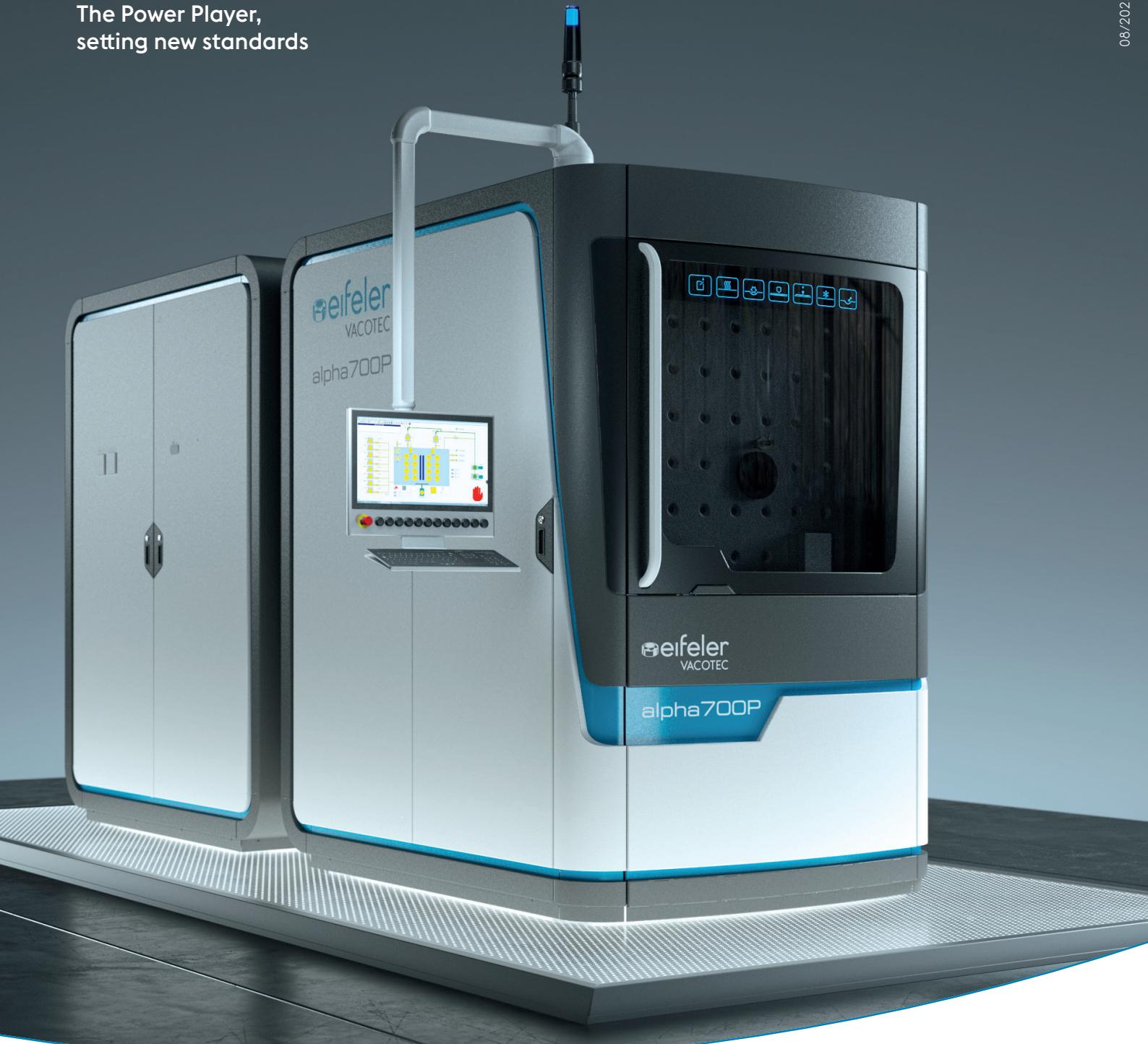


# ALPHA700P PVD COATING SYSTEM

The Power Player,  
setting new standards



# ALPHA700P PVD COATING SYSTEM

## THE POWER PLAYER

Get highest quality coatings within an environment of maximum productivity and efficiency.

The alpha700P is compact on the outside, but extra large on the inside. In its large chamber you can produce coatings with the latest Arc technology stunningly fast.

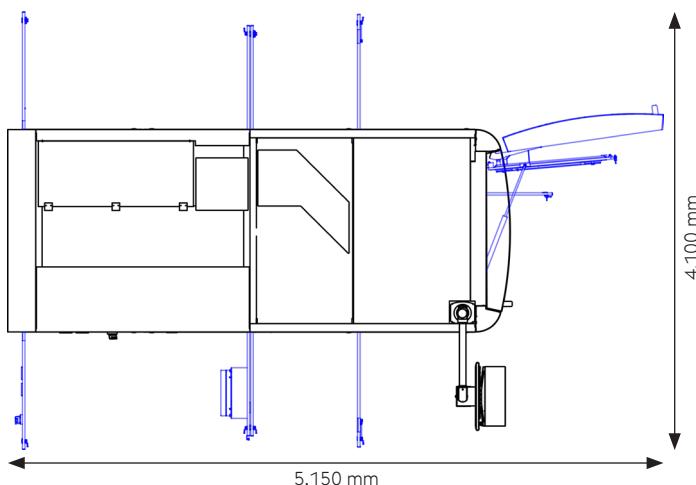
## STANDARD COATINGS

Arc coatings like:

» CrCN	» TiN
» CROSAL®-plus	» VARIANTIC®
» EXXTRAL®-plus	» ZrN
» SISTRAL®	» Duplex coatings
» TIGRAL®	» ultrafine coatings

## LAYOUT

- » Space saving design with  $1.6 \times 3.6$  m footprint (single frame)
- » Splittable into two frames
- » May be positioned against a wall with backside, as maintenance is executed from sides and front only
- » Smaller footprint in comparison to traditional design



## ADVANTAGES

- » Fast cooling system
- » Vacuum chamber with 950 l volume
- » Target shutter system to avoid target contamination
- » Dual evaporators for maximum flexibility
- » Smooth and dense ultrafine coatings
- » Duplex PVD coatings: In-situ nitriding and coating process in a single pass

## TECHNICAL DATA

<b>Usable volume</b>	$\varnothing 600$ mm x 700 mm
<b>Load</b>	Max. 1.250 kg
<b>Coating chamber (LxWxH)</b>	975 x 850 x 1,150 mm
<b>Dead weight</b>	5,400 kg 3,800 kg (front section) 1,600 kg (back section)
<b>Distributed load</b>	1,250 kg/m <sup>2</sup>
<b>Bias</b>	30 kW/max. 1.000 V DC/ pulsed DC
<b>Arc evaporators</b>	16 pieces with max. 125 A each
<b>Batches per day</b>	Typically 3 - 4 batches
<b>Exemplary batch end mills (<math>\varnothing 10 \times 70</math> mm)</b>	900 pieces per batch
<b>Exemplary batch hobs (<math>\varnothing 100 \times 150</math> mm)</b>	30 pieces per batch
<b>Turntables</b>	Different numbers of planetaries available