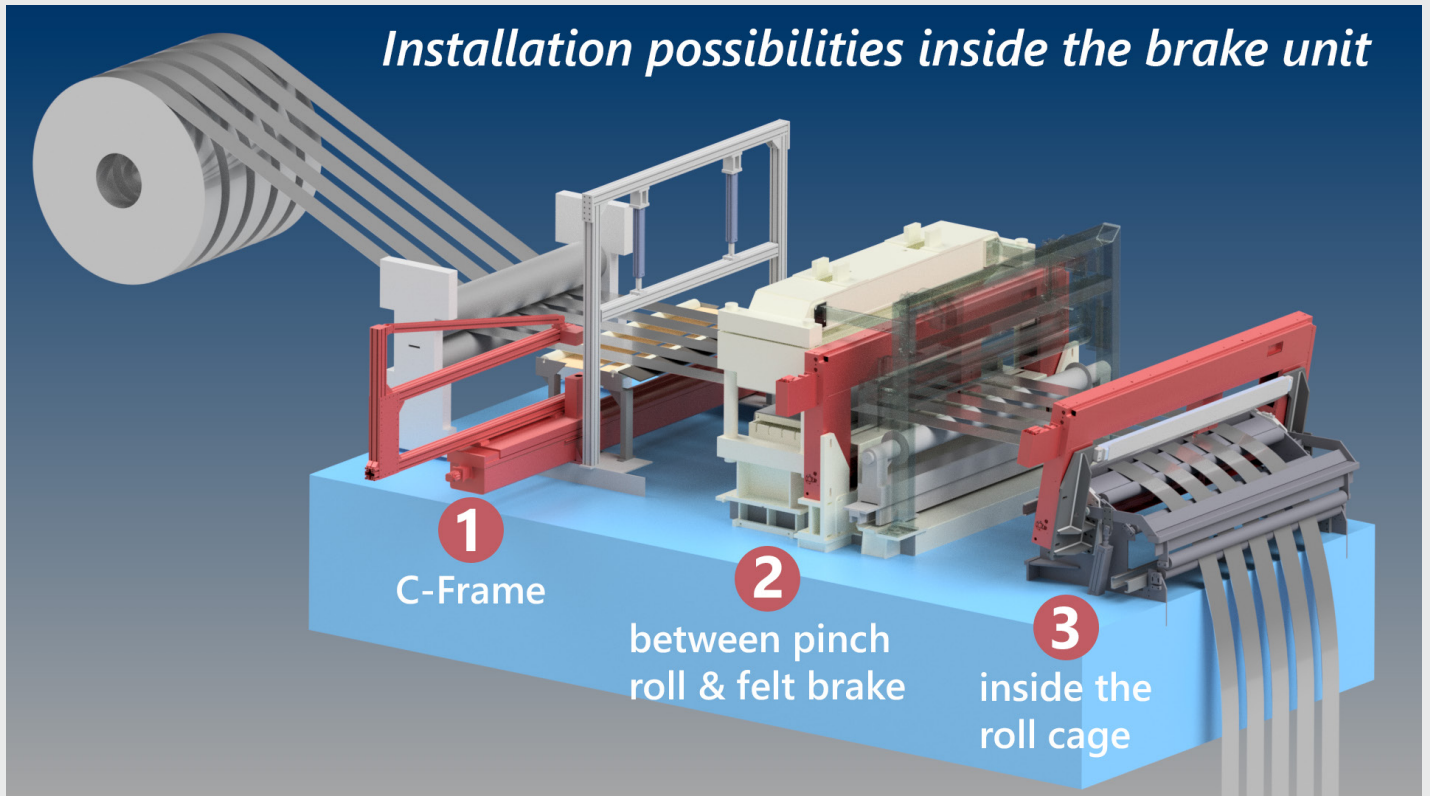


SW

Strip Width Measurement





Installation possibilities and variants of strip width measurement

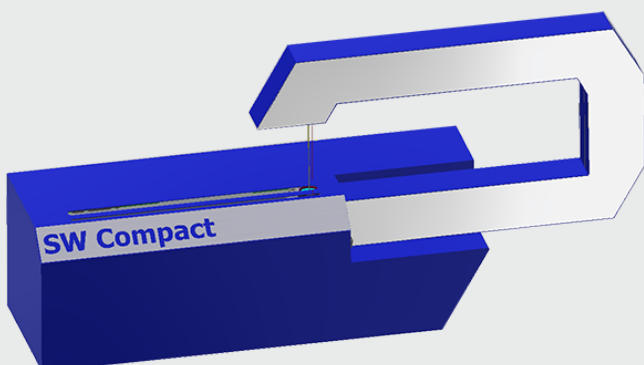
The solutions of our SW series offer measurement capable width measurement of slit strips in slitting lines. It is suitable for several positions within the brake frame: The C-frame construction **1** can be positioned flexible whereas the variant with a closed frame fits the space between felt press and pinch roll **2** as well as the space within the roller cage **3**. The mostly tight construction of the production line is thus used best. The stable construction of the system itself allows a repeatable and high quality measurement. By saving setup time, reducing the risk of accidents, working highly efficient, the systems are cost efficient in next to no time.

Characteristics:

- surface independent
- fast measurement
 - e.g. 20 seconds at 1850 mm measurement width

Optional:

- + thickness measurement



The compact version SW-C suits especially small slitting lines up to 650 mm.

The space saving **SW-C** system has been constructed especially for small slitting lines with a measurement width of up to 650 mm. The camera is attached to a stable traversing axis and moves along the slitted belt. The backlight is attached to move adjacently to the camera below the belt.



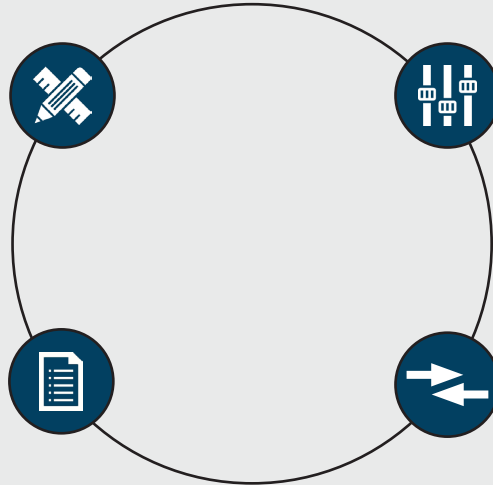
Take a look:
www.imes.com/vertrieb/SW-C.mp4

Capable measuring tool

The measurement instruments reach an accuracy of $\pm 0,01$ mm in order to measure product tolerances of up to $\pm 0,1$ mm measurement capable and with an index of $cg > 1,67$.

Detailed documentation

All measurements are documented thoroughly. The results can be exported for archiving and follow-up for instance in an Excel readable file.



Calibration

The DakkS certified calibration normal proves the measurement capability of the system. The software guides the user easily in only a few steps through the calibration process.

Interface compatible

The imess measurement module can be connected to the customer's PLC via several interfaces. In addition, the measurement values can be transmitted to various CAQ systems (such as SAP, databases etc.).

No.	Measured width	Tol.	Tol.	Actual width	Deviation	Control
26	13,150	0,050	0,050	13,149	-0,001	0,25
15	13,150	0,050	0,050	13,154	0,004	0,25
18	13,150	0,050	0,050	13,151	0,001	0,25
17	13,150	0,050	0,050	13,208	0,058	0,26
16	13,150	0,050	0,050	13,152	0,002	0,25
13	13,150	0,050	0,050	13,152	0,002	0,27
14	13,150	0,050	0,050	13,157	0,007	0,26
12	13,150	0,050	0,050	13,156	0,006	0,27
10	13,150	0,050	0,050	13,149	-0,001	0,26
11	13,150	0,050	0,050	13,151	0,001	0,27
9	13,150	0,050	0,050	13,089	-0,061	0,26
8	13,150	0,050	0,050	13,156	0,006	0,26
6	13,150	0,050	0,050	13,156	0,006	0,26
7	13,150	0,050	0,050	13,153	0,003	0,26
5	13,150	0,050	0,050	13,151	0,001	0,26
3	13,150	0,050	0,050	13,151	0,001	0,26
4	13,150	0,050	0,050	13,151	0,001	0,27
2	13,150	0,050	0,050	13,149	-0,001	0,26
1	13,150	0,050	0,050	13,148	-0,002	0,26
1	13,150	0,050	0,050	13,148	-0,002	0,26

Software interface after measurement

Control Measurement

Personnel number: permitted deviation: +/- 0,10 mm

		nominal width	actual width	manual value	Deviation
last strip	Motor Side:	<input type="text" value="50,00"/>	<input type="text" value="50,1"/>	<input type="text" value="50,01"/>	
				<input type="text" value="50,15"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> 0,04 mm
				<input type="text" value="50,02"/>	
1st strip	Operator Side:	<input type="text" value="100,00"/>	<input type="text" value="100,08"/>	<input type="text" value="100,08"/>	
				<input type="text" value="100,04"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> 0,02 mm
				<input type="text" value="100,06"/>	

Continual control measurement to verify the system

User-friendly software

The results are shown in a table numerically and graphically on screen. Apart from nominal and actual values, the table also lists the tolerance exceedance of every strip. They are signalled at once.

Control Measurement

The control measurement allows a regular check of the system. The manually measured values are compared to the system values and exceedances are evaluated.

System	Meas. width (mm)	Number of strips	Material thickness (mm)	Accuracy (mm)
SW-C	5 - 650	Unlimited	0,1 - 3	$\pm 0,01$
C-Frame	5 - 1900	Unlimited	0,1 - 5	$\pm 0,01$
Closed frame	5 - 2400	Unlimited	0,1 - 5	$\pm 0,01$
			5 - 12	$\pm 0,02$

Guide values | system-specific changes and further dimensions on demand

