

Engineered Solutions

Our vision is provide our customers with comprehensive solutions. As a world-class leader in innovative solutions, we improve processes, solve problems, and reduce downtime to keep our customers moving. We accomplish this by:

- Exhibiting integrity in our workmanship
- Providing competitive products and services
- Treating all people with dignity and respect





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InfiniDrive™ Motor Driven Rollers

Part Numbers: RD48, RD50, RD57, RD60, RD63 and RD63S

UL Model Numbers: RCADU42 (RD48), RCBDU42 (RD50), RCCDU42 (RD57),

RCDDU42 (RD60), RCEDU42 (RD63) and RAEDU42 (RD63S)

CE Model Number: MDR2400

Product Overview

InfiniDrive™ Motor Driven Rollers offer the latest in motor driven roller design and are available in multiple diameters. The InfiniDrive™ Motor Driven Rollers provide exceptional reliability and eco-friendly performance at an economical price.

Connecting to Zero-Pressure-Accumulation (ZPA) driver card makes monitoring, controlling and optimizing performance easier than ever.

Standard Features

- 24VDC brushless motor (thermally protected)
- CE Certified
- UL Recognized
- Steel planetary gearbox
- ABEC precision bearings
- Zinc plated steel tube
- 7/16" hex shaft
- 400mm cable length
- JST XHP-10 pin Connector
- Maintenance-free
- Operating Environment Temperature Range of 32°F to 104°F (0°C to 40°C)



24VDC Motorized Rollers

Additional Options

- Multiple shaft configurations
- Multiple groove options
- Aluminum Poly-Ribbed Drive
- Lagging
- Mechanical brake
- Sprockets
- 1.2M or 2M cable length extensions
- Other cable connectors available

Note: Contact InfiniDrive[™] for additional options sales@infinidrivemotors.com

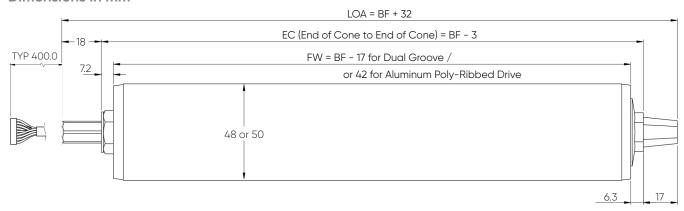


InfiniDrive™ Motor Driven Roller Specifications and Features

RCADU42 (RD48), RCBDU42 (RD50), RCCDU42 (RD57), RCDDU42 (RD60), RCEDU42 (RD63) and RAEDU42 (RD63S) Specifications and Features		
Category	Parameter	Value
Part Number	RD48/RD50/RD57/RD60/RD63/RD63S	35W InfiniDrive™ Motor Driven Rollers
	RPM	1000-4000
	Rated Output Power	35W
	Rated Torque	1 in-lbs @ 3631 RPM (*motor only)
	Rated Current	2.8 Amps @ rated torque
Performance	Max Torque	See performance data table
	Max Current	3.0 Amps (intermittent only)
	Duty Cycle	100% @ 40°C (104°F)
	Service Factor	1.0
	Direction of Rotation	CW and CCW
Environmental	Operating Temperature	0 to 40°C (32 to 104°F)
	Voltage	24VDC (+5%/-10%)
Electrical Power	Current Consumption	40 mA while idle (no run signal provided)
	Termination	JST connector: XHP-10

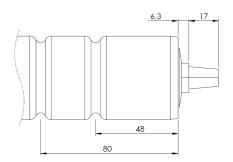
RD48 and RD50 Dimensional Footprint

Dimensions in mm



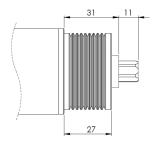
Standard Dual Groove Location for O-Ring

Dual Groove FW = (BF - 17)



Aluminum Poly-Ribbed Drive

Poly-Ribbed FW = (BF - 42)





RD48 and RD50 Part Number System

1	2	3	4	5	6	7	8	9	10
RC	A	D042	G	0500	HTS	12	K	0	X

1

#	Туре
DC	Roller
RC	Carbon Steel

2

#	Diameter
Α	48mm
В	50mm

3

#	Source & Power
D000	ldler*
D032	22W**, 24VDC
D042	35W, 24VDC
DU42	35W, 24V DC, UL
DB32	22W, 24VDC, Brake**
DB42	35W, 24VDC, Brake

7

4

#	Tube & Face
С	Sprocket*
G	Two Standard 3/16"
	O-ring Grooves
Н	Two Standard 1/4"
	O-ring Grooves
J	Two Deep 3/16"
	O-ring Grooves
Κ	Two Deep 1/4"
	O-ring Grooves
N	No Grooves
Р	Aluminum
	Poly-Ribbed Drive***
D	Special Drawing*

5

#	Between
π	Frames in mm
0316	Minimum
1270	Maximum

Note: Contact InfiniDrive™ for BF greater than 1270mm. 6

#	Shaft Options
HNA	7/16" Hex, Aluminum
	FE: Spring-Loaded
	ME: Non-Threaded***
HNS	7/16" Hex
	FE: Spring-Loaded
	ME: Non-Threaded
HTS	7/16" Hex
	FE: Spring-Loaded
	ME: Threaded
DDD	Special Drawing*

Note: FE = Free End, ME = Motor End

#	Gearbox Reduction
XX	Idler
04	4:1
05	5:1
09	9:1
12	12 : 1
16	16 : 1
27	27 : 1
36	36:1
48	48:1
64	64:1

8

#	Drumshell Finish
Α	Standard Zinc Finish
В	Black Rubber, 1/8" Thick
Κ	PU Sleeve, 1/8" Thick
Р	PVC Coating, 1/32" Thick
R	Linatex Rubber, 1/8" Thick
Т	Soft PU Tapered Sleeve*
U	Molded PU, 1/8" Thick
W	White FDA Rubber, 1/8" Thick
Χ	Not Applicable
D	Special Drawing*

9

#	Cable Length
Χ	Idler, no motor or cable
0	400mm Standard Cable
D	Special w

10

#	Specials
Α	Aluminum Dual Bearing Housings Both Ends,
	Spring-Loaded Straight Hex Free-End
D	Drawing Required for Full Description of Unit
Χ	Plastic End Housings Both Ends,
	Spring-Loaded Tapered Hex Free-End

^{*}Part Number Must End in "D"-Drawing Required

^{**}Contact sales for 22W speed, torque and BF options

^{***}Part Number Must End in "A"



RD48 and RD50 Performance Data

	InfiniDrive™ Motor Driven Roller RD48							
Power Watts	Outside Diameter	Gearbox Stages	Gear Ratio	Velocity FPM (m/s)	Tangential Force lbs. (N)	Starting Torque in-lbs. (Nm)	Nominal Amps	
		1	4:1	124 - 465 (.63 -2.36)	4.28 (19.0)	25.0 (2.82)		
		1	5:1	99 - 372 (.50 -1.89)	5.35 (23.8)	31.2 (3.52)		
	5 48		9:1	55 - 207 (.28 - 1.05)	9.15 (40.7)	45.6 (5.15)]	
		2	12:1	41 - 156 (.2179)	12.2 (54.2)	50.0 (5.64)		
35			16:1	32 - 116 (.1659)	16.2 (72.3)	81.5 (9.20)	2.8	
			27 : 1	18 - 69 (.0935)	26.0 (115)	147 (16.6)		
		3	36 : 1	14 - 53 (.0727)	34.6 (154)	202 (22.8)		
			48 : 1	10 - 39 (.0520)	37.1 (165)	253 (28.5)		
				64 : 1	8 - 30 (.0415)	43.3 (192)	334 (37.7)	

Table R1 35W Performance Data For RD48

	InfiniDrive™ Motor Driven Roller RD50						
Power Watts	Outside Diameter	Gearbox Stages	Gear Ratio	Velocity FPM (m/s)	Tangential Force lbs. (N)	Starting Torque in-lbs. (Nm)	Nominal Amps
	50	1	4:1	129 - 484 (.66 -2.46)	4.11 (18.2)	25.0 (2.82)	
			5:1	104 - 387 (.53 -1.97)	5.14 (22.8)	31.2 (3.52)	
		2	9:1	57 - 215 (.29 - 1.09)	8.78 (39.0)	45.6 (5.15)	
			12 : 1	43 - 162 (.2282)	11.7 (52.1)	50.0 (5.64)	
35			16 : 1	33 - 121 (.1761)	15.6 (69.4)	81.5 (9.20)	2.8
			27 : 1	18 - 72 (.0936)	24.9 (111)	147 (16.6)	
		3	36:1	14 - 55 (.0728)	33.2 (148)	202 (22.8)	
			48:1	10 - 41 (.0521)	35.6 (158)	253 (28.5)	
			64 : 1	8 - 31 (.0416)	41.6 (185)	334 (37.7)	

Table R2 35W Performance Data For RD50

Important Safety Disclaimers



Failure to install or operate this device according to these standards may result in a safety hazard.

Environmental Specifications

Altitude: 5,300 Feet / 1.6Km

Relative Humidity: 5-95% non-condensing

Pollution Degree: 2

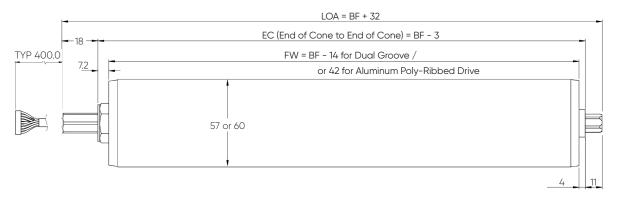


InfiniDrive™ Motor Driven Roller Specifications and Features

RCADU42 (RD48), RCBDU42 (RD50), RCCDU42 (RD57), RCDDU42 (RD60), RCEDU42 (RD63) and RAEDU42 (RD63S) Specifications and Features				
Category	Parameter	Value		
Part Number	RD48/RD50/RD57/RD60/RD63/RD63S	35W InfiniDrive™ Motor Driven Roller		
	RPM	1000-4000		
	Rated Output Power	35W		
	Rated Torque	1 in-lbs @ 3631 RPM (*motor only)		
	Rated Current	2.8 Amps @ rated torque		
Performance	Max Torque	See performance data table		
	Max Current	3.0 Amps (intermittent only)		
	Duty Cycle	100% @ 40°C (104°F)		
	Service Factor	1.0		
	Direction of Rotation	CW and CCW		
Environmental	Operating Temperature	0 to 40°C (32 to 104°F)		
	Voltage	24VDC (+5%/-10%)		
Electrical Power	Current Consumption	40 mA while idle (no run signal provided)		
	Termination	JST connector: XHP-10		

RD57 and RD60 Dimensional Footprint

Dimensions in mm

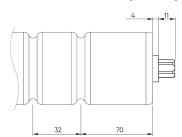


Between Frames (BF) Minimum					
Power Roller	Motor	Gearbox Stages			
Configuration	Туре	1	2	3	
Aluminum No Groove End Housing	35W	317	330	343	
Aluminum Dual Groove End Housing	35W	417	430	443	
Aluminum Poly-Ribbed End Housing	35W	348	361	374	

Table R3 RD57 and RD60 Min. BF

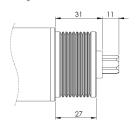
Standard Dual Groove Location for O-Ring

Dual Groove FW = (BF - 14)



Aluminum Poly-Ribbed Drive

Poly-Ribbed FW = (BF - 42)





RD57 and RD60 Part Number System

1 2 3 4 5 9 10 6 7 8 **RC** C D042 G 0500 **HNA** 27 0 Α

1

#	Type
RC	Roller
RC	Carbon Steel

Diameter
C 57mm
D 60mm

2

Source & Power

D000 | Idler*

D042 | 35W, 24VDC

DB42 | 35W, 24VDC, Brake

DU42 | 35W, 24VDC, UL

7

4

#	Tube & Face
С	Sprocket*
G	Two Standard 3/16"
	O-ring Grooves
Τ	Two Standard 1/4"
	O-ring Grooves
J	Two Deep 3/16"
	O-ring Grooves
Κ	Two Deep 1/4"
	O-ring Grooves
Ν	No Grooves
Р	Aluminum
	Poly-Ribbed Drive
J	Special Drawing

5

#	Between
#	Frames in mm
0317	Minimum
1270	Maximum

Note: Contact InfiniDrive™ for BF greater than 1270mm. 6

#	Shaft Options
DSA	12mm Double-D
	FE: Spring-Loaded
	ME: Non-Threaded
HNA	7/16" Hex, Aluminum
	FE: Spring-Loaded
	ME: Non-Threaded
HTA	7/16" Hex, Aluminum
	FE: Spring-Loaded
	ME: Threaded
SNA	12mm Semi-circle
	FE: Spring-Loaded
	ME: Non-Threaded
DDD	Special Drawing
Nata Fra	a and (FF) master and (MF)

Note: Free end (FE), motor end (ME)

#	Gearbox Reduction
XX	Idler
04	4:1
05	5:1
09	9:1
12	12 : 1
16	16 : 1
27	27 : 1
36	36:1
48	48:1
64	64 : 1

9 10

#	Drumshell Finish
Α	Standard Zinc Finish
В	Black Rubber, 1/8" Thick
K	PU Sleeve, 1/8" Thick
Р	PVC Coating, 1/32" Thick
R	Linatex Rubber, 1/8" Thick
U	Molded PU, 1/8" Thick
W	White FDA Rubber, 1/8" Thick
Χ	Not Applicable
П	Special Drawing

#	Cable Length
Χ	Idler, no motor or cable
0	400mm Standard Cable
D	Special

#	Specials
А	Aluminum Dual Bearing Housings Both Ends,
	Spring-Loaded Free-End
D	Drawing Required for full description of unit

^{*}Part Number Must End in "D"-Drawing Required



RD57 and RD60 Performance Data

	InfiniDrive™ Motor Driven Roller RD57									
Power Watts	Outside Diameter	Gearbox Stages	Gear Ratio	Velocity FPM (m/s)	Tangential Force lbs. (N)	Starting Torque in-lbs. (Nm)	Nominal Amps			
		1	4:1	147 - 552 (.75 - 2.80)	3.60 (16.0)	25.0 (2.82)				
	57	'	5:1	118 - 441 (.59 - 2.24)	4.50 (20.0)	31.2 (3.52)]			
		2	9:1	65 - 245 (.33 - 1.25)	7.70 (34.2)	45.6 (5.15)]			
			12 : 1	49 - 185 (.2594)	10.2 (45.7)	50.0 (5.64)				
35			16 : 1	37 - 138 (.1970)	13.7 (60.9)	81.5 (9.20)	2.8			
							27 : 1	21 - 82 (.1142)	21.9 (97.4)	147 (16.6)
		7	36 : 1	16 - 63 (.0832)	29.2 (130)	202 (22.8)				
		3	48 : 1	12 - 47 (.0624)	31.2 (139)	253 (28.5)				
			64 : 1	9 - 35 (.0518)	36.5 (162)	334 (37.7)]			

Table R4 35W Performance Data For RD57

	InfiniDrive™ Motor Driven Roller RD60										
Power Watts	Outside Diameter	Gearbox Stages	Gear Ratio	Velocity FPM (m/s)	Tangential Force lbs. (N)	Starting Torque in-lbs. (Nm)	Nominal Amps				
		1	4:1	155 - 581 (.79 -2.95)	3.42 (15.2)	25.0 (2.82)					
		'	5:1	124 - 465 (.63 -2.36)	4.28 (19.0)	31.2 (3.52)					
	60	2	9:1	69 - 258 (.35 - 1.31)	7.32 (32.5)	45.6 (5.15)					
			2	2	2	2	2	12:1	52 - 194 (.2699)	9.76 (43.4)	50.0 (5.64)
35			16:1	39 - 145 (.2074)	13.0 (57.8)	81.5 (9.20)	2.8				
			27:1	22 - 86 (.1144)	20.8 (92.5)	147 (16.6)					
		_	36 : 1	17 - 66 (.0934)	27.7 (123)	202 (22.8)					
		3	48 : 1	13 - 52 (.0726)	29.6 (132)	253 (28.5)					
				64:1	10 - 37 (.0519)	34.7 (154)	334 (37.7)				

Table R5 35W Performance Data For RD60



Product Overview

The InfiniDrive™ Motor Driven Roller RD63 is designed for your heavy load live roller and lightweight belt conveyor applications. The 24VDC oil-free roller comes standard with steel planetary gearing—providing substantial torque. It's square counterpart, the RD63S, is also available for modular applications. Our assortment of driver cards allows you to easily control the start, stop, speed and functions of the powered roller.



Pallet Handling

The RD63 is also chain drive compatible.

ANSI #40-50 & 60 chain sprockets are available to retro-fit your existing design. The 11/16" hex spring-loaded free end makes for easy installation into your conveyor frame.

Standard Features

- 24V Brushless DC motor (thermally protected)
- CE Certified
- UL Recognized
- Steel lubricated planetary gears
- ABEC precision bearings
- Carbon steel drum shell
- Aluminum end housing
- 11/16" hex shaft
- 1M cable length
- JST XHP-10 pin Connector
- Oil and maintenance free
- Operating Environment Temperature Range of 32°F to 104°F (0°C to 40°C)

Between Frames (BF) Minimum Dimensions in mm				
	Motor		rbox ges	
Configuration	Туре	2	3	
RD63 Round	35W	442	455	
RD63 Aluminum Poly-Ribbed End Housing	35W	464	477	
RD63S Square	35W	411	424	

Table R6 RD63 and RD63S Min. BF

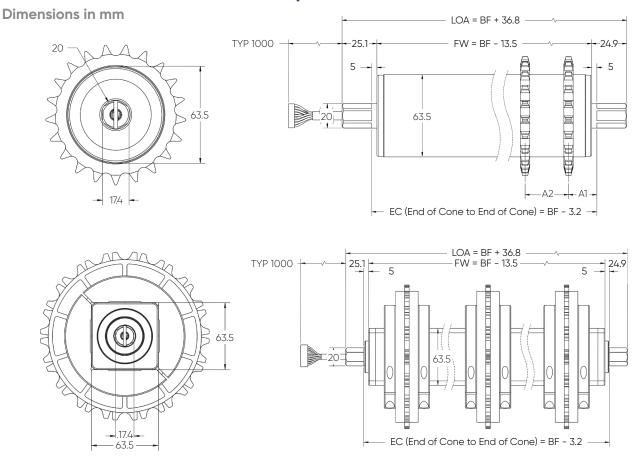




InfiniDrive™ Motor Driven Roller Specifications and Features

RCADU42 (RD48), RCBDU42 (RD50), RCCDU42 (RD57), RCDDU42 (RD60), RCEDU42 (RD63) and RAEDU42 (RD63S) Specifications and Features					
Category	Parameter	Value			
Part Number	RD48/RD50/RD57/RD60/RD63/RD63S	35W InfiniDrive™ Motor Driven Roller			
	RPM	1000-4000			
	Rated Output Power	35W			
	Rated Torque	1 in-lbs @ 3631 RPM (*motor only)			
	Rated Current	2.8 Amps @ rated torque			
Performance	Max Torque	See performance data table			
	Max Current	3.0 Amps (intermittent only)			
	Duty Cycle	100% @ 40°C (104°F)			
	Service Factor	1.0			
	Direction of Rotation	CW and CCW			
Environmental	Operating Temperature	0 to 40°C (32 to 104°F)			
	Voltage	24VDC (+5%/-10%)			
Electrical Power	Current Consumption	40 mA while idle (no run signal provided)			
	Termination	JST connector: XHP-10			

RD63 and RD63S Dimensional Footprint





RD63 and RD63S Part Number System

1	2	3	4	5	6	7	8	9	10	
RC	Е	D042	F	0500	HNA	27	Α	1	Α	Ì

1

#	Туре
RC	Round Roller
RC	Carbon Steel
RA	Square Roller
KA	Aluminum

2

#	Diameter
Е	63mm

3

#	Source & Power
D000	ldler*
D042	35W, 24VDC
DU42	35W, 24VDC, UL

4

#	Tube & Face
С	Chain Sprocket*
F	Flat Face Round
Μ	Modular Sprocket**
Р	Aluminum
	Poly-Ribbed Drive
Т	Trapezoidal Crown
D	Special Drawing

5

#	Between Frames in mm	
0411	Minimum	
1270	Maximum	

Note: Contact InfiniDrive™ for BF greater than 1270mm. 6

#	Shaft Options
DNA	20mm Double-D
	FE: Non-Spring-Loaded
	ME: Non-Threaded***
HNA	11/16" Hex, Aluminum
	FE: Spring-Loaded
	ME: Non-Threaded
HTA	11/16" Hex, Aluminum
	FE: Spring-Loaded
	ME: Threaded
DDD	Special Drawing
=	. (==)

Note: Free end (FE), motor end (ME)

7

	•					
#	Gearbox Reduction					
XX	Idler					
09	9:1					
12	12 : 1					
16	16:1					
27	27 : 1					
36	36 : 1					
48	48 : 1					
64	64 : 1					

8

#	Drumshell Finish
Α	Standard Zinc Finish
В	Black Rubber, 1/8" Thick
U	Standard Aluminum Finish**
Κ	PU Sleeve, 1/8" Thick
Р	PVC Coating, 1/32" Thick
R	Linatex Rubber, 1/8" Thick
U	Molded PU, 1/8" Thick
W	White FDA Rubber, 1/8" Thick
Χ	Not Applicable
D	Special Drawing*

9

#	Cable Length					
Χ	Idler, no motor or cable					
1	1M Standard Cable					
D	Special*					

#	Specials
Α	Aluminum Dual Bearing Housings Both Ends
D	Drawing Required for full description of unit*

10

^{*}Part Number Must End in "D"-Drawing Required

^{**}Only available option for part numbers starting with "RA"

^{***}Not available for parts numbers starting with "RA"



RD63 and RD63S Performance Data

	InfiniDrive™ Motor Driven Roller RD63							
Power Watts	Outside Diameter	Gearbox Stages	Gear Ratio	Velocity FPM (m/s)	Tangential Force lbs. (N)	Starting Torque in-lbs. (Nm)	Nominal Amps	
	63		9:1	72-271 (.37-1.38)	6.97 (31.0)	45.6 (5.15)		
		2	12:1	54-204 (.28-1.04)	9.29 (41.3)	50.0 (5.64)		
			16 : 1	41-152 (.2177)	12.4 (55.1)	81.5 (9.20)		
35		63	27 : 1	23-90 (.1246)	19.8 (88.1)	147 (16.6)	2.8	
			36:1	18-70 (.0935)	26.4 (117)	202 (22.8)		
			48:1	13-52 (.0726)	29.7 (132)	253 (28.5)		
				64 : 1	10-39 (.0520)	34.7 (154)	334 (37.7)	

Table R7 35W Performance Data for RD63 Round

	InfiniDrive™ Motor Driven Roller RD63S							
Power Watts	Outside Diameter	Gearbox Stages	Gear Ratio	RPM Square	Rated Torque in-lbs. (Nm)	Starting Torque in-lbs. (Nm)	Nominal Amps	
	63		9:1	116 - 507	8.6 (.97)	45.6 (5.15)		
			12:1	87 - 380	11 (1.30)	50.0 (5.64)	2.8	
			16 : 1	65 - 285	15 (1.74)	81.5 (9.20)		
35			27 : 1	39 - 169	24 (2.77)	147 (16.6)		
			36:1	29 - 127	32 (3.70)	202 (22.8)		
		3	48:1	22 - 95	35 (3.96)	253 (28.5)		
			64 : 1	17 - 72	41 (4.63)	334 (37.7)		

Table R8 35W Performance Data for RD63S Square

Feet Per Minute (FPM) = .2618 x Diameter x RPM



GM48 Gear Motor

Part Numbers: GM48

UL Model Numbers: GMADU42 CE Model Number: MDR2400

Product Overview

The **GM48 Gear Motor** is a simple and robust design using the same motor and gear reducer components that drive InfiniDrive™ Motor Driven Rollers.

Gear motor features include four pre-drilled mounting holes for ease of installation, a protective shell to shield motor and gearbox from environmental contaminants, strain relief cable, and a drilled and tapped keyed drive shaft.

Features

- 35W 24VDC brushless motor (thermally protected)
- CE Certified
- UL Recognized
- Steel planetary gearbox
- ABEC precision bearings
- Zinc plated steel tube
- 400mm cable length
- JST XHP-10 pin Connector
- Maintenance-free
- Operating Environment Temperature Range of 32°F to 104°F (0°C to 40°C)



24VDC GM48 Gear Motor

Performance Data

Gear Motor						
Gear Ratio	Rated Torque in-lbs. (Nm)	Starting Torque in-lbs. (Nm)				
9:1	8.6 (.97)	45 (5.15)				
12 : 1	11 (1.30)	50 (5.64)				
16 : 1	15 (1.74)	81 (9.20)				
27 : 1	24 (2.77)	147 (16.6)				
36:1	32 (3.70)	202 (22.8)				
48:1	35 (3.96)	253 (28.5)				
64 : 1	41 (4.63)	334 (37.7)				

Table G1 Gear Motor Performance

Gear Ratio	Minimum RPM	Maximum RPM
9:1	111	444
12:1	83.3	333
16 : 1	62.5	250
27:1	37.0	148
36:1	27.8	111
48:1	20.8	83.3
64:1	15.6	62.5

Table G2 Gear Motor Velocity

Feet Per Minute (FPM) = .2618 x Diameter x RPM

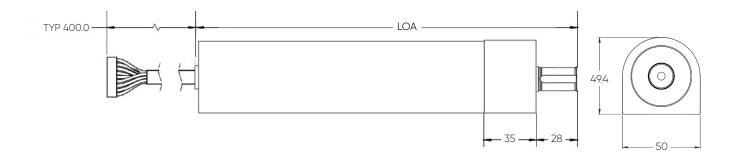


Specifications and Features

GMADU42: GM48 Specifications and Features					
Category	Parameter	Value			
Part Number	GM48	Gear Motor			
	RPM	1000-4000			
	Rated Output Power	35W			
	Rated Torque	1 in-lbs @ 3631 RPM (*motor only)			
	Rated Current	2.8 Amps @ rated torque			
Performance	Max Torque	See Gear Motor Performance table on page 15			
	Max Current	3.0 Amps (intermittent only)			
	Duty Cycle	100% @ 40°C (104°F)			
	Service Factor	1.0			
	Direction of Rotation	CW and CCW			
	Ambient Temperature	0 to 40°C (32 to 104°F)			
For decrease and all	Ambient Humidity	5-95% RH (no condensation)			
Environmental	Storage	-30 to 70°C (-22 to 158°F)			
	Sealing	IP54			
	Voltage	24VDC (+5%/-10%)			
Electrical Power	Current Consumption	40 mA while idle (no run signal provided)			
	Termination	JST connector: XHP-10			

Gear Motor Dimensional Footprint

Dimensions in mm

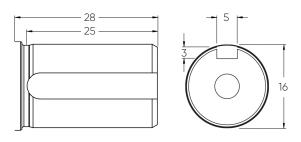


Gearbox Reduction Stages		Length Overall 35W
9:1, 12:1, 16:1	2	260.2
27:1, 36:1, 48:1, 64:1	3	273.2



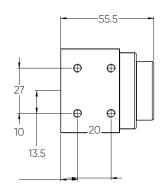
Drive Shaft Keyway

5 N9 keyway with M6x1 drilled and tapped center



Mounting

(4) Drilled and tapped M5x.8 holes on 20mm x 27mm pattern



Part Number System

GM48 Gear Motor

1	2	3	4	5	6	7	8	9	10
GM	Α	D042	S	0000	GMO	16	Α	0	Α

Type
GM Gear Motor

	2
#	Diameter
Α	48mm

#	Source & Power
D042	35W, 24VDC
DU42	35W, 24VDC, UL
DB32	22W, 24VDC, Brake**
DB42	35W, 24VDC, Brake**

3

Tube & Face
S Shaft Output

5			
#	Between		
#	Frames in mm		
0000	Gear Motor		

0		
#	Shaft	
GMO	Gear Motor Output	

Gearbox Reduction
9:1
12:1
16 : 1
27 : 1
36:1
48 : 1
64 : 1

7

Drumshell Finish
A Standard Zinc Finish

#	Cable Length	
0	400mm Standard Cable	
D	Special	

9

#	Mounting
А	Aluminum End Housing and Mounting Plate

10

^{**}Contact sales for 22W speed, torque and BF options



SlimDrive[™] Motor

Part Number: SD095

UL Model Number: FM24095

Product Overview

SlimDrive™ is the latest generation of new 24VDC brushless motor. This unique motor combines an highly efficient 24VDC brushless motor with the driver card in one package. The SlimDrive™ Motor provides 11 in.-lbs. of torque output at 360 RPM performance. The built-in driver card reduces mounting componentry.

Bearing life that extends beyond 300,000 hours is your only concern when applying SlimDrive™ in your application. Eliminating the gearbox significantly reduces the decibel level in addition to removing one of the most common failure points for any application.

Standard Features

- 24VDC brushless motor (thermally protected)
- UL Recognized
- 60 to 360 RPM
- 11 in.-lbs. torque
- 4 amp capable
- 95W output performance
- Built-in driver card allows you to connect up to 62 motors.
- Environmental Operating Temperature:
 32° F to 104° F



24VDC SlimDrive™ Motor

Controls That Make Sense SlimDrive[™] has three control options to deliver optimumal performance.

The FMTC24001 Transport Card offers the most economical solution. With this card you can connect up to sixty-two FM24095 motors in series for basic start, stop, and status indications.

The FMZP24001 ZPA Card provides additional features and control for up to two FM24095 motors. The upstream and downstream communication adds intelligence to the conveyor system.

The FMET24001 Ethernet Card provides system level control of up to sixty-three compatible FM devices via an ethernet or Wi-Fi connection, putting real-time data in the palm of your hand!

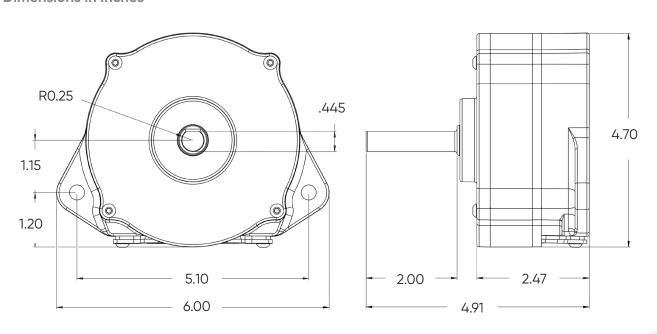


SlimDrive™ Specifications and Features

FM24095: SlimDrive™ Specifications and Features				
Category	Parameter	Value		
Part Number	FM24095	95W SlimDrive™ Motor		
	RPM	60-360 (no load)		
	Rated Torque	11 in-lbs @ 360 RPM		
	Rated Current	3 Amps @ rated torque		
Performance	Max Torque	26 in-lbs @ 60 RPM and 4 amps (intermittent only) 32 in-lb @ 60 RPM and 3 amps (intermittent only)		
	Max Current	4 Amps (intermittent only)		
	Duty Cycle	100% @ 50°C (122°F), 3 Amps, 360 RPM, 11 in-lbs 50% @ 50°C (122°F), 3 Amps, 180 RPM, 18 in-lbs		
	Ambient Temperature	-10 to 50°C (14 to 122°F)		
Fording	Ambient Humidity	10-90% (no condensation)		
Environmental	Storage	-30 to 70°C (-22 to 158°F)		
	Sealing	IP32		
	Voltage	24VDC (+/- 10%)		
Electrical Power	Current Consumption	200 mA while idle (no run signal provided)		
	Termination	Phoenix Order #1757019 (26 to 16 AWG)		
Sensor Input/	CAT6	RJ45 T-568A or T-568B		
Output	Number	2		

$\textbf{SlimDrive}^{\text{\tiny{m}}} \ \textbf{Dimensional Footprint}$

Dimensions in Inches





C100 Series Basic Driver Cards

Part Numbers: C100B, C100DB, C101BU and C102B

UL Model Numbers: CB2435 (C101BU) ONLY

CE Model Number: MDR2400

Product Overview

The C100 Series of Basic Driver Card connect directly to any 24VDC InfiniDrive™ Motor Driven Roller or gear motor. These cards use a microprocessor to commutate the BLDC motor. The on-board DIP switches provide specialized controls that vary based on the cards part number. See the table below.



MDR2400 C100B Basic Driver Card

Feature Comparison

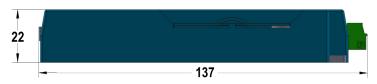
	Feature Comparison By Part Number	er for C100 Serie	es Basic Driver C	Cards	
Category	Parameter	C100B	<u>C100DB</u>	<u>C101BU</u>	<u>C102B</u>
Compliance	UL Recognized	No	No	Yes	No
Compliance	CE Certified	Yes	Yes	No	Yes
	Internal Potentiometer	Yes	Yes	Yes	Yes
	External PLC	Yes	Yes	Yes	Yes
Speed Control	Digital Speed Input	No	Yes	No	No
	Ramp-up/Ramp-down Potentiometer	Yes	Yes	Yes	Yes
	RPM Output Range	1000-4000	1000-4000	1000-4000	1000-3400
	DIP 1	Wattage	Wattage	UL Mode	Elec. Brake
On-Board	DIP 2	Amp Boost	Mech. Brake	Elec. Brake	Mech. Brake
Configuration Options	DIP 3	Direction	Direction	Direction	Direction
	DIP 4	Auto-Reset	Auto-Reset	Auto-Reset	Auto-Reset
	DIP 5-8	Speed	Speed	Speed	Speed
M (0)	Motor Voltage	24VDC	24VDC	24VDC	24VDC
Motor Connection	Motor Wattage Supported	22W + 35W	22W + 35W	35W	22W
Environmental	Operating Temperature	0 to 40°C	0 to 40°C	0 to 40°C	0 to 40°C
T	Motor Connection	JST XHP-10	JST XHP-10	JST XHP-10	JST XHP-10
Terminals	1/0	6 Pin	2 Pin + 7 Pin	2 Pin + 4 Pin	6 Pin



C100 Series Basic Driver Card Dimensional Footprint

Dimensions in mm





Mounting Dimensions: 4.5mm max holes at 40mm x 120mm pattern

Setup and Troubleshooting

For more information about operating and troubleshooting the C100 Basic Driver Cards, please consult the manual. The manual includes DIP configurations, speed settings, I/O wiring instructions, and error code information.



Compliance

All C100 Series Basic Driver Cards are CE certified. *However, only the C101BU is UL recognized*. Safety and compliance information can be found via the link.



Basic Driver Card UL Documentation

Part Numbers: CB2435/MDR2400C101BU

UL Model Numbers: C101BU CE Model Number: MDR2400

Specifications

	CB2435: C101BU C	perating Speci	fications		
Category	Parameter	Min	Typical	Max	Units
Comple Dance	Voltage	21.6	24.0	25.2	VDC
Supply - Power	Current	0.2	3,0	4.8	Amps
Outputs	Digital Outputs Sinking			5	milli Amps
	Analog Input Reading Range 1	0		10	VDC
	Analog Input Safe Operation	0		12	VDC
	Digitol inputs	0		28	VDC
Inputs	On NPN	0		10	VDC
	Ch PNP	14		28	VDC
	Off	0		6	VDC
	Off - Open Circuit				
Environmental	Operating Temperature	0°C (32°F)		40°C (104°F)	Degrees
	Who Sim	28	22	76	AWG
Terminois-L/O	Torque (Metric)		0.20		Newton Meters
	Torque Empedali		1,80		Pound-Inches
	Wire Size	22	20	16	AWG
Terminals - Power	Torque Metrici		0.20		Newton Meters
	Torque (Imperial)		1.90		Pound-Inches

*Not leolated



Basic Driver Card Indications and Faults

Part Numbers: C100B, C101BU, C102B

UL Model Numbers: C101BU CE Model Number: MDR2400

Indications

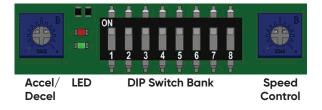
There are two LEDs (red and green) on the C100 series driver cards. Whenever 24V DC power is applied and the driver is functioning normally, the STATUS LED will display solid green. If 24V DC is present and the STATUS LED is not on then the driver needs to be replaced. Solid red or flashing red indicates a Fault.

Faults

Two types of faults are displayed on the basic driver card: Application and Critical Faults cause the motor to stop running and may require intervention.

Application Faults result in Red Flashes as indicated by Table B7.

If the motor thermistor or the driver card thermistor senses that the motor is overheating, the driver card will restrict power to the motor. If the **Reset Mode** (DIP Switch 4) is set to OFF then the power to the driver card must be cycled to reset. If the **Reset Mode** is set to ON and the motor is in an overtemp condition, then the driver card will automatically attempt to reset the motor after the motor cools to a temperature below the over-temp limit. If the **Reset Mode** is set to ON, in the event of a stall, the basic driver card will attempt to restart the InfiniDrive[™] powered roller or gear motor every 10 seconds.



Flashing Red LED Status Indication

Motor stall - the driver card is trying to run the motor, yet it hasn't moved for a full second. The motor will attempt to restart after 10 seconds.

Motor Thermistor Fault - The motor has reached its temperature limit (90C) and has stopped. The motor will attempt restart every 10 seconds after it cools below the over-temp limit.

Driver Card Thermistor Fault - The driver card circuitry has reached its temperature limit (100C) and has cut off power to the roller motor. The driver card will attempt to restart the motor every 10 seconds after it cools below the overtemp limit.

Table B7 Application Faults



FMTC24001

Part Number: T100C

Model Number: FMTC24001 UL File Number: E520785

Product Overview

The FMTC24001 Transport Card is a lean machine, offering basic control functionality for up to sixty-two FM24095 motors with just a single card. This card runs on 24VDC power supplied via and I/O terminal. Four additional ports provide motor run, direction, and speed inputs, along with an output for error and run signals.



24VDC FMTC24001 Transport Card

Note: Only available for use with InfiniDrive™ 24VDC SlimDrive™ FM24095 Motor

T100C Transport Card Specifications and Features

FMTC24001: T100C Specifications and Features				
Category	Parameter	Value		
Part Number	T100C	Transport Card for SlimDrive™ FM24095		
Configuration	Control	1 card for up to 62 motors		
Options	Other Operating Controls	See manual.		
	Voltage	24VDC (+/- 10%)		
Ch.	Current	0.20 to 0.50 Amps		
Supply	Motor Voltage	24VDC		
	Motor Current	0.5 to 4.0 Amps (dependent on configuration)		
Output	Digital Output High-side	0.25 Amps		
	Analog Input for Speed ¹	0-10V DC		
	Analog Input Safe Operation	-24 to 36VDC		
	Digital Inputs ²	0 to 28VDC		
Inputs	On NPN	0 to 10VDC		
	On PNP	14 to 28VDC		
	Off	11 to 13VDC		
	Off	Open Circuit		
Environmental	Operating Temperature	0 to 60°C (32 to 140°F)		
Terminals	Power	Phoenix Order #1945015, 2 pin (26 to 16 AWG)		
reminais	I/O	Phoenix Order #1984031, 4 pin (26 to 16 AWG)		

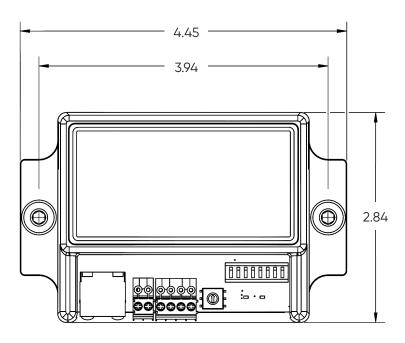
¹Not isolated

² Isolated



FMTC24001 Dimensional Footprint

Dimensions in Inches



Setup and Troubleshooting

For more information about operating and troubleshooting the **FMTC24001**, please consult the manual. The manual includes the full list of flash codes, the initialization process, procedures for replacing cards and motors, and warranty information.

Compliance

The FMTC24001 is UL listed under file number E520785 and is also CE certified. Safety and compliance information can be found via the link below:





MDR2400 - C100Z

Part Numbers: C100Z-22 and C100Z-35

Model Number: MDR2400

Product Overview

The **C100Z** is a specialized Zero-Pressure-Accumulation driver card for 24VDC InfiniDrive™ Motor Driven Rollers.

It includes 6 PNP auxiliary I/O ports, pre-programmed ZPA logic, and an auto-sensing RJ-11 quick connect.



MDR2400 C100Z-35 ZPA Card

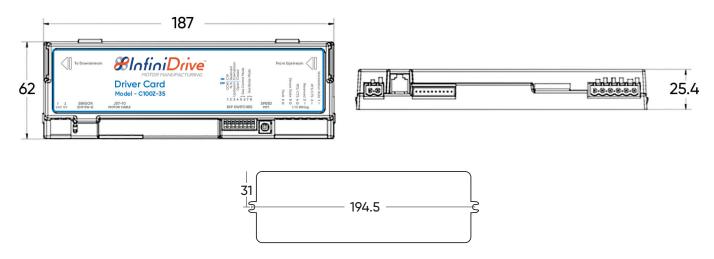
C100Z Accumulation Card Specifications and Features

MDR2400: C100Z Specifications and Features				
Category	Parameter Value			
	C100Z-22	Accumulation ZPA Card for 22W InfiniDrive™ Motor Driven Rollers		
Part Numbers	C100Z-35	Accumulation ZPA Card for 35W InfiniDrive [™] Motor Driven Rollers or Gear Motors		
Configuration	Control	1 card for each motor in configuration		
Options	Other Operating Controls	See manual.		
	Voltage	24VDC (+/- 10%)		
Supply	Current	100 milliAmps plus powered roller or gear motor, sensor, and aux I/O		
	Motor Voltage	24VDC		
	Motor Current	2.5/3.0 Amps (22W/35W)		
	Туре	Autosensing NPN or PNP		
	Termination	(1) RJ-11		
	Sensor Power Voltage	24VDC		
Sensor Input	Voltage Range	0 to 30VDC		
	Max Power Current	50 milliAmps		
	Sourcing Current	11 milliAmps		
	Sinking Current	4.3 milliAmps		
Environmental	Operating Temperature	0 to 60°C (32 to 140°F)		
Terminals	I/O	6 PNP configured as 3 IN and 3 OUT		



C100Z Dimensional Footprints

Dimensions in mm



Mounting Dimensions: 3.8mm max hole diameters on 194.5mm centers

Setup and Troubleshooting

For more information about operating and troubleshooting the **C100Z**, please consult the manual. The manual includes the full list of flash codes along with setup and wiring instructions.



EtherCAT™ Dual Zone ZPA Card

Product Overview

The C166ZB driver card is a specialized dual zone ZPA card for InifiniDrive™ Motor Driven Rollers and gear motors. This card comes equipped with EtherCAT™ for real-time data reporting. The C166ZB also easily connects to a computer or PLC for fully customizable software for precise zone control.

See local control commissioning manual for control setup instructions. Links to manuals on next page.

Standard Features

- EtherCAT™ communications (Licensed by Beckhoff)
- Direct connection for up to two motors InfiniDrive™ Motor Driven Rollers or Gear Motors
- ZPA functionality out of the box
- Data collection and reporting
- Fully customizable software
- IP67 rating
- CE Certified
- UL Recognized



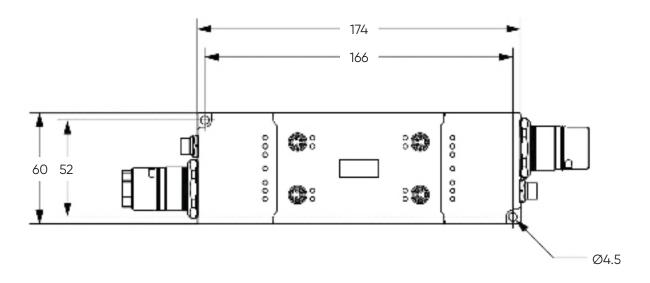
Powered by **BECKHOFF**

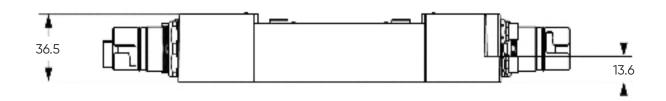
C166ZB: EtherCAT™ Dual Zone ZPA Card Specifications and Features				
Category	Parameter Value			
Part Number	C166ZB	EtherCAT [™] Dual Zone ZPA Card for (2) InfiniDrive [™] Motor Driven Rollers or Gear Motors		
Electrical Power	Termination	B23 ENP Hybrid connector		
Electrical Power	Voltage Range	24VDC (+15%/-20%)		
	Туре	InfiniDrive™ Motor Driven Rollers or Gear Motors		
Motor Connection	Number	2		
Motor Connection	Termination	(2) M8 5-Pin to JST XHP-10 Pin connector		
	Max Average Current	3.5 Amps		
	Туре	Digital Input/Output		
	Number	8		
Canaaalaaaa	Termination	(4) M8 sockets		
Sensor Input	Voltage Range	24VDC		
	Max Current	0.5 Amp, short-circuit proof		
	Sensing	PNP		
	Storage Temperature	-40° to 85° C (-40° to 185° F)		
Fan incompanyated	Operating Temperature	-25° to 60° C (-13° to 140° F)		
Environmental	Vibration and Shoch	Conforms to EN 60068-2-6 / EN 60068-2-27		
	Protection Class	IP65, IP66, IP67 conforms to EN 60529		
Control	PLC or PC	Local control. See local control commissioning manual		



EtherCAT™ Dual Zone ZPA Card Dimensional Footprint

Dimensions in mm







FMZP24001

Part Number: Z100D Model Number: UZ-NZ-2 UL File Number: E476509

US Patent Number: 10,341,135

Product Overview

The FMZP24001 ZPA Card is a dual-zone card, offering singulation controls for up to two FM24095 motors. This card runs on 24VDC power supplied via and I/O terminal. Four additional ports provide motor run, direction, and speed inputs, along with an output for error and run signals.



24V DC FMZP24001 Transport Card

Note: Only available for use with the InfiniDrive™ 24VDC SlimDrive™ FM24095 Motor

Z100D Accumulation Card Specifications and Features

FMZP24001: Z100D Specifications and Features		
Category	Parameter	Value
Part Number	Z100D	Accumulation ZPA Card for SlimDrive [™] FM24095
Configuration Options	Control	1 card for 2 motors
	Other Operating Controls	See manual.
Supply	Voltage	24VDC (+/- 10%)
	Current	0.20 to 0.50 Amps
	Motor Voltage	24VDC
	Motor Current	0.5 to 4.0 Amps (See FMET24001 Manual)
Inputs	Analog Input for speed ¹	0-10VDC
	Analog Input safe Operation	-24 to 36VDC
	Digital Inputs ²	0 to 28VDC
	On NPN	0 to 10VDC
	On PNP	14 to 28VDC
	Off	11 to 13VDC
	Off	Open Circuit
Environmental	Operating Temperature	0 to 60°C (32 to 140°F)
Terminals	Power	Phoenix Order #1945015, 2 pin (26 to 16 AWG)
	I/O	Phoenix Order #1984031, 4 pin (26 to 16 AWG)

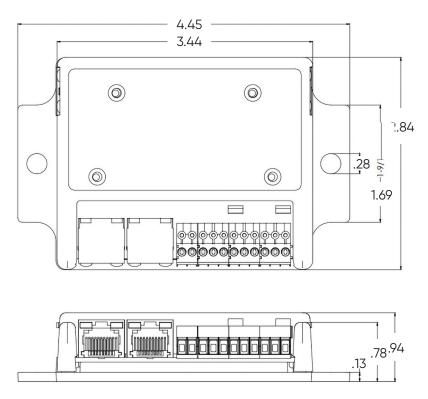
¹Not isolated

² Isolated



FMZP24001 Dimensional Footprint

Dimensions in Inches



Setup and Troubleshooting

For more information about operating and troubleshooting the FMZP24001, please consult the manual. The manual includes the full list of flash codes, setup and wiring, procedures for replacing cards and motors, auxiliary controls, and warranty information.

Compliance

The FMZP24001 is UL listed under file number E476509 and is also CE certified. Safety and compliance information can be found via the link below:







FMET24001

Part Number: FMET24001 Model Number: NZ-E-1 UL File Number: E476509 US Patent Number: 10,341,135

Product Overview

The FMET24001 Ethernet Card is an ethernet and Wi-Fi compatible control card, offering real time data and control of up to sixty-three compatible devices via the NOVAbus™ interface. This card runs on 24VDC power and is compatible with both the FMTC24001 Transport Card and SlimDrive™ FM24095 Motors.



24VDC FMET24001 Ethernet Card

Note: Only available for use with the InfiniDrive™ 24VDC SlimDrive™ FM24095 Motor

FMET24001 Ethernet Card Specifications and Features

FMET24001 Specifications and Features		
Category	Parameter	Value
Part Number	FMET24001	Ethernet Card for SlimDrive [™] FM24095
Configuration Options	Control	1 card for 63 devices
	Other Operating Controls	See manual.
Supply	Voltage	24VDC (+/- 10%)
	Current	0.20 to 0.50 Amps
	Motor Voltage	24VDC
	Motor Current	0.5 to 4.0 Amps (See FMET24001 Manual)
Inputs	Analog Input for speed ¹	0-10VDC
	Analog Input safe Operation	-24 to 36VDC
	Digital Inputs ²	0 to 28VDC
	On NPN	0 to 10VDC
	On PNP	14 to 28VDC
	Off	11 to 13VDC
	Off	Open Circuit
Environmental	Operating Temperature	0 to 60°C (32 to 140°F)
Terminals	Power	Phoenix Order #1945015, 2 pin (26 to 16 AWG)
	I/O	Phoenix Order #1984031, 4 pin (26 to 16 AWG)

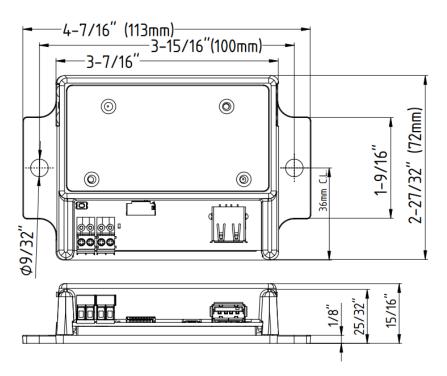
¹Not isolated

² Isolated



FMET24001 Dimensional Footprint

Dimensions in Inches and mm



Setup and Troubleshooting

For more information about operating and troubleshooting the **FMET24001**, please consult the manual. The manual includes software setup instructions, visualization modes, global commands, reporting, and warranty information.

Compliance

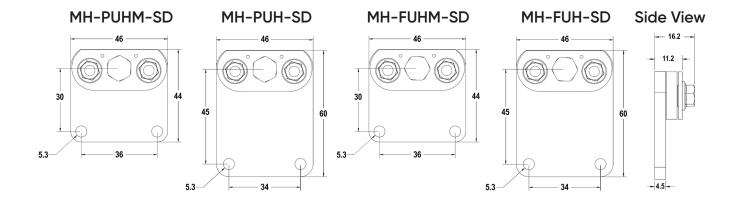
The **FMET24001** is UL listed under file number E476509 and is also CE certified. Safety and compliance information can be found via the link below:







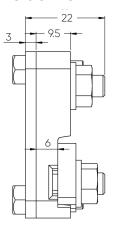
MDR 2400 - RD48 + RD50 + RD57 + RD60 InfiniDrive[™] Motor Driven Roller



MH-DD-SD

27 12 44 30 8 8 5

Side View



Connectors

Extension Cable

Available in 1.2M or 2M lengths



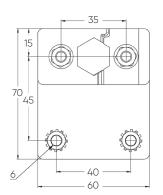


MDR 2400 - RD63 + RD 63S InfiniDrive™ Motor Driven Roller

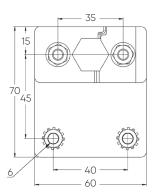
Accessories

MH-DD-HD

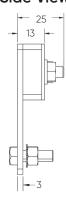
MH-PUH-HD



MH-FUH-HD



Side View

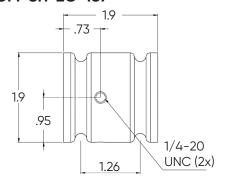


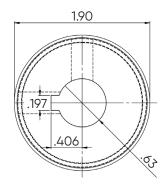


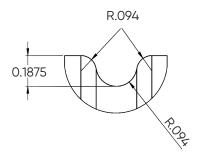
Sheaves for Gear Motor Accessories

Dimensions in Inches

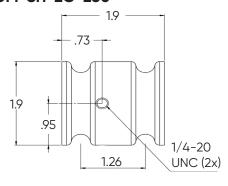
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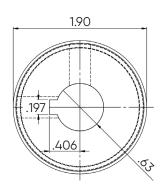


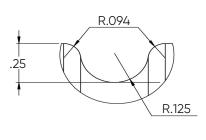




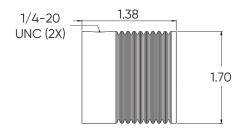
GM-SH-2G-250

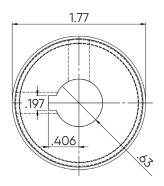


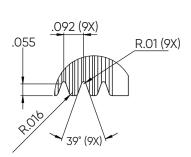




GM-SH-9V-J





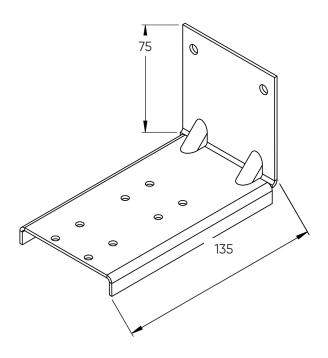


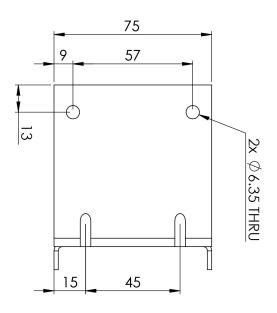


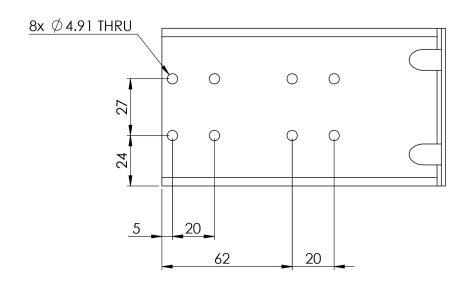
Mounting Bracket for Gear Motor Accessories

Dimensions in mm

GP-048-001







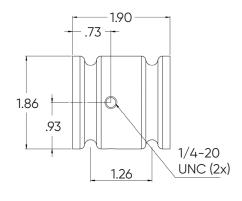


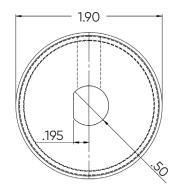
SlimDrive™ Flat Motor Accessories

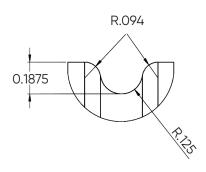
Groove Options

Dimensions in Inches

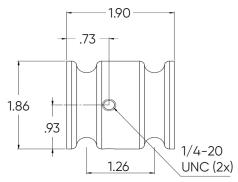
FM-SH-2G-187

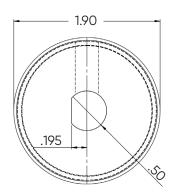


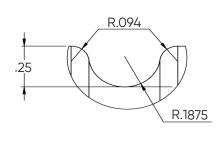




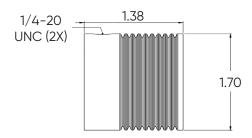
FM-SH-2G-250

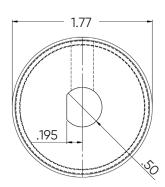


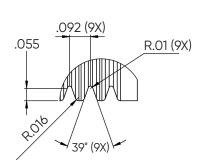




FM-SH-9V-J







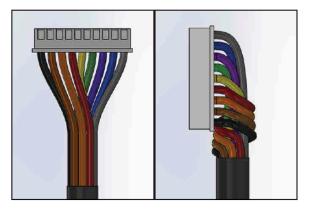


InfiniDrive[™] Motor Driven Rollers RD48 + RD50 + RD57 + RD60 + RD63

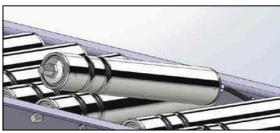
Additional Information

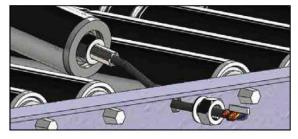
Installation Instructions—Threaded Shaft

1. Prepare motor connector for insertion by tilting 90 degrees and twisting until the wires are taut.

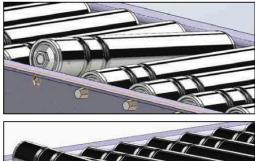


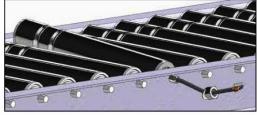
2. The first nut and lock washer come pre-installed on the shaft. Feed motor connector through the hex hole in the conveyor rail.



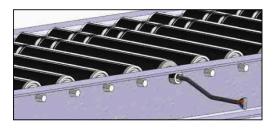


3. Depress spring-loaded shaft and insert into hex hole in opposite conveyor rail.





4. Insert wires through the second lock washer and retaining nut. Ensure the inside nut and lock washer are tight against the inside frame. Torque retaining nut to 29 ft.-lbs. for 48-60mm rollers with 7/16" hex. Torque retaining nut to 110 ft.-lbs. for RD63 rollers with 11/16" hex.



NOTE: Over-torquing and under-torquing may cause damage to InfiniDrive™ Motor Rollers.
Periodically inspect for recommended torque.

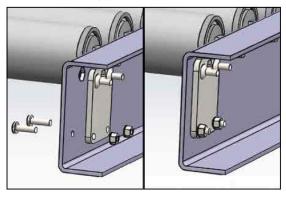


InfiniDrive™ Motor Driven Rollers RD48 + RD50 + RD57 + RD60 + RD63

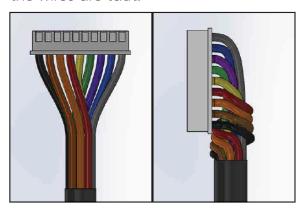
Additional Information

Installation Instructions-Non-Threaded

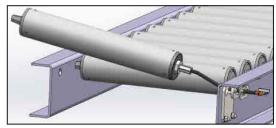
1. Align the mounting hardware with the holes in the frame and attach bracket to the conveyor rail.



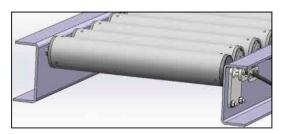
2. Prepare motor connector for insertion by tilting 90 degrees and twisting until the wires are taut.



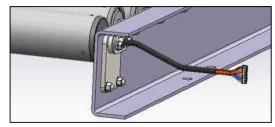
3. Feed motor connector through the hex hole in the conveyor rail, mounting hardware, and plates.

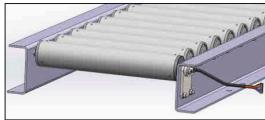


4. Depress spring-loaded shaft and insert into hex hole in opposite conveyor rail.



5. Slide plates over shaft and install nuts. Ensure the shoulder of the motorized roller is against the inside frame. Torque retaining nut to 2.2 ft.-lbs. for 48-60mmm rollers with 7/16" hex. Torque retaining nut to 6.6 ft.-lbs. for RD63 rollers with 11/16" hex.





NOTE: Over-torquing and under-torquing may cause damage to bolts, plate and frame. Periodically inspect for recommended torque.

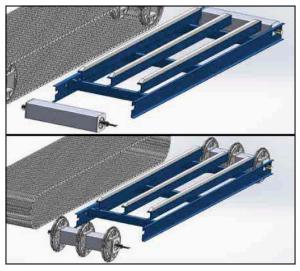


InfiniDrive™ Motor Driven Roller RD63S

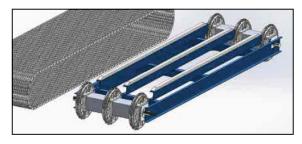
Additional Information

Installation Instructions-Modular Drive

1. Fit sprockets onto the RD63S per manufacturer recommendation.



2. Place the RD63S into the drive pulley position and secure to the conveyor frame.



3. Install the modular belt per manufacturer recommendation.



Important Safety Disclaimers



Failure to install or operate this device according to these standards may result in a safety hazard.

Environmental Specifications

Altitude: 5,300 Feet / 1.6Km

Relative Humidity: 5-95% non-condensing

Pollution Degree: 2

Mechanical Specifications

RD48 Size (OD x L): 1.90" x Between Frames (BF: 13.70" to 51.26") RD50 Size (OD x L): 1.97" x Between Frames (BF: 13.70" to 51.26") Weight: 10.88 lbs typical – based on BF length.

Mechanical Installation

See pages 38 and 39.

Electrical Connections

Conductors: Copper conductors capable of supplying the currents listed in the RCADU42/RCBDU42: RD48 and RD50 Specifications and Features Table shall be used.

Fastening: Terminals shall be tightened to the torque specifications listed in the *RCADU42/RCBDU42*: *RD48 and RD50 Specifications and Features Table*.

For driver card connection, see *C101BU Driver Card* manual.

PRODUCT CONTAINS NO USER SERVICABLE PARTS. OPENING THE ENCLOSURE WILL VOID WARRANTY AND MAY POSE A SAFETY RISK. DO NOT OPEN THE DEVICE.

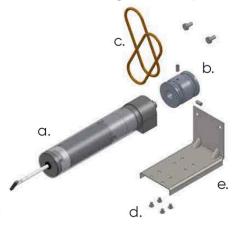
Protection impairment may occur if used in a manner not specified in this document.



Installatin Instructions—Gear Motor GM48

Installation Instructions

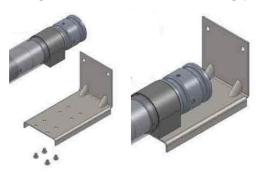
- **1.** Gather necessary components:
 - a. (1) Gear motor
 - b. (1) Pulley or sprocket as required
 - **c.** (2) O-rings, poly-ribbed belts, or chain as applicable
 - d. (4) M5 bolts, grade 8.8 minimum, for attaching gear motor to mounting plate
 - **e.** (1) mounting plate with hardware for attaching to conveyor frame



2. We recommend applying Locktite® to mounting hardware.



3. Place gear motor over the mounting plate and use the (4) M5 bolts to attach the gear motor to the mounting plate.



4. Attach mounting plate to the conveyor frame. Tighten to 54 in.-lbs. of torque.



5. Install applicable drive belts to the gear motor and adjacent ilder rollers.







SlimDrive™ Mounting Hardware

Mounting Bracket Requirements:

- -Stainless steel
- -Uncoated or galvanized surface
- -Minimal total surface area: 368.7 cm²
- -Minimal total mass: 2,717.9 grams

Fasteners for mounting motor to bracket *Metric Option:*

- -4x Split lock washer-DIN 127B-M8
- -2x Nut-DIN 934-grade 8-M8
- -2x Bolt-DIN 933-grade 8.8-M8x30
- -Tightening torque: 28Nm (20 ft-lbs)

NOTE-Bracket shown for illustration:

 $A = 742.46 \text{ cm}^2$

m= 2,758 grams

t= 3/16" (4.76mm)

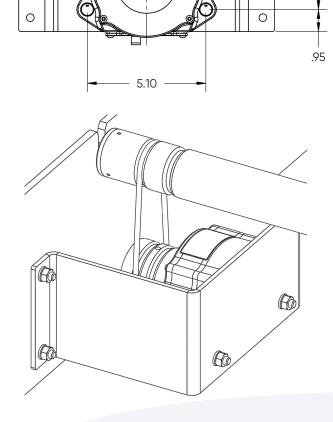
12 gauge (0.105")

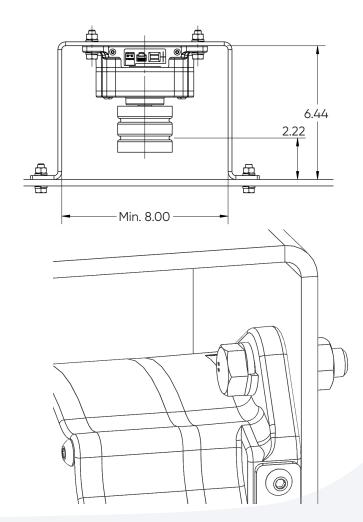
Imperial Option:

3.65

- -4x Split lock washer-ASME B18.21.1-5/16"
- -2x Nut-ASME B18.2.2-grade 5-5/16"-18
- -2x Bolt-ASME B18.2.1-grade 5-5/16"-18x1-1/4"
- -Tightening torque: 23Nm (17 ft-lbs)

Dimensions in Inches







Tapered Conical Roller MDR2400

Product Overview

InfiniDrive™ Motor Manufacturing offers the most robust design in tapered conical rollers. Our idlers are rated for impact resistance. The precision ball bearings reduce running noise while the spring-loaded shaft allows for quick installation. Available for the 50 mm only.

Standard Features

- ABEC precision bearings
- Zinc plated steel tube
- ${\color{red} \bullet}$ Plastic rated with antistatic properties <108 ${\color{red} \Omega}$
- Black Polypropylene tapered cone with 1.8° conicity
- 7/16" (11.1mm) Hex shaft
- Maintenance-free
- Max. load capacity: 112 lbs. up to 39"
- Max. conveyor speed: 394 FPM



Tapered Conical Idle Roller

Additional Options

- Standard 3/16" & 1/4" O-ring grooves
- Deep 3/16" & 1/4" O-ring grooves





Tapered Conical Roller Dimensions

Dimensions in mm



Tube Diameter	Shaft	Sleeve Length	D1	D2
Ø50mm	7/16" Hex	300	56.0	74.9
		350	52.9	74.9
		400	56.0	81.1
		450	52.9	81.1
		500	56.0	87.4
		550	52.9	87.4
		600	56.0	93.7
		650	52.7	93.7
		700	56.0	100.0
		750	52.9	100.0
		800	56.0	106.3
		850	52.9	106.3

Legend

BF = Between Frames

RL = Roller Length

SL = Sleeve Length

D1 = Min. diameter of taper cone

D2 = Max. diameter of taper cone



Transport Card Mounting Hardware FMZP24001

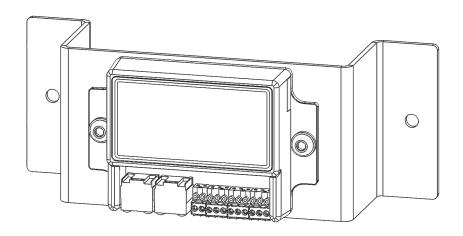
Fasteners for Mounting to Bracket (Included)

Metric Option:

- -4x Washer DIN 125A-M
- -2x Nut-DIN 934-M6
- -2x Button Cap Screw-ISO 7380-M6x20
- Tightening torque: Bolt hand tight 1.5 Nm

Imperial Option:

- -4x Flat Washer-ASME B18.22.1-1/4"
- -2x Finish Nut-ASME B18.22.2-1/4-28
- -2x Button Cap Screw-ASME B18.3-1/4-28x3/4"
- -Tightening torque: Bolt hand tight (1.1 ft-lbs)

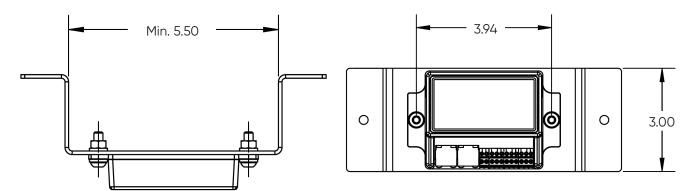


Bracket Minimum Width:

Dimensions in Inches

Mounting Hole Spacing:

Dimensions in Inches





ZPA Card Mounting Hardware

FMZP24001

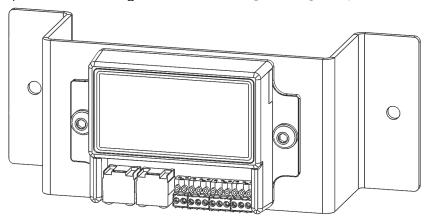
Fasteners for Mounting to Bracket (Included)

Metric Option:

- -4x Washer DIN 125A-M6
- -2x Nut-DIN 934-M6
- -2x Button Cap Screw-ISO 7380-M6x20
- -Tightening torque: Bolt hand tight 1.5 Nm

Imperial Option:

- -4x Flat Washer-ASME B18.22.1-1/4"
- -2x Finish Nut-ASME B18.22.2-1/4-28
- -2x Button Cap Screw-ASME B18.3-1/4"-28x3/4"
- -Tightening torque: Bolt hand tight (1.1 ft-lbs)



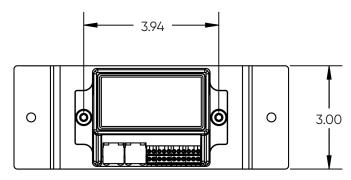
Bracket Minimum Width:

Dimensions in Inches

Min. 5.50

Mounting Hole Spacing:

Dimensions in Inches





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Toll-free 877-415-9898

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E sales@infinidrivemotors.com