

# SPINDLE TECHNOLOGY

PushCorp offers a wide range of powerful, rugged and efficient electric spindles. All PushCorp spindles utilize liquid cooled, permanent magnet, brushless, closed-loop servomotor technology. This technology gives our spindles the highest power-to-weight ratio and power efficiency in the industry. With proper cooling, our motors are designed to run with up to a 100% duty cycle – turn them on, leave them on. They can handle high-power, continuous operation for years with zero maintenance – no problem!

## Standard BT Toolholder

Pneumatically actuated, industry standard BT-style toolholders are our most popular tool changing option. Our spindles accept either the BT30 or the larger BT40 toolholder depending on the motor size. BT-style toolholders are readily available from a variety of tooling suppliers in various lengths and configurations. They provide exceptional holding torque and tool retention and can accommodate a wide range of tool diameters. This exceptional performance and flexibility make them the go-to choice for most any application.

## Tool Change Technology

Our manual collet option uses a standard R style collet and nut. This simple, low-cost solution is ideal for grinding, brush finishing and other applications where media changes are required but not frequent enough to justify full, robotic quick-change technology. R collets are readily available from many suppliers in a variety of size options to accommodate most any tool.



# PRODUCTS

## Next-Gen Active Compliant Devices



**AFD310**

Max Force: 67.4 lbs [300 N]  
Force Accuracy: ±0.2 lb [±1.0 N]  
Compliant Stroke: 0.8 in [20mm]



**AFD620**

Max Force: 134.9 lbs [600 N]  
Force Accuracy: ±0.2 lb [±1.0 N]  
Compliant Stroke: 1.6 in [40mm]



**AFD1240**

Max Force: 269.8 lbs [1200 N]  
Force Accuracy: ±0.5 lb [±2.2 N]  
Compliant Stroke: 1.6 in [40mm]



**AFD52**

Max Force: 8 lbs [37 N]  
Max Payload: 8 lbs [4 kg]  
Compliant Stroke: 1 in [25mm]



**AFD72**

Max Force: 50 lbs [222 N]  
Max Payload: 40 lbs [18.2 kg]  
Compliant Stroke: 0.8 in [20mm]



**AFD82**

Max Force: 100 lbs [444 N]  
Max Payload: 100 lbs [45 kg]  
Compliant Stroke: 1.6 in [40mm]



**FCUFLEX**

Electrical Supply: 24 VDC +/-10%, 3 Amps Max  
Control Interfaces: TCP, UDP, HTTP, JSON, and 24 VDC Digital  
Optional Control Interfaces: DeviceNet, Ethernet/IP, Profibus, Profinet, EtherCAT, CANopen, and Modbus



**AFD92**

Max Force: 250 lbs [1112 N]  
Max Payload: 200 lbs [90 kg]  
Compliant Stroke: 1.4 in [36mm]

## Robotic Belt Sander



**RBS372**

Max Belt Speed: 6719 SFPM  
Torque: 8.9 lb-ft [12N·m]



**SBS81**

Max Force: 100 lbs [444N]  
Compliant Stroke: 1.6 in [40mm]  
Belt Speed Range: 100-7330 SFPM



**SFS81**

Max Force: 100 lbs [444N]  
Compliant Stroke: 1.6 in [40mm]  
Output Shaft Speed: 0-2000 RPM



**SBS91**

Max Force: 250 lbs [1112N]  
Compliant Stroke: 1.4 in [36mm]  
Belt Speed Range: 100-7330 SFPM



**SFS91**

Max Force: 250 lbs [1112N]  
Compliant Stroke: 1.4 in [36mm]  
Output Shaft Speed: 0-1400 RPM



**DAS100**

Max Speed: 10,500 RPM  
Power: 0.24 hp [179 W]

## Backstand Equipment

## Spindle Motors



**STC2002**

Max Speed: 20,000 RPM  
Torque: 1.22 lb-ft [1.7 N·m]



**STC1503-BT30**

Max Speed: 15,000 RPM  
Torque: 2.57 lb-ft [3.5 N·m]



**STC0605-BT30**

Max Speed: 6,000 RPM  
Torque: 5.6 lb-ft [7.6 N·m]



**STC0612-BT40**

Max Speed: 6,000 RPM  
Torque: 10.7 lb-ft [14.5 N·m]



**STC1015**

Max Speed: 10,000 RPM  
Torque: 14.8 lb-ft [20 N·m]



**STC1515**

Max Speed: 15,000 RPM  
Torque: 7.4 lb-ft [10 N·m]



**STC0325**

Max Speed: 3,000 RPM  
Torque: 36.9 lb-ft [50 N·m]

## Automated Weld Removal



**SWS100-3.7**

Max Speed: 3000 SFM  
Torque: 10.4 lb-ft [14.1 N·m]



**SWS100-7.2**

Max Speed: 3900 SFM  
Torque: 18.1 lb-ft [24.5 N·m]



**TWS91**

Max Speed: 3900 SFM  
Torque: 18.1 lb-ft [24.5 N·m]