

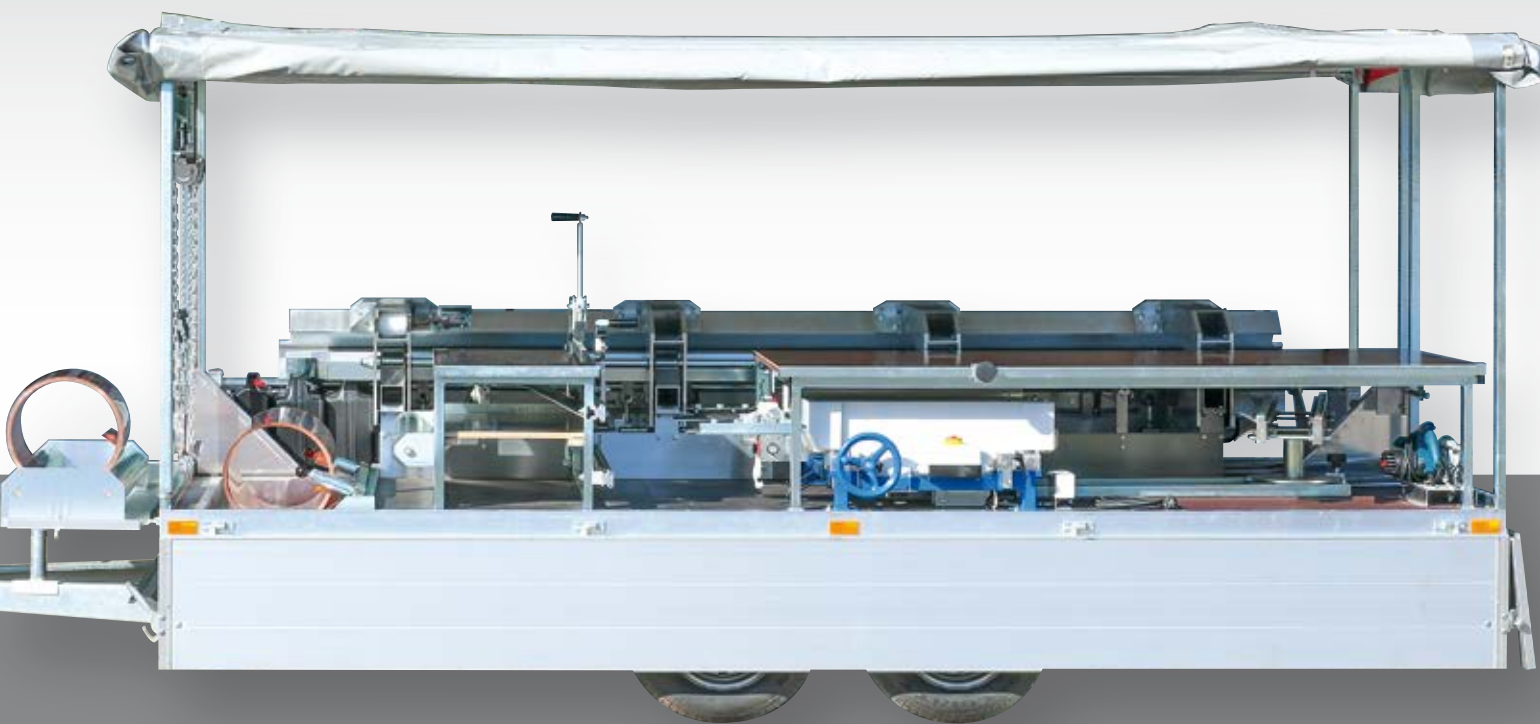
The mobile tinsmith's workshop



Safe time – work on the spot!

The mobile tinsmith's workshop

The KNOLL folding machine – 180° – 3.5 m is the centerpiece of the mobile tinsmith's workshop. It is made of an aluminum alloy with very high strength, and is therefore extremely lightweight and very stable.



The mobile tinsmith's workshop

The movable KNOLL tinsmith's workshop, which has been developed by experienced tinsmiths, has been successfully tried and tested at thousands of construction sites in Germany and abroad. You can carry out your complete job directly on the spot at the construction site and this gives you a huge competitive edge. You are flexible and save a lot of time because you no longer need to drive back and forth between the construction site and your workshop. The sophisticated layout and arrangement of the individual machines and tool components facilitates the work at the construction site considerably. You have everything you need with you: You pull the metal sheet from the uncoiling trough directly onto the cutting table, you cut it and process it directly on the large, extractable workbench. Thanks to the special shear joints and the narrow stainless steel rail, you can make the 180° folds in one workstep with the 3.5 m long KNOLL folding machine. The cutting head and the profiling head are always within reach during work. Make your daily work much easier with the great advantages of the mobile tinsmith's workshop.

Uncoiling
Cutting to length
Processing
Slitting
Folding
Profiling

Technical data

Tandem trailer	
Empty weight only trailer	600 kg
Empty weight standard version	1050 kg
Empty weight with profiling machine	1300 kg
Permissible total weight	1700 kg
Support load	100 kg
Flatbed dimensions	4060 x 2100 mm
Total height	2150 mm
Worktable height	1120 mm
Worktable surface	2150 x 1030 mm
Upgrading of the trailer to 100 km/h possible	
Supplementary products for the folding machine	
+ KNOLL profiling head + KNOLL cutting head + KNOLL lead undulating device + KNOLL bulge coiling device/ bulge adjustment unit + KNOLL depth control stop	

Folding machine	
Folding & profiling length	3.5 m
Bending angle max.	180°
Metal sheet thickness	Al 1.0 mm, Zn 0.8 mm, Cu 0.8 mm , steel 0.7 mm (400 N/mm²)
Weight	320 kg
Folding machine 6C	
Folding & profiling length	3.5 m
Bending angle max.	180°
Bending angle max.	155° for metal sheet thickness:
Metal sheet thickness	Al 1.5 mm, Zn 1.5 mm, Cu 1.0 mm , steel 1.0 mm (400 N/mm²)
Weight	400 kg

Cost-effective working – no expensive trips between workshop and construction site!

The mobile tinsmith's workshop: the movable workshop which makes even some impossible things possible.

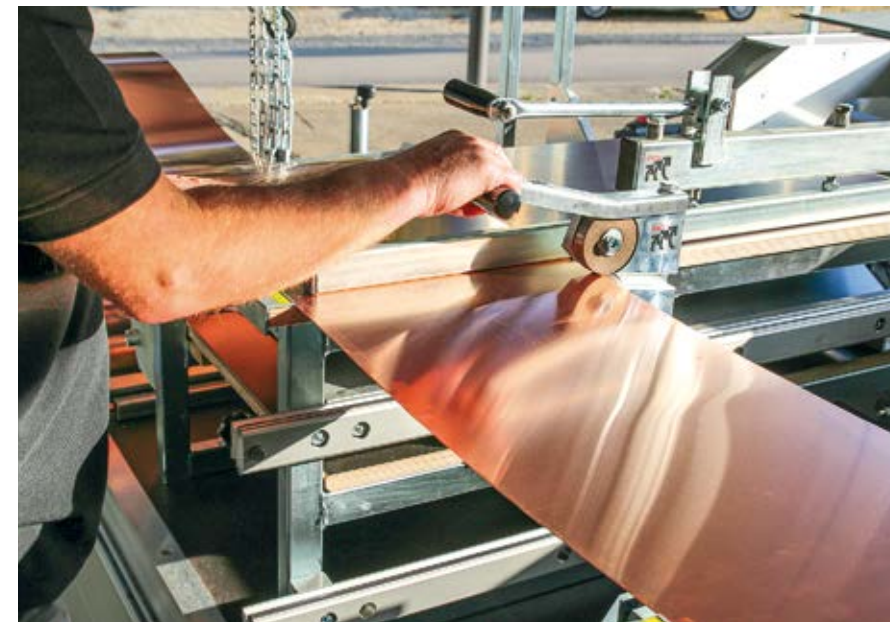


The mobile tinsmith's workshop



Uncoiling

The **uncoiling trough** also serves as storage and transportation location for metal coils. Lateral coil rails protect the metal against deviating during uncoiling. The metal sheet can be uncoiled precisely and easily and then is led directly to the cutting table or the profiling machine. We recommend a second uncoiling unit for the special version with profiling device.



Cutting – processing

You achieve clean cuts free of burrs at the workbench with the cross cutter head and the maintenance-free roller cutter. The cutting table and the workbench come with an angular stop rail with scale and length stop. So the metal sheet can be cut easily, fast and cleanly to the exact dimensions. The spacy workbench can be extracted, e.g. for placing longer metal sheets.

The mobile tinsmith's workshop

The mobile tinsmith's workshop – according to your requests and with our experience!



Folding up to 3.5 m

The **KNOLL folding machine** is very stable. This ensures high accuracy during daily use at the construction site. As the machine is open on the side, also longer metal sheets can be processed. The angular graduation is folded to the back for this. On the right and left sides of the folding machine, the guide rail provides a parking position for the cutting head and the profiling head. So your tools are within reach at all times!



Folding up to 180°

The cleverly designed joints on the folding beam allow for **folds up to 180°** in combination with the flat stainless steel rail on the upper beam. Folds like water troughs are finished in one workstep without pressing. This saves time and you achieve a high degree of uniformity. This accuracy is of particular importance for the fabrication of façade panels.



Depth control stop with digital display

The **KNOLL depth control stop** on the folding machine facilitates the operation by only one person. The ongoing depth control stop is moved with the help of a handwheel. The cutting and folding measurements are shown on the LCD display. The reference point can be redefined for every position. The depth control stop with battery-powered display guarantees working with millimeter precision.

Two different folding machines, for different purposes

Two different folding machines, for different purposes. The KNOLL folding machine – 180° – 3.5 m is available in two different designs. The four-arm folding machine with a capacity of Al 1.0 mm, Cu 0.8 mm, Zn 0.8 mm, steel 0.7 mm is exactly the right machine for tinsmiths. For those who need a stronger machine but

still want to work mobile, the KNOLL folding machine 6C has been developed. With reinforced joints and higher material thicknesses as well as six C-arms it is also possible to fold steel of 1.0 mm. Of course both folding machines are also available as shop floor machines with a pedestal.



Slitting

The **KNOLL cutting head** for slitting is attached to the **3.5 m long aluminum folding machine**. The double ball bearings ensure high accuracy of the cutting head and thus clean cutting free of burrs. The bearings of the roller cutters as well as the castors are maintenance-free. The cutting head is led precisely on the linear leader and always remains within reach thanks to the parking position at the folding machine.



Profiling – fast and easy

You can create flush façade profiles fast and without any effort on the folding machine with the patented **KNOLL profiling head**. The metal sheet is offset by the folding height with the profiling head. These beautiful panels can be created in any width as KNOLL slot-in panel, and as KNOLL hook-in panel which can be installed on both sides. So this offers a plethora of design possibilities.



Lead undulating

You manufacture lead undulated on one side with the **KNOLL lead undulating device** on your folding machine. The lead is clamped into the folding machine, one side is undulated, the other side remains plane. This way the plane side can be folded precisely and the undulated part can be slightly pressed onto the brick.



Long bulges

You can manufacture long bulges on the folding machine with the patented **KNOLL bulge coiling device**. These bulges can be accurately aligned with the bulge adjustment unit. You can round the bulge in a convex and a concave way with the bulge adjustment unit. This is a great help for cover sheets for round window sills, wall covering, or also baroque gables.

Accessories

Make use of KNOLL's experience, we are pleased to consult you and to manufacture a mobile tinsmith's workshop according to your personal requirements.



Lift and second uncoiling device
The coil can be comfortably and ergonomically set into the uncoiling device with the **swiveling lift**. You can equip your mobile tinsmith's workshop with a second uncoiling device which is mounted on the headboard.



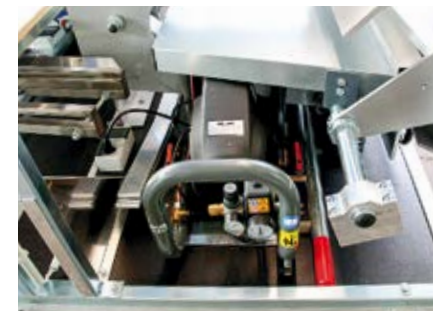
Holding-down appliance
The metal sheet is fastened on the **cutting table** with the holding-down appliance and the angle stop rail. This means clean cutting free of burrs, and due to the length control stop also within precise dimensions.



Length control stop
The convenient length control stop can be clamped onto the **cutting table and workbench** and so makes serial cutting easier.



Workbench extension
The workbench can be extended to a length of 3.15 m with two attachable boards.



Compressor/ power unit
There is also space for this!



Spare wheel with holder
The spare wheel with holder also serves as support for the headboard.



Angular graduation
For the processing of longer metal sheets, the lateral angular graduation can be folded backwards.



Boxes
Two stable, lockable aluminum boxes can be mounted on the drawbar.



Drawers
Small components, screws etc. can be stowed in the stable, solid aluminum drawer on the cutting table.



Lighting
Two high-quality, splash-proof LED lamps with 4,000 lumen provide very bright light.



Tarpaulin labeling
Use the tarpaulin of the mobile tinsmith's workshop for your own advertisement. We are pleased to prepare an offer for you according to your own specifications.

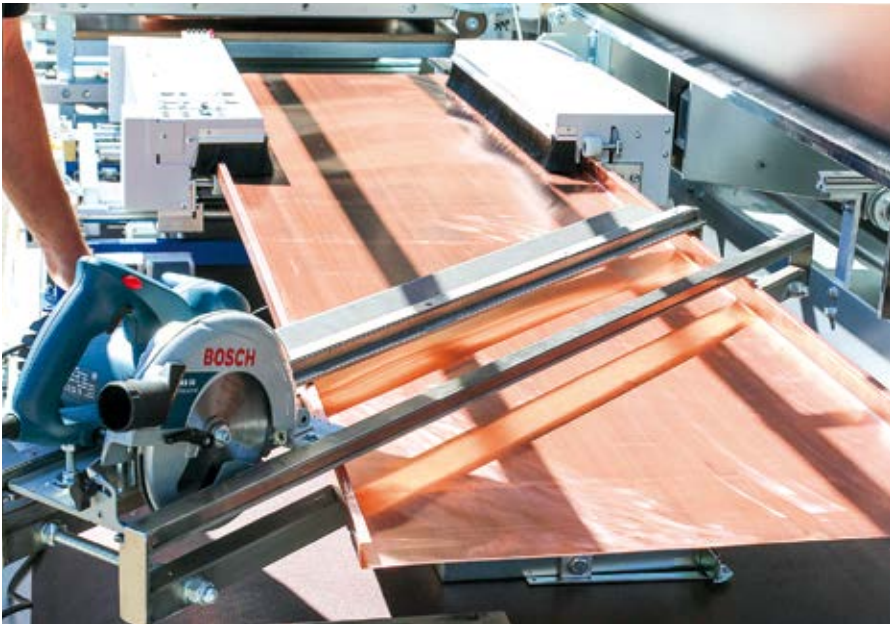
The mobile tinsmith's workshop with profiling machine

Opt for this clever mobile tinsmith's workshop which is produced with enormous care.



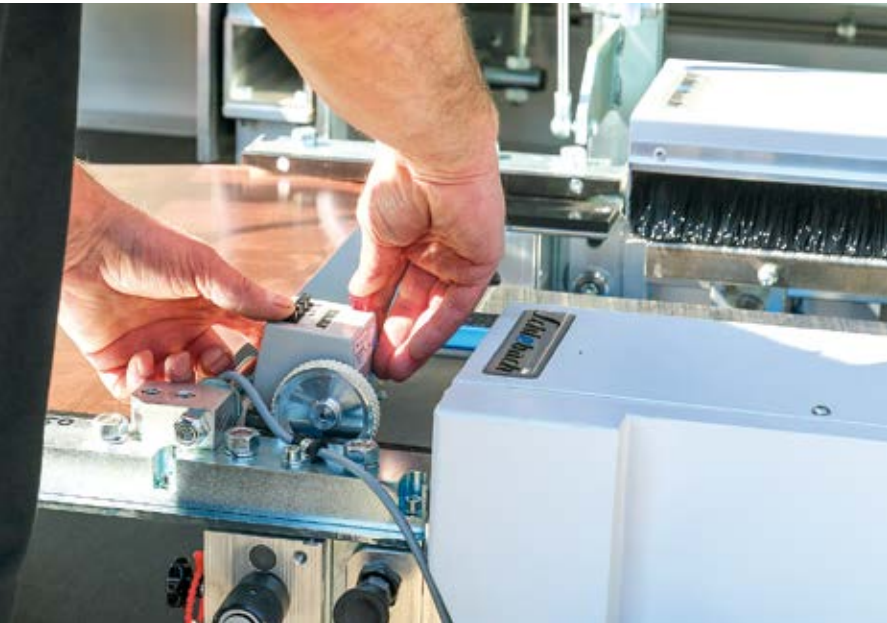
Profiling machine

The mobile tinsmith's workshop offers an even wider range of applications with the installation of a **profiling machine**. This can be mounted below the workbench in a space-saving way. You profile your angled standing seam directly at the construction site. Your panels are already at the construction site and not in your workshop. This reduces your transportation problems enormously.



Diagonal cut-to-length system

Apart from the profiling machine, there is also space for a **diagonal cut-to-length system** below the workbench. Profiled panels here can be cut diagonally at the right angle up to 45° on both sides.



Accurate cutting of profiled panels

The metal sheet is inserted in the profiling machine below the workbench and set to the **coil width**. With the help of the electro-mechanical length measurement device, the profiling machine stops according to the settings. Now the metal sheet can be cut with the cross cutter on the cutting table.



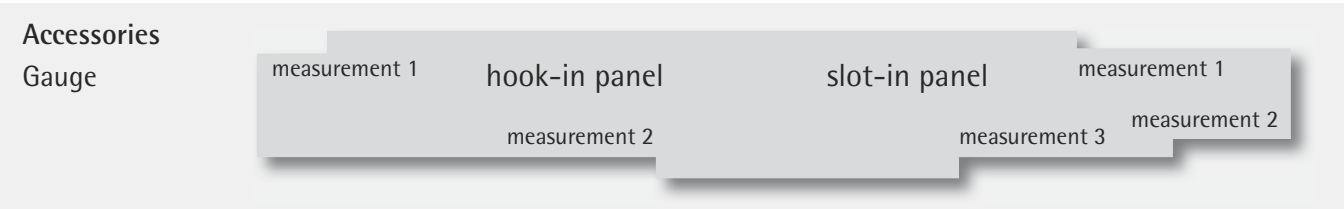
Sun – rain

The robust tarpaulin, which can come in your company colors and/ or with your advertisement on it, does not just serve as an advertising medium, but also as a **roof to protect against sun or rain**. A sophisticated solution!

Installation of different profiling machines on special frames possible		
Manufacturer	Schlebach	
Machine type	Mini-Prof Version KNOLL	Infeed width: 730 mm
	SPM 30/80 Version KNOLL	Infeed width: 670 mm
	Mini-Prof Plus Version KNOLL	Infeed width: 670 mm
	Continuous width adjustment	
Motor	230 V / 50 Hz / 1 phase	

You can find interesting films with applications under "Produkte" on www.knoll-spenglertechnik.de

KNOLL hook-in panel



Carry out measurement 1, fold 180°



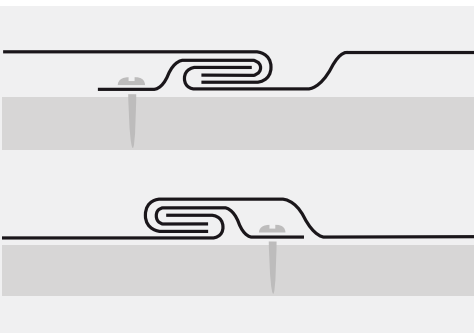
Turn metal sheet, carry out measurement 1, fold 180°



Carry out measurement 2, crimp with KNOLL profiling head

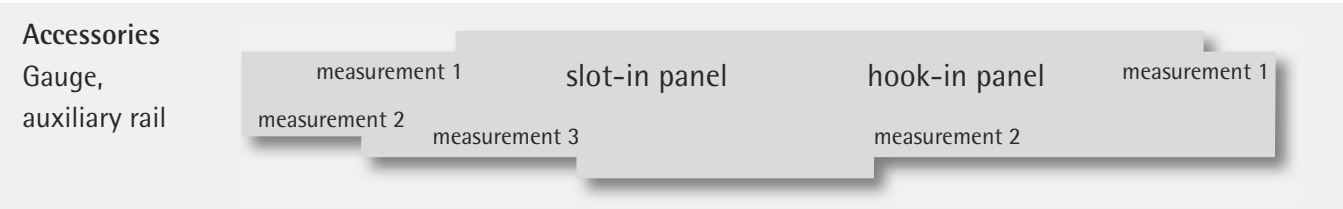


KNOLL hook-in panel is attached with fasteners. The hook-in panel can be placed with shadow gap or as rib on the other side.



KNOLL façade engineering – fast and easy fabrication.

KNOLL slot-in panel



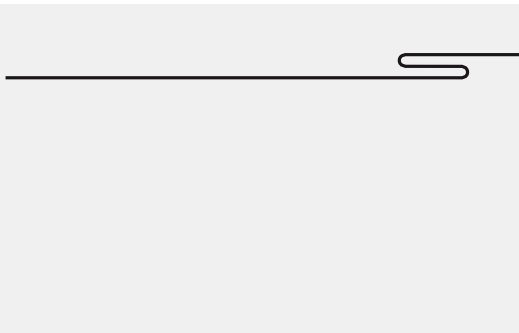
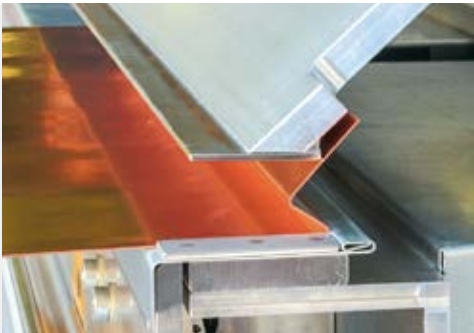
Carry out measurement 1, fold 95°



Turn metal sheet, carry out measurement 2, fold 145°



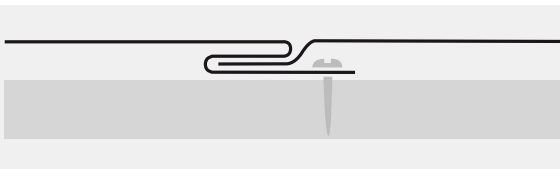
Insert auxiliary rails as stop and as lateral height limiter, turn profile and press panel together



Turn profile, carry out measurement 3, crimp with KNOLL profiling head. You get a shadow gap by enlarging measurement 3.



KNOLL slot-in panel is attached with screws or nails.



KNOLL tools – developed and tested by tinsmiths!

With the mobile tinsmith's workshop, your shop floor on the road, you can handle your complete order directly at the construction site.



Kuli

The original transportation and uncoiling device for your workshop and the construction site. Available in the sizes 1000 mm and 1250 mm.



Kuli with shears

Cutting directly on the Kuli, available with length measurement unit and coil holder with coil rail.



Notching shears

Notches up to 100 x 100 mm with one cut. Larger cut-outs by simple resetting. Steel 1.0 mm.



Bulge coiling device

Very long bulges are formed with the bulge coiling device.



Bulge adjustment unit

For the rounding of bulges, e.g. for wall covering, convex and concave are possible.



Lead undulating device

Undulated lead on one side, the other side remains plane for folding.



Profiling head

For the fast and easy fabrication of different, individual panels, also flush with the adjacent areas, e.g. for dormers and chimneys.



Cutting head

For exact, clean cutting free of burrs for steel 0.7 mm, Cu 0.8 mm, Zn 0.8 mm, Al 1.0 mm.

The KNOLL folding machine – 180° – 3.5 m
also available for your workshop.

+ Angular graduation

+ profiling head

+ cutting head

+ lead undulating device

+ bulge uncoiling device

+ depth control stop



Technical changes are in the interest of progress!
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