .	[N: with rotating mixing tools]
B28C5/18A3	. . . . .	[N: Mobile or portable devices, e.g. on a wheelbarrow (B28C5/18B10 takes precedence)]
B28C5/18B	. . . .	[N: Mixers of the tilted-drum type, e.g. mixers pivotable about an axis perpendicular to the axis of rotation for emptying]
B28C5/18B1	. . . . .	[N: to be mounted on a tractor]
B28C5/18B2	. . . . .	[N: provided with feeding means, e.g. hoisting skips (B28C5/18B1 , B28C5/18B5 , B28C5/18B8 take precedence)]
B28C5/18B3	. . . . .	[N: having several drums]
B28C5/18B5	. . . . .	[N: having driven stirrers, e.g. driven from underneath]
B28C5/18B8	. . . . .	[N: Details or parts, e.g. drums (drives B28C5/08A4)]
B28C5/18B8B	. . . . .	[N: Construction of drum, e.g. provided with mixing blades]
B28C5/18B8B2	. . . . .	[N: with mixing elements held stationary]
B28C5/18B8C	. . . . .	[N: Tilting means; Locks or brakes therefor]
B28C5/18B9	. . . . .	[N: the mixing drums being tilted otherwise than about a fixed axis perpendicular to the axis of rotation of the drum, e.g. by means of a set of links (B28C5/08B1 , B28C5/08B3 , B28C5/08B5 , B28C5/08B10 take precedence)]
B28C5/18B10	. . . . .	[N: Mobile or portable devices, e.g. for use by do-it-yourself enthusiasts]
B28C5/18C	. . . .	[N: the mixing drum being rotated by pulling it over the ground; the mixing drum or the stirrer being driven by movement of the wheel of a vehicle]
B28C5/20	. . . .	rotating about a horizontal or substantially horizontal axis during mixing, e.g. without independent stirrers
B28C5/20C	. . . . .	[N: with multi-compartment drums]
B28C5/20G	. . . . .	[N: Transportable containers, e.g. on a wheelbarrow, to be fixed totally or partly in a mixer, e.g. for rotation therewith]
B28C5/20H	. . . . .	[N: using spiral-shaped mixing drums]
B28C5/20J	. . . . .	[N: with the material travelling through the mixer, the discharge being opposite the feed inlet (B28C5/20P4 , B28C5/22 , B28C5/24 take precedence)]
B28C5/20P	. . . . .	[N: Parts or components (drives B28C5/08A4)]
B28C5/20P2	. . . . .	[N: Drums, e.g. provided with non-rotary mixing blades (B28C5/20C takes precedence)] [C9506]

- B28C5/20P2B [N: Drums consisting of axially displaceable halves; Drums having discharging opening on their cylindrical part, e.g. the drum rotating in opposite direction for mixing or for discharging; Drums having a cylindrical part not being a surface of revolution] [N9506]
- B28C5/20P4 [N: Feeding or discharging mechanisms] [N9506]
- B28C5/20P4B [N: Chutes pivotable about an axis parallel to the plane of the inlet or outlet opening] [N9506]
- B28C5/20P4C [N: Chutes rotatable about an axis parallel to the drum axis] [N9506]
- B28C5/22 with stirrers held stationary, [N: e.g. the material forming a ring zone by centrifugal force]
- B28C5/24 with driven stirrers
- B28C5/26 rotating about a vertical or steeply inclined axis during the mixing, [N: e.g. comprising a flat bottomplate rotating about a vertical axis, co-operating with blades or stirrers]
- B28C5/28 without independent stirrers
- B28C5/30 with stirrers held stationary
- B28C5/32 with driven stirrers
- B28C5/32B [N: with several stirrer shafts]
- B28C5/34 Mixing on or by conveyers [N: e.g. by belts or chains provided with mixing elements]
- B28C5/36 Endless-belt mixers [N: i.e. for mixing while transporting the material on an endless belt, e.g. with stationary mixing elements]
- B28C5/36B [N: Mixing with driven mixing elements while transporting the mixture on an endless belt]
- B28C5/38 wherein the mixing is effected both by the action of a fluid and by directly-acting driven mechanical means, e.g. stirring means; [N: Producing cellular concrete]
- B28C5/38B [N: Producing cellular concrete ([B28C5/12F4](#) takes precedence; producing foam [B01F3/04C3](#), [B01F3/04P2](#))] [C9604]
- B28C5/38B3 [N: comprising stirrers to effect the mixing]
- B28C5/38B3C [N: Stirrers specially adapted therefor]
- B28C5/38B4 [N: Plants; Systems; Methods]
- B28C5/38B4B [N: Methods]
- B28C5/40 Mixing specially adapted for preparing mixtures containing fibres
- B28C5/40B [N: Methods]
- B28C5/40C [N: Pre-treatment of fibres]
- B28C5/40C2 [N: and mixing with binding material] [N9604]
- B28C5/40F [N: by spraying fibres and binding material] [N9604]
- B28C5/42 Apparatus specially adapted for being mounted on vehicles with provision for mixing during transport ([N: [B28C5/18C](#) takes precedence; mounted on a wheelbarrow [B28C5/12B](#), [B28C5/18A3](#), [B28C5/20G](#);] vehicle aspect [B60P3/16](#))
- B28C5/42A [N: Details; Accessories]
- B28C5/42A1 [N: Control apparatus; Drive systems, e.g. coupled to the vehicle drive-system]
- B28C5/42A1B [N: Drives (in general [B28C5/08A4](#))]
- B28C5/42A1B2 [N: Hydraulic drives ([B28C5/42A1B3](#) takes precedence)]

- B28C5/42A1B3 [N: Drives in combination with drum mountings; Drives directly coupled to the axis of rotating drums]
- B28C5/42A1C [N: Controlling or measuring devices ([B28C5/42A1F](#) takes precedence)]
- B28C5/42A1C1 [N: Roll-over prevention] [N1204]
- B28C5/42A1F [N: Transmission control mechanisms]
- B28C5/42A2 [N: Proportioning or supplying water (in general [B28C7/12](#))]
- B28C5/42A3 [N: Charge or discharge systems therefor]
- B28C5/42A3B [N: Charging, e.g. hoppers]
- B28C5/42A3B2 [N: having self-charging means, e.g. skips, scoops or buckets, picking up the material from the ground]
- B28C5/42A3C [N: Discharging; Concrete conveyer means, chutes or spouts therefor (in general [B28C7/16D6](#))]
- B28C5/42A3C2 [N: using chutes (combined with transporting belts[B28C5/42A3C3](#), combined with pumps or screws[B28C5/42A3C4](#))]
- B28C5/42A3C2B [N: telescopic or foldable chutes]
- B28C5/42A3C3 [N: using transporting belts, e.g. mounted on a foldable frame]
- B28C5/42A3C4 [N: using pumps or transporting screws]
- B28C5/42A4 [N: Closures; Sealing mechanisms ([B28C5/42A3B](#) takes precedence)]
- B28C5/42A6 [N: Mounting means for drums; Support frames]
- B28C5/42A7 [N: Drums, e.g. provided with non-rotary mixing blades (drums for concrete mixers with horizontal axis [B28C5/20P2](#))]
- B28C5/42B [N: with rotating drum rotating about a horizontal or inclined axis, e.g. comprising tilting or raising means for the drum ([B28C5/42D](#) takes precedence)]
- B28C5/42B2 [N: with a drum rotating about a horizontal axis, e.g. perpendicular to the longitudinal axis of the vehicle]
- B28C5/42D [N: with rotating drum and independently-rotating mixing tools]
- B28C5/42F [N: with moving mixing tools in a stationary container]
- B28C5/42F2 [N: with mixing screw-blades]
- B28C5/42F3 [N: with stirrers rotating about a vertical axis]
- B28C5/42F4 [N: with reciprocating or oscillating stirrers (in general [B28C5/12D](#))]
- B28C5/42G [N: mounted on a tractor or on a tractor wheel (for tilted-drum type mixers [B28C5/18B1](#); charging thereof [B28C5/42A3B](#))]
- B28C5/44 Apparatus specially adapted for drive by muscle power
- B28C5/46 Arrangements for applying super- or sub-atmospheric pressure during mixing; Arrangements for cooling or heating during mixing, [N: e.g. by introducing vapour]
- B28C5/46B [N: Mixing at sub- or super-atmospheric pressure ([B28C5/12F3B](#) takes precedence)]
- B28C5/46B2 [N: at sub-atmospheric pressure]
- B28C5/46C [N: Heating, e.g. using steam]
- B28C5/46D [N: Cooling, e.g. using ice]
- B28C5/48 wherein the mixing is effected by vibrations (mixers with vibrating mechanisms in general [B01F11/00](#))
- B28C5/48B [N: with reciprocating or oscillating stirrers; Stirrers therefor ([B28C5/42F4](#) takes precedence)]

- B28C7/00** **Controlling the operation of apparatus for producing mixtures of clay or cement with other substances; Supplying or proportioning the ingredients for mixing clay or cement with other substances; Discharging the mixture** [N: ([B28C5/42](#) takes precedence; feeding material in general [B65G](#); proportioning in general [G01F](#), [G01G](#); controlling in general [G05](#))]
- B28C7/00A** . [N: Pretreatment of the ingredients, e.g. by heating, sorting, grading, drying, disintegrating; Preventing generation of dust]
- B28C7/00A1** . . [N: Tagging of the ingredients, e.g. by using ingredient identification means like RFID or labels] [[N1204](#)]
- B28C7/00A2** . . [N: by heating or cooling (during mixing [B28C5/46](#))]
- B28C7/00A2B** . . . [N: Heating, e.g. using steam]
- B28C7/00A2C** . . . [N: Cooling, e.g. using ice]
- B28C7/00B** . [N: Storage or weighing apparatus for supplying ingredients ([B28C7/04](#) takes precedence)]
- B28C7/00B1** . . [N: Storage containers, e.g. hoppers, silos, bins ([B28C7/00B2](#) takes precedences)]
- B28C7/00B1B** . . . [N: Storage container plant]
- B28C7/00B1C** . . . [N: having compartments]
- B28C7/00B1D** . . . [N: Parts or details thereof, e.g. opening, closing or unloading means]
- B28C7/00B2** . . [N: Storage containers or silos mounted on, or specially adapted for transport by, vehicles; Means for erecting containers or silos]
- B28C7/00B6** . . [N: Stationary storage means having elements to divide the ground in sectors]
- B28C7/02** . Controlling the operation of the mixing
- B28C7/02B** . . [N: by measuring the consistency or composition of the mixture, e.g. with supply of a missing component]
- B28C7/02B2** . . . [N: by measuring properties of the mixture, e.g. moisture, electrical resistivity, density]
- B28C7/02B3** . . . [N: by measuring data of the driving system, e.g. rotational speed, torque, consumed power]
- B28C7/02D** . . [N: by counting the number of revolutions performed, or by measuring the mixing time]
- B28C7/04** . Supplying or proportioning the ingredients [N: ([B28C7/02B](#) takes precedence; forming a predetermined ratio of the components to be mixed, in general [B01F15/04](#))]
- B28C7/04B** . . [N: Proportioning]
- B28C7/04B2** . . . [N: taking regard of the moisture content of the solid ingredients; Moisture indicators]
- B28C7/04B3** . . . [N: two or more flows in predetermined ratio]
- B28C7/04B4** . . . [N: control systems therefor]
- B28C7/04C** . . [N: Weighing predetermined amounts of ingredients, e.g. for consecutive delivery]
- B28C7/04C1** . . . [N: using a charging-skip, to be hoisted or tilted, provided with weight-indicating means]
- B28C7/04C2** . . . [N: using a weighing belt or the like]
- B28C7/04C4** . . . [N: Weighing means specially adapted for use in batching plants]

- B28C7/04C5 . . . [N: Weighing mechanisms specially adapted therefor; Weighing containers (other containers [B28C7/00B](#))]
- B28C7/04C6 . . . [N: using a weighing receptacle, the feeding thereof being automatically suspended after a predetermined weight has been obtained ([B28C7/04C7](#) takes precedence)]
- B28C7/04C7 . . . [N: using a weighing receptacle movable between several positions, e.g. moving vertically, horizontally or rotating about an axis ([B28C7/04C1](#) takes precedence)]
- B28C7/04D . . [N: Volumetric measuring devices, e.g. for consecutively delivering predetermined volumes of ingredients]
- B28C7/04D1 . . . [N: the ingredients being first supplied into measuring chambers, e.g. containers or skips]
- B28C7/04D1B [N: Measuring chambers or containers therefor (other containers [B28C7/00B](#))]
- B28C7/04D1C [N: the measuring chambers being provided on a rotating drum]
- B28C7/04D2 . . . [N: for continuous feeding, e.g. by controlling the velocity of a transporting belt or the thickness of the ingredients on the belt or by regulating the outlet of a hopper ([B28C7/04D3](#) takes precedence)]
- B28C7/04D3 . . . [N: by using conveyer screws]
- B28C7/04P . . [N: Plant for proportioning, supplying or batching ([B28C7/04C4](#), [B28C7/08D](#) take precedence; plant in general [B28C9/00](#))]
- B28C7/04P2 . . . [N: the plant being mobile]
- B28C7/04P2B [N: and broken-down for transport]
- B28C7/04P2B2 [N: with a frame carrying the supplying, proportioning or batching elements, movable between a horizontal transport position and an inclined working position]
- B28C7/06 . . Supplying the solid ingredients, e.g. by means of endless conveyers or jiggling conveyers
- B28C7/06A . . . [N: from stationary storage means having elements for dividing the ground sectorially ([B28C7/08D](#) takes precedence)]
- B28C7/06B . . . [N: with a pneumatic or hydraulic conveyer]
- B28C7/06D . . . [N: Supply from sacks; Sack openers]
- B28C7/06F . . . [N: with a pivotable charging-bin ([B28C7/06H](#) takes precedence)]
- B28C7/06G . . . [N: by means of stationary hoppers, chambers or bins from which the material is fed gravitationally, e.g. having agitating means therein (hoppers or bins per se [B28C7/00B1](#))]
- B28C7/06H . . . [N: having means to elevate or hoist a charging-bin or container]
- B28C7/08 . . . by means of scrapers or skips
- B28C7/08B [N: by means of a barrow or the like]
- B28C7/08D [N: from stationary storage means having elements for dividing the ground sectorially]
- B28C7/08F [N: on an endless chain]
- B28C7/08G [N: using manually-operated cable-pulled drag shovels ([B28C7/08H2](#) takes precedence)]
- B28C7/08G2 [N: using reciprocating cable-suspended drag shovels]
- B28C7/08H [N: using skips to be hoisted along guides or to be tilted, to charge working-site concrete mixers (proportioning by means of a skip [B28C7/04C1](#), [B28C7/04D1](#))]

- B28C7/08H2 [N: having mechanisms to fill the skip in its lowest position, e.g. by drag shovels, from a hopper]
- B28C7/08H3 [N: the skips being hoisted along vertical or inclined guides]
- B28C7/08H3B [N: and being tilted in their upmost position for discharging them at their upper side]
- B28C7/08H4 [N: the skips being tilted ([B28C7/08H3B](#) takes precedence)]
- B28C7/08H4B [N: about a fixed axis]
- B28C7/08H5 [N: Parts; Accessories, e.g. safety devices]
- B28C7/08H5B [N: Drives therefor, e.g. winches, hydraulic drives]
- B28C7/08H5C [N: Skips]
- B28C7/08H5D [N: Vibration devices, e.g. for facilitating the emptying of the skips]
- B28C7/08P [N: Parts, e.g. winches]
- B28C7/10 by means of rotary members [N: ,e.g. inclinable screws]
- B28C7/12 Supplying or proportioning liquid ingredients
- B28C7/12A [N: by means of a measuring chamber, e.g. container]
- B28C7/12A2 [N: for use with a skip]
- B28C7/12B [N: Supply means, e.g. nozzles]
- B28C7/12B2 [N: Nozzles; Valves; Valve-actuating means]

- B28C7/14 Supply means incorporated in, or mounted on, mixers

- B28C7/16 Discharge means, [N: e.g. with intermediate storage of fresh concrete]
- B28C7/16B [N: with storage reservoirs for temporarily storing the fresh concrete; Charging or discharging devices therefor]
- B28C7/16D [N: by means of conveyers, other than those comprising skips or containers, e.g. endless belts, screws, air under pressure]
- B28C7/16D2 [N: using a pump]
- B28C7/16D2B [N: using a fluid, e.g. gas ([B28C5/06](#), [B28C5/12F3B](#) take precedence)]
- B28C7/16D2B2 [N: comprising a lock rotor with pockets for feeding determined quantities of material from a hopper into the driving fluid]
- B28C7/16D4 [N: by means of a screw conveyer]
- B28C7/16D6 [N: Discharging chutes for concrete mixers]

- B28C9/00** **General arrangement or layout of plant** [N: ([B28C7/00B1B](#), [B28C7/04P](#) take precedence)]

- B28C9/00B [N: Mixing systems, i.e. flow charts or diagrams; Making slurries; Involving methodical aspects; Involving pretreatment of ingredients; Involving packaging]
- B28C9/00B2 [N: Making slurries, e.g. with discharging means for injecting in a well or projecting against a wall]

- B28C9/00C [N: comprising a multicompart ment silo with the mixing device, e.g. a mixing screw, fitted directly at the underside of the silo, e.g. with proportioning means at the exit of the silo]

- B28C9/00D [N: Plant adapted for mixing materials lying on the ground, e.g. in sectors ([B28C9/04D](#) takes precedence)]

- B28C9/02 . for producing mixtures of clay or cement with other materials
- B28C9/04 . the plant being mobile, [N: e.g. mounted on a carriage or a set of carriages] ([B28C5/42](#), [N: [B28C9/00B2](#), [B28C9/00C](#)] take precedence)
- B28C9/04B . . [N: and broken-down for transport ([B28C9/04D2](#) takes precedence)]
- B28C9/04B2 . . . [N: with a storage silo movable between a horizontal transport position and a vertical working position]
- B28C9/04B3 . . . [N: with a frame carrying the supplying and mixing elements movable between a horizontal transport position and an inclined working position]
- B28C9/04D . . [N: Plant adapted for mixing material lying in sectors on the ground]
- B28C9/04D2 . . . [N: and broken-down for transport]
- B28C9/04F . . [N: Self-contained units, i.e. mobile plants having storage containers for the ingredients ([B28C9/04G](#), [B28C9/04H](#) take precedence)]
- B28C9/04F2 . . . [N: with a mixing discharge trough with a free end, e.g. provided with a mixing screw or pivotable about a vertical or horizontal axis]
- B28C9/04G . . [N: provided with two or more carriages for storing the ingredients or for the mixing device, e.g. transportable on rails]
- B28C9/04H . . [N: with means for loading the material from ground level to the mixing device, e.g. with an endless conveyer or a charging skip ([B28C9/04D](#) takes precedence)]
- B28C9/04H2 . . . [N: with at least a storage compartment for one of the ingredients]