

Senergy-Ai

24V



The ingenious motor roller.

The Senergy-Ai 24V from Pulseroller is the standard motorized roller for all 24V conveyor applications. It offers you reliability, solid mechanical design and the opportunity to control your motor roller with the Pulseroller control of your choice. Due to different configurations and requirements, there is a suitable control for every configuration.

General Technical Data

- **Voltage:** 24V DC
- **Nominal Output (mech.):** 50W
- **Protection Class:** IP54/IP66/IP69K
- **Rated Current:** ECO: 2,5A | BOOST: 3,5A | BOOST-8: 3,5A
- **Starting Current:** ECO: 3,0A | BOOST: 5,0A | BOOST-8: 8,0A
- **Connection:** M8 - 4Pin Connector
- **Ambient Temperature:** -30°C - 0°C (Freezer) | -10°C - +40°C (Standard, WashDown)
- **Ambient Humidity:** 10% – 90% (No Condensation)
- **Tube Material:** Zinc-plated steel, Stainless steel
- **Lagging Options:** Conical segments, Crowned tube, PVC, PU
- **Implementation Options:** Standard, Freezer, WashDown
- **Certifications:** UL, CE, UKCA, RoHS, REACH

Characteristics Data Eco-Mode and Boost-Mode

Speed Code	Gearbox	Max. Speed m/s*		Rated Torque Nm		Acceleration Torque Nm	
		Eco	Boost	Eco	Boost	Eco	Boost
15	3-stage	0,34	0,25	2,7	4,86	4,46	8,02
20		0,46	0,33	1,98	3,56	3,27	5,88
25		0,56	0,42	1,62	2,92	2,67	4,81
35	2-stage	0,83	0,58	1,2	2,16	1,98	3,56
45		1,01	0,75	1,0	1,8	1,65	2,97
60		1,38	1,0	0,73	1,32	1,21	2,18
75		1,69	1,25	0,6	1,08	0,99	1,78
95	1-stage	2,23	1,58	0,52	0,93	0,86	1,54
125		3,04	2,08	0,37	0,67	0,61	1,1
175		4,1	2,92	0,27	0,48	0,44	0,79
215		5,1	3,58	0,22	0,4	0,37	0,66

* The speed can be reduced to 10% with our controls. Recommended working range 100% to 50%.

Benefits

- **Reliable mechanical design**
- **Error-Free gearbox design**
- **Option for precise positioning**
- **Excellent life expectancy**
- **High overload capacity**
- **High acceleration torque**

Features

- **Brushless 24V DC motor**
- **External motor controller**
- **M8-4Pin standard connector**
- **Internal data memory**
- **IP54/IP66/IP69K**
- **Remote control versatility and diagnostics**



M8-4Pin standard connector

M8-4Pin standard connector on ConveyLinX-Ai2 24V

When it comes to ensuring high throughput and reliability in roller conveyors, both solid mechanical design and versatile control systems are crucial. Pulseroller delivers on both fronts with the Senergy-Ai motorised roller, a cutting-edge solution that sets a new standard in conveyor technology. Proven in realworld applications, Senergy-Ai is designed to meet the demands of today's intralogistics while being adaptable for future needs.

The Senergy-Ai motorised roller features an integrated 24V DC brushless motor paired with a robust planetary gearbox. This combination provides a powerful and dynamic drive solution, ideal for the most demanding applications in any intralogistics conveyor system. With its self-contained design, Senergy-Ai offers a drive unit that is incredibly quiet, highly efficient, and virtually maintenance-free.

You can decide how you want to control your motor roller!

EasyRoll+

EasyRoll+ is our self-developed ZPA mode tool for flawless and user-friendly use of our Senergy-Ai in combination with an Ai control of your choice.

For example, you have the option of creating offline projects and uploading them to your online project later. It is also possible to read out the individual modules for diagnostic purposes using the integrated backup viewer and thus also view the power and performance of the motorised roller.

PLC-I/O mode

As an alternative to our EasyRoll+ software, you can also use the PLC-I/O mode and control it with the ProfiNet, EtherNet-IP, Modus and CC-Link fieldbus systems

All mentioned field busses of ConveyLinx family operate on one hardware. Pulseroller provides for each of those field busses required driver software individually designed for respective PLCs.



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Learn more
about us!

