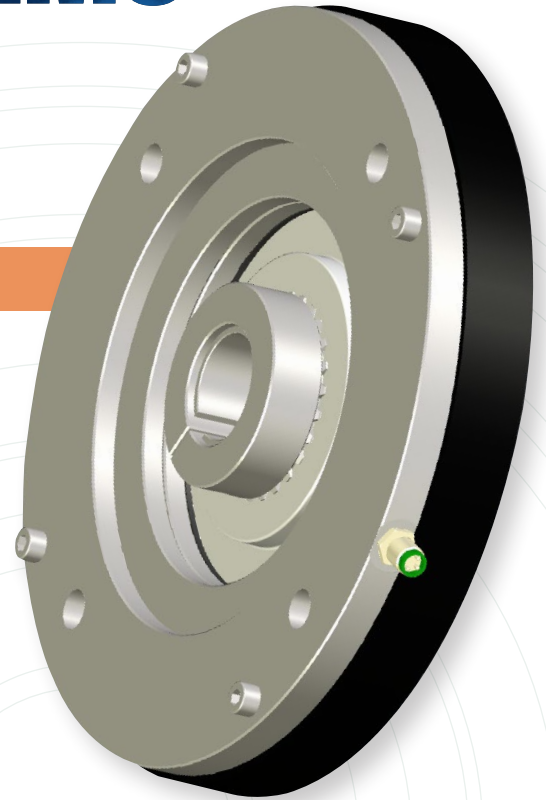


A SIMPLE DESIGN TO SOLVE COMPLEX PROBLEMS

The **NEW** UTSB Ultra-Thin Servo Brake

- Allows purchase of motors without brakes, simplifying inventory
- When built-in servo brake does not have enough torque, purchase a motor-less brake and add the UTSB at the same or less cost than a built-in brake
- Unique coil designs allows for a reduced outside diameter
- Compact design adds in most cases only 25 mm to the overall length
- The short overall length of the brake still leaves adequate motor shaft length, to engage the input of the gearhead
- When used in combination with built in servomotor brakes achieves EN ISO 13849 for redundant braking
- If brakes are damaged as a result of misuse, they can be easily replaced without refurbishing the motor



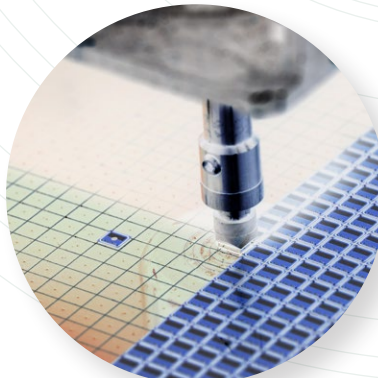
The slim design - without bearings, sheaves, seals or housing, yields a smaller package and substantially lower cost for applications including:

- OEMs
- Automation – System Integrators
- Pick & Place Welding Automation
- Vertical applications – 3-Axis + multiple vertical
- Servo Motor Gear Head manufacturers and End Users

A Wide Variety of Applications



3-Axis CNC Milling

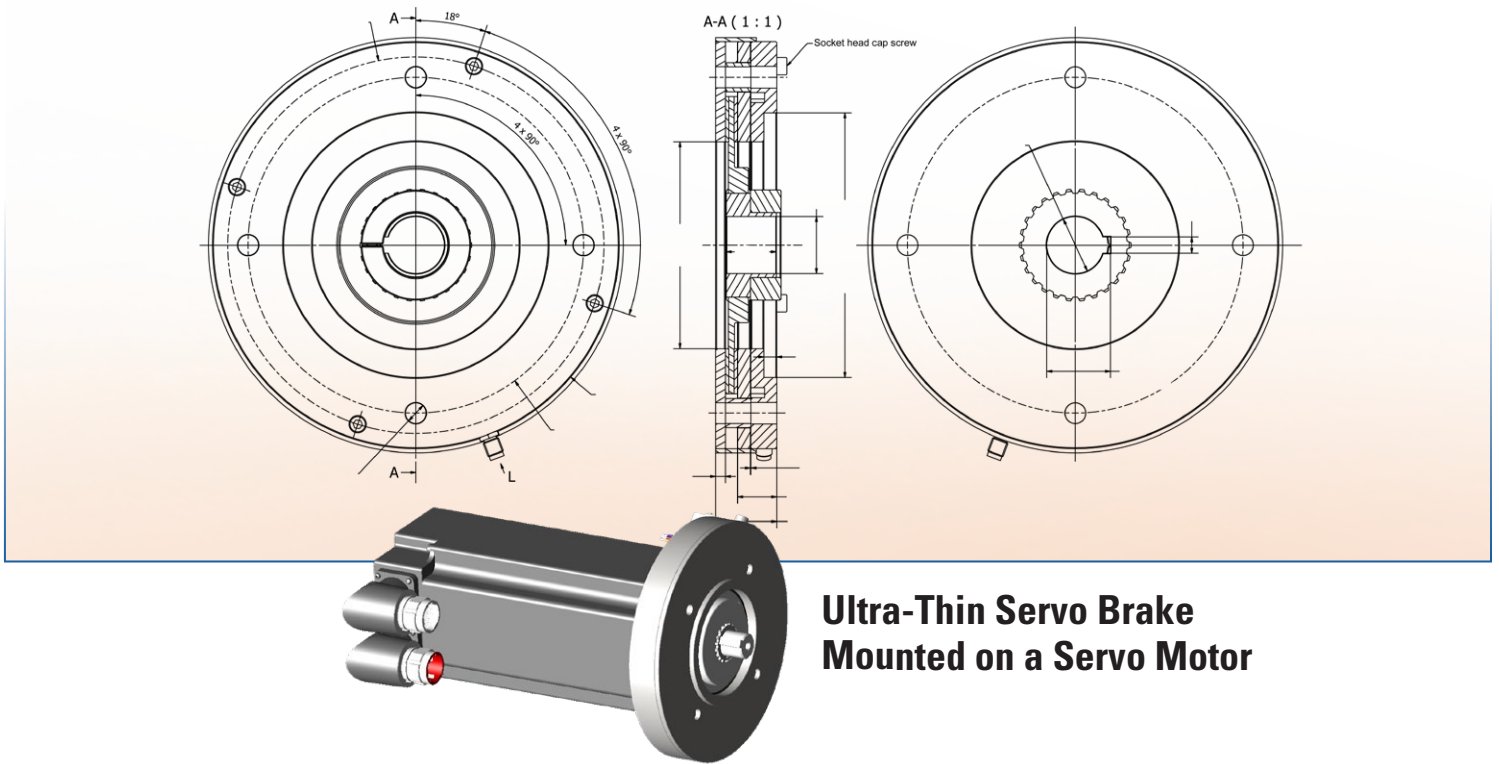


Semiconductor Manufacturing



Welding Automation

CONCEPT OF THE ULTRA-THIN SERVO BRAKE



**Ultra-Thin Servo Brake
Mounted on a Servo Motor**

Our design goal was to make an electromagnetic brake so compact that it would fit between the servo motor and the servo motor gear head, sharing the shaft length with the input coupling of the gear head.

The UTSB Design is far superior to a Double Flange Servo Brake Design. The new UTSB can replace a Double Flange Servo Brake Design... which can be complicated, relatively expensive and add length to the motor gearhead package.

The UTSB's unique brake coil arrangement allows for relatively small outside diameter; the add on length dimension is approximately 25 mm for most sizes.

EMTorq ULTRA-THIN SAFETY BRAKES

Part Number	Torque Rating	Power @ 20°C	Outside Diameter	Axial Length	Bore Size
AB-300	4 Nm	30 W	6 in.	1 in.	16 mm
AB-400	10.2 Nm	30 W	6.7 in.	1 in.	19 mm
AB-450	10.2 Nm	30 W	7.6 in.	1 in.	24 mm
AB-500	28.3 Nm	76 W	7.9 in.	1.2 in.	28 mm

Our standard coil voltage is 24 VDC other voltages available on request.

EMTorq PRODUCTS INCLUDE:

Spring-Engaged Brakes

- motor brakes
- IEC/NEMA flange mount brakes
- caliper brakes
- elevator/lift
- marine duty/washdown

Clutches and Brakes

- shaft mount
- flange mount

Clutch-Brake Modules

- IEC/NEMA flange mount
- shaft in/out foot mount

Eddy Current Brakes

- shaft - flange - foot mount

Servo Brakes

- ultra-thin, compact mount

Custom OEM Designs



PRECISION • PERFORMANCE • SOLUTIONS

A DIVISION OF TORQUE TECHNOLOGIES

Spring Set Brakes • Industrial Electromagnetic Clutches
Brakes • Clutch-Brake Combinations

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