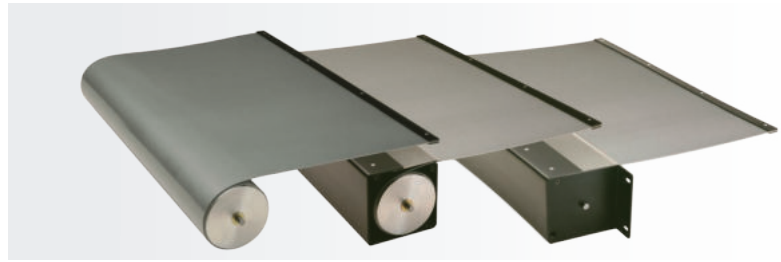## Roll-up Covers

P.E.I. Roll-up Covers are normally equipped with our patented system of multiple springs. This offers countless advantages:

- **Reliability**
- **Compact size**
- **Extremely high speeds**
- **Easy installation**
- **Resistance to high and low temperatures**
- **Constant tensioning**
- **1,000,000 movements guaranteed**
- **Special roll-up covers for machine tools**

CERAMIX Band

AEROSPACE TECHNOLOGY IN MACHINE TOOLS: a potent and cost-effective innovation

- **CERAMIX** is a band material covered by a high ceramic polymer coating.
- **CERAMIX** is highly resistant against the impact of hot shavings during dry-working.
- **CERAMIX** has an excellent abrasion resistance and shear strength and is recommended for the use of mineral oils.
- **CERAMIX** band material has a **thickness of 1,6 mm and weights 2 kg/sqm**. It is self-extinguishing and antistatic.
- **CERAMIX** can be installed on any **P.E.I.** roll-up cover with mechanisms starting from 70 mm of roller diameter.

CERAMIX LIGHT Band

**Identical resistance at half the weight**

- **CERAMIX LIGHT** offers all the characteristics of CERAMIX but at a **thickness of 0,9 mm and 1 kg weight per sqm**.
- **CERAMIX LIGHT** is self-extinguishing and antistatic.
- **CERAMIX LIGHT** is suitable for mechanisms with a tube diameter starting from 20 mm.

A glance through the microscope shows a **mesh of ceramic particles** which protect their own composite material against the strong impact of shavings.
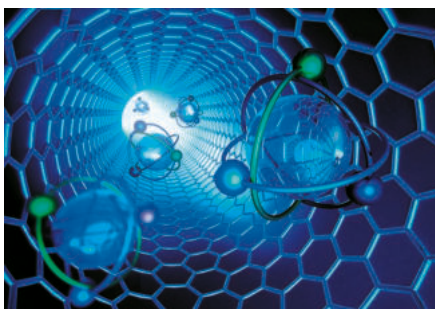
Roll-up Covers without Canister
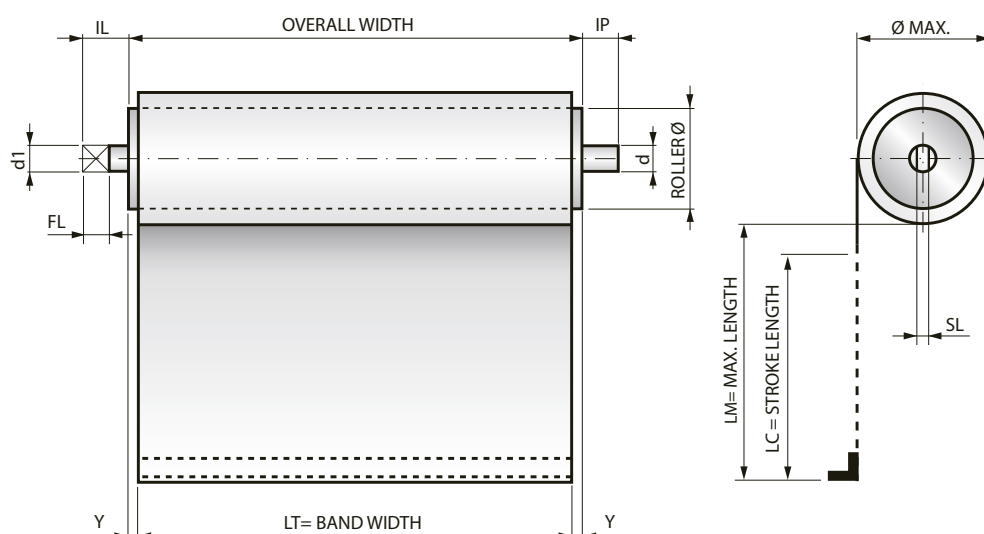
LM		2 · Y =
from	to	
0	400	4
401	600	5
601	800	6
801	1200	8
1201	1600	10
1601	2400	14
2401	3000	18
3001	3850	22
3851	4700	26
4701	5550	32

Shaft sizes
Standard Roll-up Covers

Ø ROLLER	d1	IL	FL	SL	d	IP
30	6	8	8	2,6	7	8
40-50-60-70 80-90-100-120	10	15	12	4	10	10

For special working conditions, our engineering department can adjust these dimensions. Carefully review the drawing enclosed with the proposal.

SURE-SPRING® Roll-up Covers

Ø ROLLER	d1	IL	FL	SL	d	IP
39-52-71	10	15	12	4	10	10

Formula for calculating the OVERALL WIDTH

OVERALL WIDTH = LT + 2Y

Example:
LM = 1000   LT = 500   2Y = 8
OVERALL WIDTH = 508
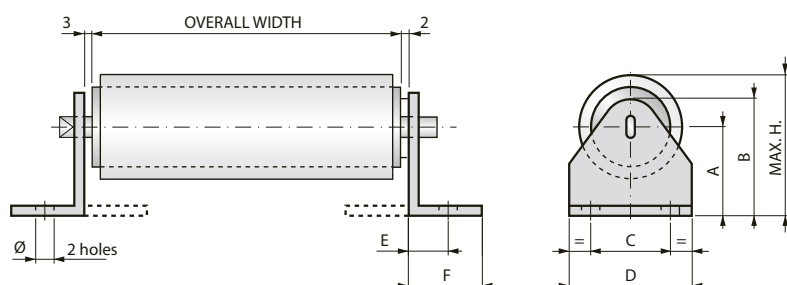
Measurements for standard supports

Code	A	B	C	D	E	F	Ø	Hmax	Material
033	33	45	26	40	11	18	6,5	59	galvanized Fe 15/10
050	50	62	26	40	11	18	6,5	93	galvanized Fe 15/10
060	60	76	36	50	15	22	6,5	112	galvanized Fe 20/10
080	80	96	42	60	17	26	6,5	151	galvanized Fe 25/10
119	119	136	54	106	37	70	10	225	galvanized Fe 40/10

Formula for calculating max. Ø

$$\text{Ø MAX.} = 2 \cdot \sqrt{\frac{L \cdot s \cdot 1,20}{\pi} + r^2}$$

L = MAX. LENGTH TO WIND
s = BAND THICKNESS*
r = ROLLER Ø/2

(* see materials list on pages 60-61)

Dimensions in mm.

Roll-up Covers with Canister

Enclosing the roller offers many advantages:

- **Protects roller from accidental impact**
- **Integral wiper keeps band clean**
- **Attractive appearance**

- **Wide variety of fastening systems**
- **Materials: Aluminum, Steel, Stainless Steel**
- **1,000,000 movements guaranteed**
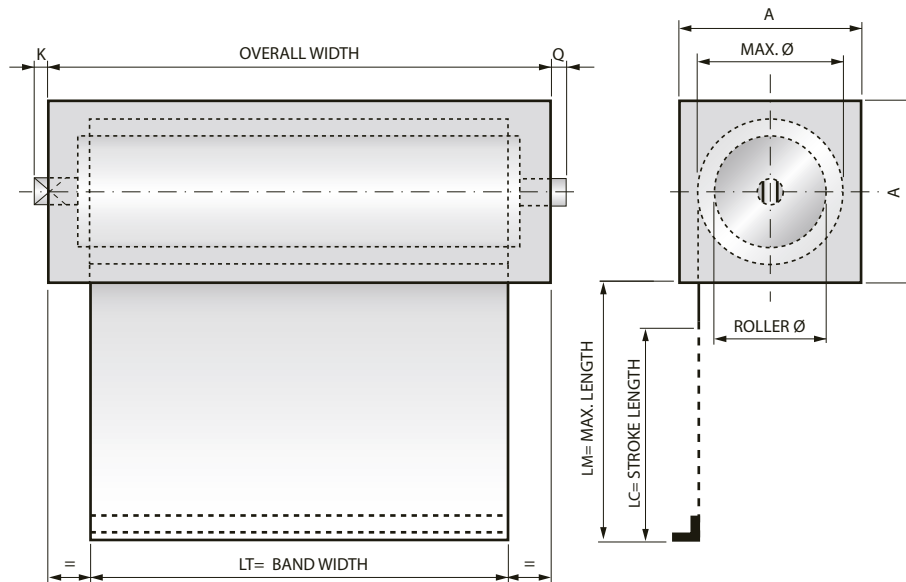
Canisters A x A
40 x 40
50 x 50
60 x 60
70 x 70
80 x 80
90 x 90
100 x 100
110 x 110
120 x 120
130 x 130
140 x 140
150 x 150

Canister material	K	Q	Z*
Aluminum	3	1	25
Steel	10	7	13
Stainless steel	10	7	13

Z* = FIXED COEFFICIENT

Recommended sizes

These tables list the recommended MAX. BAND LENGTH based on the OVERALL WIDTH.
The values shown are guaranteed at a MAX. SPEED of 40 m/min.
For higher speeds and for sizes not indicated in the tables, contact our engineering department

All the Roll-up Covers with or without Canister are manufactured to order.

Ø ROLLER 30	OVERALL WIDTH	150	250	350	500	750	1000	1250	1500
	MAX. LENGTH	300	500	650	800	1000	1200	1350	1500
Ø ROLLER 40	OVERALL WIDTH	150	250	350	500	750	1000	1250	1500
	MAX. LENGTH	400	600	900	1200	1500	1800	2000	2200
Ø ROLLER 50	OVERALL WIDTH	150	250	350	500	750	1000	1250	1500
	MAX. LENGTH	450	700	1050	1350	1650	2000	2250	2450
Ø ROLLER 60	OVERALL WIDTH	150	250	350	500	750	1000	1250	1500
	MAX. LENGTH	500	1000	1600	1900	2200	2500	2750	3000
Ø ROLLER 70	OVERALL WIDTH	150	250	350	500	750	1000	1250	1500
	MAX. LENGTH	550	1100	1750	2050	2350	2600	2900	3150
Ø ROLLER 80	OVERALL WIDTH	150	250	350	500	750	1000	1250	1500
	MAX. LENGTH	700	1300	2000	2350	2700	3100	3400	3700
Ø ROLLER 90	OVERALL WIDTH	150	250	350	500	750	1000	1250	1500
	MAX. LENGTH	750	1400	2150	2500	2850	3200	3550	3850
Ø ROLLER 100	OVERALL WIDTH	150	250	350	500	750	1000	1250	1500
	MAX. LENGTH	800	1500	2300	2650	3000	3300	3700	4000
Ø ROLLER 120	OVERALL WIDTH	150	250	350	500	750	1000	1250	1500
	MAX. LENGTH	850	1600	2450	2800	3150	3400	3850	4150

Size examples for SURE-SPRING® Roll-up Covers

Ø ROLLER 39	OVERALL WIDTH	250	350	500	750	1000	1250	1500
	MAX. LENGTH	850	1250	1650	2000	2500	3000	3850
Ø ROLLER 52	OVERALL WIDTH	250	350	500	750	1000	1250	1500
	MAX. LENGTH	1000	1500	2000	2500	3000	3850	4700
Ø ROLLER 71	OVERALL WIDTH	250	350	500	750	1000	1250	1500
	MAX. LENGTH	1400	2100	2400	2850	3700	4800	5550

Formula for calculating the Minimum canister size = A

$$A = MAX\ Ø + 8$$

Formula for calculating the OVERALL WIDTH

With Steel and Stainless Steel canister

$$OVERALL\ WIDTH = LT + Z + 2Y* + \left(\frac{LM}{100}\right)$$

Example with Steel canister:
LT= 500   2Y= 8   LM =1000
LM/100 =10   Z= 13

OVERALL WIDTH = 531
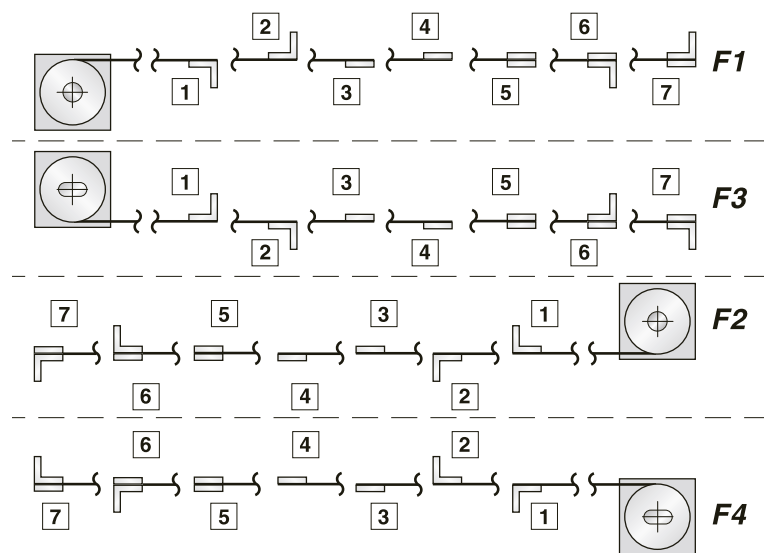(* see 2Y table on page 14)
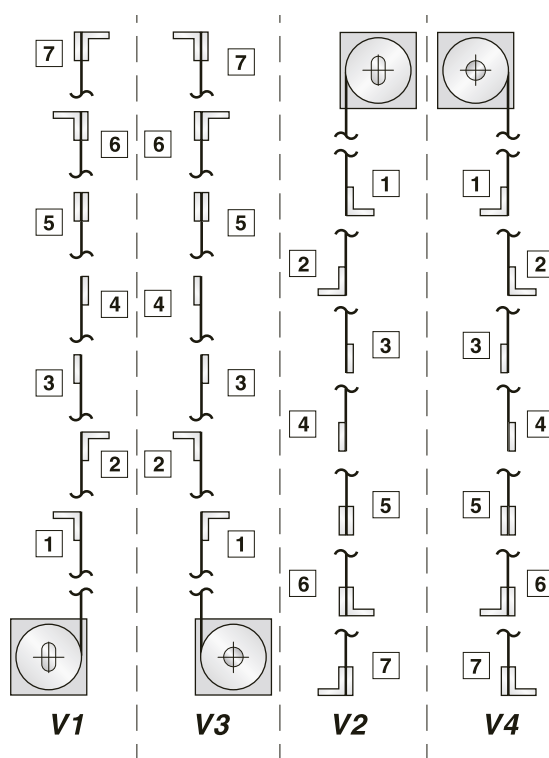
Dimensions in mm.

Installing Roll-up Covers

This diagram is valid for all Roll-up Covers, and shows:

- **Terminal type**
- **Terminal position on the band**
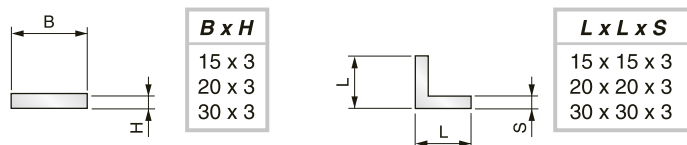- **Band output direction**
- **View of shaft/tab**
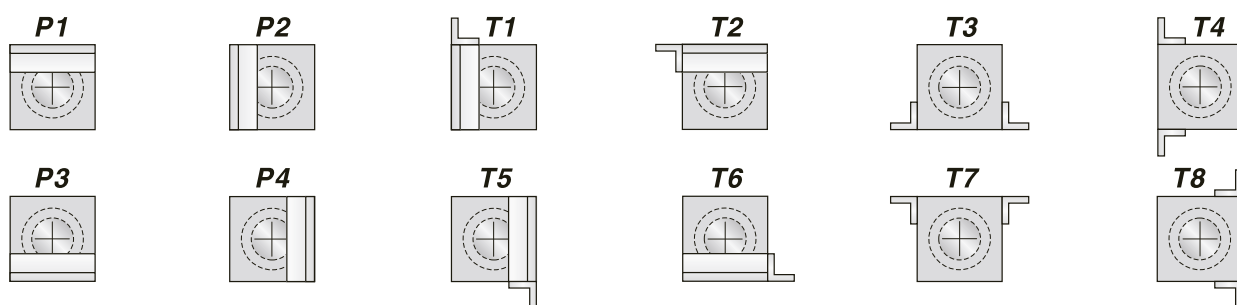
Horizontal and frontal positions

F1
F3
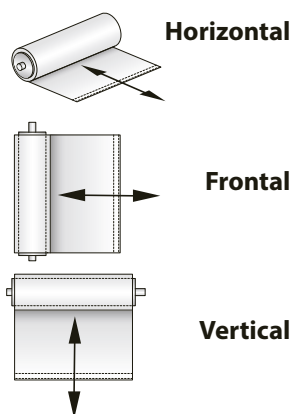**F2**
F4

Vertical positions

V1   **V3**   **V2**   **V4**

Terminal materials: Aluminum, Steel

B x H
15 x 3
20 x 3
30 x 3

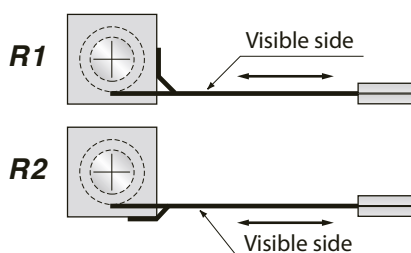| L x L x S |
|-----------|
| 15 x 15 x 3 |
| 20 x 20 x 3 |
| 30 x 30 x 3 |

Standard canister mounting systems: To describe the canister attachment system, place one of the drawings <u>below</u> over the selected roll-up cover position, <u>above</u>. Do not rotate either drawing.
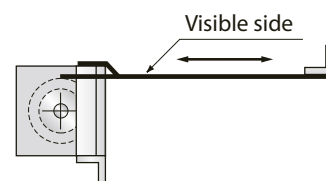

P1   **P2**   **T1**   **T2**   **T3**   **T4**
P3   **P4**   **T5**   **T6**   **T7**   **T8**

Positions

Horizontal

Frontal

Vertical

Wiper: This diagram shows the 2 ways to install the wiper to the canister.

R1   Visible side
R2
          Visible side

Example assembling code

Visible side

Working position	F1
Terminal attachment	2
Canister attachment	T5
Wiper position	R2

ROLL-UP COVERS FOR LATHES

P.E.I. ROLL-UP COVERS for LATHES respond to the need to limit hazards caused by movement of the lead screw and/or spline shaft (Conforming to norm for Machinery Directives 2006/42/CE).

**P.E.I. ROLL-UP COVERS for LATHES** offer the following advantages:

- Ease of installation.
- Adaptable to any type of lathe.
- Compact size.
- Shatter-proof in case of accidental breakage.

CHARACTERISTICS OF ROLL-UP COVERS:

- BRACKET of galvanized steel for fastening to the machine.
- BAND of coolant and oil resistant fabric.
- RETURN MECHANISM with single or multiple springs.
- **CANISTER UPON REQUEST**
- Contact our engineering department for housings and cover guards PER CUSTOMER DRAWINGS.
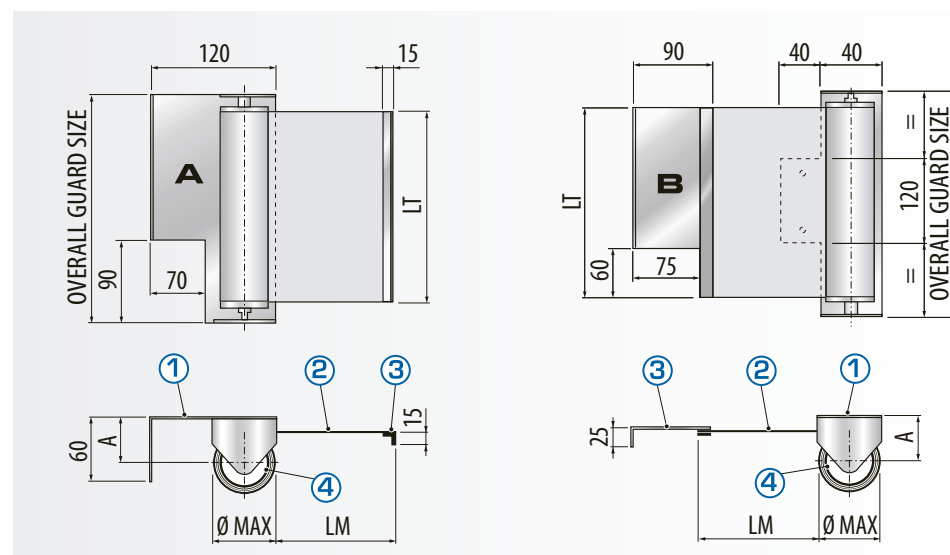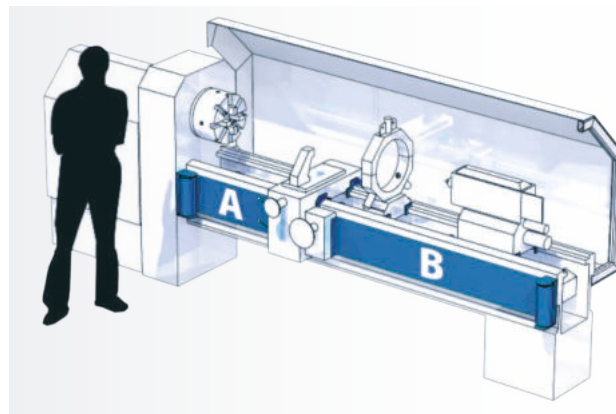
KEY:

① ③ **BRACKETS**: of galvanized steel

② **BAND:** of coolant and oil resistant fabric

④ **RETURN MECHANISM:** with single or multiple springs

|		STANDARD SIZE			
Code	Description	ID Code			
		LT150LM1200	LT200LM1500	LT200LM2000	LT250LM3000
LT	Band Width	150	200	200	250
LM	Max. Length	1200	1500	2000	3000
Ø MAX	Max. Diameter	48	52	62	83
A	Distance between supports	33	50	50	50
	Measurements in mm. - OVERALL GUARD SIZE = LT + 30				

ROLL-UP COVERS REVISION

- Overhaul of ALL TYPES of ROLL-UP COVERS AND SHUTTERINGS WITH OR without Canister
- Replacement of the damaged FLEXIBLE COVER, SHUTTERING or BAND
- Replacement of the MECHANISM
- Replacement of WIPERS or other COMPONENTS if worn-out
- Cleaning and buffing of ALL SURFACES to original finish
- If the roll-up cover should be too damaged, we can build a new one.
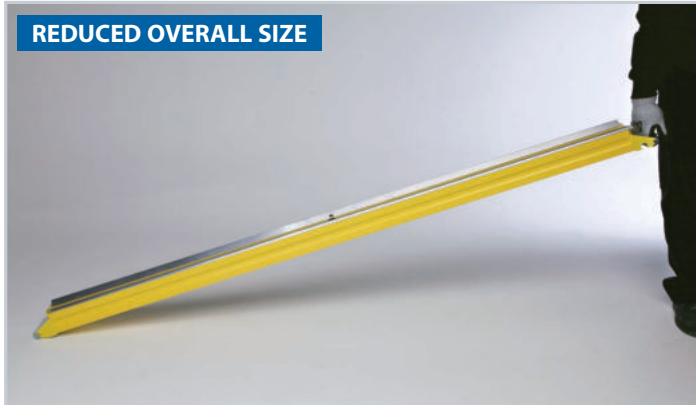
SHORT DELIVERY TIME

Dimensions in mm.

BEFORE

AFTER
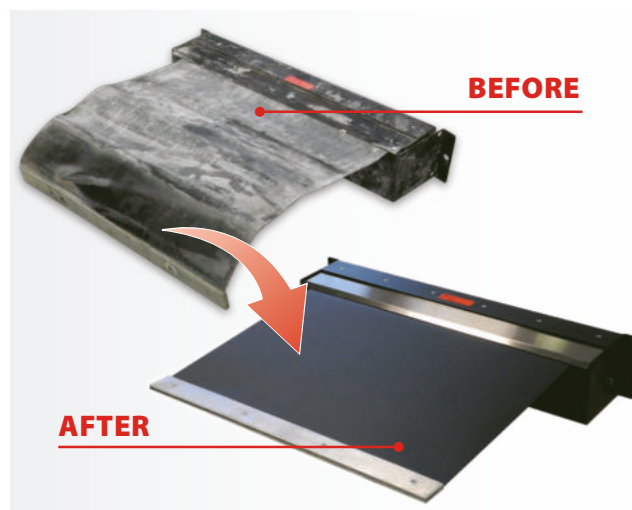
WELD SCREEN

WELD SCREEN: A mobile safeguard for welding work stations.

- **WELD SCREEN** is equipped with an anti-glare foil which can be unwound and used as a separating blind between welding and honing work stations.

- **WELD SCREEN** serves as a safety barrier and screen protecting uninvolved personnel from the harmful effect of welding radiation and reflections on the eyes and skin. The semi-transparent protective shield also offers optimal protection against weld spatter and flying sparks. Due to its foldaway construction, it has limited external measurements and is therefore easily transportable (weight: 8,9 kg).

- **WELD SCREEN** is a safety curtain mounted on a portable pedestal. It is available in semi-transparent **ORANGE** version or in opaque **GREEN** version. Both materials of the welding guards are according to norm EN-25980.
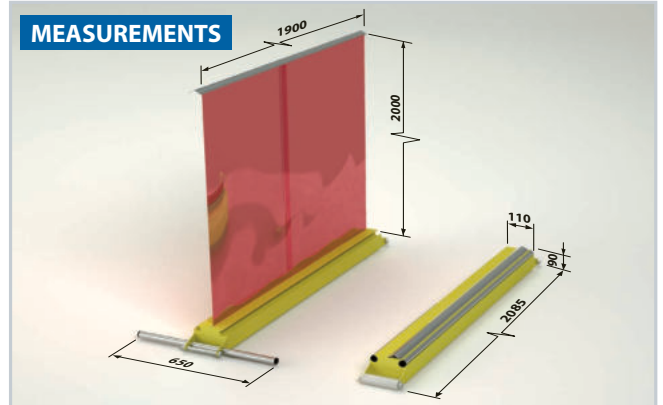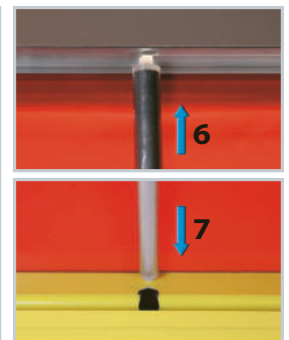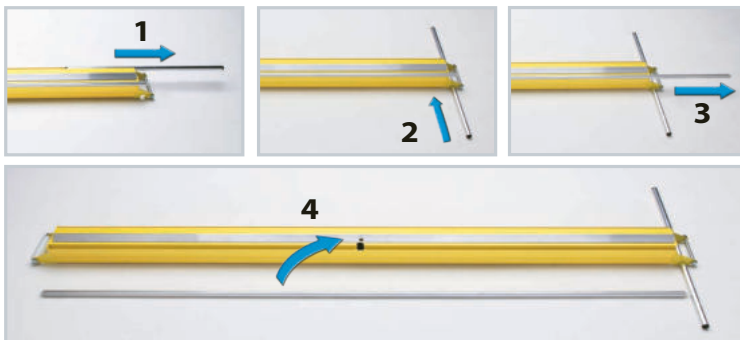
GREEN VERSION

REDUCED OVERALL SIZE

MEASUREMENTS

1900
2000
110
90
2085
650

ASSEMBLY INSTRUCTIONS

1
2
3
4
5
6
7

Also available via our online-shop: **https://www.pei.it/index.php/en/shop/weld-screen**