

GUARDAS FLEXIBLES



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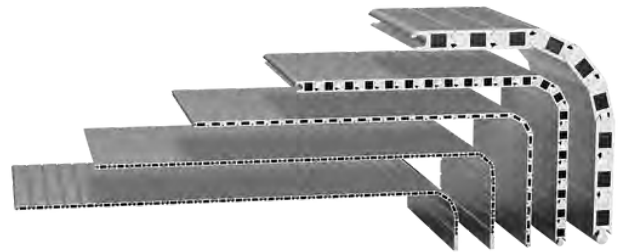
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Las guardas flexibles son un componente crítico en la protección de la máquina. Protegen a los operadores de los componentes móviles de la máquina y protegen la máquina de los desechos y las fluctuaciones de temperatura en el entorno de trabajo.

Nuestros ingenieros trabajarán con usted para diseñar y fabricar una cubierta de mantel que sea perfecta para su aplicación. Disponibles como delantal montado, enrollable o para caminar de manera estándar (según el material).

GUARDAS FLEXIBLES ESTANDAR

- Disponible en tejido revestido, acero inoxidable, extrusiones de aluminio (con bisagras de poliuretano o aluminio) o poliéster revestido con laminillas metálicas.



CARACTERISTICAS DE DISEÑO

aluflex

Aluminum Extrusion

Polyurethane Hinge



Symmetric design allows for high flexibility in both directions

gs20

Aluminum Extrusion

Polyurethane Hinge



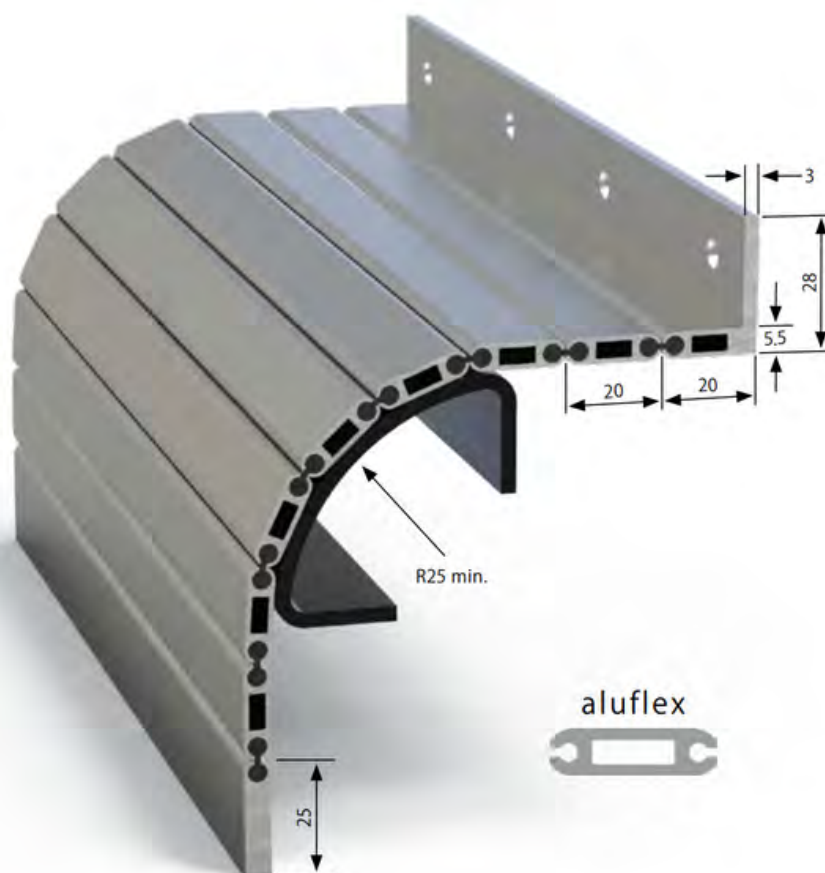
Locking design provides a flush surface suitable for wiper systems

ALUFLEX

Highly flexible aluminum apron

- Light, highly flexible hinge-type aluminum apron, particularly suited for the protection of machine parts which are not permanently exposed to hot chips
- Made of anodized aluminum precision profiles which are positively interlocked with polyurethane hinges (joints)
- The symmetric design of the aluminum profile enclosing the flexible hinges assures a high flexibility in both bending directions
- A simple but effective connection technique enables the users to easily assemble the aprons themselves. Profiles and hinges are available to lengthen existing aprons
- Splash-proof

See page 42 for Quote Request Worksheet



GUARDAS FLEXIBLES GS20

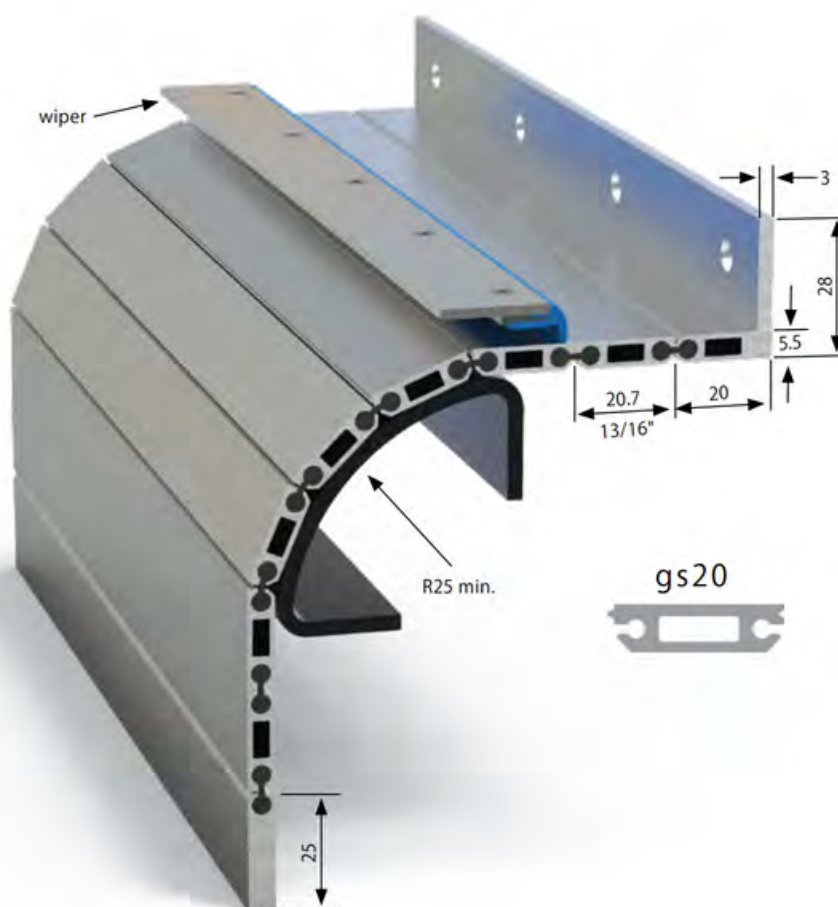
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GS20

Aluminum apron with a rigid interlock

- When rolled-out, creates flush surface which can be wiped clean using one of Hennig's wiper systems
- With the interlock, the polyurethane hinges are additionally protected
- High torsional stiffness
- Not recommended for horizontal deployment with simultaneous chip production
- Acceleration of 1.5 g and speed of 150 m/min are feasible
- Special coatings available (eg, hard anodized)

See page 42 for Quote Request Worksheet



AGS MINI, I, II, III

Anodized aluminum profiles and hinges

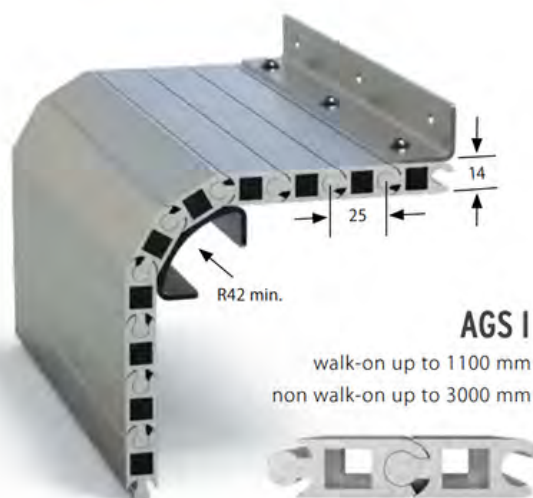
- Precision profiles are perfectly interlocked.
- Stable and flexible protection when space is limited.
- Special hinges prevent coarse dirt from entering and allow self-cleaning during the movement.
- Withstands high ambient temperatures up to 500°C.
- Resistant to corrosion by using anodized aluminum.
- High strain resistance, even in long lengths.
- Especially suitable for roll-up mechanisms.
- Walk-on versions available for AGS I, II, III
- Interchangeability of individual profiles.
- Side guides not required.
- The AGS mini, AGS I, and AGS II differ in their profile cross sections and loading capacity.
- Standard version comes with protruding rivets - 2mm on each side. (AGS I and AGS II are available with protruding or flat head rivets.)

See page 42 for Quote Request Worksheet



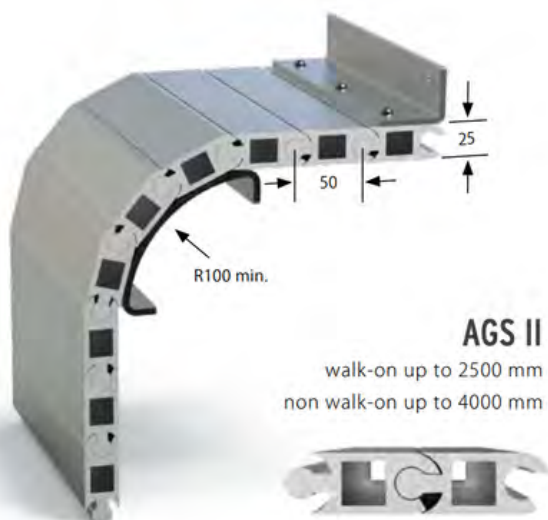
AGS mini

Small profile for tight spaces
not available as walk-on



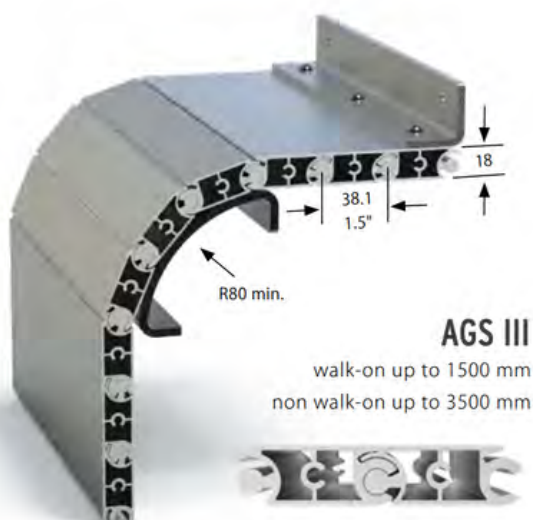
AGS I

walk-on up to 1100 mm
non walk-on up to 3000 mm



AGS II

walk-on up to 2500 mm
non walk-on up to 4000 mm



AGS III

walk-on up to 1500 mm
non walk-on up to 3500 mm

SERIES 53 (1, 2, 4)

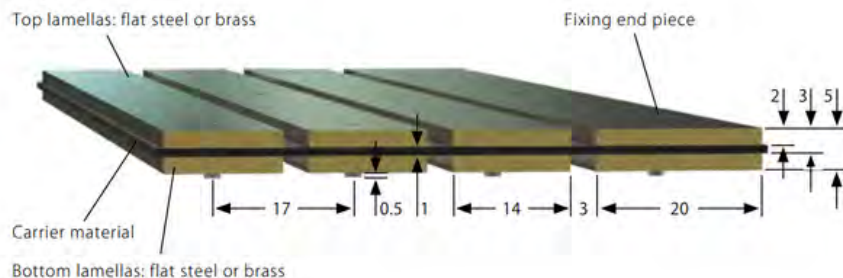
2 layer carrier material with metal lamellas

These apron covers are highly flexible and designed for optimum protection against swarf and falling work pieces, especially suited for extreme working conditions.

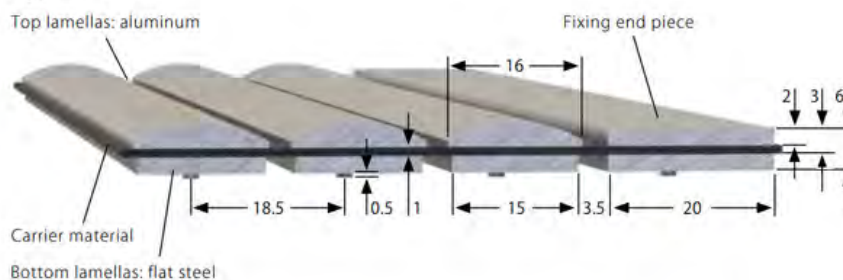
- Sufficient protection in case of high volumes of swarf (e.g. at lathe tool posts)
- Two-layer carrier material: PUR coated fabric at the bottom, aluminum-coated glass fiber fabric at the top (heat resistance)
- Reinforced on both sides with steel, brass or aluminum lamellas, this type of apron is a robust cover element
- Highly resistant against oil, grease, coolants and hot swarf (contact temperature of up to + 300°C)
- Splash-proof according to IP 54
- Small coil radius. Space saving.
- Fastening is possible alternatively with angles, hinges or other fittings

See page 42 for Quote Request Worksheet

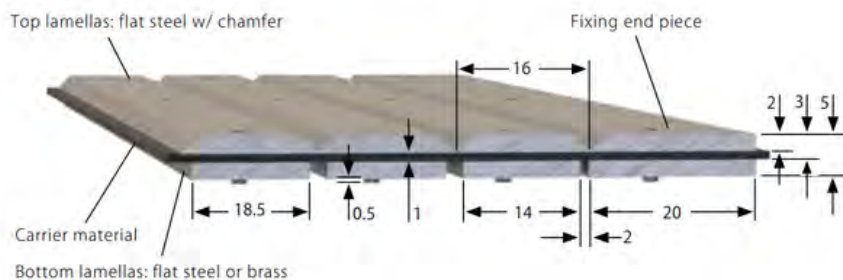
type 53-1



type 53-2



type 53-4



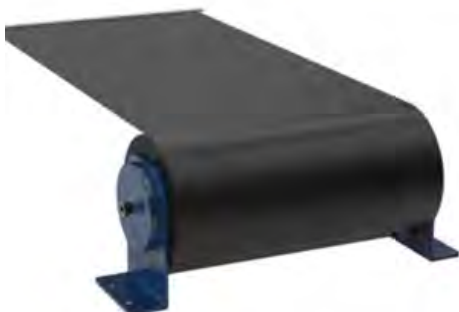
APRONS & ROLL UP COVERS

APRON & ROLL-UP MATERIALS

Our apron covers are fitted in highly complex modular systems. They are not only functional and space saving but also optically very appealing. Our apron covers are custom designed for your application.

See page 41 for material technical details.

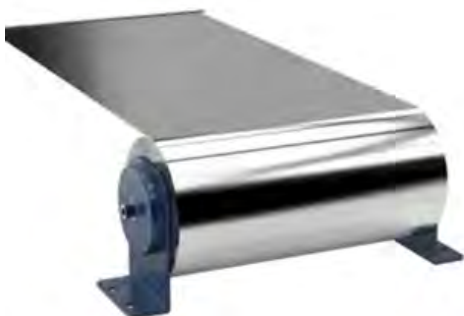
See page 42 for Quote Request Worksheet



coated fabric

High-tensile polyimide fabric coated with polyurethane

- Highly resistant to wear
- Tear-resistance of approx. 500 kg over a width of 5 cm
- Can be used at temperatures ranging between -40°C and $+120^{\circ}\text{C}$
- Special cover bands coated with viton on one side, for contact temperatures up to 400°C
- Resistant against most universal oils, greases and coolants



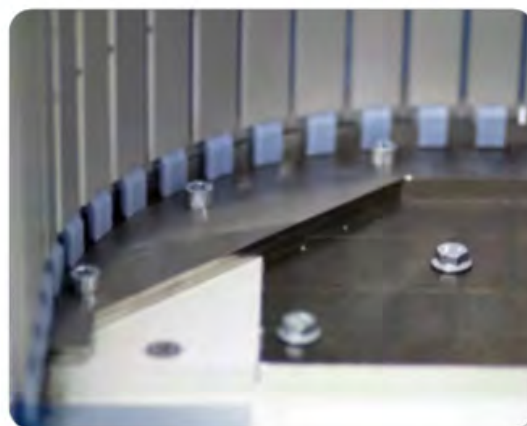
stainless steel

Durable, corrosion-resistant stainless steel sheets assembled in sections

- Withstands high ambient temperatures
- Can be assembled in sections for easy replacement of damaged areas
- Completely resistant to penetration of contaminants (oils, coolant, swarf, chemicals, etc)
- Walk-on versions available using extruded aluminum tubing for support

ALUFLEX / GS20 / AGS SERIES

TYPE		ALUFLEX	GS20	AGS mini	AGS I	AGS II
MATERIAL	Profile/Hinge					
		AL/PUR	AL/PUR	AL/-	AL/-	AL/-
TECHNICAL DATA	Width x Thickness (mm)	20 x 5.5	20.7 x 5.5	22.4 x 6.7	34.9 x 13.8	68.3 x 25
	Return / Coil Radius (min)	25	25	30	42	100
	Net Weight (N/m²)	80	80	120	240	380
	Max. Intermittent Contact Temp. (°C)	150	350	500	500	500
	Max. Permanent Contact Temp. (°C)	120	120	200	500	500
PROPERTIES	Water Tightness (according to IP 54)	●	●	●	●	●
	Resistance to emulsions	●	●	●	●	●
	Suited for chip production areas	○	●	○	○	○
	Resistance to corrosion	●	●	●	●	●



typical mounting configurations

(custom mounting devices and combinations available upon request)



standard end pieces

(special and custom end pieces available upon request)



NORMAL BAR



STRAIGHT END



ANGLE BRACKET

SOLICITUD PARA COTIZACIÓN

COMPANY (complete address)

Name _____
Title _____
E-mail _____
Phone _____ Fax _____ Date ____/____/____

APPLICATION

Quantity _____

Apron Design* ☐ Roll-Up ☐ Non Roll-Up

Apron Type ☐ Coated Fabric ☐ Stainless Steel ☐ Extruded Aluminum (☐ Aluflex ☐ GS20 ☐ AGS mini ☐ AGS I ☐ AGS II)
☐ Series 53 Metal Clad (☐ 53-1 ST/ST ☐ 53-1 ST/MS ☐ 53-1 MS/MS ☐ 53-2 AL/ST ☐ 53-4 ST/ST ☐ 53-4 ST/MS)

Cover exposed to what kind of elements ☐ Coolant ☐ Chips ☐ Hot Chips ☐ Outdoor Elements ☐ Other _____

Machine Make (if applicable) _____

Machine Model (if applicable) _____ Year _____

TECHNICAL DATA

A Fully Extended Cover Length _____

B Cover Width _____

Length of Travel _____

Speed _____ ☐ m/min ☐ in/minute

Acceleration _____ (g)

NON ROLL-UP MOUNTING DETAILS

* Complete this section only if "Non-Roll-Up" is selected under Application section.

Mounting Configuration ☐ A ☐ B ☐ C ☐ D ☐ Other

Mounting Type (End 1) ☐ Normal Bar ☐ Straight ☐ Angle ☐ Custom

Mounting Type (End 2) ☐ Normal Bar ☐ Straight ☐ Angle ☐ Custom

ROLL-UP MOUNTING DETAILS

* Complete this section only if "Roll-Up" is selected under Application section.

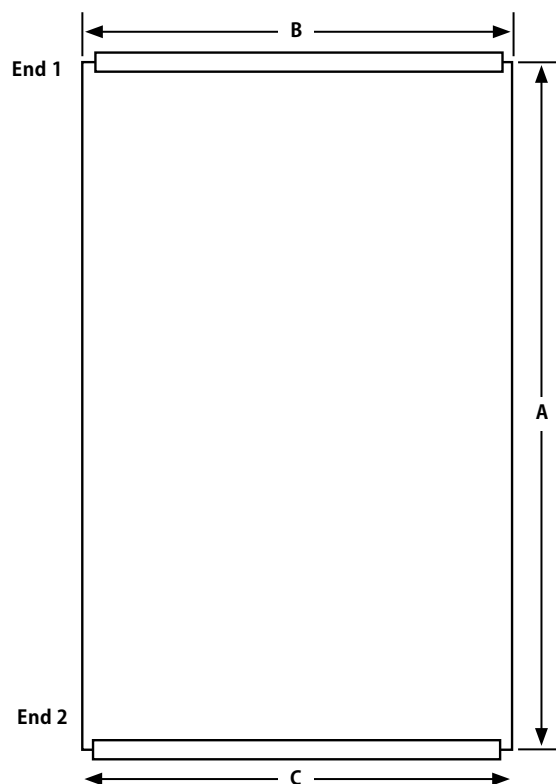
C Maximum width allowable with mounting brackets / canister _____

Roll-Up Design ☐ Canister ☐ Open Reel

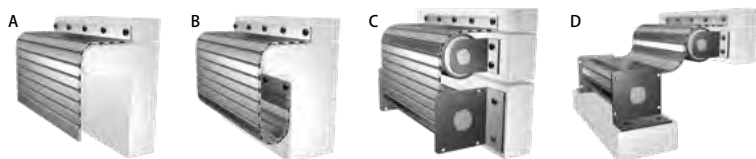
Mounting Type (End 1) For roll-up covers, end 1 is the roll-up end.

Mounting Type (End 2) ☐ Normal Bar ☐ Straight ☐ Angle ☐ Custom

Include Mounting Brackets ☐ Yes ☐ No



Mounting Configurations (non-roll up designs)



Mounting Types



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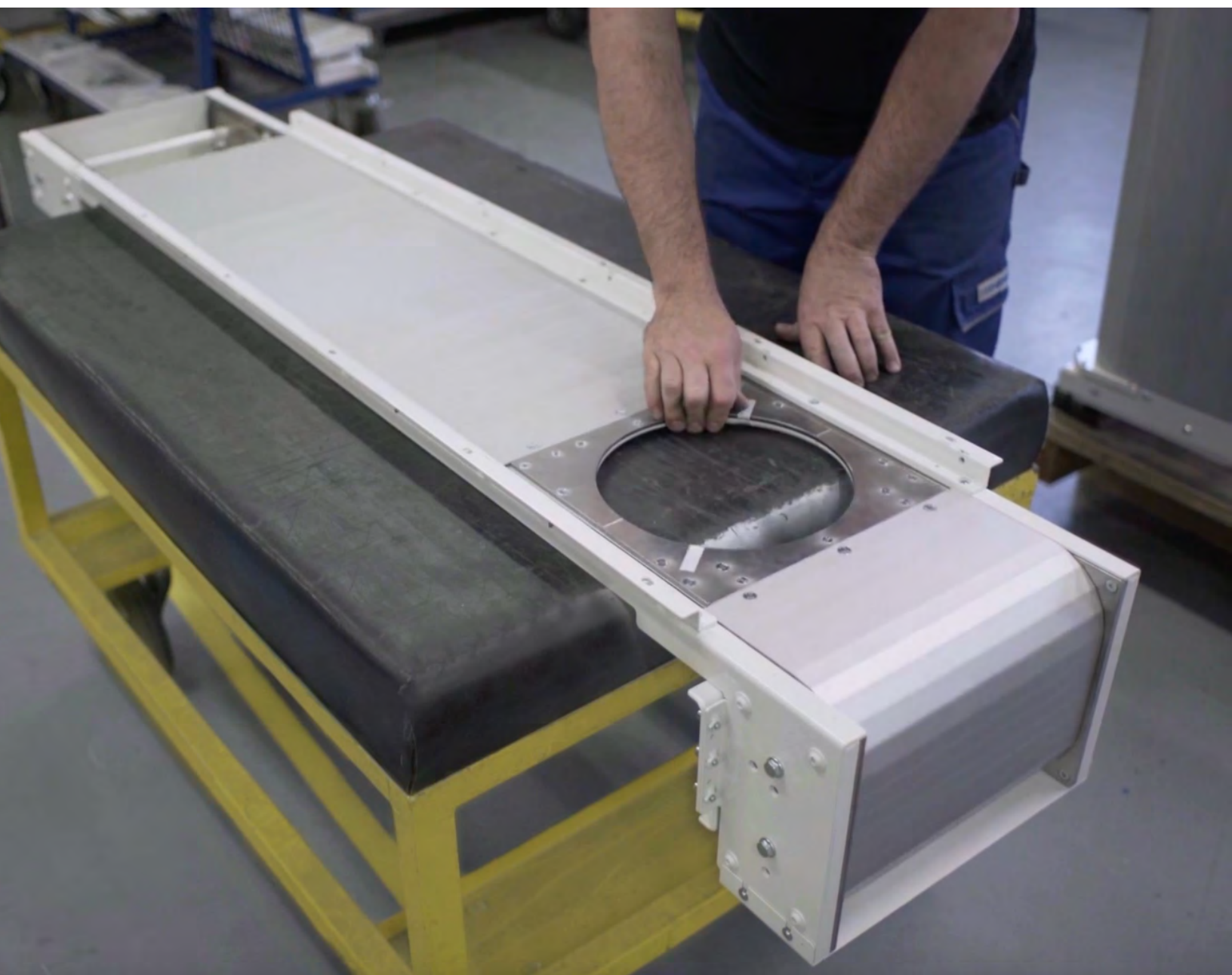
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