

Cagemaker Reinforcing Steel Cage Fabrication Machine

Cagemaker is an innovative Australian company that has developed a patented (US Patent 7124785) series of Cagemaker machines that assemble steel reinforcing bars into cages in the most versatile configurations to the highest standards in the largest range of shapes. Cagemaker drastically reduces or eliminates worker injuries, including pinching, strains, cuts, back injuries, and fatigue, because the material is handled automatically and the machines do all the work.

Cagemaker machine's many features include multi-jig splayed pipes wire coil pay unit; an electronic console for cage rotation, extracting, bar loading, synchronization of receiver to roller bench, and Scada Touch Screen Control; sealed dust cabinet; stock length rebar rack; discharge bench; bar loader unit for easy loading of rebar; cage extraction unit that ejects completed cages effortlessly; multi-jig plates that allow for thousands of different configurations; and touch screen interface.

The machine's many large projects include Q1 Tower (Broadbeach), Queensland Rail, Powerlines, (Belmont To Marurrie, Millmerran To Middle Ridge, Kogan Creek To Braeamar, Nebo To Pioneer Valley, Nebo To Broadsound), Circle On Cavil, Oasis (Broadbeach), Brisbane Bypass Tunnel, Gateway Bridge Duplication, Brunswick River Bridge Nsw Rta, Boggo Rd Busway, Inner Northern Busway, North South Bypass Tunnel, Rg Tanner Coal Terminal, 400 George St Development, Superliner Wharf Hamilton, Sierra Grande, Brisbane Central

Advantages:

- Cagemaker requires only one operator who is in a fixed ergonomic position and doesn't move along the length of the machine.
- Automatic Bar Loading device reduces risk of repetitive injury associated with handling bars up to 321kg / 500lb each. (i.e. 15mtrs / 50 feet of N50, the longest stock bar issued in Australia).
- The finished cages eject immediately, allowing the machine to continue making the next pile cage.
- Cagemaker eliminates the hour glass effect on cages.
- An inexperienced operator requires minimal training on the operation of a Cagemaker machine.
- Inner Rings are not required to pre-form the cage, as is the case on other machinery.
- Extra strengthening wraps for integrity can be applied anywhere along the length of the cage.
- Easy application of inner or outer rings is a standard feature of the Cagemaker system.
- The universal jig takes care of 95% of cage diameters/ location/diameter with machine capacity.
- Able to fabricate cranked end cages for splicing cages together.
- Machines can facilitate the complicated right-angled bars for the load-bearing end of the pile.
- Cage diameters can be incremented by as little as 10mm.
- Cagemaker has the fastest changeover time of any machine on the market.
- Spirals can be placed at the start or finish of rebar (Some machines can only start the spiral 200mm/ 8 inches from the beginning or the end of the rebar, which may require extra rings welded after the cage is ejected from the machine.)
- Additional bars can be added to the cages after a shell has been fabricated on the machine. Remove bars or add any number of additional bars, because no inner ring obstructs the process.
- Concrete vibrators do not catch on the inner rings, as Cagemaker does not traditionally use them.
- Every cage formed on our machines is identical, because of our patented jiggling process. This means that rounds can fit into squares and rounds and squares into squares and rounds.
- Different shaped cages on the Cagemaker system are easy. The traditional means of cutting half the bars and pulling the cage apart are a distant memory.
- The Cagemaker system can fabricate Solid 316 stainless steel cages.

Benefits:

- Manufacture cages twice as fast as any other machine on the market.
- Save six-times labor cost, because machines are much faster than traditional fabrication methods.
- Use less material, as our cages do not require inner rings.
- Diverse product sizes and shapes, including round, square, rectangular, and triangular cages.
- Unique machine assembles rebar up to 50mm (2") in diameter, with outer spiral up to 16mm (5/8").

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