



SOLUZIONI PER LA MOVIMENTAZIONE

PRESENTA



PULSEROLLER



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Features of DC Brushless Motor

High torque

DC brushless motor provides much higher torque compare to the same size AC motor which enables to handle heavier load with minimum number of Motor Rollers.

Energy saving

DC brushless motor is known as more efficient at converting electricity into mechanical power than conventional AC induction motor.

Also, Motor Roller conveyor line is typically sub-divided into “Zones” and each zone is powered and controlled independently only when a tote is present (Run On Demand).

This Run On Demand feature provides further energy saving by more than 50% compared to the conventional drive conveyor.

Dynamic brake

DC brushless motor provides electrical brake method called Dynamic brake or Regenerative brake.

This feature provides instantaneous stop unless the product slips over the tube surface, thus there are no mechanical brake device or pneumatic cylinder are required for many cases.

Wide speed range

DC brushless motor provides wide speed range (e.g. SENERGY, Speed code 35 – Eco mode, diameter 50.0 mm provides from 5.0 to 49.8 m/min) and speed can be easily adjusted by Control card setting.

Functionality and Logic control

Our cutting-edge controls provide useful functions, not only Dynamic brake or Variable speed, but such as Constant Speed control (Maintaining running speed regardless of load conditions), Acceleration & Deceleration timer setting, etc.

Also ConveyLinx provides system-control-like functions such as ZPA (Zero Pressure Accumulation) which can minimise wirings and PLC programing.

PULSE ROLLER Drives Overview

SENERGY-Ai



Product type	Motor Roller
Rated voltage	DC24V
Output	50W (Max)
Conveyor speed	2.0 ~ 304.1 m/min (50.0 mm diameter)

PGD-Ai



Product type	Geared Drive
Rated voltage	DC24V
Output	50W (Max)
Rotational speed	8.5 ~ 528.9 rpm (Output shaft)

SENERGY-Ai

Introduction

Ai (Advanced intelligence) technology incorporates a small micro controller on the hall effect sensor board of the Senergy Ai motor and achieved to eliminate the need to have the commutation electronics inside the motor roller. The micro controller codes the hall effect signals to only one pin, allowing the connection with a standard M8-4pin connector for proven and fail-safe connection.

The micro controller also holds, roller serial number, roller diameter, gear ratio, manufacturing date and measures the real-time motor temperature. This allows in-depth analysis of the motor roller in operation. Ai technology is a brilliant piece of ingenuity in motorized rollers.

ECO and BOOST mode are two performance mode of Senergy Ai. In ECO mode the continuous performance is 40W, and 50W in BOOST mode. ECO mode is sufficient for most typical zoned conveyor applications. BOOST mode should be used for higher loads, belted zones or motion control application.

Both performance modes can be easily selected by our Control cards.

SENERGY-Ai

Product information

General information

- Tube material: Mild steel, zinc plating / Stainless steel (SUS304)
- Roller diameter: 48.6, 50.0, 57.0, 60.5 (mm)
- Min. roller length: Refer to the "Minimum available roller length table" below.
- Max. roller length: 1000 mm *Contact us for longer than 1000 mm.
- Connector: 4-pin M8 connector cabling
- Cable length: 1000 mm
- Advanced intelligence inside:
 - Internal diagnostics (Real time motor temp report)
 - Product information stored (Serial number, Date of Manufacturing, Gear ratio, Roller diameter, etc...)
- Operation: 0.5 sec ON / 0.5 sec OFF duty cycle (Minimum) or continuous within rated load

Compatible Control Technologies



Technical data

	Eco-mode	Boost-mode
Voltage	DC24V	
Nominal output	40W	50W
Rated current	2.5A	3.5A
Starting current	3.0A	5.0A
Ambient temperature	-10 ~ 40°C	
Ambient humidity	10 ~ 90% RH (No condensation)	

Available minimum roller length

Roller diameter	Speed Code	Interlocking option			
		Plain straight	Micro V-Pulley	Round Groove	Sprocket
48.6 / 50.0	15, 20, 25	324	317	356	329
	35, 45, 60, 75	296	289	329	301
	95, 125, 175, 215	273	266	305	278
57.0 / 60.5	15, 20, 25	309	N/A	329	301
	35, 45, 60, 75	282	N/A	302	274
	95, 125, 175, 215	258	N/A	278	250



Weight table

Diameter	Speed code	Roller length							
		300	400	500	600	700	800	900	1000
$\varphi 48.6$	15, 20, 25	2.0	2.1	2.3	2.5	2.6	2.8	2.9	3.1
	35, 45, 60, 75	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9
	95, 125, 175, 215	1.7	1.8	2.0	2.1	2.3	2.5	2.6	2.8
$\varphi 50$	15, 20, 25	2.0	2.2	2.4	2.5	2.7	2.9	3.0	3.2
	35, 45, 60, 75	1.8	2.0	2.2	2.4	2.5	2.7	2.9	3.0
	95, 125, 175, 215	1.7	1.9	2.0	2.2	2.4	2.6	2.7	2.9
$\varphi 57$	15, 20, 25	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8
	35, 45, 60, 75	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6
	95, 125, 175, 215	2.1	2.3	2.5	2.7	2.8	3.0	3.2	3.4
$\varphi 60.5$	15, 20, 25	3.1	3.6	4.0	4.5	4.9	5.3	5.8	6.2
	35, 45, 60, 75	2.9	3.4	3.8	4.3	4.7	5.2	5.6	6.1
	95, 125, 175, 215	2.8	3.2	3.7	4.1	4.6	5.0	5.5	5.9

*Weight varies depending on interlocking options. Unit: kg

Wall thickness

Diameter	48.6	50.0	57.0	60.5
Thickness	1.4	1.5	1.5	3.25

Unit: mm

Static load capacity

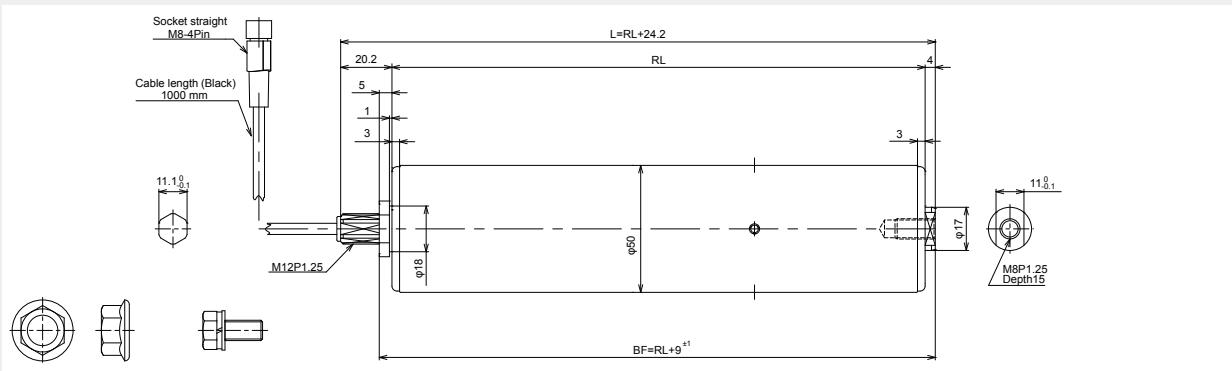
Diameter \ Length	300	400	500	600	700	800	900	1000
48.6	70	60	50	40	35	30	25	20
50.0	80	70	60	55	50	45	40	35
57.0	100	100	80	80	60	60	50	50
60.5	160	160	130	130	100	100	80	80

Unit: kg

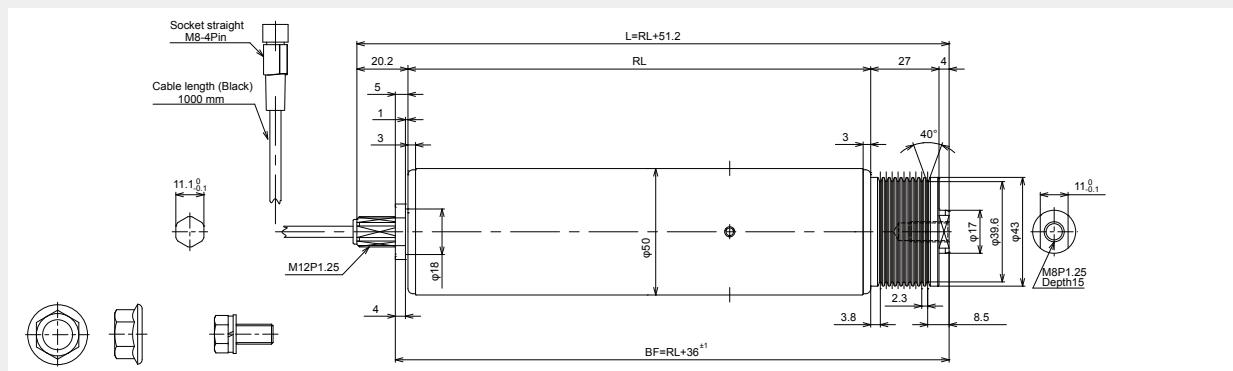
SENERGY-Ai

Dimensions (Reference drawing)

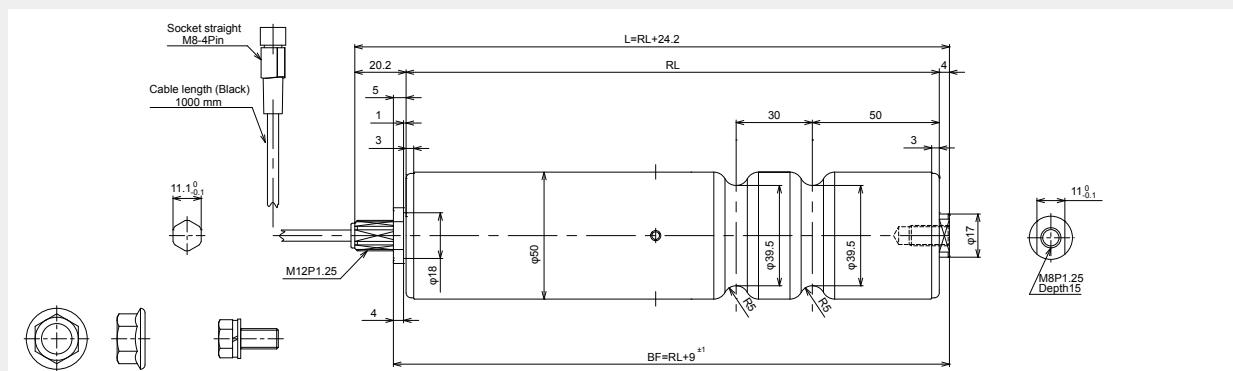
Plain straight



Micro V-Pulley

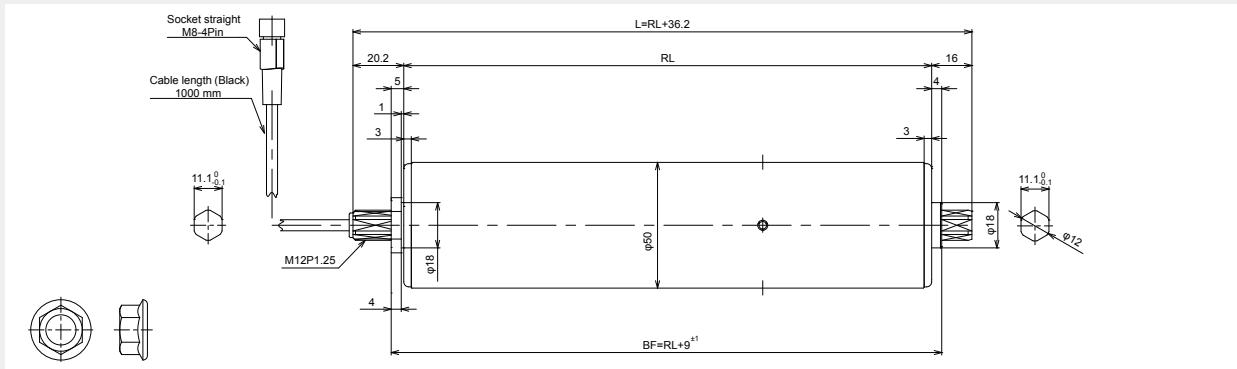


Round Grooves

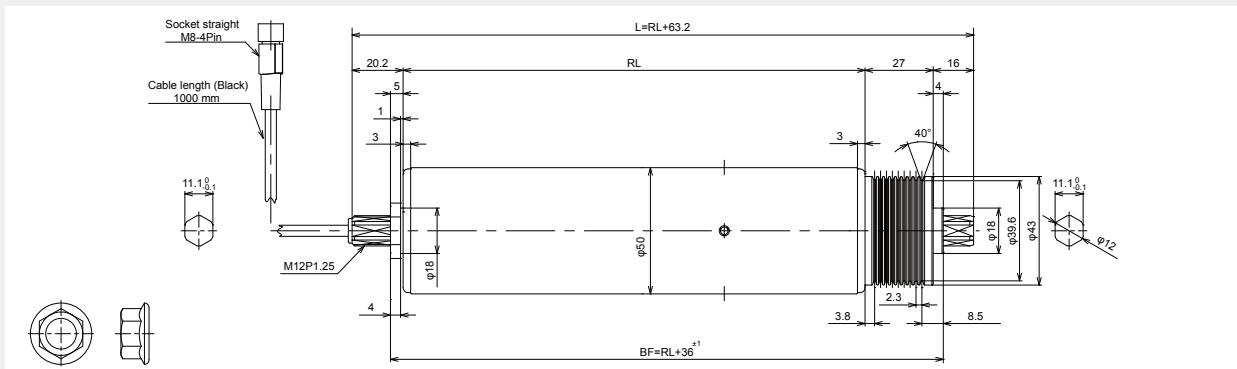




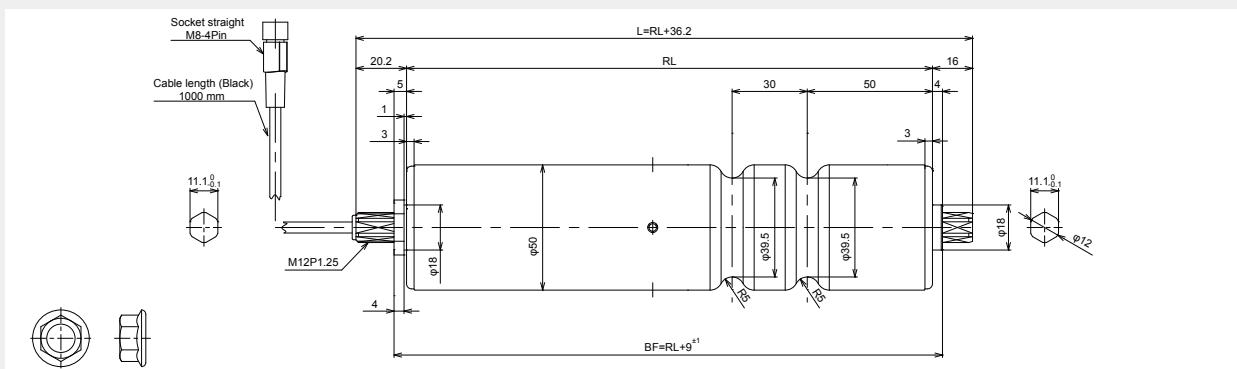
Plain straight



Micro V-Pulley



Round Grooves



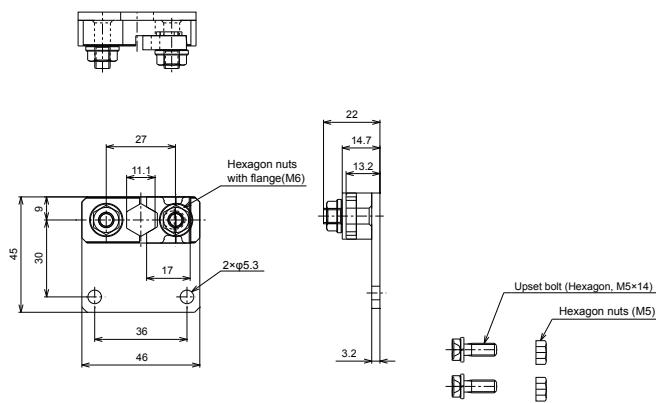
SENERGY-Ai

Bracket (for Non-threaded cable end shaft)

Standard accessory

(Cable side)

PR-D-30H-PU-N-ST
(Point-up)

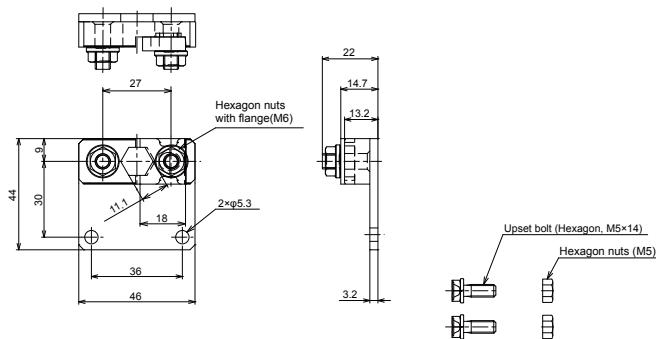


* Note

Tightening torque (M6) : 8 ~ 10 N·m

Tightening torque (M5) : 2.3 ~ 3.5 N·m

PR-D-30H-FU-N-ST
(Flat-up)



* Note

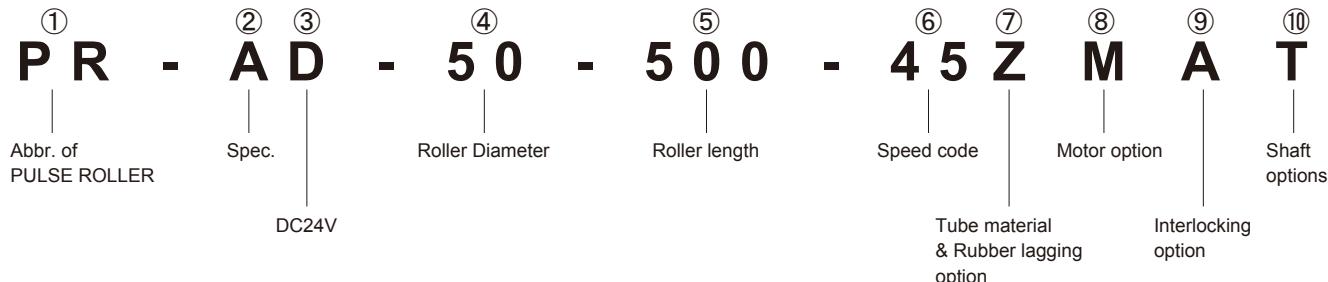
Tightening torque (M6) : 8 ~ 10 N·m

Tightening torque (M5) : 2.3 ~ 3.5 N·m



SENERGY-Ai

Part numbers example



② Spec.

- | | |
|-----------------------------|-------------------------------|
| A --- Standard | W --- Wash-down rated (IP-66) |
| Z --- Freezer rated (-30°C) | |

④ Roller Diameter

- | | |
|--------------|--------------|
| 48 --- φ48.6 | 50 --- φ50.0 |
| 57 --- φ57.0 | 60 --- φ60.5 |

⑤ Roller length

Dimension RL (Unit: mm) *Available for every 1 mm unit

⑥ Speed code

Selection of speed range *See Characteristics data table for available speed codes.

⑦ Tube material & Rubber lagging option

- Z --- Steel, Zinc plating, No lagging *Z is standard for Dia. 48.6 and 50.
- A --- Steel, Unichrome plating, No lagging *A is standard for Wash-down rated and Dia. 57 & 60.5.
- J --- Stainless tube
- B --- 3 mm Black rubber
- W --- 3 mm Urethane
- Q --- 2 mm PVC sleeve

⑧ Motor option

- M --- SENERGY-Ai (M8 connector)

⑨ Interlocking option

- A --- Plain straight, No interlocking
- B --- V-Pulley
- G --- Round groove
- H --- Micro V-pulley (Poly vee)

⑩ Shaft options

- | | |
|---|-----------------|
| T --- M12 threaded hex (Cable end) + M8 female threaded | Y --- Specialty |
| P --- M12 threaded hex (Cable end) + Spring-loaded hex | |
| F --- Non threaded hex (Cable end) + M8 female threaded | |
| Q --- Non threaded hex (Cable end) + Spring-loaded hex | |

Characteristics data

Roller Dia: 50.0 mm

Speed Code	Gearbox	ECO-mode							BOOST-mode								
		Speed (m/min)	Torque(N·m)			Tangential force(N)		Current (A)		Speed (m/min)	Torque(N·m)			Tangential force(N)		Current (A)	
			Rated	Starting	Accel	Rated	Starting	Rated (max)	Starting		Rated	Starting	Accel	Rated	Starting	Rated (max)	Starting
15	3 stage	2.0 ~ 20.3	2.97	16.39	4.95	118.8	655.7	2.5	3.0	2.0 ~ 14.7	5.40	21.37	7.94	216.0	855.0	3.5	5.0
20		2.7 ~ 27.7	2.17	12.00	3.62	86.9	480.0			2.7 ~ 20.0	3.95	15.64	5.81	158.1	625.8		
25		3.4 ~ 33.8	1.78	9.83	2.97	71.2	393.4			3.4 ~ 24.4	3.24	12.82	4.76	129.6	513.0		
35	2 stage	4.9 ~ 49.9	1.20	6.66	2.00	48.3	266.6	3.0	3.5	4.9 ~ 36.1	2.19	8.69	3.59	87.8	347.7		
45		6.0 ~ 60.8	0.99	5.46	1.65	39.6	218.5			6.0 ~ 44.0	1.80	7.12	2.94	72.0	285.0		
60		8.2 ~ 83.1	0.72	4.00	1.20	28.9	160.0			8.2 ~ 60.1	1.31	5.21	2.15	52.7	208.6		
75		10.1 ~ 101.4	0.59	3.27	0.98	23.7	131.1			10.1 ~ 73.3	1.08	4.27	1.76	43.2	171.0		
95	1 stage	13.3 ~ 133.8	0.44	2.48	0.73	17.9	99.3	3.5	5.0	13.3 ~ 96.8	0.81	3.23	1.49	32.7	129.5		
125		18.1 ~ 182.5	0.33	1.82	0.55	13.2	72.8			18.1 ~ 131.9	0.60	2.37	1.09	24.0	95.0		
175		24.7 ~ 249.3	0.24	1.33	0.40	9.6	53.3			24.7 ~ 180.3	0.43	1.73	0.78	17.5	69.5		
215		30.2 ~ 304.1	0.19	1.09	0.32	7.9	43.7			30.2 ~ 219.9	0.36	1.42	0.65	14.4	57.0		

Senergy Ai torque values are tested data and shall help to apply the product in a right way.

- Rated torque :

This torque value can be delivered by Senergy Ai for continuous use without overheating in environmental temperature of 25°C. Average torque of start/stop operation should not exceed this torque value.

- Starting torque :

This torque is the peak value of motor stall torque.

- Accel torque :

This torque is the average torque which is present in the phase of acceleration up to set speed. This torque value can be used to calculate real acceleration time of an application. However torque consumption of idler rollers and belts also must be taken into consideration.

NOTE : When the motor is warmed up, torque performance will be less than above values, therefore enough safety factor consideration is necessary to pick the right speed code for each application.

SENERGY-Ai

Optional spec.

Wash-down rated

- IP rating: IP-66
- Material: All stainless made (Pipe: SUS304, Side plate and shaft: SUS303)
- Roller diameter: 48.6, 50.0, 57.0, 60.5 (mm)
- Min. roller length: Refer to the "Available minimum roller length" table below.
- Max. roller length: 1000 mm *Contact us for longer than 1000 mm.
- Cable length: 1000 mm

Compatible Control Technologies



* Controls are not Wash-down rated.

Part numbers example

P R - W D - 5 0 - 5 0 0 - 4 5 A M A T

Spec.
W for Wash-down

Tube material & Rubber lagging option
A is standard for Wash-down rated.

Available minimum roller length

Roller diameter	Speed Code	Interlocking option			
		Plain straight	Micro V-Pulley	V-Pulley	Round Groove
48.6 / 50.0	15, 20, 25	360	344	351	381
	35, 45, 60, 75	332	317	324	354
	95, 125, 175, 215	309	294	301	330
57.0 / 60.5	15, 20, 25	347	N/A	341	347
	35, 45, 60, 75	320	N/A	314	320
	95, 125, 175, 215	296	N/A	290	296

Unit: mm

*We support even shorter length than those listed above using specially made components. Contact us for more details.



Optional spec.

Freezer rated

- Applicable Temp: From 0 down to -30°C (No condensation)
- Tube material: Mild steel, zinc plating / Stainless steel (SUS304)
- Side plate material: Aluminium
- Roller diameter: 48.6, 50.0, 57.0, 60.5 (mm)
- Min. roller length: Same as standard model
- Max. roller length: 1000 mm *Contact us for longer than 1000 mm.
- Cable length: 1000 mm

Compatible Control Technologies



* For freezer application, above controls need to be specially made. Please contact us for more details.

Part numbers example

P R - Z D - 5 0 - 5 0 0 - 4 5 Z M A T

|
Spec.
Z for Freezer rated

PGD-Ai -Pulse Geared Drive-

Product information

General information

- Mounting: M5 x 7mm
- Shaft diameter: 16 mm
- Key: 5 x 5 x 25 mm
- Cable length: 1000 mm

Compatible Control Technologies



Technical data

	Eco-mode	Boost-mode
Voltage	DC24V	
Nominal output	40W	50W
Rated current	2.5A	3.5A
Starting current	3.0A	5.0A
Ambient temperature	-10 ~ 40°C	
Ambient humidity	10 ~ 90% RH (No condensation)	

Weight table

Gear box	Reduction ratio	Weight
3 stage	67, 45, 33, 27	1.5
2 stage	18, 15, 11, 9	1.2

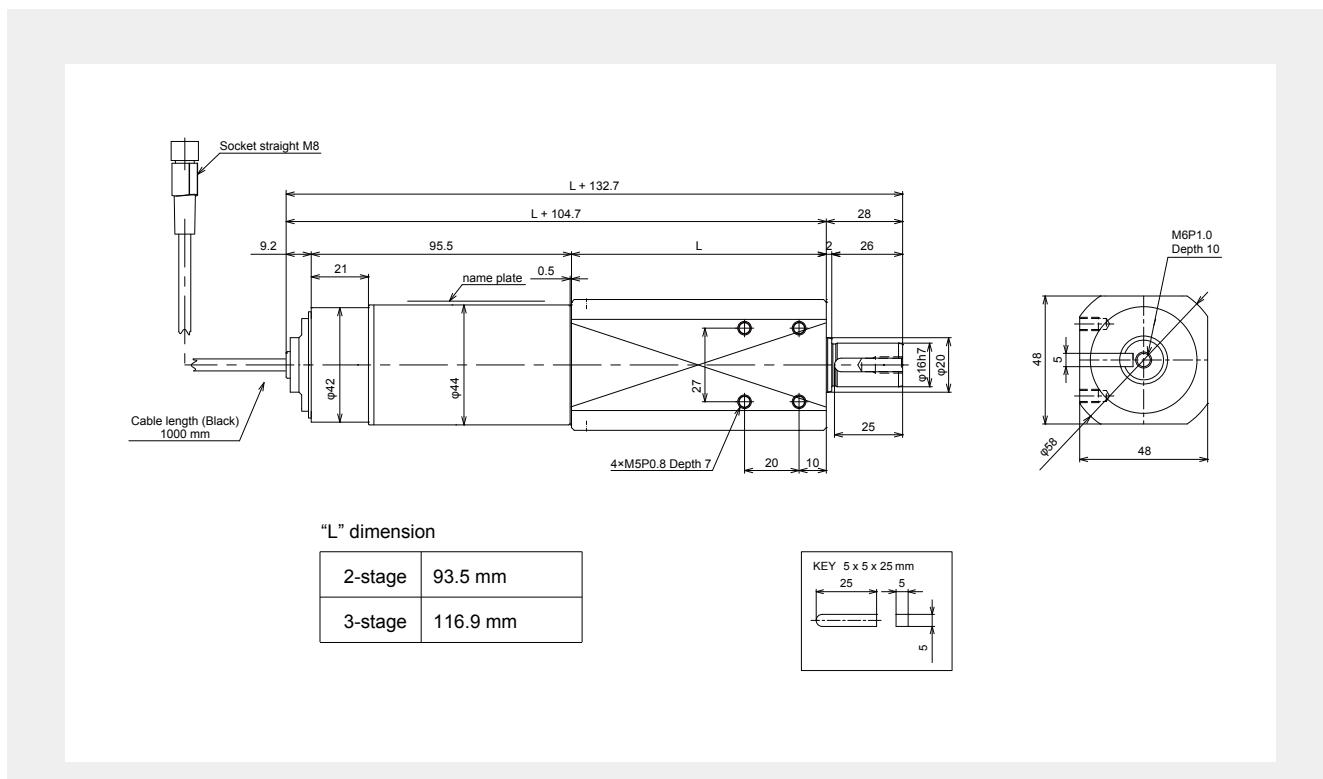
Unit: kg



Characteristics data

Nominal Gear ratio	Actual Gear ratio	Gear box	ECO-mode						BOOST-mode							
			Speed (rpm)		Torque(N-m)			Current (A)		Speed (rpm)		Torque(N-m)			Current (A)	
			Rated	Starting	Rated	Starting	Accel	Rated (max)	Starting	Rated	Starting	Rated	Starting	Accel	Rated (max)	Starting
67	66.98	3 stage	8.5 ~ 86.7	4.40	24.4	7.33				8.5 ~ 62.7	8.03	31.81	11.82			3.5
45	45.00		12.8 ~ 129.0	2.97	16.39	4.95				12.8 ~ 93.3	5.40	21.37	7.94			
33	32.94		17.4 ~ 176.3	2.17	12.00	3.62				17.4 ~ 127.5	3.95	15.64	5.81			
27	27.00		21.3 ~ 215.1	1.78	9.83	2.97				21.3 ~ 155.5	3.24	12.82	4.76			
18	18.30	2 stage	31.4 ~ 317.3	1.20	6.66	2.00				31.4 ~ 229.5	2.19	8.69	3.59			5.0
15	15.00		38.4 ~ 387.2	0.99	5.46	1.65				38.4 ~ 280.0	1.80	7.12	2.94			
11	10.98		52.4 ~ 528.9	0.72	4.00	1.20				52.4 ~ 382.5	1.31	5.21	2.15			
9	9.00		64.0 ~ 645.3	0.59	3.27	0.98				64.0 ~ 466.6	1.08	4.27	1.76			

Dimensions (Metric)



PGD-Ai -Pulse Geared Drive-

Part numbers example



② Nominal gear ratio

Selection of gear ratio *See Characteristics data table for available gear ratios.

③ Spec.

A --- Standard

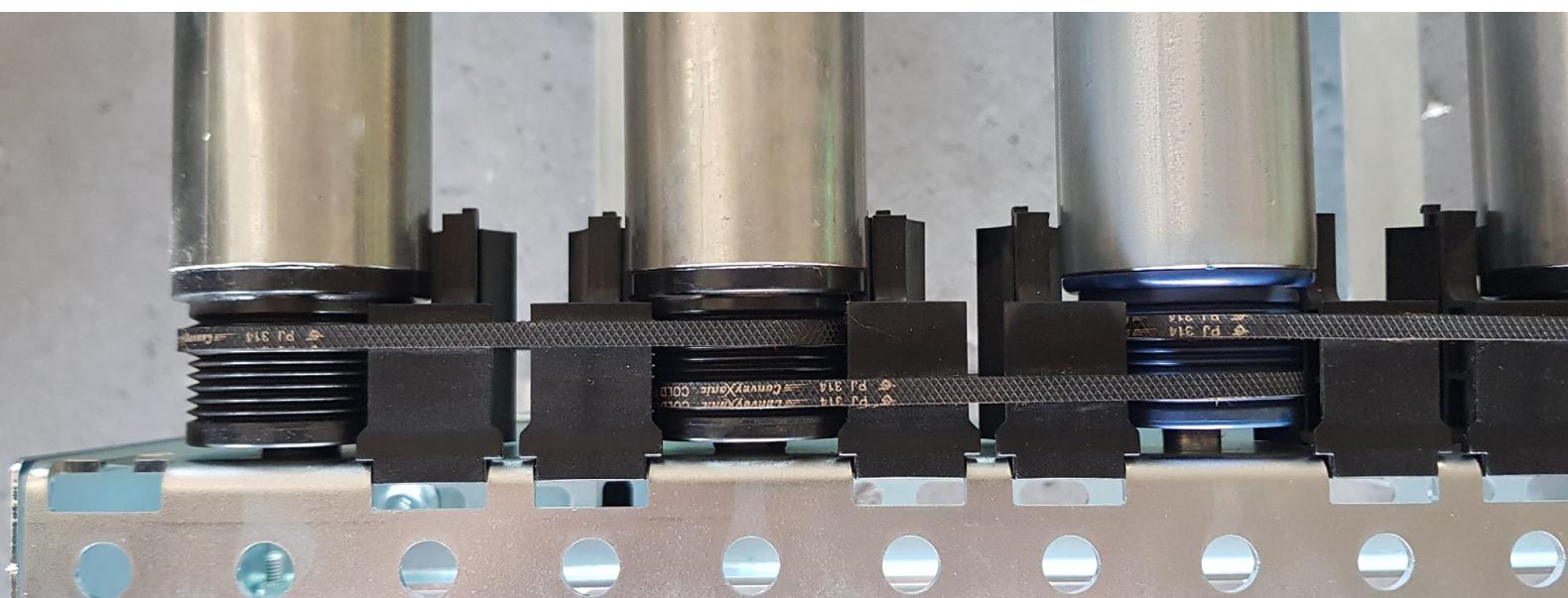
④ Output shaft finish

A --- Standard key-way shaft (No attachment)

⑤ Custom spec.

A --- Standard

Y --- Others



Control



Features

- Part number : EQube-Ai-P
- M8 - 4 pin connector for Motor
- ECO mode performance only
- LED Indicator for Power, Run, Reverse and Error
- 32 fixed speed setting by DIP Switch setting
- 3 stage speed selection via signal input
- Bi-directional operation
- Dynamic brake
- PI regulator (stable speed control)
- 16 stage Accel / Decel timer for 0 - 2.5 sec by DIP Switch setting
- Only PNP input applicable

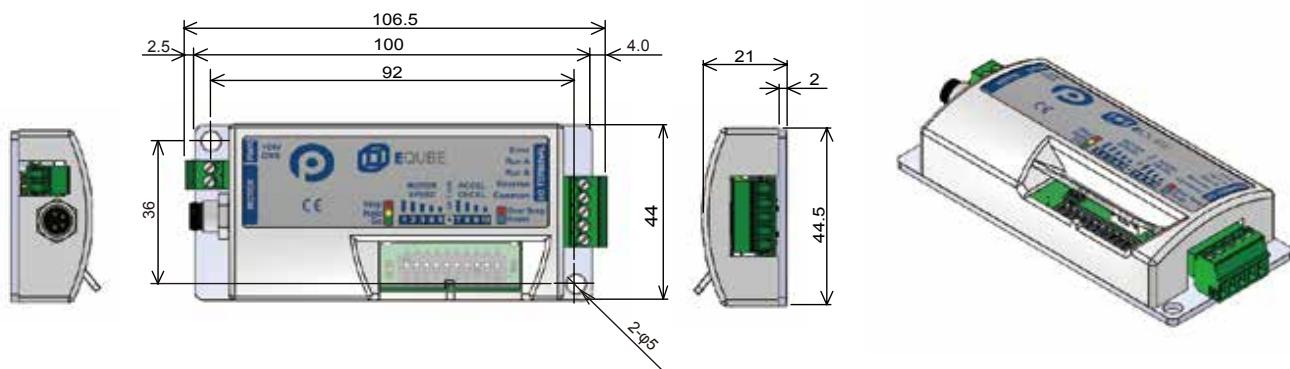
Technical data

Voltage	DC24V
Voltage range	18 ~ 28V
Rated current	2.5A
Starting current	3.0A
Fuse	Present

Applicable environment

Operating ambient temp	-10 ~ 80°C
Operating ambient humidity	10 ~ 90% RH (Non condensation)
Storage ambient temp	-10 ~ 75°C
Storage ambient humidity	10 ~ 90% RH (Non condensation)
Vibration	2G or less

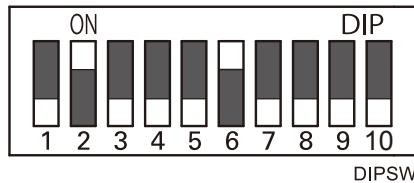
Dimensions and parts





Small & Simple Control Card

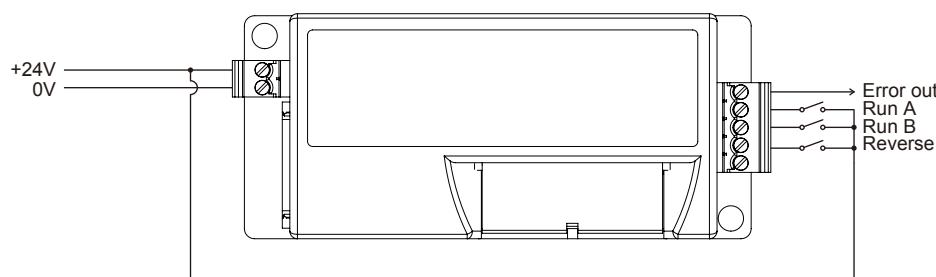
DIP Switch Speed and Acceleration / Deceleration Setting



*Above setting is for illustrative only

No.	Function	Description
1		
2		
3	Speed setting	32 fixed stages available by DIP switch combinations
4		
5		
6	Direction of rotation	ON = CCW, OFF = CW
7		
8	Acceleration / Deceleration timer setting	16 fixed timer (0 ~ 2.5 sec) available by DIP switch combinations
9		
10		

Wiring



Speed setting via signal input

Run A	100% of set speed by DIP switch
Run A + B	75% of set speed by DIP switch
Run B	50% of set speed by DIP switch



EQUBE-P AND EQUBE-N (SENERGY WITH JST CONNECTOR)

Figure 1 shows an example *Eqube* module for part numbers EQUBE-P and EQUBE-N both of which accommodates the standard Senergy motor roller with 9-pin JST style connector. Figure 2 shows a Senergy motor roller with JST connector.

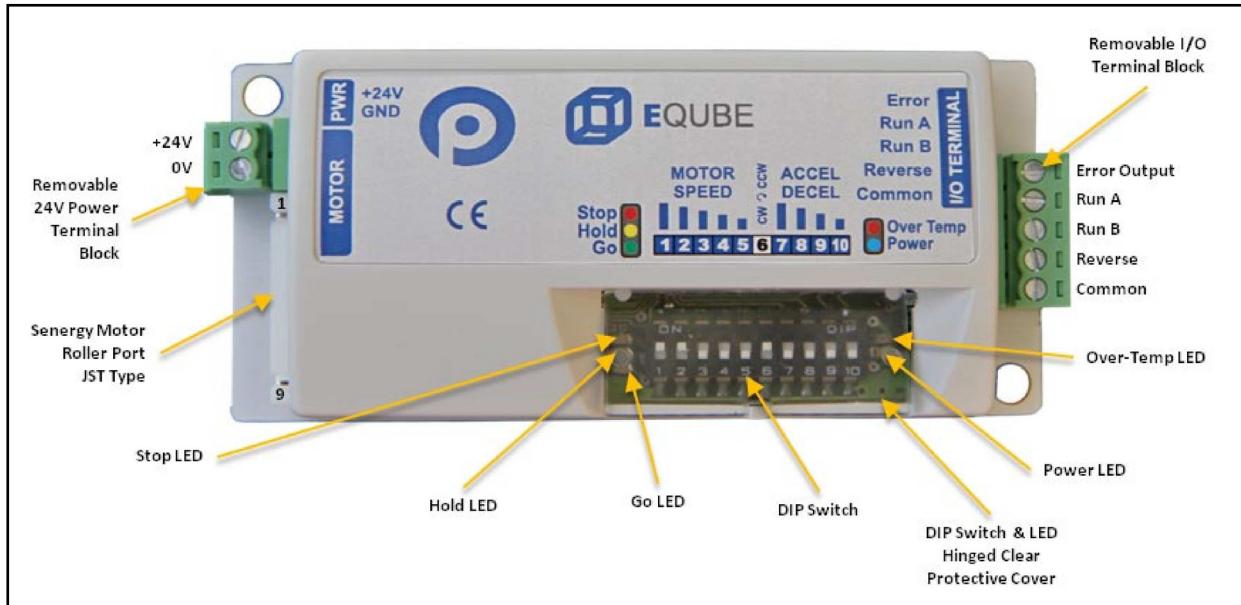


FIGURE 1 EQUBE-P OR EQUBE-N MODULE LAYOUT



FIGURE 2 - SENERGY MOTOR ROLLER WITH JST CONNECTOR



EQUBE-AI-P AND EQUBE-AI-N

For the *Eqube-Ai* versions, all functionality, power/control connections, DIP Switch, and LED's are the same as *Eqube*. The only difference is that the *Eqube-Ai* versions accommodate a Senergy-Ai type motor roller with 4-Pin M8 style connector. Figure 3 identifies the M8 connector location. Figure 4 shows a Senergy-Ai motor roller with 4-pin M8 style connector.

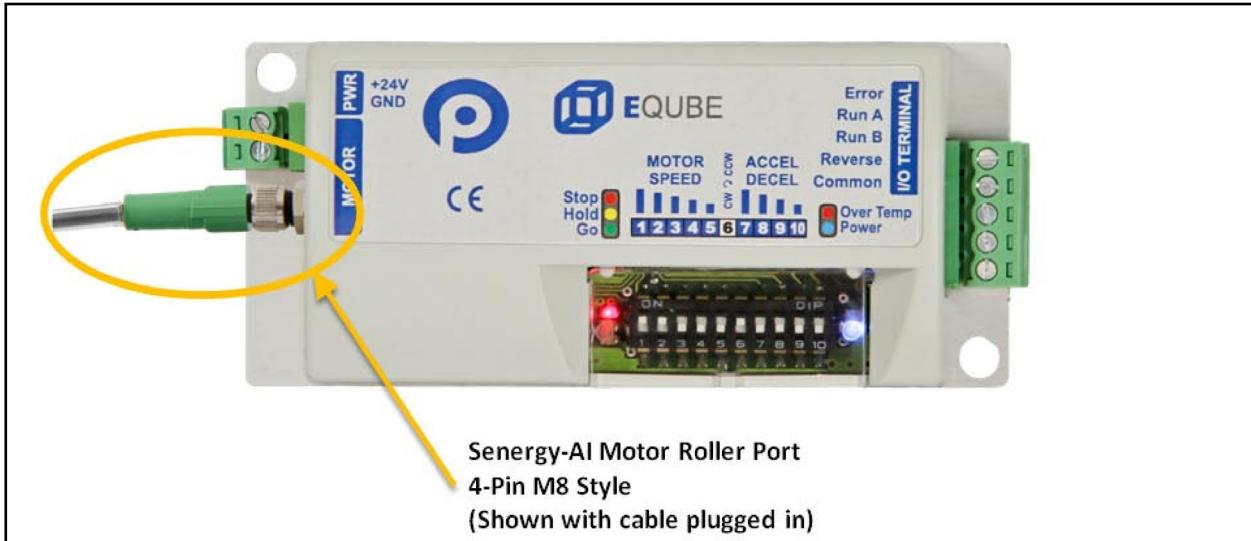


FIGURE 3 - EQUBE-AI VERSION

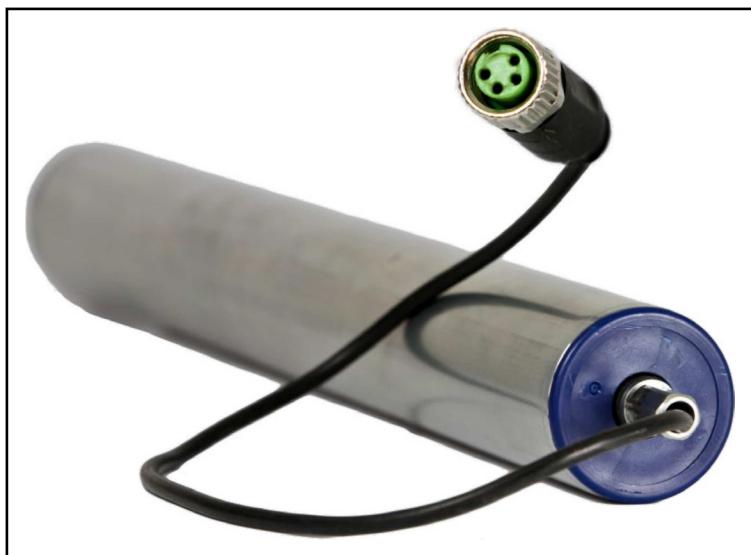


FIGURE 4 - SENERGY-AI MOTOR ROLLER WITH 4-PIN M8 CONNECTOR



DIP SWITCH SETTINGS

Figure 5 shows ON / OFF positions for DIP switches. The following table defines each of the 10 separate switches for the DIP SW:

Switch	Function	OFF	ON
1			
2			
3	Speed Selection	Refer to section <i>DIP Switch Positions 1 thru 5 – Motor Roller Speed on page 16</i>	
4			
5			
6	Rotation Direction	CW	CCW
7			
8	Accel / Decel Selection	Refer to section DIP Switch positions 7 thru 10 – Motor Roller Acceleration/Deceleration on page 17	
9			
10			

The DIP Switch and LED area on the *EQube* module utilizes a hinged clear plastic protective cover. Simply lift the cover from the bottom edge of the module to open the cover to gain access to the DIP Switch. Be sure to snap the cover back closed when done making changes to the DIP Switch settings.

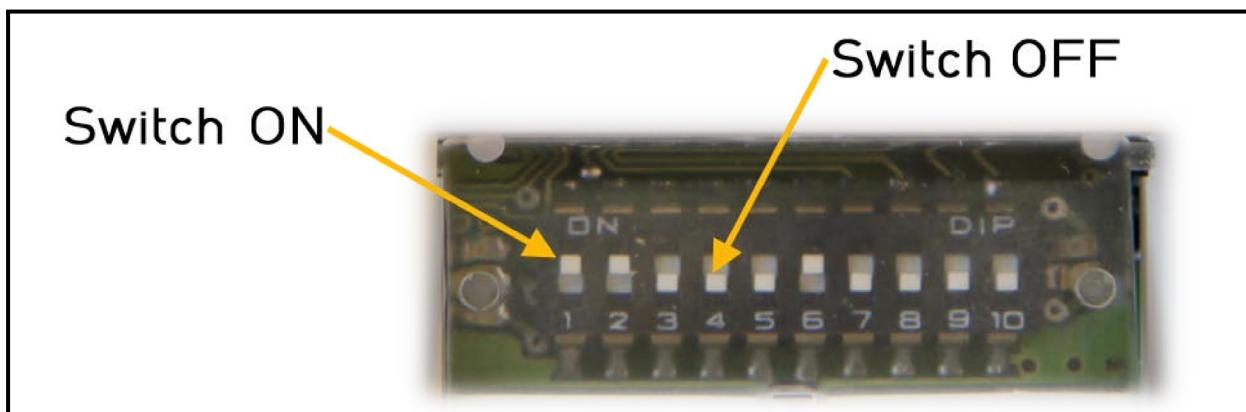
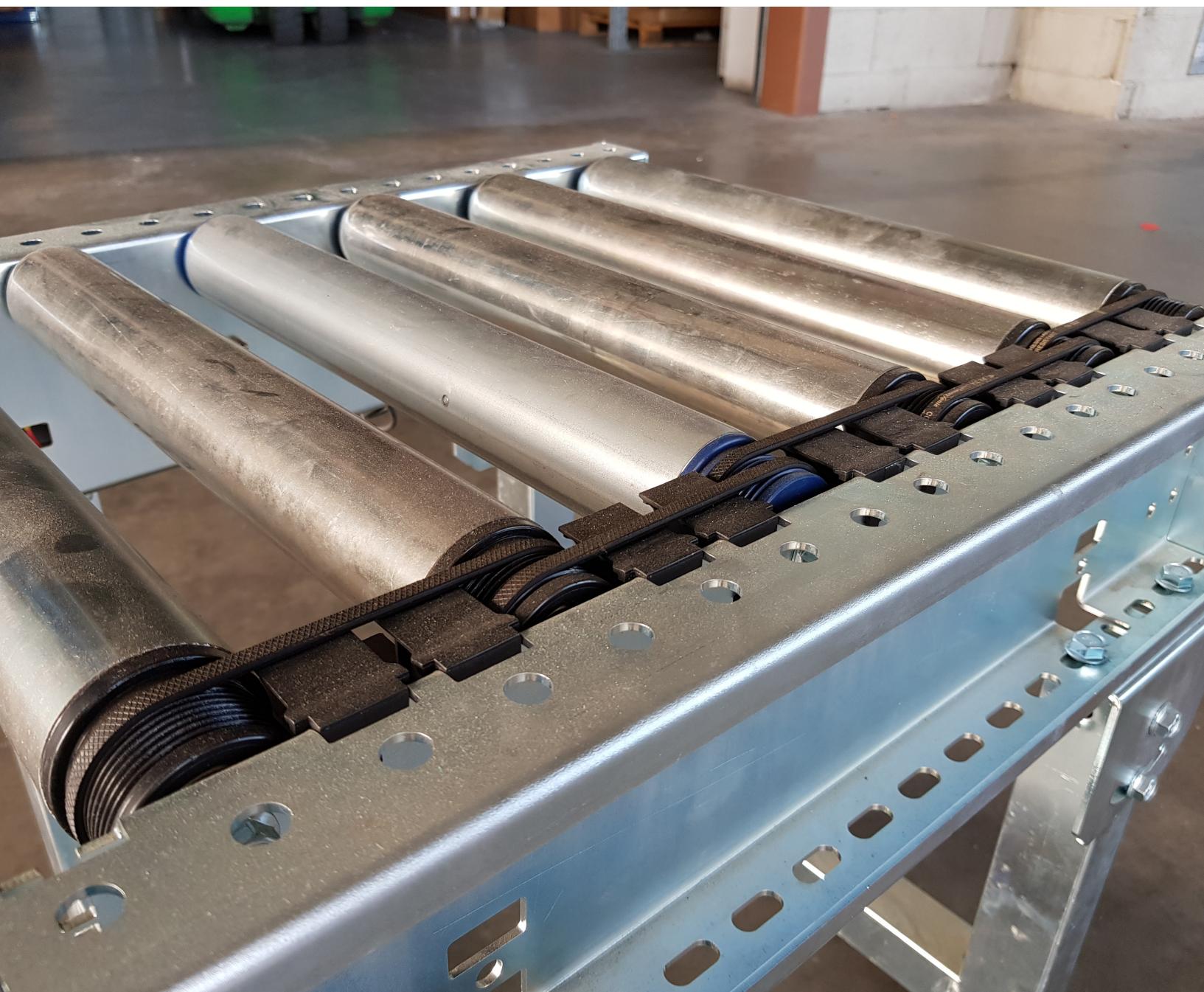


FIGURE 5 - DIP SWITCH ON-OFF EXAMPLE



Control



Features

- Part number : ConveyLinx-Ai2 (for Senergy-Ai roller and PGD-Ai)
- M8 - 4 pin connector for Motors and Sensors
- PROFINET Ethernet I/P, Modbus/TCP, Connectivity
- 2 Zones control (Up to 4 sensors and 2 motors connections)
- Baud rate: 10Mbps / 100Mbps
- Both NPN/PNP photo-eye sensor applicable
- ZPA (Zero Pressure Accumulation) logic; Singulation, Train and Gap Train
- EasyRoll Software for changing default configuration and customizing functionality of each module
- Auto configuration for quick set-up (from EasyRoll software)
- Motor error detection (Overload, Over-current, motor not connected)
- Jam error detection (Sensor Jam, Arrival Jam)
- Separate power for Motor and Logic

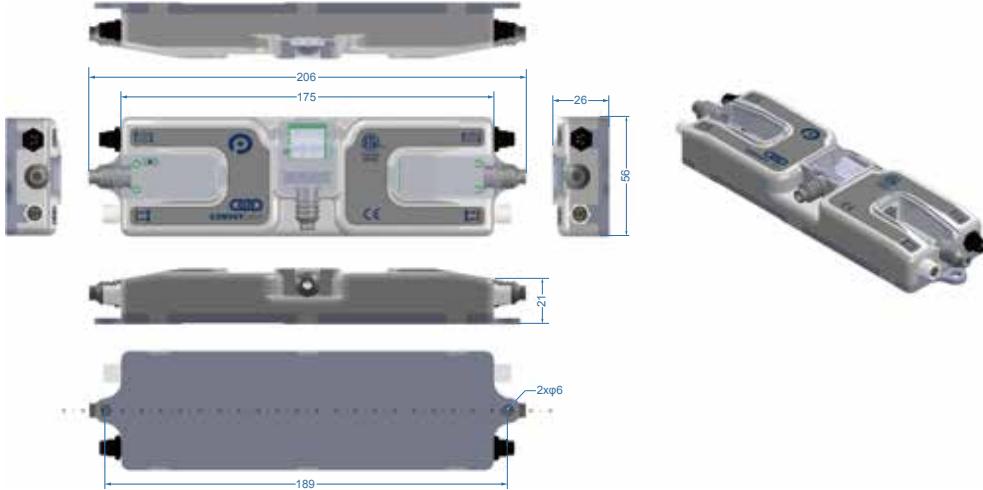
Technical data

Voltage	DC24V
Voltage range	18 ~ 28V
Rated current	5.0A (Eco), 7.0A (Boost) *Two Motors
Starting current	6.0A (Eco), 10.0A (Boost) *Two Motors
Fuse	Present

Applicable environment

Operating ambient temp	0 ~ 40°C
Operating ambient humidity	10 ~ 90% RH (Non condensation)
Storage ambient temp	-10 ~ 75°C
Storage ambient humidity	10 ~ 90% RH (Non condensation)
Vibration	2G or less

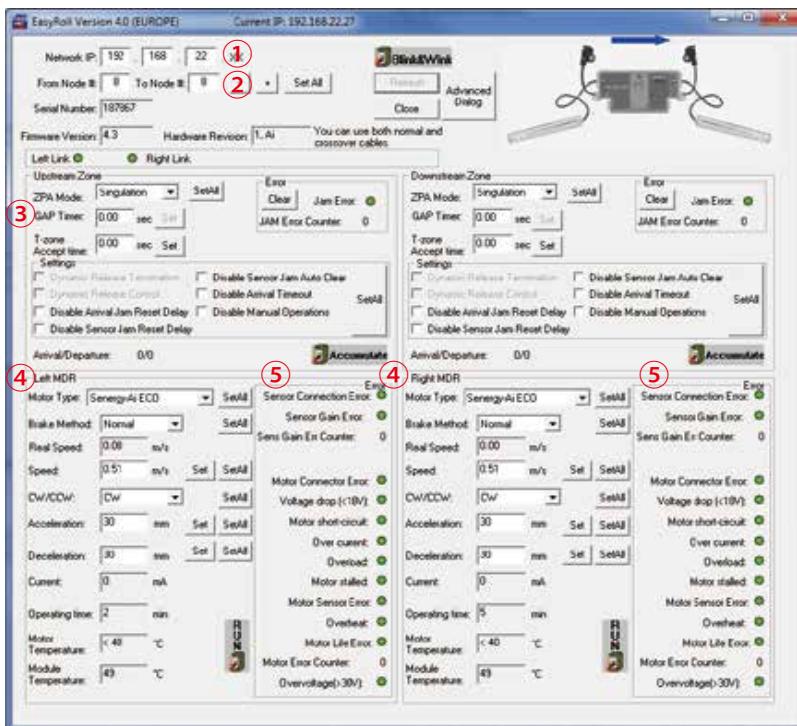
Dimensions





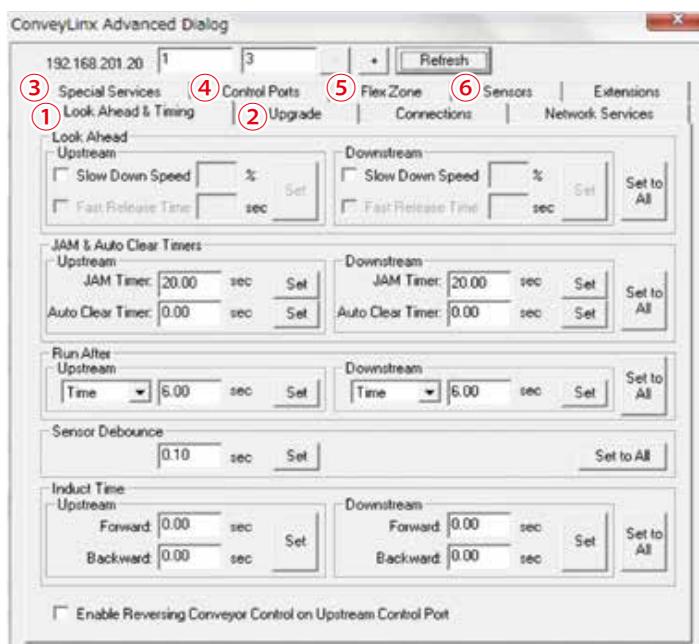
Networked, Built-in ZPA (Zero Pressure Accumulation) Controller

EasyRoll Configuration Software



Main screen

1. Network IP – The Subnet of the particular ConveyLinx network to be connected.
2. Node No. – A range of Nodes in which to be connected.
3. Upstream Zone / Downstream Zone – Selection of ZPA mode, GAP timer and T-zone accept timer settings, etc.
4. Left / Right MDR (Motor Roller) -Selections for changing performance mode, speed, braking method, Accel/Decel distance setting, etc as well as showing values of operation status.
5. Error – Error indicators of Sensor connection, Motor connection, Over current, Overload, etc.



Advanced dialog screen

- * Press F2 key to invoke the Advanced Dialog.
1. Setting of Look Ahead feature, JAM timer, Run After timer, etc.
2. Upgrade - Upgrade of firmware version
3. Special Service - Reset operating time, Clear Motor-short circuit error
4. Control Ports - Control ports' configuration
5. Flex Zone - Flex Zone feature setting
6. Sensors - Sensor ports' configuration

NOTE : For more details, please refer to User's Manual available on pulseroller.com

CONVEYLINX-AI2 MODULE HARDWARE OVERVIEW

ConveyLinx-Ai2 modules are designed to be installed and integrated into the conveyor's mechanical side frame assembly. Please refer to *Appendix A – Module Dimensions* page 93 for module dimensions and mounting details.

The ConveyLinx-Ai2 module is a controller for up to 2 Motorized Drive Roller (MDR) conveyor zones. Each ConveyLinx-Ai2 provides connection points for 2 MDR units with their corresponding 2 photo-sensors as well as upstream and downstream network and discreet interconnections to form a complete control system for zoned MDR conveyors.

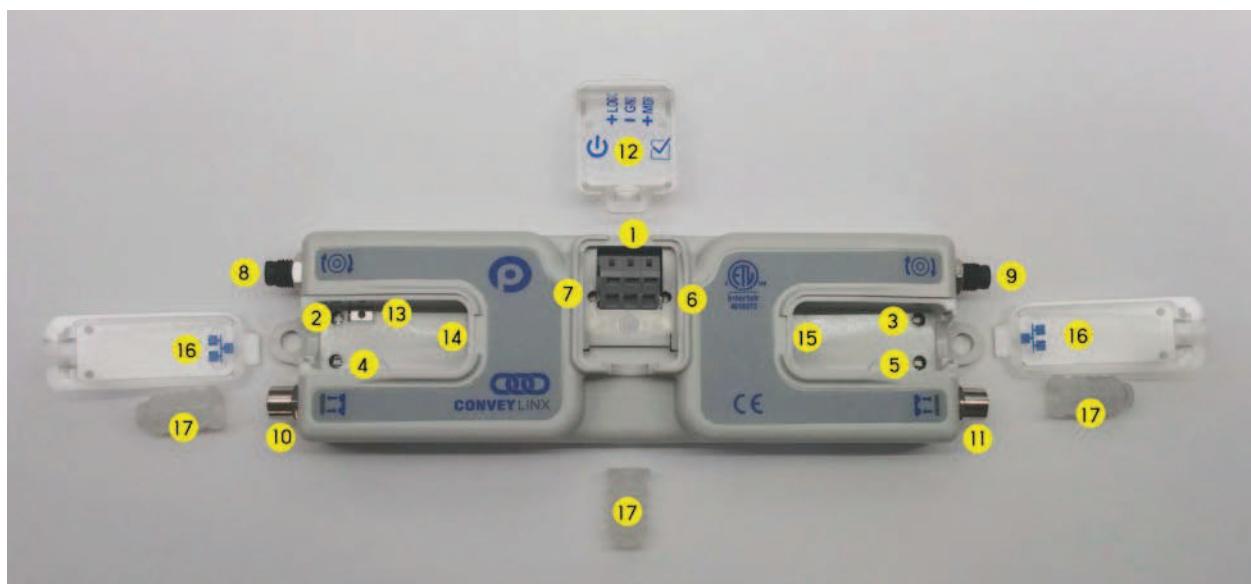
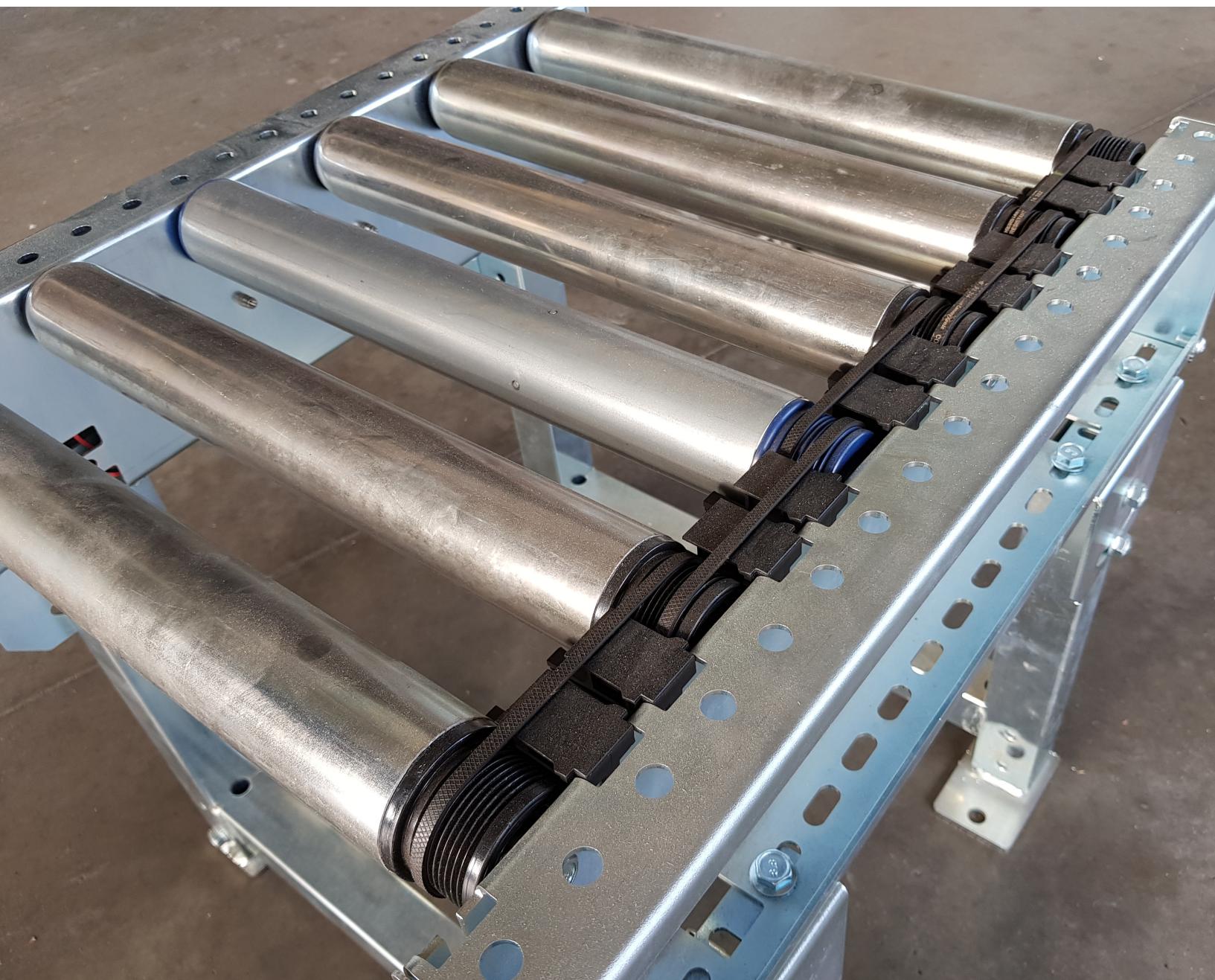


FIGURE 2 – CONVEYLINX-AI2 MODULE HARDWARE FEATURES IDENTIFICATION

Item	Description
1	24VDC Power Terminals with separate connections for Logic and Motors
2 & 3	Motor Left LED & Motor Right LED – Motor status indicators
4 & 5	Left Sensor & Right Sensor Status LED Indicators
6	Module Status LED Indicator
7	Module Power LED Indicator
8 & 9	Motor Left and Motor Right - 4-pin M8 style connector for MDR connection
10 & 11	Sensor Left and Sensor Right – M8 style connector for zone photo-sensor connection
12	Removable IP54 Power Compartment Cover
13	Module Replacement Button
14 & 15	Link Left and Link Right – RJ-45 style Ethernet network connection between modules
16	Removable IP54 Ethernet RJ-45 Port Compartment Cover – Left and Right
17*	IP54 Protection Shrouds for Ethernet cabling and power wiring

* Indicates items shipped unattached to the module but included in the module's box



Calculation of Motor Roller capability

Required tangential force

$$F(N) = m \cdot g \cdot \mu$$

F = Required tangential force

m = Mass (kg)

g = Gravitational acceleration 9.8 m/s²

μ = Coefficient of friction

Coefficient of friction

Material	Wood	Steel	Cardboard	Plastic	Rubber
μ	0.02 ~ 0.05	0.01 ~ 0.02	0.05 ~ 0.1	0.02 ~ 0.04	0.1

---Example---

Weight of the product --- 50 kg

Since its tangential force exceeds the required tangential force (274.3 > 49), the selected model is considered to be capable to handle 50 kg cardboard.

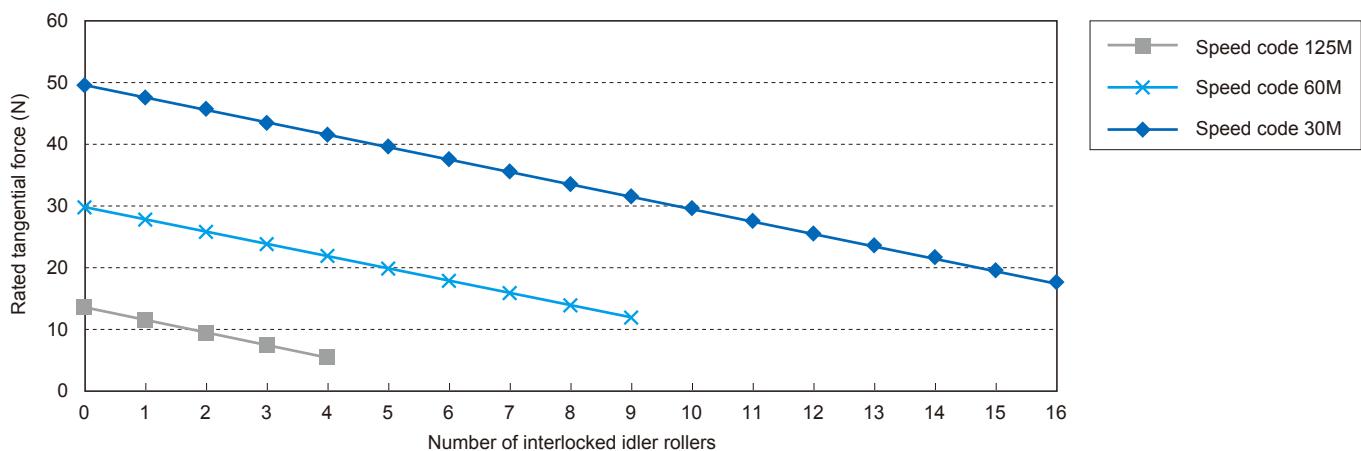
*Note: please include adequate value of safety factor for the actual calculation of required tangential force. The required tangential force varies depending on various conditions.

Power loss when interlocking with idler rollers

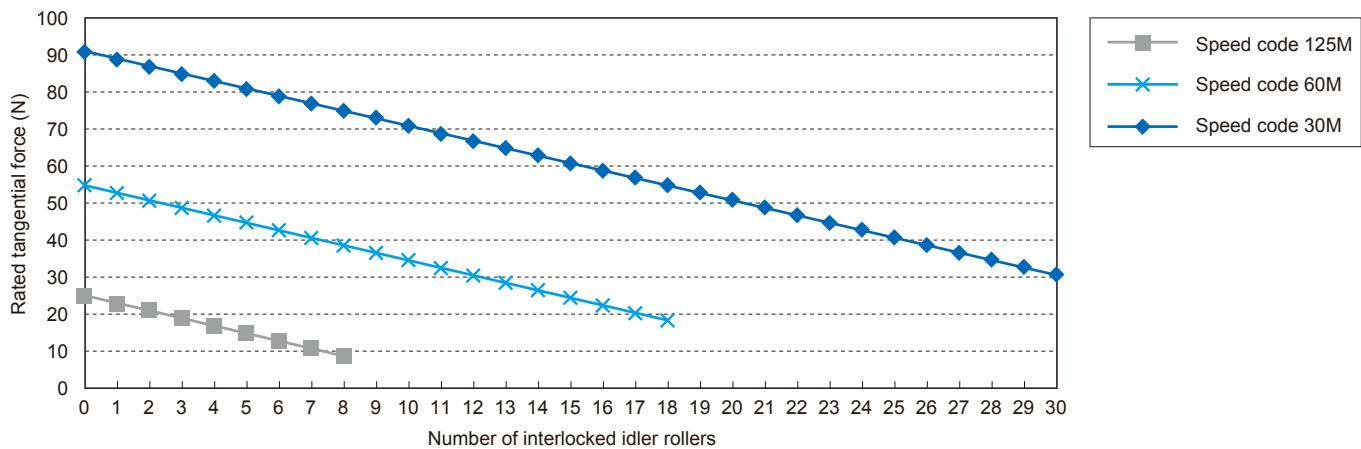
This is very important factor when selecting a model for applications.

As the table below shows that the capability (Tangential force) of PULSE ROLLER is lost when interlocking with idler rollers.

SENERGY – Eco mode, Micro-V pulley type



SENERGY – Boost mode, Micro-V pulley type



RULLI MOTORIZZATI A CINGHIE POLY V

SERIE 2250



D	T	Asse	Tubo		
			Acciaio Z/P	SS	Alluminio
Ø48.6	1.5	11hex, Ø10/12/15	√	√	
Ø50	1.5	11hex, Ø 10/12/15	√	√	√

1. La puleggia Poly-Vee si trova all'estremità del rullo che mantiene la zona sotto il livello di trasporto rendendo il trasporto scorrevole, ad alta velocità e con basso rumore.
2. La testata del cuscinetto è costituita da un cuscinetto a sfere di precisione, un alloggiamento in polimero e una protezione terminale. Combinati forniscono un rullo bello, liscio e funzionale.
3. Il design del cappuccio terminale protegge i cuscinetti fornendo un'eccellente resistenza alla polvere e agli spruzzi d'acqua.
4. Poly-Vee della serie PJ ISO9982. Totale di 9 scanalature con passo di 2,34 mm.
5. Varie lunghezze della cinghia PJ disponibili per adattarsi a diversi passi dei rulli
6. Adatto per le applicazioni ad alta velocità. La velocità massima varia in base alla lunghezza e al diametro del rullo. Velocità massima fino a 120m / min.
7. Intervallo di temperatura: -5 °C ~ + 40 °C.

CINGHIE PER PULEGGIA POLY V

Le cinghie sono striate elastiche appositamente progettate per i convogliatori a rulli

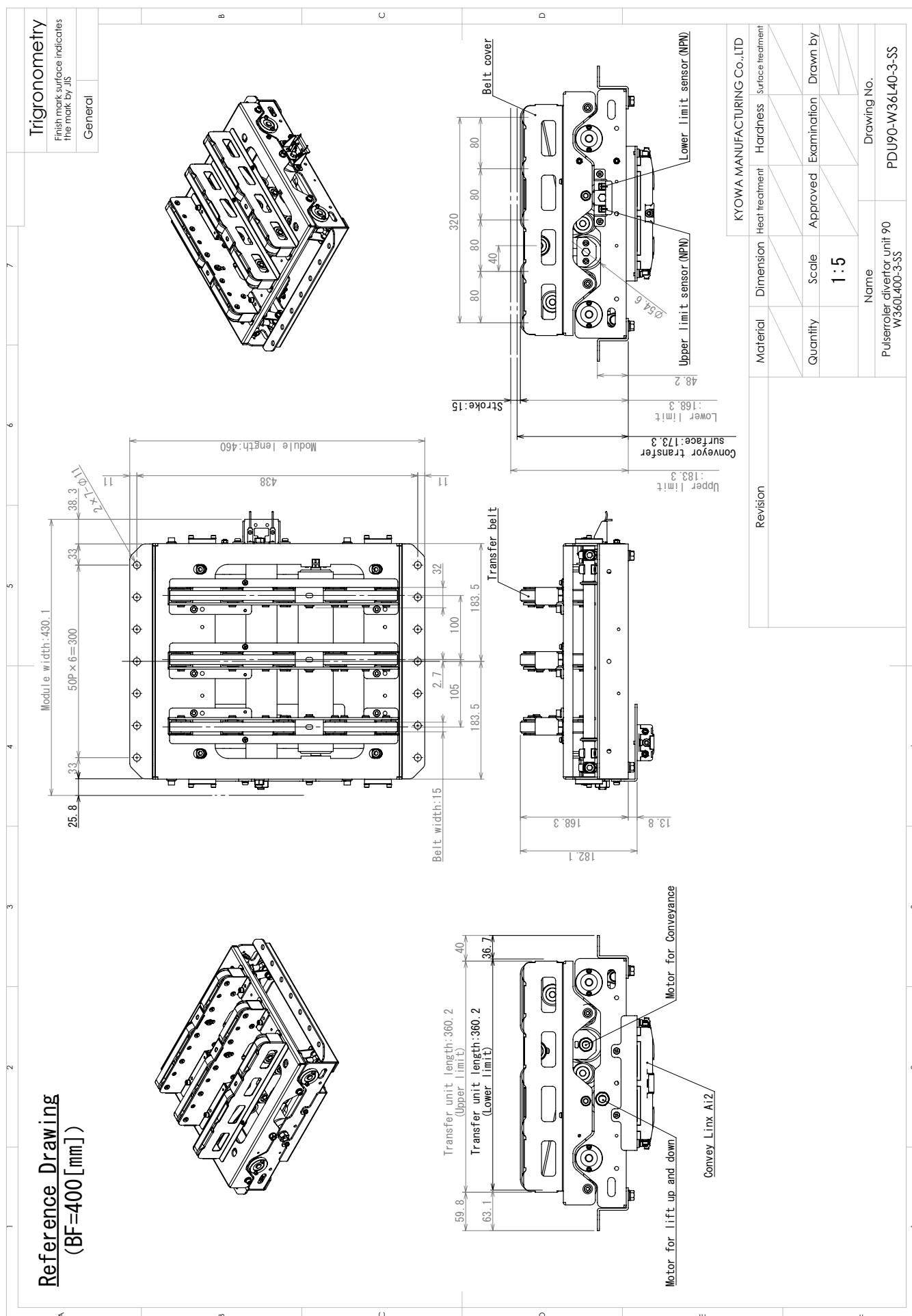


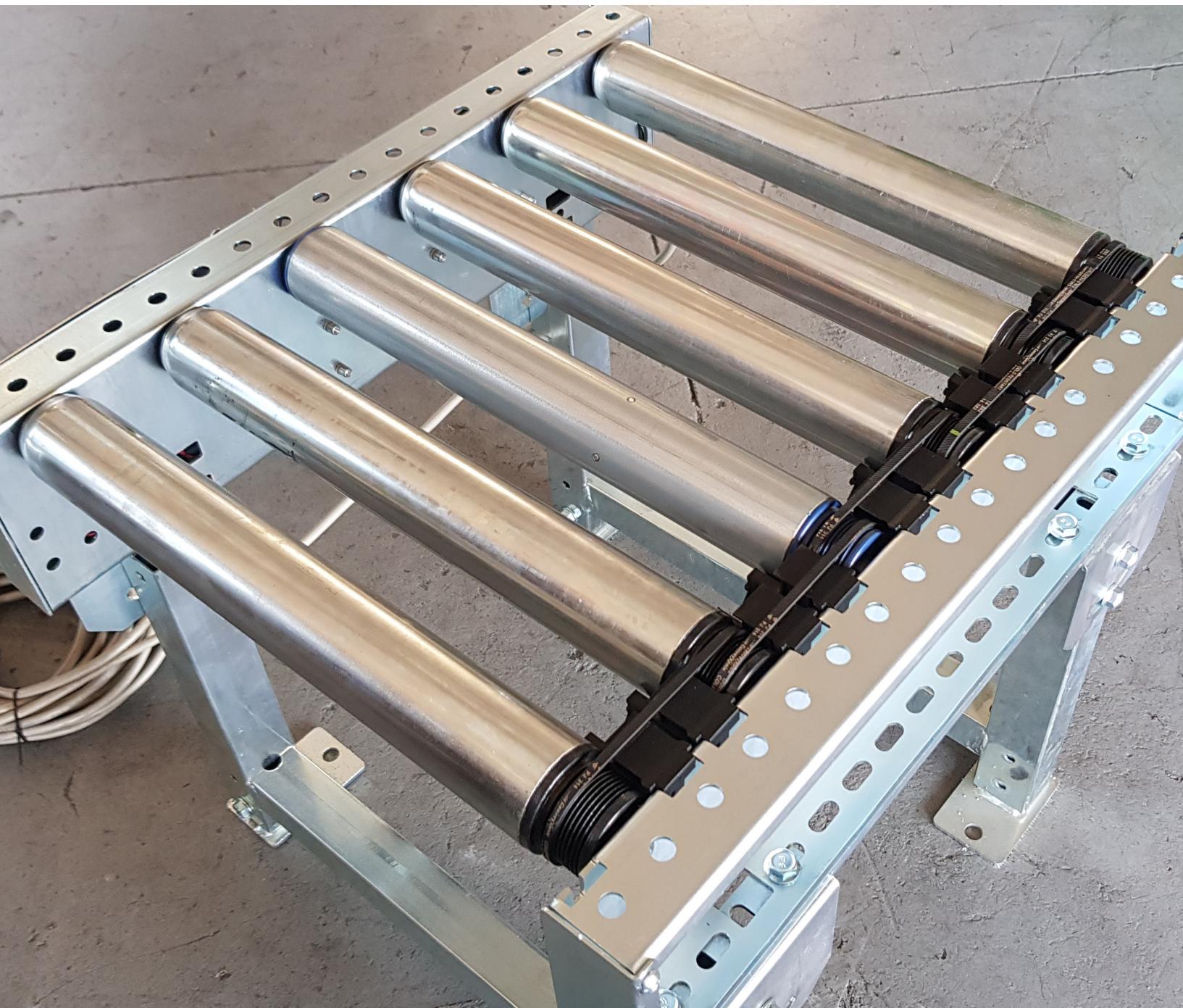
Queste cinghie sono disponibili su misura:

- in 2, 3, 4 denti per il profilo PJ

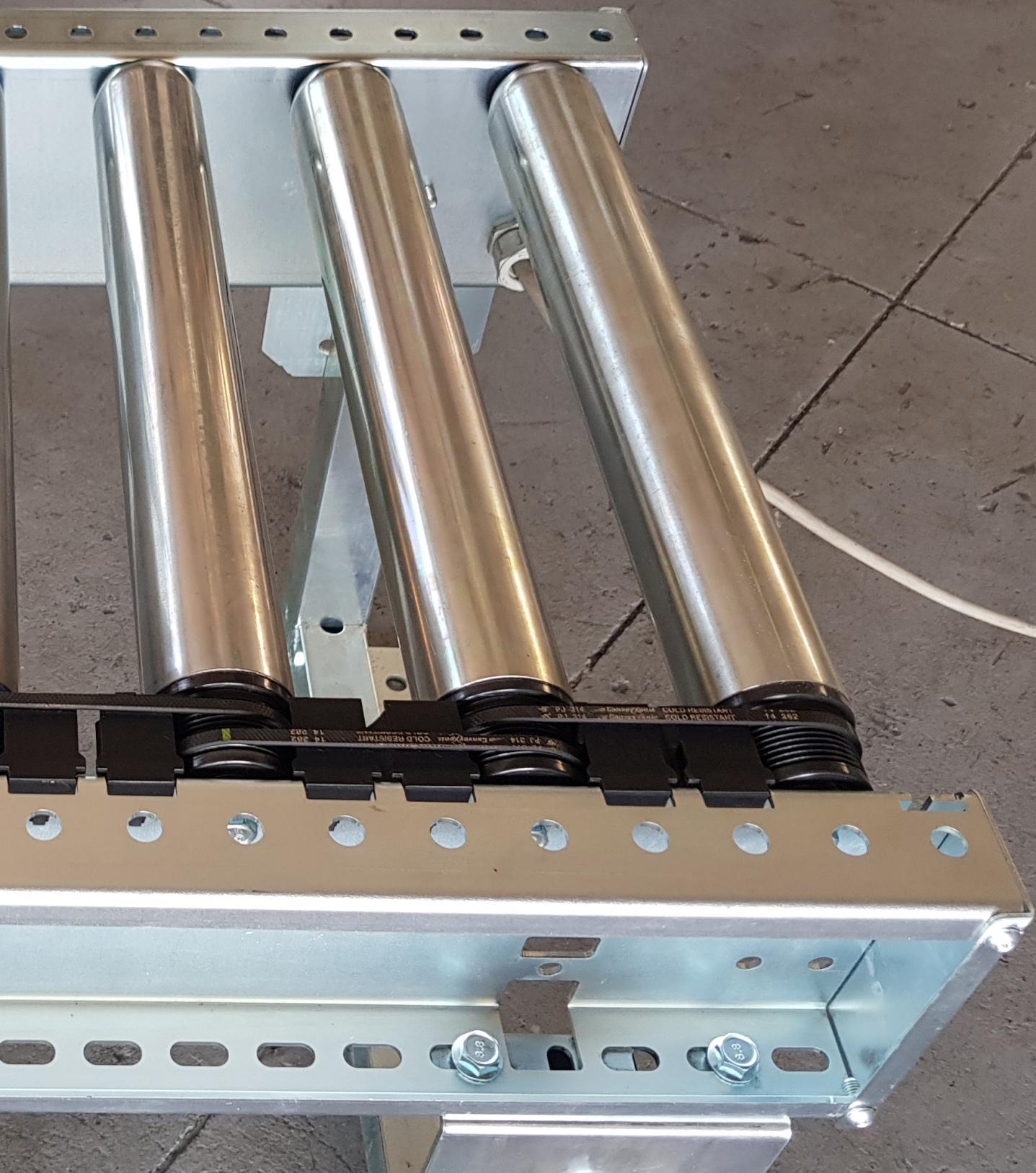
43 MM DIAMETRO DELLA PULEGGIA STRIATA			
2 denti da 1 a 200 kg	3 denti da 201 a 300 kg	4 denti da 301 a 400 kg	Interasse nominale (mm)
PJ236			50
PJ246			da 53 a 56
PJ256			da 60 a 63
PJ265			da 64 a 65
PJ270			da 66 a 67
PJ282			da 71 a 72
PJ286			da 73 a 75
PJ290			da 76 a 78
PJ302			da 80 a 84
PJ314			da 87 a 91
PJ316			da 92 a 95
PJ336			da 97 a 101
PJ346			da 103 a 107
PJ372			da 115 a 118
PJ376			da 119 a 121
PJ388			da 123 a 128
PJ416			da 129 a 134
PJ436			da 142 a 147
PJ442			da 150 a 156
PJ456			da 157 a 161
PJ486			da 170 a 176
PJ536			da 196 a 202
PJ570			da 208 a 215
PJ636			da 254 a 258
PJ746			da 305 a 310













SOLUZIONI PER LA MOVIMENTAZIONE

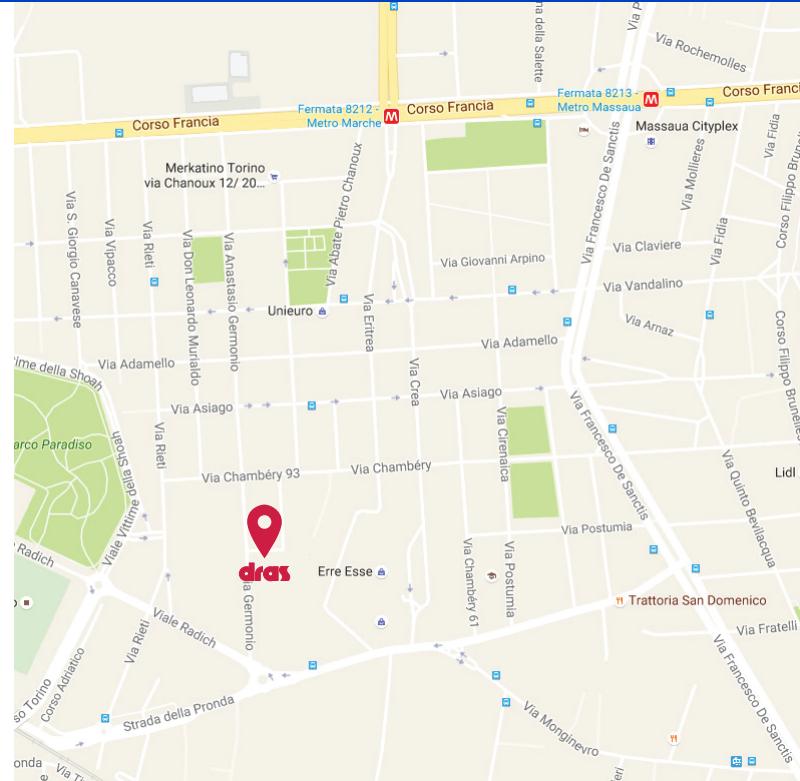


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