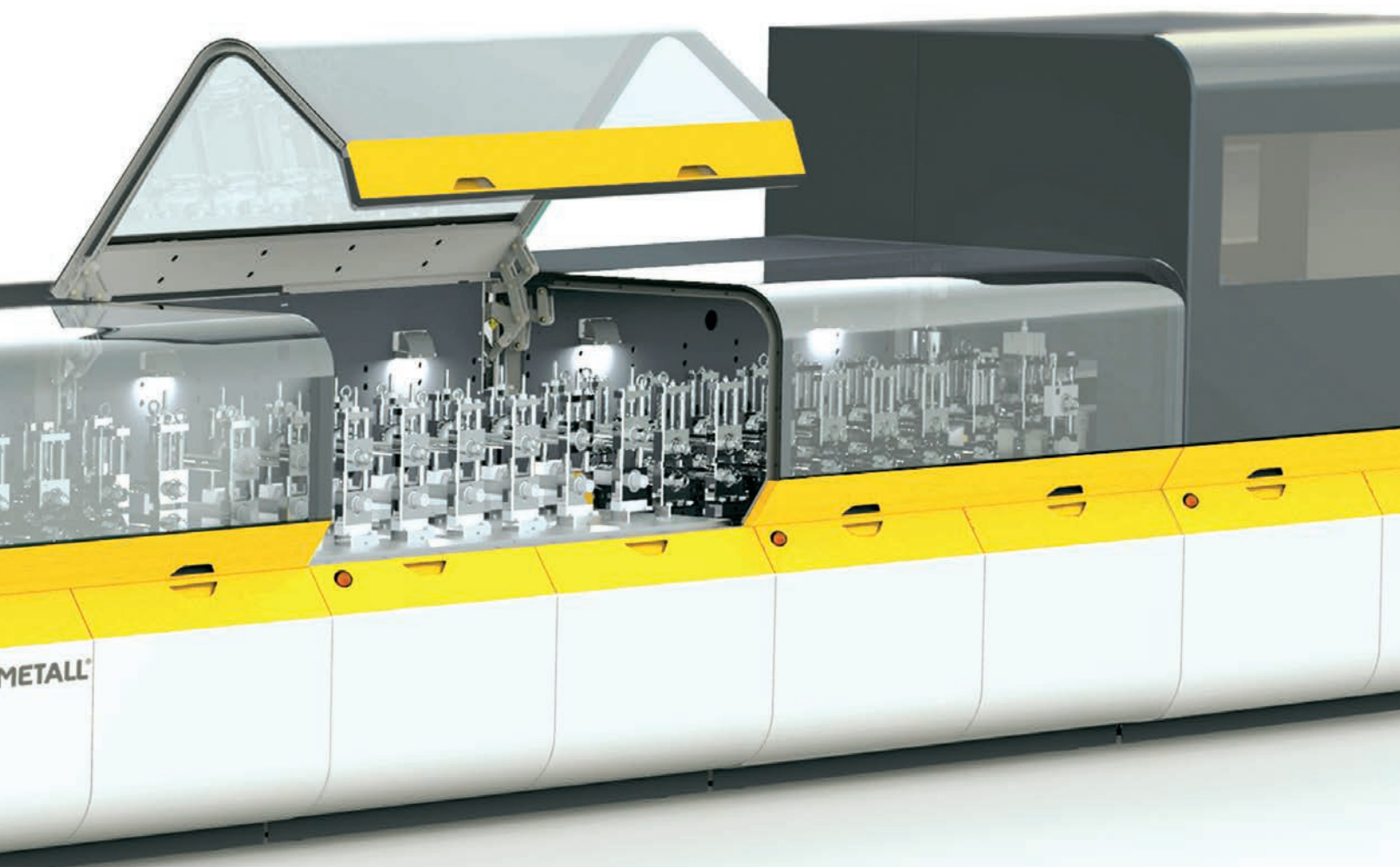


More flexible  
and individual  
than ever before.

Roll-formed profiles and profiling systems



 PROFILMETALL®

Our products are used in:



### **Mobility**

*personal vehicles and mobile homes  
commercial and electric vehicles  
aircraft*

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### **Industry**

*machinery, warehouse technology  
solar and photovoltaic systems  
control cabinets*

---



### **Construction**

*windows and doors  
sanitary facilities and air conditioning systems  
wall and attachment systems*

---



### **Interiors**

*furniture and shelf systems  
light (LED)  
toys, unbranded products*

What our customers want:

*„We want solutions and systems  
that deliver maximum flexibility.“*

*„Digitisation leads to escalating demands. It is essential  
to remember the person behind the machine.“*

*„It has to fit in on all levels:  
the technology and the commercial side.“*

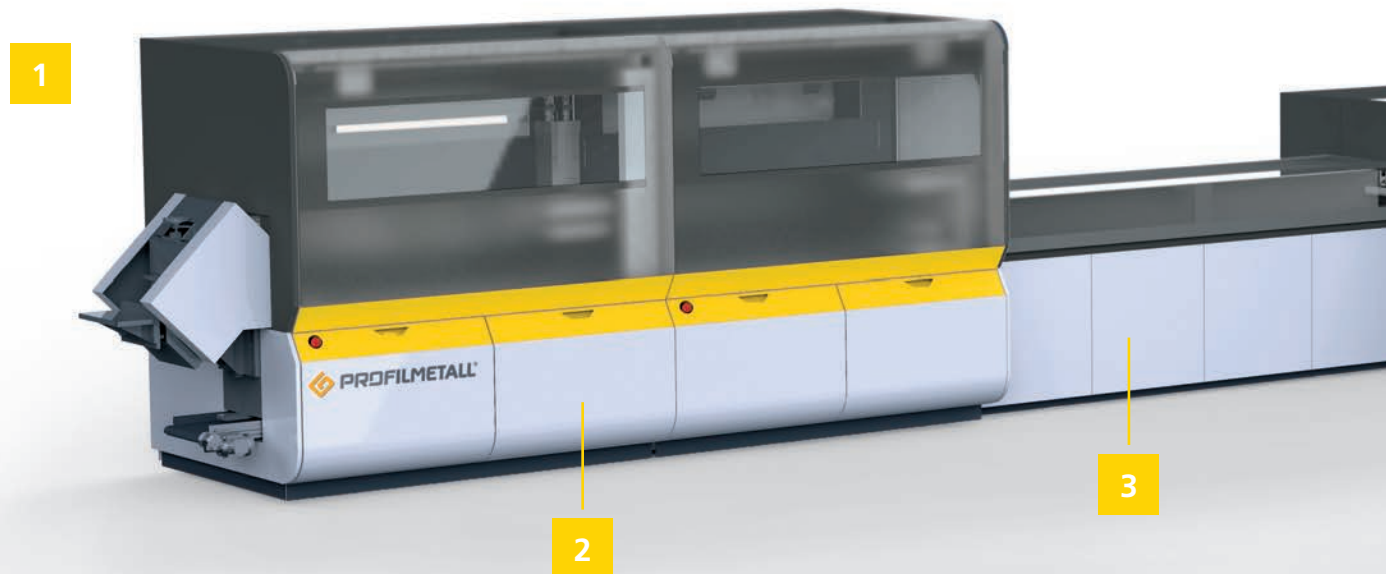
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# What will your requirements be tomorrow?



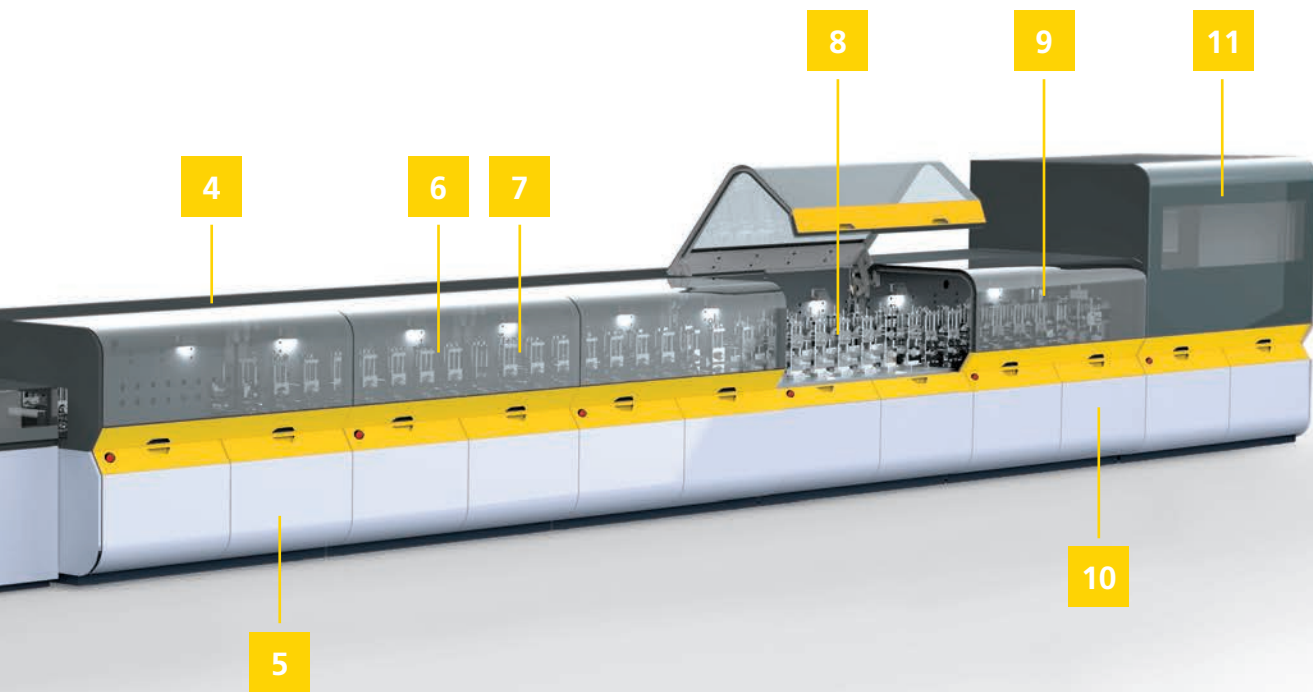
# Game-changing innovation.

How can more tailored and flexible profiles be manufactured that offer ideal value for money? **Genuine innovation is needed to meet the demands of tomorrow's world.**



- 
- |                    |                                       |                              |
|--------------------|---------------------------------------|------------------------------|
| 1 Belt system      | 6 Extraction                          | 10 Integrated cooling system |
| 2 Stamping module  | 7 Minimal lubrication                 | 11 Crosscut module           |
| 3 In-feed module   | 8 Tool system                         |                              |
| 4 Drive system     | 9 Digital process and quality control |                              |
| 5 Profiling module |                                       |                              |

We developed the profiling system 4.1 for precisely these reasons: it's a game-changer that opens up a new dimension of profiling.



More flexible,  
individual and  
economical than  
ever before.

# More flexible than ever before.

Unlike rigid units, the profiling system 4.1 has a completely modular structure.

This enables rapid retooling or the addition of new elements – like plug & play.

**A large number of metal profiles in virtually infinite variations can be manufactured in this way. Set-up also takes hours or even minutes, instead of the usual days.**

The modular units measuring 2,100 mm and the self-adjusting frame plate concept ensure flexibility and diversity.

Also included are smart technology features like the free selection of drive concepts: connected and aligned to suit your profile.





# More individual than ever before.

Accommodating the requirements of tomorrow's world means placing an even greater focus on the operator:

work safety,  
noise protection,  
digital ease of use  
and servicing,  
ergonomics.

## The profiling system 4.1 offers all these benefits.

The one in „4.1“ stands for the personal touch. You and your employees can benefit from maximum safety, ergonomics and noise protection, a sealed modular design and unbeatable ease of use and servicing. Digital process and quality control is another valuable addition.

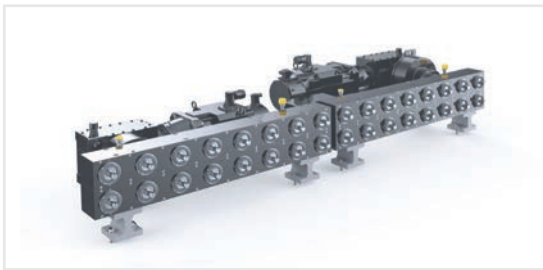


# More economical than ever before.

The profiling system 4.1 boosts your productivity and cuts your costs at the same time.

For instance with more efficient energy management and compact space requirements.

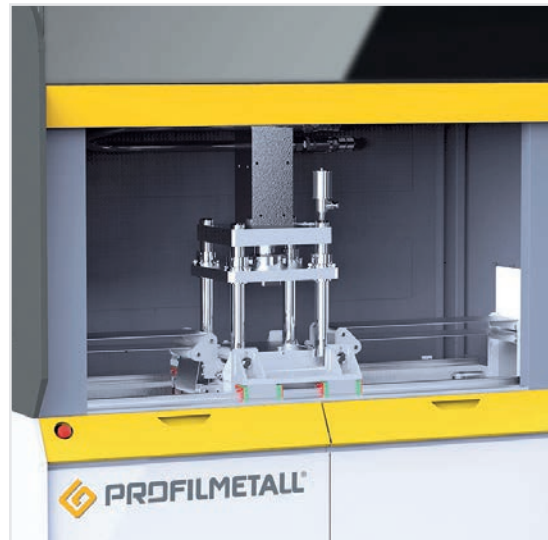
**You can manufacture faster and more efficiently in the long term. After all, the initial investments are the same, but you will slash your downstream costs.**



**Adjustable gear units** ensure lower tool wear and more efficient energy management. Only the drive systems you actually need remain in operation.



Benefit from an integrated **coolant system**. It is modular, adds flexibility and cuts the costs.



The **crosscut module** holds a broad variety of tools for punching, sawing or shearing – either stop & go or continuous operation.



# We look forward to learning about your future requirements!



*Hirrlingen*



*Marktheidenfeld*

Whether we develop products or machines – our goal is always to accommodate the human touch. That's why we've added the 1, as the personal side to 4.0. Our solutions are individually tailored to meet your needs.

We will be delighted to assist you. Together we will find a solution for your profiling system and roll-formed profile requirements.

**Just give us a call:  
+49 7478 9293 0 or  
send us an email:  
engineering@  
profilmetall.de**

Daniela Eberspächer-Roth  
and Manfred Roth  
*Managing Partners of the  
PROFILMETALL Group*



# Profiling system 4.1:

## Technical data\*

Series, profiling module	PM 4.1 - 200	PM 4.1 - 300	PM 4.1 - 400
Approx. machine dimensions WxDxH (mm)	2100 x 1300 x 1500	2100 x 1650 x 1560	2100 x 1850 x 1700
Machine weight (kg)	1400	1500	1800
Max. strip thickness <sup>1</sup> (mm)	1	1,5	2,5
Max. strip width <sup>1</sup> (mm)	200	300	400
Max. system speed <sup>2</sup> (m/min)	60	60	60
Shaft space, horizontal (mm)	130	130/260	160/320

### Feature options

Automatic tool tensioning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Minimal lubrication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coolant system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lighting (LED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Extraction system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Dimensions of the adaptable plate

Centre distance, vertical: from – to (mm)	70 – 90**	70 – 175**	70 – 200**
Working shaft Ø	25/30	30/40	40/50
Max. tool mounting width	130/220	220/320	320/420

<sup>1</sup> at Rm max. 300 N/mm<sup>2</sup>

<sup>2</sup> depending on the profile geometry, punch patterns

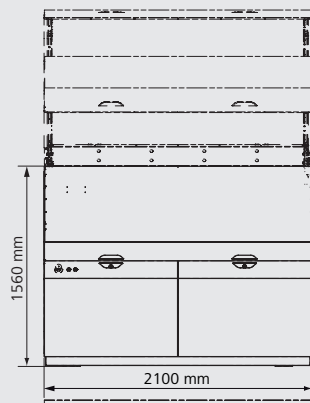
\* subject to changes

\*\* other heights on request

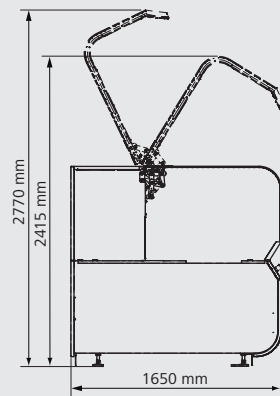
° optionally available

# Profiling system 4.1: Assembly plans

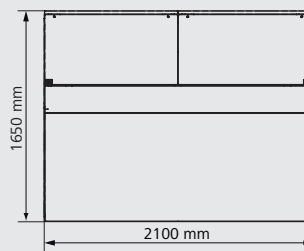
## Profiling module PM 4.1 - 300



Front view

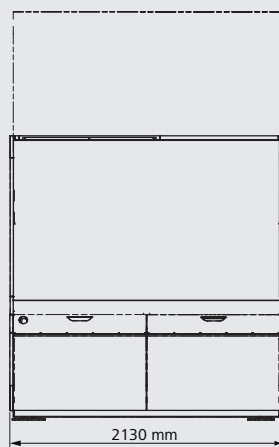


Side view

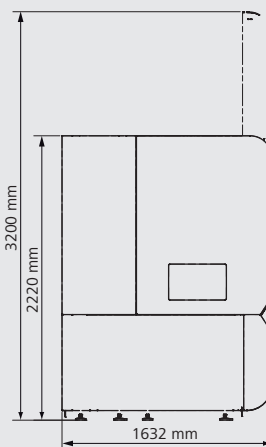


Top view

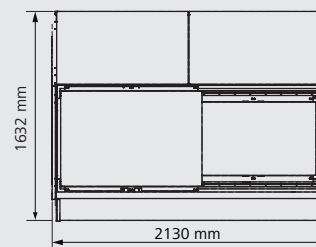
## Crosscut module PM 4.1 - 300



Front view



Side view



Top view

## **We look forward to learning about your future requirements!**

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Enabling a new dimension of profiling with its innovative systems, Profilm Metall is your specialist for roll-formed profiles.

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