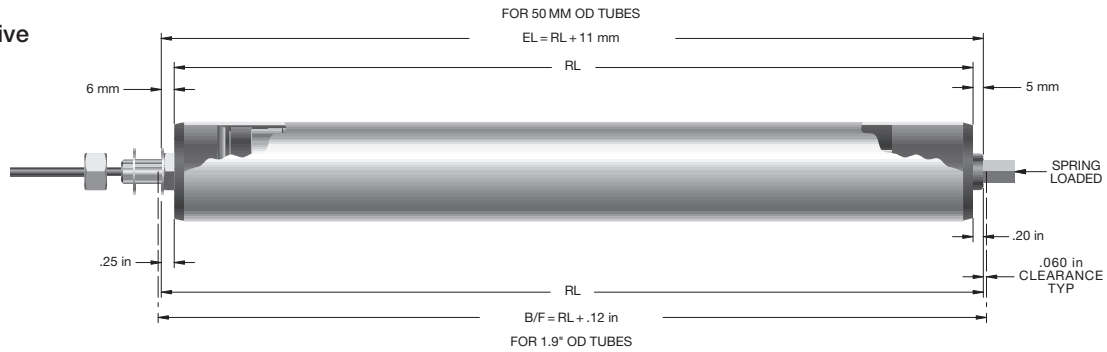
RollerDrive EC200

Interroll RollerDrive EC200
Implementing innovative brushless motor control, the Interroll RollerDrive EC200 is the first integrated motor controller to provide such a wide range of applications capability. Taking the best of an established product offering, Interroll has combined the motor control capability and brushless motor performance from the EC300 with the efficiency developed for the gear stages of the EC100 into a cost effective, integrated MDR solution for use in a wider range of material handling applications.

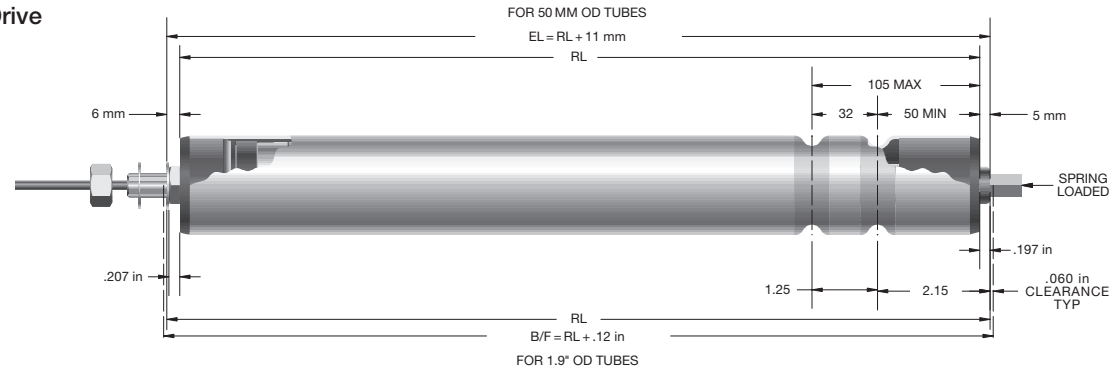
With it's integrated motor control, the EC200 minimizes installation costs while it provides a more cost effective MDR solution using integrated controls for lower speed applications.

- Integrated motor controls for ease in installation
- Broader application range for lower speed use
- Higher technology in a more cost effective system
- Protects against static discharge in properly grounded systems
- Interface to both PNP and NPN sensors

EC200 Straight RollerDrive



EC200 Grooved RollerDrive



EC200 Minimum Roller Length Specifications

Ratio	Tube Type	Idler Shaft	Min. RL mm (in.)
12:1, 16:1	No Groove	Female Threaded	276.2 (10.87)
		Spring Loaded Hex	312 (12.27)
	2 Standard Grooves	Spring Loaded Hex or Female Threaded	327.4 (12.45)
	Dual O'ring or Multirib Hub	Spring Loaded Hex or Female Threaded	Consult Interroll
36:1, 48:1, 64:1	No Groove	Female Threaded	298.6 (11.72)
		Spring Loaded Hex	334.2 (13.12)
	2 Standard Grooves	Spring Loaded Hex or Female Threaded	339 (13.29)
	Dual O'ring or Multirib Hub	Spring Loaded Hex or Female Threaded	Consult Interroll

For curve applications, please consult Interroll

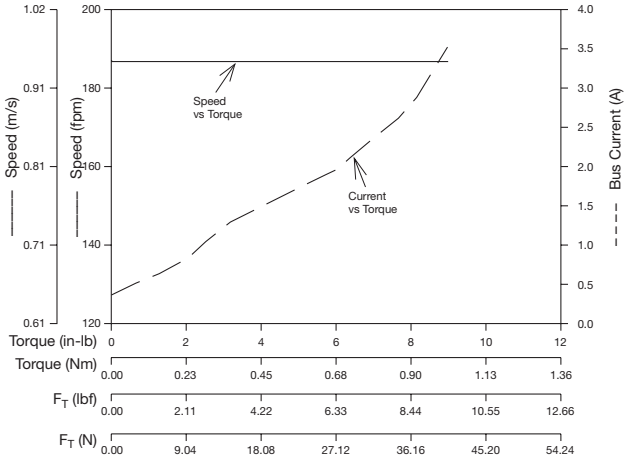
EC200 (DriveControl) Electronic Data

Nominal supply voltage	24 VDC
Supply voltage range	18-30 VDC
Rated current	3.0 A
Rated Power Output	50 W
Maximum continuous input current	5.5 A
Maximum reverse voltage	30 VDC

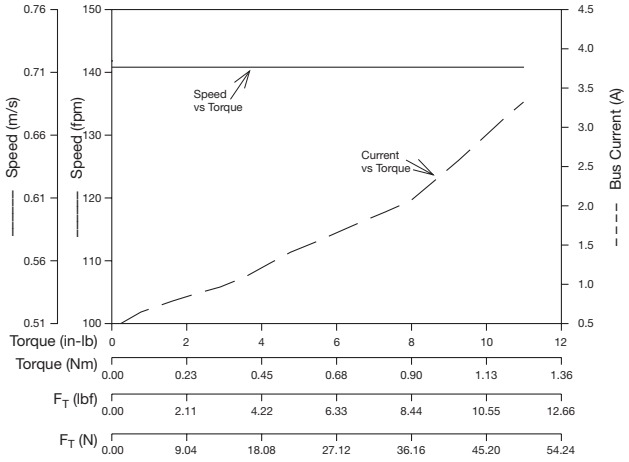
EC200 Speed/Load Performance Data:

Gear Ratio	Velocity		Torque		Tangential Force
	m/s	f/min	Nm	lbf-in	N
64	0.18	36.22	6.83	60.42	284.44
48	0.25	48.29	5.12	45.32	213.33
36	0.33	64.39	3.84	33.99	160.00
16	0.74	144.87	1.51	13.33	62.75
12	0.98	193.16	1.13	10.00	47.06

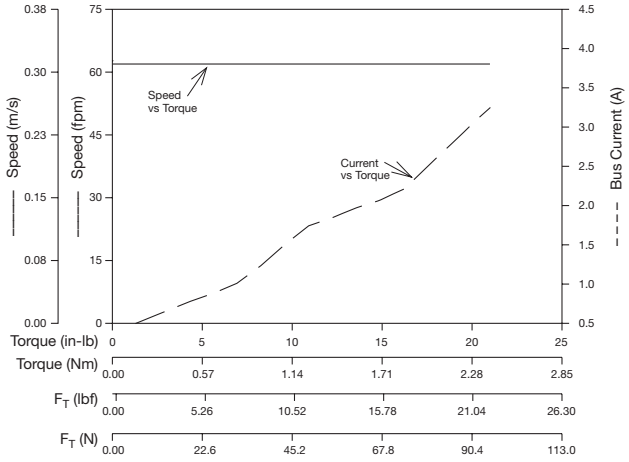
EC200
12:1 Gear Ratio
24 VDC Bus



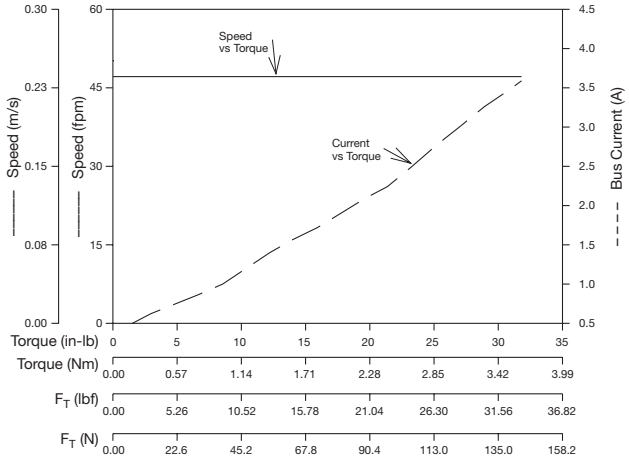
EC200
16:1 Gear Ratio
24 VDC Bus



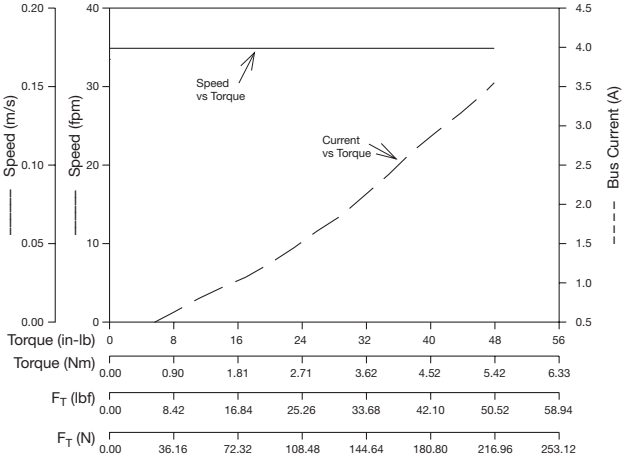
EC200
36:1 Gear Ratio
24 VDC Bus



EC200
48:1 Gear Ratio
24 VDC Bus



EC200
64:1 Gear Ratio
24 VDC Bus



NOTE:
Please refer to chart example on page 5 for instructions on torque, current and speed calculations.

Tangential Force – the force generated by a RollerDrive to move a product.

Ft = μ x m x g

Ft = Tangential Force (bf or N)
μ = Coefficient of Friction
m = Mass (Kg or lb product weight)
g = Gravity Force (2.21 lbf. or 9.81 m/s2)

Average values for the Coefficient of Friction based on transported material;

Metal:	0.015	Wood:	0.035
Plastic:	0.03	Cardboard:	0.075