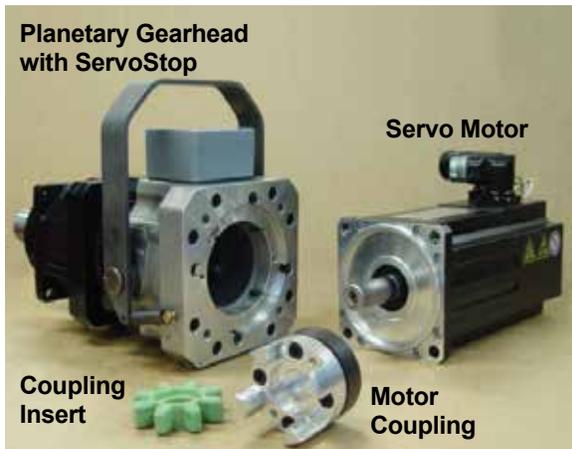


The integration of a backlash-free brake into the motor adapter makes a very compact means to provide safe braking during emergency stops or a power failure. The addition of double lip FKM radial seals protects the brake disk from oil. Units can be mounted in any position except EL6 motor down. Motors can be disassembled without removing the load.

*Important: Clean the motor shaft with degreaser to remove any film of oil or grease.*



**ServoStop Sizing – Emergency Stop**

$$(T_{1HN} + T_{1MB}) \times i \times \eta < 0.6 \times T_{2PEAK} \pm 15\% \quad +40/-20\%$$

where:

- $T_{1HN}$  = ServoStop Braking Torque
- $T_{1MB}$  = Servo Motor Braking Torque
- $i$  = Ratio
- $\eta$  = Efficiency of Gear Reducer
- $T_{2PEAK}$  = Peak Output Torque of Gear Reducer

### ServoStop Part Number and Capacity

Brake Number						
C, F, K, PK, PHK	P/PA	PH/PHA	$T_{1HN}$ Braking Torque (Nm)			
MB20	MB21	MB22	8	12	16	24
MB30	MB31	MB32	16	24	32	45
MB40	MB41	MB42	—	50	72	100

### Step 1 Install the motor coupling into the motor shaft.

Carefully slide the coupling onto the motor shaft with allen head screws facing outward. When installed, the coupling should be located as close as possible to the hub of the motor.



To secure the coupling use a torque wrench to tighten the three (3) allen head screws to the recommended torque in Table 1.



### Table 1 Tightening Torques

Brake Number	Allen Hd Screw	Nm	Motor Bolt Size	Nm
MB2_	M5	6	M8	24
MB3_	M5	6	M10	48
MB4_	M6	10	M12	83

### Step 2 Install the motor.

For ease of installation, place the coupling insert onto the coupling.



With the coupling and insert installed, guide the motor shaft into the gearhead brake. Support the gearhead during installation as some maneuvering may be required to attain correct alignment with the brake coupling.

Install the motor flange bolts and with a torque wrench tighten to the recommended tightening torque in Table 1.



### Wiring Diagram

