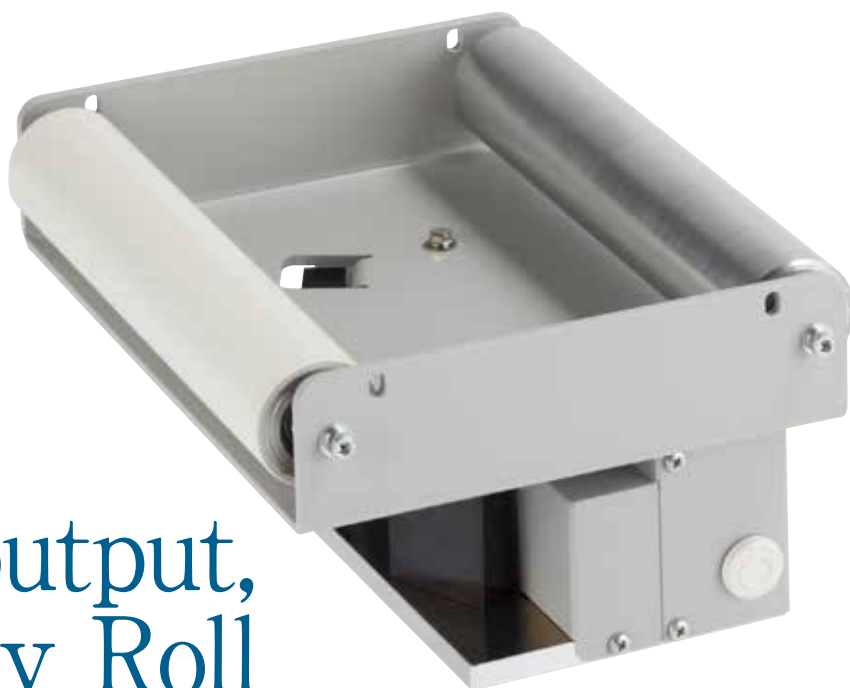




ROLL GUIDER PGM-15



It is high output,
high-rigidity Roll
Guider although
being compact

Outline

PGM-15 is the small roll guider developed for the purpose of having the user who has PG-50, 80, 100, 110 and 800 of the conventional model used transpose to G series, without changing the present installation state greatly.

It applies to a web width of 600 mm or less, and is the optimal as the web meandering correction device of a packaging machine or a hygiene products machine.

Feature

- The maintenance-free brushless DC motor was adopted.
- The ball screw type micro actuator is built in and it can be made to circle in a roll frame powerfully without rattle.
- The revolution torque of a roll frame will be 3 or more times compared with the thing of the conventional gear type.
- The roll frame is low backlash (1/10 or less of the conventional machine), and since it is supported three points in a pivot axis and two cam followers, it is high rigidity roll frame.
- A roller height becomes lower 28 mm than the conventional machine, and since the minimum span of upper winding is 175 mm (it is 220 mm conventionally), a compacter layout is possible.
- Wiring work is easy in order to connect with a PEM type controller or a PSM type sensor only by a connector.



Technical data

		Short Type				Long Type			
Power Source		DC24V ± 20% （It supplies from a CAN bus. ）							
Consumption Current		0.5A （Power Supply Voltage DC 24V）							
Application	Roll Length (mm)	150 ~ 650				200 ~ 650			
	Roll Diameter (mm)	φ 46 、 φ 78							
	Roll Span (mm)	150	175	200	225	250	275	300	400
	Stroke of Correction (mm) ※ 1	±18	±19	±22	±25	±16	±18	±20	±27
	Correction Speed (mm/sec)	17	18	21	24	13	14	15	21
	Web Tension (N) ※ 2	230 （Web Width:250mm）				280 （Web Width:450mm）			
	Web Speed (m/min)	max300							
Roll Material		· Aluminum roll (Alumite treatment No / Yes) · Rubber roll (NBR White) · CFRP (Rubber cork winding No / Yes) In addition, please ask about special specification.							
Installation Environment		Temperature : 0 ~ 40 °C , Humidity : 80%Rh or less （No condensation）							
Mass （A roll frame is excluded.）		3.6kg							
Connection Device	Controller	PEM-200、PEM-3000							
	Sensor	PSM type sensor							
Connection Method		It connects with a CAN bus by a cable with a connector. (Attached cable length : 0.5m) ※ An exclusive cable and a branch connector are required to connect with a CAN bus. These can be prepared at our company. (Option) The connection method should look at the catalog of a PEM type controller.							
Others		< About the localization method of a roll frame > · A center position is set up by proximity switch. The stroke end position sets it with an electronic counter type. (It sets up by a controller.) It moves to a center automatically at the time of power source supplying. (Standards) · The proximity switch for a stroke end detection can be added as an option.							

※ 1 It is the value calculated from the swing angle of the roll frame. (Short type : $\pm 7^\circ$, Long type : $\pm 4^\circ$)

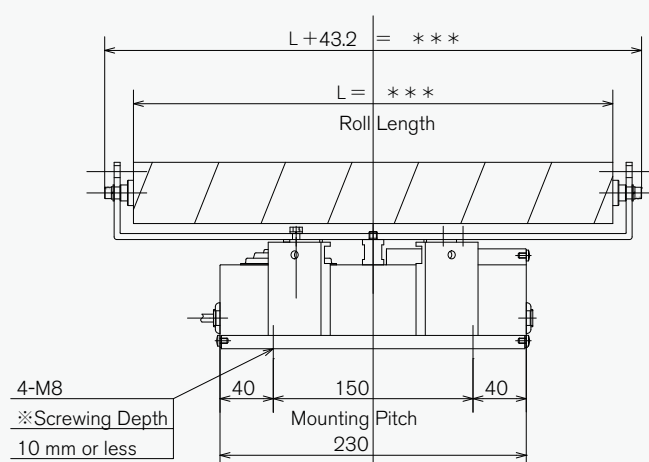
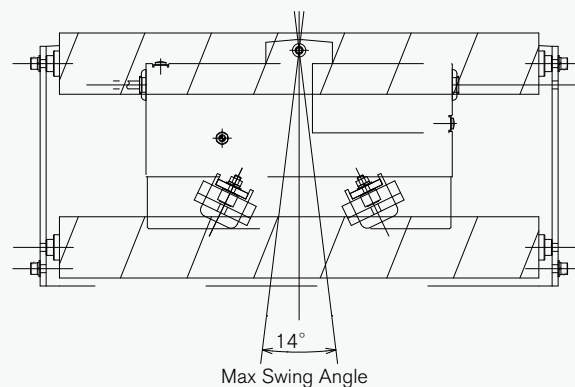
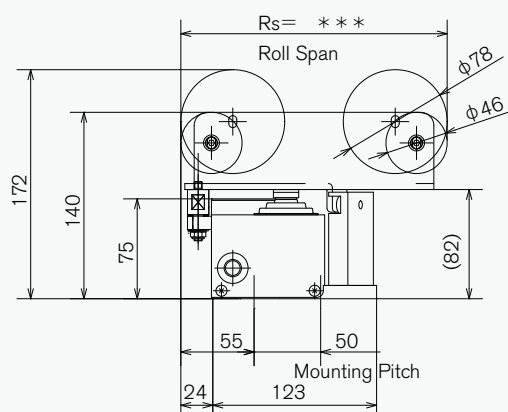
※ 2 Tension is proportional to web width.

Outline Drawing

● Short Type

Application of Roll-Frame

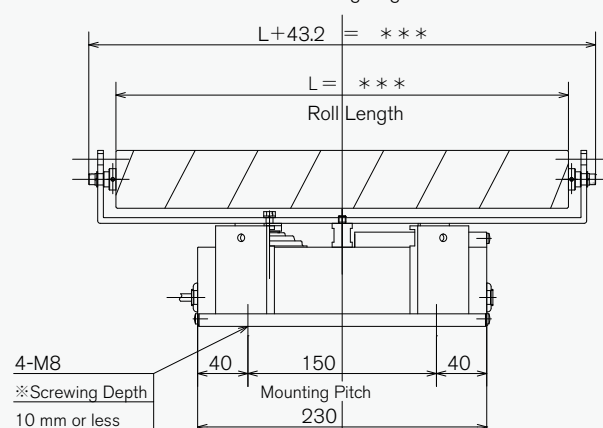
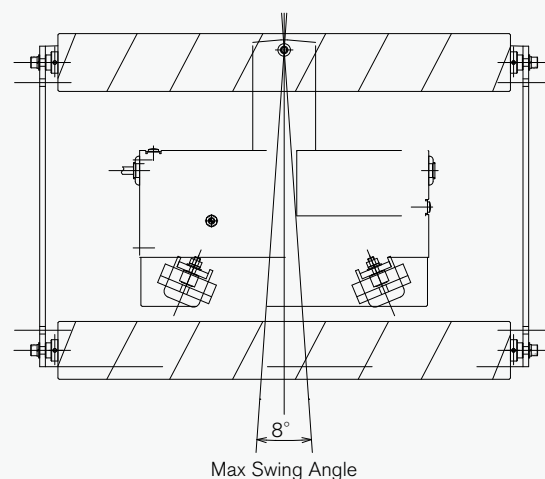
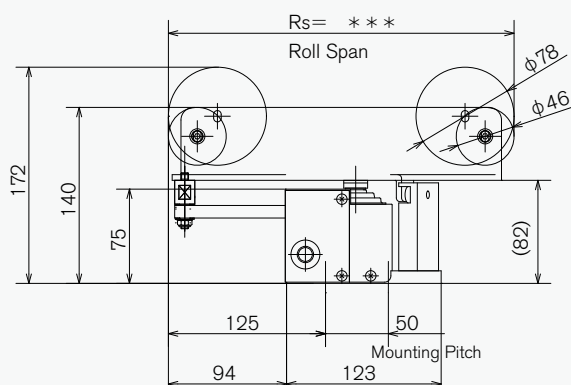
		Roll Length L (mm)							
Span Rs (mm)	150								
	175								
	200								
	225								



● Long Type

Application of Roll-Frame

		Roll Length L (mm)						
Span Rs (mm)	250							
	275							
	300							
	400							



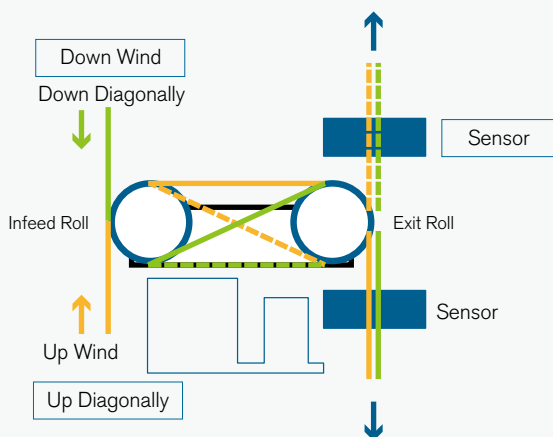


Pass Line

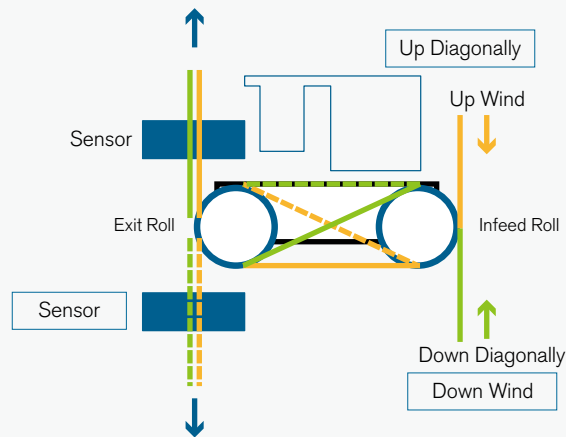
A sensor can be attached in any direction of the upper and lower sides of an exit roll. (However, not less than 175 mm of a roll span) In addition, when the roll span is less than 175 mm, a sensor is attached only above an exit roll.

In the case of the web pass line of a surrounding frame, the sensor is the position of a surrounding frame.

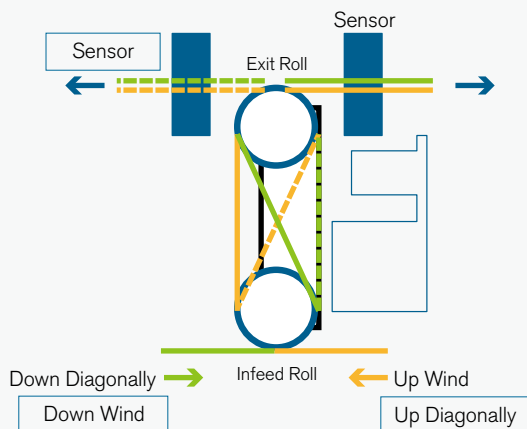
① Horizontal Layout



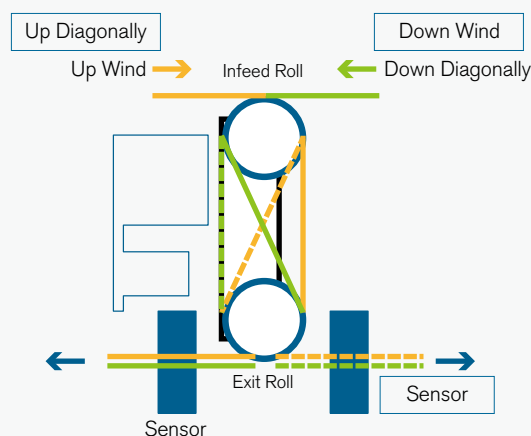
② Reverse Layout



③ Vertical Layout



④ Vertical Layout



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Lending “hands” to replace
human hands.

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