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| http://www.baldor.com/images/blank.gif | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | http://www.baldor.com/images/blank.gif   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Servo Motors   |  | | --- | | BSM AC Brushless Servos | | BSM AC Brushless Servos |   Baldor has a wide selection of high performance AC brushless servo motors, DC servo motors and stainless steel servo motors for the motion control industry. Baldor has been leading the way in energy efficient industrial motors since the 1920's – has been supplying the industry with adjustable speed controls since 1952, and has been supplying servo and motion control since 1983.  Since the beginning, Baldor has been supplying reliable servo motor solutions to worldwide applications. Baldor has the design team, experience, application support, test facilities, information, and the solution for your application needs.  Baldor goes beyond the industry standard with innovations to provide reliable performance, while exceeding customer expectations. Some examples of Baldor firsts:   * stocking of servomotors for with immediate delivery - Baldor's commitment to provide you with service; * extra high insulated stator design for protection – Baldor's commitment to provide you with a quality product; * superior bearings with improved Exxon PolyrexEM® polyurea grease to provide 4 times greater life – Baldor's commitment to you to provide a reliable product; * premium high temperature 200°C moisture resistance, multi-coated copper wire for ability to cope with large current spikes – Baldor's commitment to provide you with a superior product;   You have choices, whether that means a product from stock, or a specific custom design for your application – Baldor believes in providing you with choices and is always ready to tackle the most challenging application. | | | | AC Servo Motors  [Click here](javascript:openBrWindow('vrobject.asp?product=AC+Servo+Motor','windowname','width=300,height=350,scrollbars=no,resizable=yes')) to view an AC Servo Motor VRObject (3D exploded view of motor). | | | | AC Servo BSM N-Series |  | [BSM N-Series](http://www.baldor.com/products/servomotors/n_series/bsm_nseries.asp) The BSM N-series provide applications with low inertia to attain the highest acceleration capability – to position faster – to obtain the highest machine throughput. Baldor's motors are hard at work, increasing productivity, improving part quality, providing precision and reducing cost in many applications. This series provides continuous stall torques ranging from 4 Lb-In (0.4 N-m) to 354 Lb-In (40 N-m). Peak torques are typically 4 times continuous. This series has the lowest inertia to provide the maximum torque per package size. |  |  |  |  | | --- | --- | --- | | AC Servo BSM C-Series |  | [BSM C-Series](http://www.baldor.com/products/servomotors/c_series/bsm_cseries.asp) The BSM C-series has as standard, a “higher” inertia – thus providing an excellent match for equipment requiring “higher” inertial matching for the machine. This series provides continuous stall capability ranging from 10 Lb-In (1.2 N-m) to 256 Lb-In (30 N-m). Peak torques are typically three time continuous. Baldor's BSM C-series provides 50% more torque in a smaller size (2 inches/50 mm) shorter) compared to previous Baldor motors. The C-Series provides an economical package best used in applications with higher load inertias. |  |  |  |  | | --- | --- | --- | | BSM R-Series |  | [BSM R-Series](http://www.baldor.com/products/servomotors/r_series/bsm_rseries.asp) The BSM R-series from Baldor allow designers to make use of the benefits of brushless technology in smaller compact packages – less maintenance, quieter operation, faster acceleration. This series provides continuous stall torques ranging from 1.4 lb-in (0.16 N-m) to 11.2 lb-in (1.2 N-m). Peak torques are three times continuous stall. |  |  |  |  | | --- | --- | --- | | Servo Rated Gearheads | | | | Servo Rated Gearheads |  | [Servo Rated Gearheads](http://www.baldor.com/products/servomotors/servo_gearheads/gearheads.asp) Baldor's low backlash GBSM-series of gearheads mount easily and directly onto the BSM C-series and N-series servo motors. These gearheads are designed for servo applications requiring precision, durability, and long trouble-free operation. The GBSM-series are planetary gearheads, which provide very high power transmission capability, torque multiplication, speed reduction and inertial matching. These are high efficiency gearheads. The standard GBSM gearheads are available in five different case sizes, which fit directly onto the five sizes of Baldor’s BSM servo motors. Mounting takes less than 2 minutes. |  |  |  |  | | --- | --- | --- | | Stainless Steel Brushless Servo Motors | | | | Stainless Steel Brushless Servo Motors |  | [Stainless Steel Brushless Servo Motors](http://www.baldor.com/products/servomotors/stainless_servos/ssbsm_servos.asp) Baldor's totally stainless steel SSBSM series of servo motors are designed for food, liquid, pharmaceutical, washdown, and high hygiene applications. They may be applied in harsh, corrosive environments. These motors are designed to handle IP67 and withstand 1500 psi washdown conditions. These stainless steel servo motors are offered in standard and low inertia designs for best machine inertial matching. Included in this quality design are lazer etched nameplate, FDA shaft seal, environmental protected stator with premium moisture resistant wire, and internal thermal over temperature protection. Baldor’s SSBSM products are designed to be durable. |  |  |  |  | | --- | --- | --- | | DC Brushless Motors | | | | [DC Brushless Motors](http://www.baldor.com/products/servomotors/dc_servomotor/dc_brushless.asp) |  | [DC Brushless Motors](http://www.baldor.com/products/servomotors/dc_servomotor/dc_brushless.asp) Baldor’s BSM25 and BSM33 brushless DC motors with Hall sensors provide machine designers the benefits of brushless technology – quieter operation, smaller size, maintenance-free, longer life, and faster time to speed. They represent the best long-term investment. |  |  |  |  | | --- | --- | --- | | DC Servo Motors  [Click here](javascript:openBrWindow('vrobject.asp?product=DC+Servo+Motor','windowname','width=300,height=350,scrollbars=no,resizable=yes')) to view a DC Servo Motor VRObject (3D exploded view of motor). | | | | DC Servo Motors |  | [DC Servo Motors](http://www.baldor.com/products/servomotors/dc_servomotor/dc_servo.asp) Baldor's DC Servo motors were designed rugged to meet demanding requirements of industrial motion control. Available in diameters from 2.2 to 4 inches (55.8 to 101.6 mm) to provide continuous stall torques up to 56 Lb-In (6.3 N-m). They are designed to handle a continuous high temperature of 155°C for reliability and dependability. A wide variety of options are available for customization to meet your application needs - tachometers, encoders, brakes, mountings, shafts, windings, speeds, connectors, environmental. Standards available from stock. |  |  |  |  | | --- | --- | --- | | Stepper / Driver | | | | Stepper/Driver |  | [Stepper/Driver](http://www.baldor.com/products/servomotors/stepper_driver.asp) Baldor's DSM series is an integrated high torque stepper motor and microstepping driver. The DSM is available in three frame sizes NEMA 17, 23, and 34, providing open loop operation with torques up to 1061 oz-in (749N-cm). The 1.8° stepper motor is combined with a microstepping drive, with up to 14 resolution setting from 400 steps to 51,200 steps per revolution. A simple Windows™ front end is used to set up resolution and other parameters. | | |