Solutions



SM Series Servo Motors

SM Series brushless servo motors are manufactured in Compumotor's modern JIT manufacturing facility. Highly involved manufacturing philosophies provide levels of service and product availability previously unattainable. Standard product orders of ten motors or less are shipped within ten working days. A KanBan manufacturing system easily allows the addition of special connectors, shafting, or other specific requirements to your specification, regardless of quantity.



NeoMetric and J Series Servo Motors

The NeoMetric Series continues Compumotor's innovative design and manufacturing techniques in brushless servo motor technology. State-of-the-art engineering establishes industry leading torque to inertia ratios in a very compact package size. The J Series is based on the same innovative bridged construction used in the NeoMetric Series except the J Series design has been enhanced by an additional mass that has been added to the rotor. The increased rotor inertia improves load-to-motor inertia ratios.



BE Series Servo Motors

Compumotor's BE Series brushless servo motors produce high continuous stall torque in a cost-reduced package. The increased torque of the BE Series is the result of an increased number of magnetic poles on the rotor. Traditional motors in these frame sizes have four magnetic poles on the rotor, while the BE Series motors have eight poles. The cost reduction of the BE Series is achieved from their open lamination design. Unlike traditional servo motors, the BE Series motors do not have a metal housing. Instead, the laminations of the motor are shaped into the body of the motor. This design reduces both material costs and time required to assemble the motor.



Planetary Gearheads

Compumotor's integrated line of planetary gearheads is designed for use with its world-class brushless servo motors. Compumotor gearheads offer the shortest package length in the industry by incorporating the pinion of the reducer into the motor's shaft design. This design eliminates the need for an adapter plate and coupling, which can save more than an inch in total package length.

Common Special Requests

Connectorization

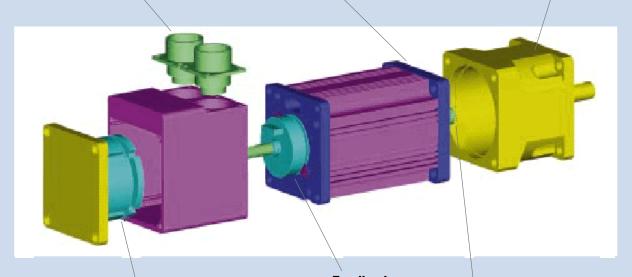
Molex
"D" shell
High current "D" shell
MS connectors on size 16
Right angle connector housing
MS connectors on back cover
Special cable lengths
Hi-flex cables
Customer specified cables
and connectors
Cable exiting thru back cover

Flanges

Tapped mounting holes NEMA 34 flange Customer specified flanges Face mount

Gearheads

Custom ratios Customer specified flanges Customer specified output shaft



Brakes

SM16, 1 & 3 in. lb. brake, external SM23, 3 in. lb. brake, external SM23, 10 in lb brake, enclosed

Feedback

1250 line encoders 2000 line encoders 5000, 8196 line encoders

Miscellaneous Options

Private label back cover Special windings Shorter lengths High speed balancing Different or no anodizing

Shafts

Special lengths
Special lengths
Special flats
Special keyways
Special shaft diameters
Metric shaft diameters
Hollow shafts
Rear Shaft Extension – 0.25" dia.
Double flats
Shaft pinning
Pressed on gears
Center tapped
Harder shaft materials (431 S.S.)

Custom Motors

Compumotor and You Developing Solutions Together!

SM Series - Size 16	
CM175B – Short length, customer specified encoder	5
CM239 - Custom output shaft, connectors in-line	6
CM438 - Custom output shaft, custom winding	7
CM490B - Custom gearhead flange, 1 in. lb. external brake	8
CM494 – Customer specified cable length and connectors	9
CM555 - Double flats, special plate 3 in. lb. external brake 1	0
CM611 – Hi-Flex cables, custom connector housing	11
CM788C - 3 in. lb. external brake, custom cables, custom output shaft 1	2
CM931 – 1 in. lb. external brake	3
SM Series - Size 23	
CM133 - Hollow shaft, extended rear, seals both ends 1	4
CM423 – 10 in. lb. enclosed brake, TQ wiring 1	5
CM427 – 9 Pin "D" connector, 3 in. lb. external brake	6
CM478 - Rear exit MS connectors, custom winding 1	7
CM561 – 10 in. lb. enclosed brake, custom cable length 1	8
CM603 – 10 in. lb. enclosed brake, 3:1 gearhead 1	9
CM630 - Pulley on shaft, Molex connectors, helicoil inserts	20
CM774 - 1.5 stack, extended front shaft, front endcap rotated	21
CM1222 - Right angle MS connectors	22
CM1378B - Modified back endcap and housing, customer specified encoder 2	23

NeoMetric Series - Size 34 & 70	
CM483 – Higher rotor inertia (internal slug)	24
CM577 - Hollow shaft, vacuum housing on back cover)	25
Gearhead cutaway – Direct mount gearhead, reduced motor length	26
NeoMetric/J Series - Size 92	
CM492 - Modified front flange to mount size 34 gearhead	27
CM1147 – Stainless steel housing, NEMA 56C front flange	28
BE Series - Size 34	
CM1178 – 64:1 gearhead, custom cables	29

CM175B



Motor Description:

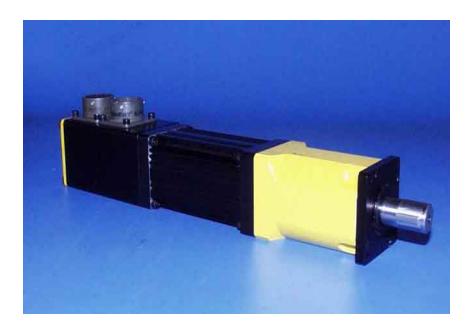
■ SM160XX-NFLN

Customization Performed:

- Customer specified motor length
- Customer specified encoder
- Custom winding

Application:

Medical diagnostic equipment; blood analysis, probe position



Motor Description:

■ SM162BE-KTQG100

Customization Performed:

- 100:1 Gearhead with .500 dia. output shaft
- MS Connectors in-line on connector housing to mount motors side by side

Application:

■ Extrusion die positioning

CIV1438



Motor Description:

■ SM160XE-KFLG05

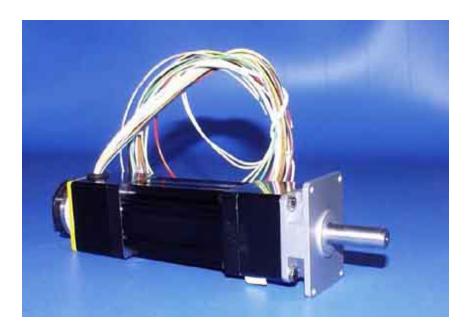
Customization Performed:

- 5.5:1 Planetary Gearhead with custom metric output shaft
- Custom winding

Application:

■ Medical diagnostic equipment, shuttle axis for vials

CM490B



Motor Description:

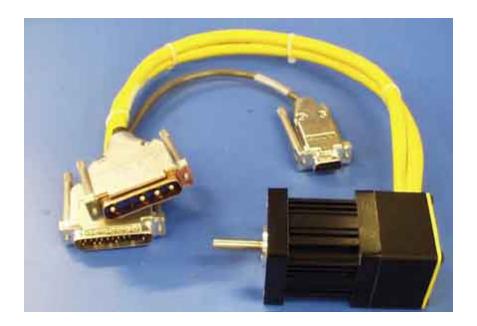
■ SM162AE-KFLBG28

Customization Performed:

- 28:1 Planetary Gearhead with custom mounting flange
- 1 in. lb. brake externally mounted

Application:

■ Wafer processing equipment



Motor Description:

■ SM160AE-FXXN

Customization Performed:

- Customer specified cable length and connectors
- Shaft with flat

Application:

■ Electronics manufacturing, PCB handling



Motor Description:

■ SM162AE-XFLB

Customization Performed:

- Double flats on shaft
- Special back plate to mount a 3 in. lb. brake externally on motor

Application:

■ Wafer fabrication



Motor Description:

■ SM161AE-NXXN

Customization Performed:

- Hi-Flex cables
- Custom connector housing

Application:

■ Gantry system

CM788C



Motor Description:

■ SM161BD-XXXB

Customization Performed:

- 3 in-lb external brake
- 18" flying leads with braided shield
- P-clips installed on back cover
- Double flats on shaft
- Modified back cover (corners cut at 45 degrees)

Application:

■ Eddy current test probe



Motor Description:

■ SM160AE-NGSB

Customization Performed:

■ 1 in-lb external brake

Application:

■ Pharmaceutical syringe assembly



Motor Description:

■ SM233BD-XMSV

Customization Performed:

- Extended rear shaft
- Hollow shaft

Application:

■ Filament feeding machine for a light bulb manufacturer



Motor Description:

■ SM231AE-NTQB

Customization Performed:

- 10 in. lb. enclosed brake
- MS connectors with TQ wiring

Application:

■ Pick and place machine



Motor Description:

■ SM232AE-NXXB

Customization Performed:

- 9 Pin "D" connectors on special housing
- 3 in. lb. externally mounted brake
- Shaft runout held to 0.002"

Application:

■ Hard disk drive manufacturing



Motor Description:

■ SM232XE-XXXN

Customization Performed:

- MS Connectors exiting through rear plate
- Custom winding (6 amp)
- Special 1.00" extended front shaft

Application:

■ XY Positioning for vision system



Motor Description:

■ SM232BE-NXXB

Customization Performed:

- 10 in. lb. enclosed brake
- 15 foot cables

Application:

■ Servo motor winding machine



Motor Description:

■ SM232AE-KTQBG03

Customization Performed:

- 10 in. lb. enclosed brake
- MS connectors with TQ wiring
- 3:1 Gearhead

Application:

■ Vertical stacking machine



Motor Description:

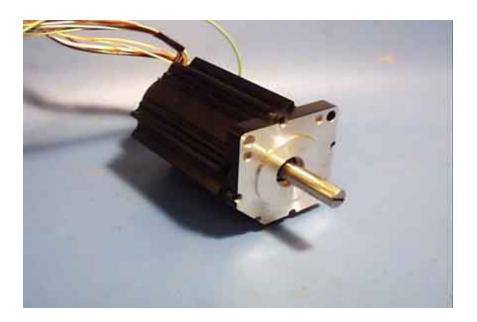
■ SM232BD-XXXV

Customization Performed:

- Pulley mounted to modified shaft
- Customer specified cable length and connectors
- Metric helicoil inserts mounted in front flange

Application:

■ Fluid dispensing machine



Motor Description:

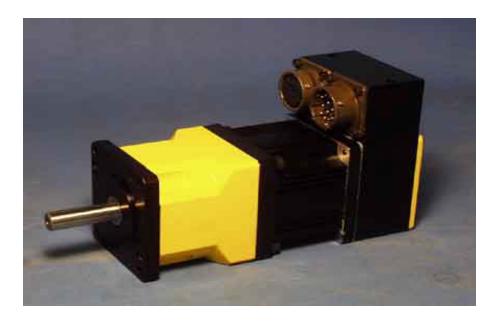
■ SM23XXE-XFLN

Customization Performed:

- 1.5 stack
- Extended front shaft
- Front endcap rotated 45 degrees to motor housing

Application:

■ Drive motor application



Motor Description:

■ SM230AR-KXXG10

Customization Performed:

■ Right angle MS connectors

Application:

■ Gantry robot

CM1378B



Motor Description:

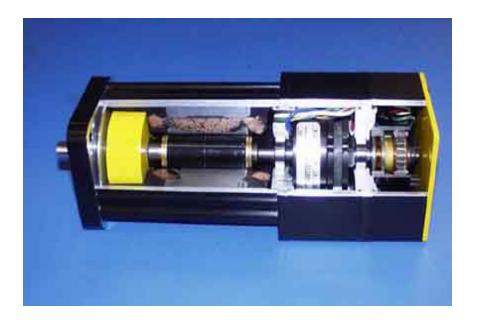
■ SM231AE-FFLN

Customization Performed:

- Front endcap rotated 45 degrees to motor housing
- Modified back endcap and housing
- Extended rear shaft
- Custom mounting bracket for customer specified encoder

Application:

■ Wafer processing equipment, XY positioning



Motor Description:

■ N0702FR-NTQB

Customization Performed:

- Larger rotor inertia (internal slug)
- 24 in. lb enclosed brake

Application:

■ Gantry Robots, Electric Cylinders and X-Y Tables



Motor Description:

■ NO341XD-XXXV

Customization Performed:

- Hollow shaft with threaded front end
- Teflon coated bearing baffle on front shaft
- Vacuum housing on back cover
- Custom connectors

Application:

■ Compact disc spin coating application





Customization Performed:

■ Direct mount gearhead to motor for reduced motor length



Motor Description:

■ N0923KR-KMSG03

Customization Performed:

- Modified front flange
- 34 Gearhead mounted to a size 92 motor

Application:

■ Gantry Robots, Electric Cylinders and X-Y Tables



Motor Description:

■ J0923HJ-XXXV

Customization Performed:

- Stainless steel housing
- NEMA 56C front flange
- Connectors through NPT tapped holes in back cover

Application:

■ Food grade washdown application



Motor Description:

■ BE344JJ-KXXBG64

Customization Performed:

- 64:1 gearhead
- 10 foot cables terminated in Gemini connectors

Application:

■ Transfer arm for feeding pc boards into an exposure machine