

Customized Motion Control Solutions

When precision, performance, size or application specific constraints (business and/or technical) cannot be met by any other suppliers for large OEM customers; Aspen Motion Technologies can offer prompt and viable motion control solutions at globally competitive prices.

Our capabilities range from 0.5" in diameter to 36 inches in diameter for permanent magnet brushless synchronous motors/generators with the associated drive electronics from a few watts up to 25 kilowatts, often with a DSP/ARM core and data interface such as Analog, CAN OPEN, Zigbee, RS485, I²C or other industrial communication interfaces.

Aspen's approach is totally focused on solving OEM motion control business/technical problems. This has often lead to "more than just a motor" solution resulting in solutions such as tailored precision servo motors with feedback devices, brakes, gearboxes, and integrated intelligent controllers. In addition, we have designed/developed products including extremely compact forward curve/backward curve/centrifugal blowers, high efficiency systems (motors and generators), high performance magnetic couplings , unique extremely compact liquid pumps, direct drive solution (eliminating gearing) with integrated drives, and even complete OEM products per the customer's specifications. More often than not, Aspen has found viable solutions to customer problems while at the same time maintaining globally competitive prices. This has enabled Aspen to routinely ship products, not only throughout North America but also to Europe, Mexico, China, Southeast Asia...

Aspen has comprehensive skill sets which include: FEA based electromagnetic and flow analysis, power electronics and intelligent DSP/ARM based control electronics, 3D printing for rapid prototyping, extensive machining capability, high volume and mixed volume winding machines, efficient assembly methods, data logging, operator training and quality processes to meet modern exacting demands of quality and on-time deliveries. Aspen has contributed to its OEM customers' success by offering products to meet high ambient temperature and harsh environmental conditions, customer specific algorithms, current, velocity or position control, sensorless designs, low noise quiet operation. In almost every case, Aspen has enabled the OEM customer's own competitive advantage and therefore contributed to their success.

Aspen Motion Technologies
Division of Pentair
1120 Rock Road
Radford, VA 24141
Ph: 540-639-4440

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