

**SURFACE FINISHING**   
*TRULY ENDLESS AND FABRICATED SOLUTIONS*

# SURFACE FINISHING INDUSTRIES

## TOP SURFACE FINISHING | *TRULY ENDLESS*

### **TIMBEROLL SURFACE FINISHING CABINETS**

Belt and orbital sander cabinet machines for wood frames, doors and flooring



### **METALROLL SURFACE FINISHING CABINETS**

Belt and orbital deburring cabinet machines for metal stamping and fineblanking



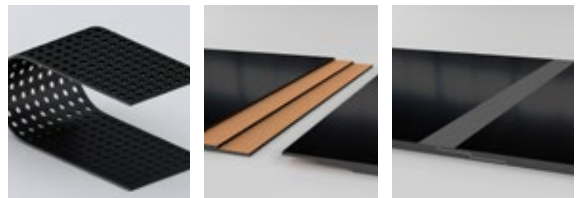
### **FELT PROFILE BACKER BELTS FOR SURFACE FINISHING CABINETS**

Pressure support belts for backing coated abrasive belts used on wood frames and doors



### **QUICK CHANGE REPLACEMENT BELTS OPEN ROLL INVENTORY**

Shorter fulfillment cycle from US stocked belts with options for reduced belt replacement time



## EDGE FINISHING | *TRULY ENDLESS*

### **DRAGGING EDGE FINISHING MACHINES**

Edge squaring or tenoning wood, or banding finished wood with veneer strips



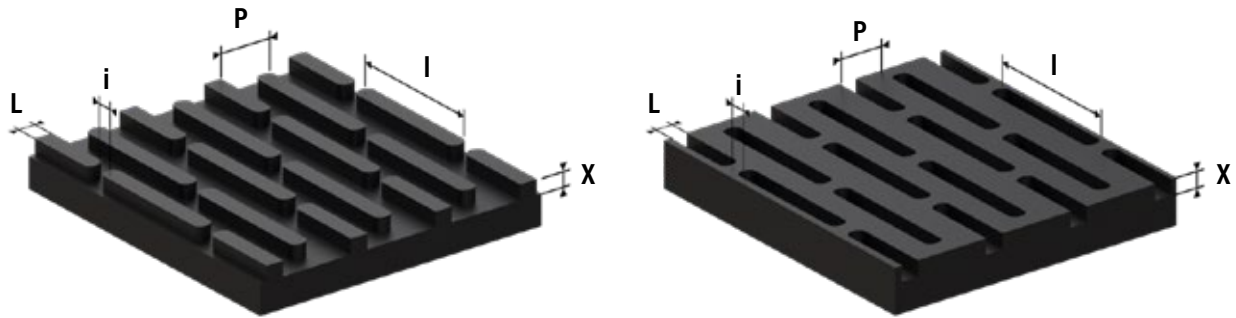
## THIN VENEER SLICING | *TRULY ENDLESS*

### **TRAILROLL FLAT VENEER SLICERS**

Slicers oriented for lengthwise, or plain flitch wood grain slicing for the veneer industry




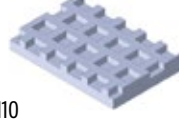




# TIMBEROLL & METALROLL PROFILES



I = length L = width X = height (after grinding) i = gap p = pitch

## STANDARD TOP PROFILE

Denomination	Dimensions					% Land / Void	Applications and Characteristics
	I	L	X	I	P		
 SP106	25	5	4	5	10	40/60 3360 cells/m <sup>2</sup>	Suitable for wide belt sanding calibrating machines. Excellent grip on materials and low strain strength of the raised profile.
 SP108	20	20	4	8	40	49/51 cells/m <sup>2</sup>	Instead of SP106 but with better calibration accuracy due to its higher resistance to deformation; good grip on materials, valid for machines provided with vacuum systems.
 SP109	15	15	4	7	22	cells/m <sup>2</sup>	As an alternative for SP108 but with a higher land percentage: better strain strength and calibrating accuracy.
 SP110	10	10	4	5	15	49/51 5100 cells/m <sup>2</sup>	As an alternative for SP107 with a better grip on materials.
 SP111	12	12	4	7	27	60/40 2770 cells/m <sup>2</sup>	As an alternative for SP108 and SP109. Higher calibrating precision and a good grip. Suitable for vacuum systems.
 SP100	-	-	-	-	-	-	Ground surface, particularly valid for working on material of even less than 0,5 mm thickness. (coupled with EMQC / EMQPC)

Note: 17mm recessed circle and recessed version of SP106 also available

# TIMBEROLL - CARCASS / COMPOUND OPTIONS

Carcass								
Code	Tensile Plies	Nominal <sup>1</sup> Belt Thickness (mm)	Sliding Ply		Working Load (daN / cm)	Working Load		Recommended <sup>2</sup> Applications and Characteristics
			Pes	Cotton		1%	1,50%	
ELG	1	75 (+1/-0.5)	1	-	12	4-6	7-9	Machine table length ≤ 1m and with 1 tooling head. Traction power ≤ 1 kW.
EPQ	2	9 (+1/-0.5)	1	-	20	6-8	12-14	Machine table length ≤ 2.5 - 3m and with 2 to 3 tooling heads. More than 1 mm for each step of calibration. Traction power ≤ 1 kW.
EPQP	3	10 (+1/-0.5)	1	-	30	7-9	14-16	Same EPQ. Machine table length > 3m and with 3 or more tooling heads. Traction power ≤ 4.5 kW. Suggested for machines with vacuum devices.
EPQC	2	9 (+1/-0.5)	-	1	20	6-8	13-15	Same as EPQ
EPQPC	3	10 (+1/-0.5)	-	1	28	4-7	14-16	Same as EPQP
EMQC	2	12 (0/-1)	-	1	20	6-8	13-15	Replaces EPQ for maximum flatness of the belt and thin material (< 1 mm)
EMQPC	3	13 (0/-1)	-	1	28	7-9	14-16	Replaces EPQP for maximum flatness of belt and thin material (< 1mm). SP100 profile.
SME400	1+cord	8 (+1/-0.5)	-	-	40	25	-	For edge and shaping profile sanding machine. V Guide and width ≤ 200 mm. Producible upon request.

1. Nominal Thickness with profile SP 106-107-108-109-110. When coupled with profile SP 111, nominal thickness will be 1 mm thinner - f.i. EPQ-SP111 nominal thickness 8 (+ 1 / -0.5)

2. Only typical data for selected purpose, not to be used for part or tool design/

## Compounds - Standard Rubber Covers

Denomination	Color	Hardness °ShA (±5)	Recommended* Applications and Characteristics
CB	Grey	40, 50, 60, 70	General purpose. Excellent impact strength and tear resistance. Good machinability during surfacing. Excellent grip and high compression strain.
CS	Black	57	General purpose. Excellent impact strength and grip. Tear resistance. High compression strain, anti-static, reduce dust accumulation

\* Only typical data for selection purpose, not to be used for part or tool design.

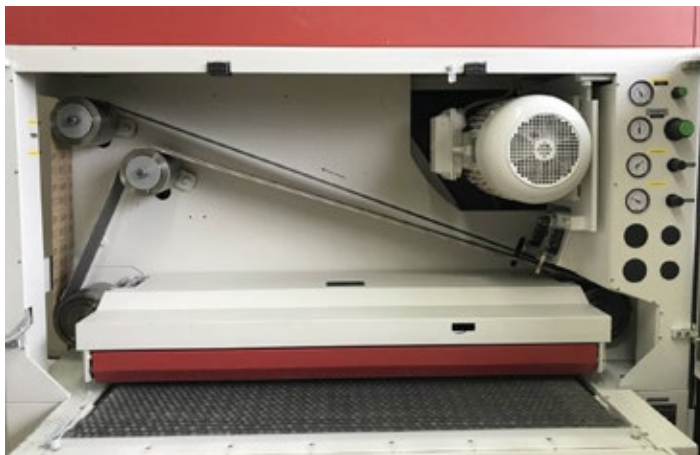
## METALROLL - CARCASS / COMPOUND OPTIONS

Version	Color	Rubber*	Tensile Core	Application	Abrasion Resistance	Thermal Resistance	Oil Resistance on the Surface
NC	Black	Nitrile Neoprene	TED100	Dry	•	••	•••
NC	Black	Nitrile Neoprene	TEM80	Wet	•	••	•••
NCB	White	Nitrile Neoprene	TED100	Dry	•	••	••
NCB	White	Nitrile Neoprene	TEM80	Wet	•	••	••
HB	White	Hypalon	TED100	Dry	•••••	•••	••
HB	White	Hypalon	TEM80	Wet	•••••	•••	••

\* Other compounds available upon request

## FELT BACKER BELTS - CABINET SURFACE FINISHING

Feltroll pressure segmented belts provide cushioned backing and support for the main grit-sanding belt. This backing balances the pressure exerted on the wood in a way that ensures a homogeneous smooth surface texture is achieved.



Chevron Pattern	Pitch
20mm wide "V"	10-40mm



Diagonal Pattern	Pitch
10-20mm wide strips	8-20mm

► Felt patterns configured in Chevron or bias/strip patterns to match common OEM belts

# QUICK CHANGE REPLACEMENT BELTS

While a belt with a seam will not perform at the same peak level as a truly endless belt, the value added option of a splice or lace offers unique advantages to distributors:

## Shorter Fulfillment Cycle

- ▶ Stocked in the USA
- ▶ Beltservice Corporation Fabrication

## Option for reduced Belt Replacement Time

- ▶ Ends prepared for cold or hot field splice
- ▶ Hidden mechanical joint
- ▶ No machine disassembly

Lacing is hidden by the cover of the belt to allow the ease of installation provided by a mechanical splice with the smooth operation of an endless belt. The product is protected from marring from the mechanical splice area and provides a smooth surface for scrapers.

Top Cover Hidden Lace

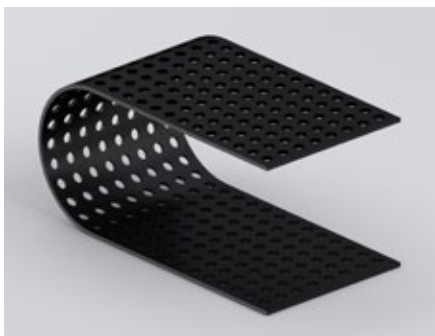


Both Covers Hidden Lace



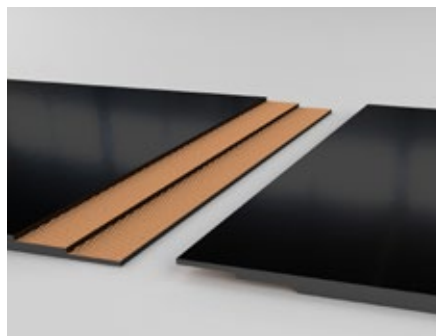
- ▶ **Standard end-user belt dressing procedures apply to ensure smooth cover over lace joint area**

## Perforations



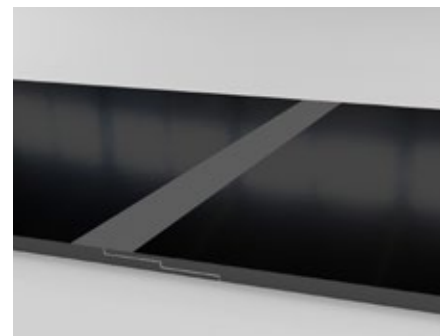
For vacuum, suction or drainage applications, We produce perforated belts with a wide variety of hole sizes.

## Prepared Laps



Belts are supplied with laps already prepared to desired length but not vulcanized, enabling customer to splice endless on the system. Hot or cold cements with instructions are available.

## Vulcanized Endless

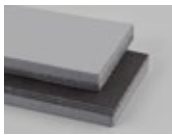
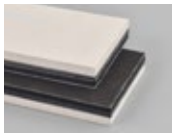


A hot-vulcanized splice is stronger and more stable than a mechanical (laced) joint. Endless splicing eliminates fastener pull out and tearing of the belt.

## LIGHT DUTY SFMB | *FOR WOOD APPLICATIONS*

We stock all the open end belting options to meet wood and metal surface finishing requirements. Our basic line of light duty SFMB belts offer high friction gripping performance and transverse stability.

Belt	Catalog #	Part #	Thickness	Temp. Range	Min. Pulley Diameter	Weight (PIW)	Joining	
3 PLY CR135 BLACK RT AS SFMB	135	10960	.310"	20°/ 180°F	6"	.116 lbs	Endless Step	
3 PLY CR135 WST SFMB	136W	10966	.260"	20°/ 212°F	6"	.145 lbs	Endless Step	
3 PLY CR135 GST AS SFMB	137	10962	.260"	-20°/ 180°F	6"	.145 lbs	Endless Step	
3 PLY CR135 TWG SFMB	139	30633	.310"	-6°/ 212°F	6"	.120 lbs	Endless Step	
3 PLY 120 GREY 50A 20MM DIAMOND X BARE	170	42200	.314"	-22°/ 140°F	4.75"	.185 lbs	Endless Step or Hidden UX lace	
3 PLY 120 GREY 50A 1/2IN DIAMOND X BARE	172	42202	.314"	-22°/ 140°F	4.75"	.185 lbs	Endless Step or Hidden UX lace	
3 PLY 120 BLACK 57A 1/2IN DIAMOND X BARE AS	172b	49047	.314"	-22°/ 140°F	4.75"	.181 lbs	Endless Step or Hidden UX lace	
3 PLY 120 GREY 50A SMOOTH X BARE	173	42203	.354"	-22°/ 140°F	4.75"	.190 lbs	Endless Step or Hidden UX lace	
2 PLY 80 BLACK 57A 1/2IN DIAMOND X BARE AS	175	49046	.295"	-22°/ 140°F	3.5"	.150 lbs	Endless Step	
4 PLY 170 GREY 50A 20MM DIAMOND X BARE	176	42206	.512"	-22°/ 140°F	5.9"	.280 lbs	Endless Step or Hidden UX lace	

Belt	Catalog #	Part #	Thickness	Temp. Range	Min. Pulley Diameter	Weight (PIW)	Joining	
3 PLY 170 GREY 50A 5MM X BARE	171	42201	.335"	-40°/ 130°F	4.75"	.180 lbs	Endless Step or Hidden UX lace	
3 PLY 170 White 70A HYPALON SMOOTH X BARE HR/OR	174	42204	.380"	-25°/ 240°F	4.75"	.204 lbs	Endless Step or Hidden UX lace	

## DRAGRING - EDGE SQUARING & TENONING

Sanding machines used for wood frame edge processing solutions, furniture, windows, doors, fronts, panels and components.

Standard Sections	Data Accuracy			Inside		Minimum Pulleys Diameters (mm)
	Wide Base (mm)	Height (mm)	Degree of Angle	Minimum (mm)	Maximum (mm)	
A	13	8	40	1000	10500	100
B	17	11	40	2500	No Limit	145
C	22	14	40	2500	No Limit	225
D	32	19	40	2500	No Limit	360
E	38	25	40	2500	No Limit	500
F	51	30	40	2500	No Limit	630

## TRAILROLL - FLAT VENEER SLICERS

Compound + Durometer	Common Thickness	Common Lengths	Special Carcass Structures	Common Widths	Common Profiles
PA (Butadiene) 60A High Abrasion Grey	1-3/16" Thick	19"-36' I.C.	SME Polyester 800N/mm Cord SMK Kevlar 1250N/mm Cord	10" - 14"	SP222 (CNC Grooved) x SP100 (Smooth)