

Inspired by Excellence



24V DC PRODUCTS

Roller Motor & Roller Control Card

RM50 24V DC ROLLER MOTOR

RM50 Features

- Various Drive Options
- Tapered Rollers also available
- Optional Polyurethane sleeving
- Safe low voltage
- Wide range of speeds

RM50 Benefits

- Fast Return on Investment
- No Maintenance
- Low energy consumption
- Total cost of ownership
- Less time of installation
- Roller Motor extension cable

TECHNICAL SPECIFICATIONS

Pipe Dia.	50x1.5 mm
Pipe Material	Mild Steel, Stainless Steel
Motor Shaft	Stainless Steel, 11mm Hex, Thread M12x1
Nominal Voltage	20-25 VDC
No Load Current	0.5 A
Max. Continues Current	2 A
Max. Start Current	5 A
Mechanical Performance	50 W
Noise Level	55 DB*
Min. Roller Length	270 mm (Depending on Application)
Max. No. of Start/Stop per Min.	30
Life time under nominal condition	20000
Protection Class	IP54
Ambient Temp. in Operation	0 – 40 degree
Air Humidity	5 – 85%
Features, Performance data and Mechanical performance apply to an ambient temp. of 20 degree.	
*Value can change according to installation Conditions.	

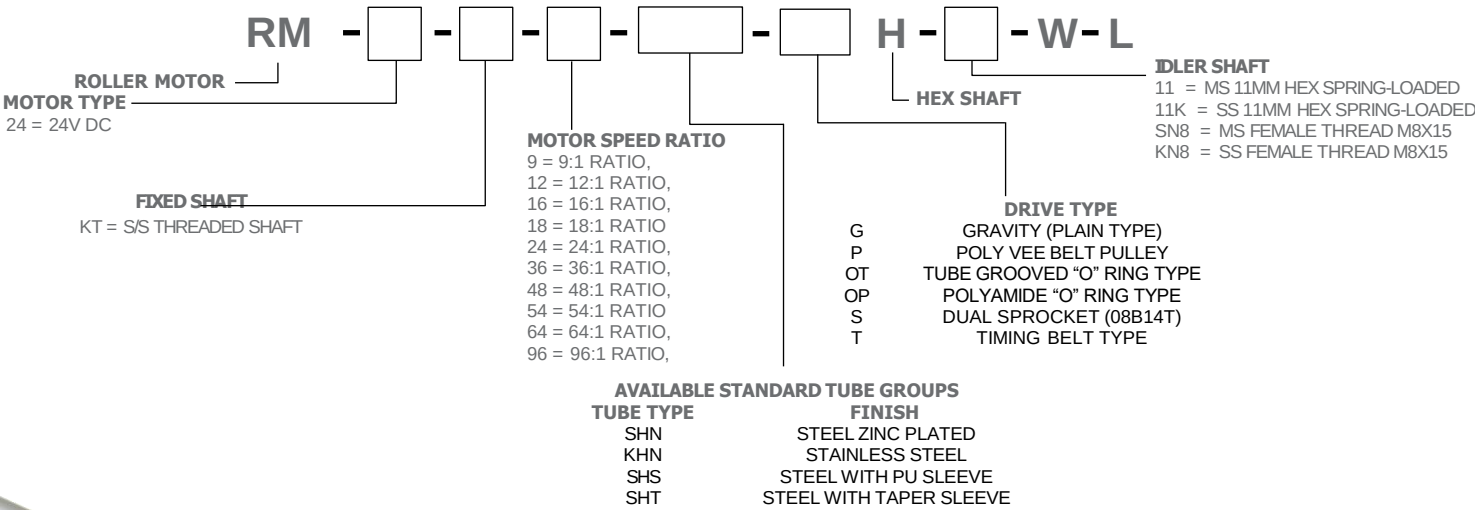
RM50 Roller Motor Performance

Gear Ratio	Speed Range (m/s)	Speed Range (m/min)	Nominal Torque (Nm)	Starting Torque (Nm)	Holding Torque (Nm)
9:1	1.95	117	0.47	1.20	0.36
12:1	1.48	88.8	0.64	1.56	0.48
16:1	1.11	66.6	0.84	1.98	0.64
18:1	0.97	58.2	0.94	2.21	0.72
24:1	0.74	44.5	1.25	2.95	0.96
36:1	0.50	30	1.85	4.40	1.44
48:1	0.37	22.2	2.47	5.90	1.92
54:1	0.33	19.8	2.77	6.63	2.12
64:1	0.28	17.0	3.30	7.95	2.56
96:1	0.18	10.8	4.88	11.75	3.84

The Conveline Roller motor RM50 is an Economical, High torque, High-performance Brushless 24V DC motor roller.

How to order

Please create a reference number with the following configurator.



RM50 Load Capacity

Length up to 1000mm without drive pulley (Straight type)	1100 N
Length from 1100mm to 1300mm without drive pulley (Straight type)	600 N
Max. Load capacity per roller with drive. Pulley (poly V, O ring, Timing belt, etc.), length up to 1300mm	350 N

RC20 ROLLER CONTROL CARD

CONVELINE RC20 ROLLER CONTROL CARD

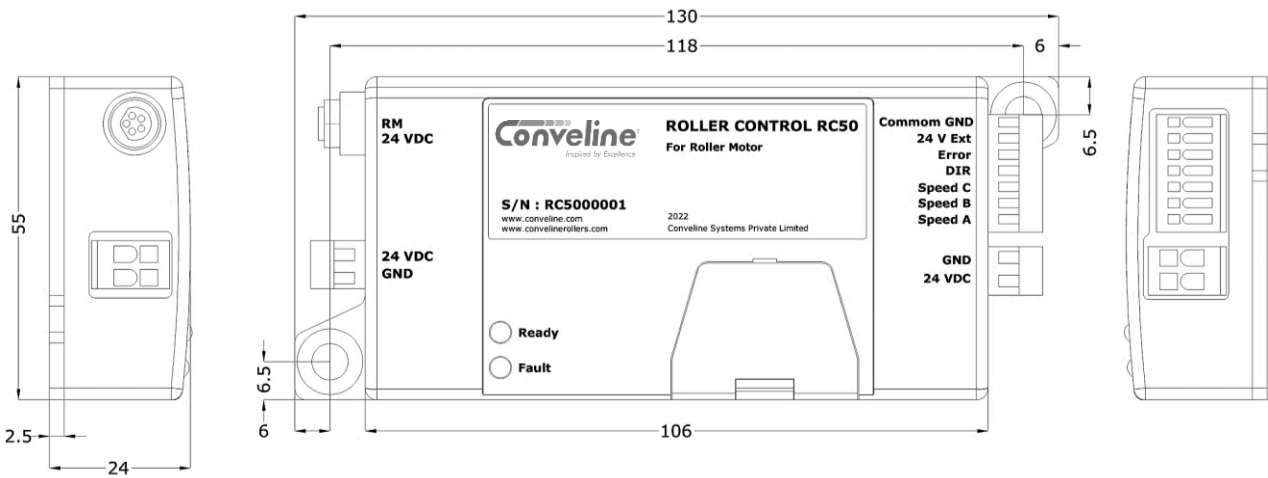
The Conveline RC20 Roller control is simple control for the Roller Motor RM50. It contains no logic (e.g. Zero pressure accumulation – ZPA) and requires external signals for operation.

To set the direction or rotation, start and breaking ramp and the speed in 15 increments, DIP switches can be great used. Digital Inputs and outputs serves as interface to a higher-level control. Signals allow adjusting the direction of rotation and speed in seven different increments.

Application Area:

- 1. Control of roller motor RM50 in applications without start – stop operation
- 2. Application with PLC but without fieldbus.

Dimensions



Technical Data RC50

Rated Voltage	24V DC
Voltage Range	20 – 25 V DC
Fuse	Present, Non-replaceable
Protection Classification	IP20
Ambient temperature in operation	0 to 40 Degree
Power Supply	Fine - wired, 1.5 mm ²
Input/Output (I/O)	Fine – wired, 0.08 to 0.5 mm ²

RC50 Features

- Speed setting (DIP switches 15x, Digital input 7x)
- Selection of direction of rotation (via. DIP switches or digital input)
- Error signal output
- Status display with LED

The Control card is powered by a brushless 24V DC motor integrated into a conveyor roller to save space.

