



# **BLT**

METAL 3D PRINTERS



# 4000+

employees

25% R&D STAFF

20% R&D BUDGET

40% ADVANCED DEGREES



600+ INVENTION PATENTS



**EQUIPMENT  
ASSEMBLY  
FACTORY**

An aerial photograph of a manufacturing campus. The buildings are color-coded and labeled. From top to bottom, the labels are: EQUIPMENT ASSEMBLY FACTORY (red), TESTING LABORATORY (yellow), HEADQUARTER R&D CENTER (brown), 3D PRINTING FACTORY (LARGE FORMAT) (blue), 3D PRINTING FACTORY (SMALL FORMAT) (blue), BLT COMPREHENSIVE OFFICE (grey), POWDER MANUFACTURING FACTORY (purple), POST PROCESS TREATMENT FACTORY (blue), and POST PROCESS TREATMENT FACTORY (blue). The campus is surrounded by greenery and other industrial buildings.

**3D PRINTING FACTORY  
(LARGE FORMAT)**

**POWDER  
MANUFACTURING  
FACTORY**

**TESTING  
LABORATORY**

**3D PRINTING FACTORY  
(SMALL FORMAT)**

**POST PROCESS  
TREATMENT  
FACTORY**

**HEADQUARTER R&D  
CENTER**

**BLT COMPREHENSIVE  
OFFICE**

**POST PROCESS TREATMENT  
FACTORY**





# A160

 **160 x 160 x 200**mm  
build dimensions

 **200W / 500W** x **1 or 2**x  
laser options

 **~15 or 30** cm<sup>3</sup>/h  
build rate

 **0 - 2** L/min  
argon consumption during print

 **+20 - 200**°C  
preheat temperature



CE Safety  
Certification



FDA Laser safety  
registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018



ATEX Explosion  
protection assessment

# S210

 **160 x 160 x 200**mm  
build dimensions

 **500W x 1 or 2x**  
laser options

 **~15 or 30** cm<sup>3</sup>/h  
build rate

 **0 - 2** L/min  
argon consumption during print

 **+20 - 350**°C  
preheat temperature



CE Safety  
Certification



FDA Laser safety  
registration



ISO9001:2015 / ISO14001:2015 / ISO



ATEX Explosion  
protection assessment



INSPIRING INNOVATIONS



THE SPIRIT OF SAFETY



# A300

 **250 x 250 x 300**mm  
build dimensions

 **500W / 1000W** x **1 or 2**x  
laser options

 **25 or 50** cm<sup>3</sup>/h  
build rate

 **0 - 2** L/min  
argon consumption during print

 **+20 - 200**°C  
preheat temperature



CE Safety  
Certification



FDA Laser safety  
registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018



ATEX Explosion  
protection assessment

# Powder Modules

 **50 L/hr**  
SF400 powder sieving capacity

 **Argon & Compressed Air**  
SF400 gas requirements

 **407 x 307 x 480 mm**  
QF400 max load dimension

 **± 180°**  
QF400 horizontal rotation angle

 **0° - 180°**  
QF400 tilt rotation angle



CE Safety  
Certification



FDA Laser safety  
registration



ISO 9001:2015 / ISO 14001:2015 / ISO



ATEX Explosion  
protection assessment

# S310

 **250 x 250 x 400mm**  
build dimensions

 **500W x 1 or 2x**  
laser options

 **25 or 50 cm<sup>3</sup>/h**  
build rate

 **0 - 2 L/min**  
argon consumption during print

 **+20 - 200°C**  
preheat temperature



CE Safety  
Certification



FDA Laser safety  
registration



ISO9001:2015 / ISO14001:2015 / ISO



ATEX Explosion  
protection assessment



SIEMENS

# Powder Equipment



CE Safety Certification



FDA Laser safety registration



ISO 9001:2015 / ISO 14001:2015



ATEX Explosion protection assessment



**>150 L/hr**

GF500 powder feeding capacity



**20L / 20L**

GF500 powder tank size



**Argon & Compressed Air**

GF500 gas requirement



**0.6 - 0.8 Mpa**

GF500 gas pressure



# S400

 **400 x 300 x 400**mm  
build dimensions

 **500W x 2 / 3 / 5 / 6** x  
laser options

 **50 - 150** cm<sup>3</sup>/h  
build rate

 **0 - 2** L/min  
argon consumption during print

 **+20 - 200**°C  
preheat temperature



CE Safety  
Certification



FDA Laser safety  
registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018



ATEX Explosion  
protection assessment



# Powder Circulation



CE Safety Certification



FDA Laser safety registration



ISO9001:2015 / ISO14001:2015 / ISO



ATEX Explosion protection assessment

 **Automated & Unattended & Uninterrupted**

GF500 x4 SF400 x1

 **30 L/hr**

closed loop circulation capacity

 **Automatic Recycling**

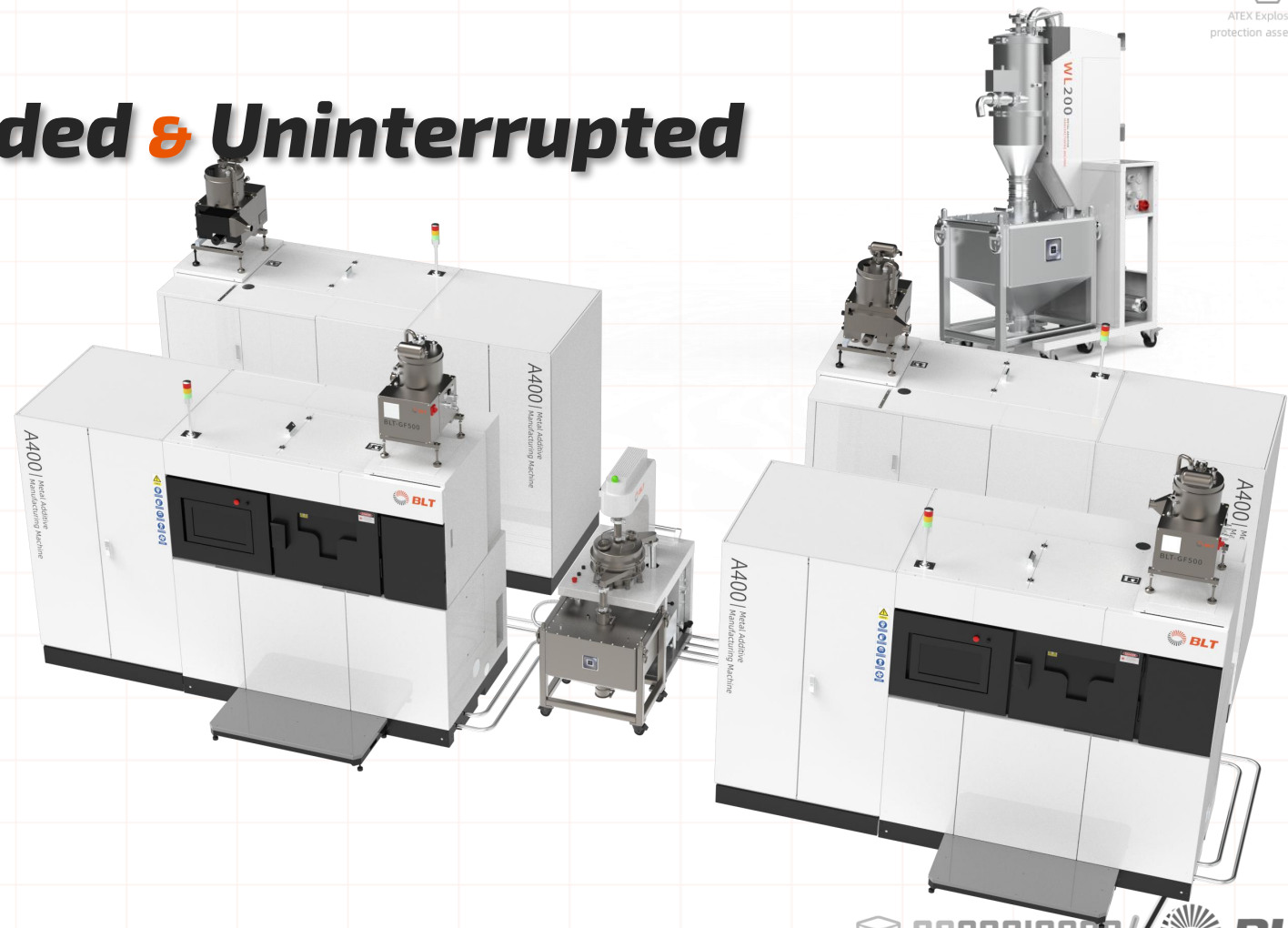
no human exposure to powder

 **≤ 20 O<sub>2</sub> ppm**

end-to-end inert powder conveyance

 **700 - 1000 kg/hr**

powder conveyance capacity



# S450

 **450 x 450 x 500**mm  
build dimensions

 **500W x 4 / 6 / 8** x  
laser options

 **100 - 200** cm<sup>3</sup>/h  
build rate

 **0 - 2** L/min  
argon consumption during print

 **+20 - 100**°C  
preheat temperature



CE Safety  
Certification



FDA Laser safety  
registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018



ATEX Explosion  
protection assessment



PHOTONICS




INSPIRING INNOVATIONS



# Depowdering Module

 **610 x 610 x 710mm**  
QF600 max loading dimension

 **± 180°**  
QF600 horizontal rotation angle

 **0° - 180°**  
QF600 tilt angle



CE Safety Certification



FDA Laser safety registration



ISO9001:2015 / ISO14001:2015 / ISO13485:2015



ATEX Explosion protection assessment

# S600

 **650 x 650 x 850**mm  
build dimensions

 **500W x 4 / 6 / 8** x  
laser options

 **100 - 200** cm<sup>3</sup>/h  
build rate

 **0 - 2** L/min  
argon consumption during print

 **+20 - 100**°C  
preheat temperature



CE Safety  
Certification



FDA Laser safety  
registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018



ATEX Explosion  
protection assessment



# S615

 **600 x 600 x 1500**mm  
**650 x 650 x 1300**mm  
build dimensions

 **500W x 4 or 6x**  
laser options

 **100 - 150** cm<sup>3</sup>/h  
build rate

 **0 - 2** L/min  
argon consumption during print

 **+20 - 100**°C  
preheat temperature



CE Safety  
Certification



FDA Laser safety  
registration



ISO9001:2015 / ISO14001:2015 / ISO



ATEX Explosion  
protection assessment



# S800

 **800 x 800 x 650**mm  
build dimensions

 **500W x 6 / 8 / 10** x  
laser options

 **150 - 250** cm<sup>3</sup>/h  
build rate

 **0 - 2** L/min  
argon consumption during print

 **+20 - 100**°C  
preheat temperature



CE Safety  
Certification



FDA Laser safety  
registration



ISO9001:2015 / ISO14001:2015 / ISO



ATEX Explosion  
protection assessment



INSPIRING INNOVATIONS



# S815

 **800 x 800 x 1500**mm  
build dimensions

 **500W x 6 / 8 / 10** x  
laser options

 **150 - 250** cm<sup>3</sup>/h  
build rate

 **0 - 2** L/min  
argon consumption during print

 **+20 - 100**°C  
preheat temperature



CE Safety  
Certification



FDA Laser safety  
registration



ISO9001:2015 / ISO14001:2015 / ISO



ATEX Explosion  
protection assessment



# S1000

 **1200 x 600 x 1500**mm  
build dimensions

 **500W x 8 / 10 / 12** x  
laser options

 **200 - 300** cm<sup>3</sup>/h  
build rate

 **10 - 15** L/min  
argon consumption during print

 **+20 - 100**°C  
preheat temperature



CE Safety Certification



FDA Laser safety registration



ISO9001:2015 / ISO14001:2015 / ISO45001:2018



ATEX Explosion protection assessment



INSPIRING INNOVATIONS



# S1025

 **1200 x 600 x 2500**mm  
build dimensions

 **500W x 32x**  
laser spec

 **1070** cm<sup>3</sup>/h  
build rate

 **10 – 15** L/min  
argon consumption during print

 **+20 - 100**°C  
preheat temperature



CE Safety  
Certification



FDA Laser safety  
registration



ISO9001:2015 / ISO14001:2015 / ISO



ATEX Explosion  
protection assessment

SCANLAB

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CONTACT

UJ

HIL

SIMONS

# Powder Circulation

 **Automated & Unattended & Uninterrupted**

XH300 x1 WL400 x1

 **30 L/hr**

closed loop circulation capacity

 **Automatic Recycling**

no human exposure to powder

 **Oxygen Sensing**

protecting powder and operator

 **1700 - 2000 kg/hr**

powder conveyance capacity



CE Safety Certification



FDA Laser safety registration



ISO 9001:2015 / ISO 14001:2015 / ISO 45001:2018



ATEX Explosion protection assessment



SCANLAB



IPG PHOTONICS



materialise



PHENIX CONTACT INSPIRING INNOVATIONS



THK The Best in Motion



SMC



PULS



PILZ THE QUALITY OF SAFETY



SIEMENS

# S1500

 **1500 x 1500 x 1200** mm  
build dimensions

 **500W x 26x**  
laser spec

 **900** cm<sup>3</sup>/h  
build rate

 **10 – 15** L/min  
argon consumption during print

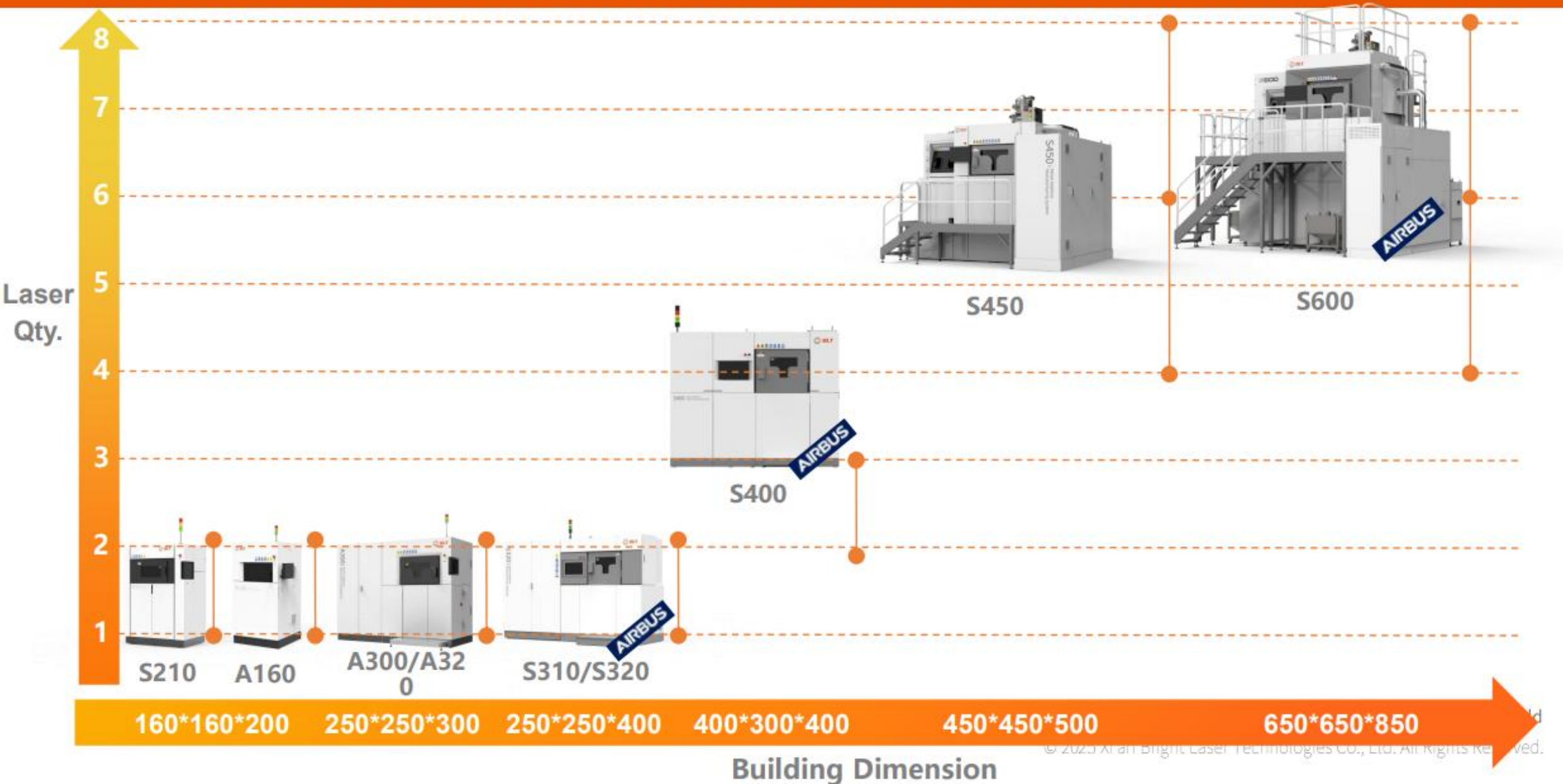
 **+20 - 100**°C  
preheat temperature



# BLT LPBF Machine Family



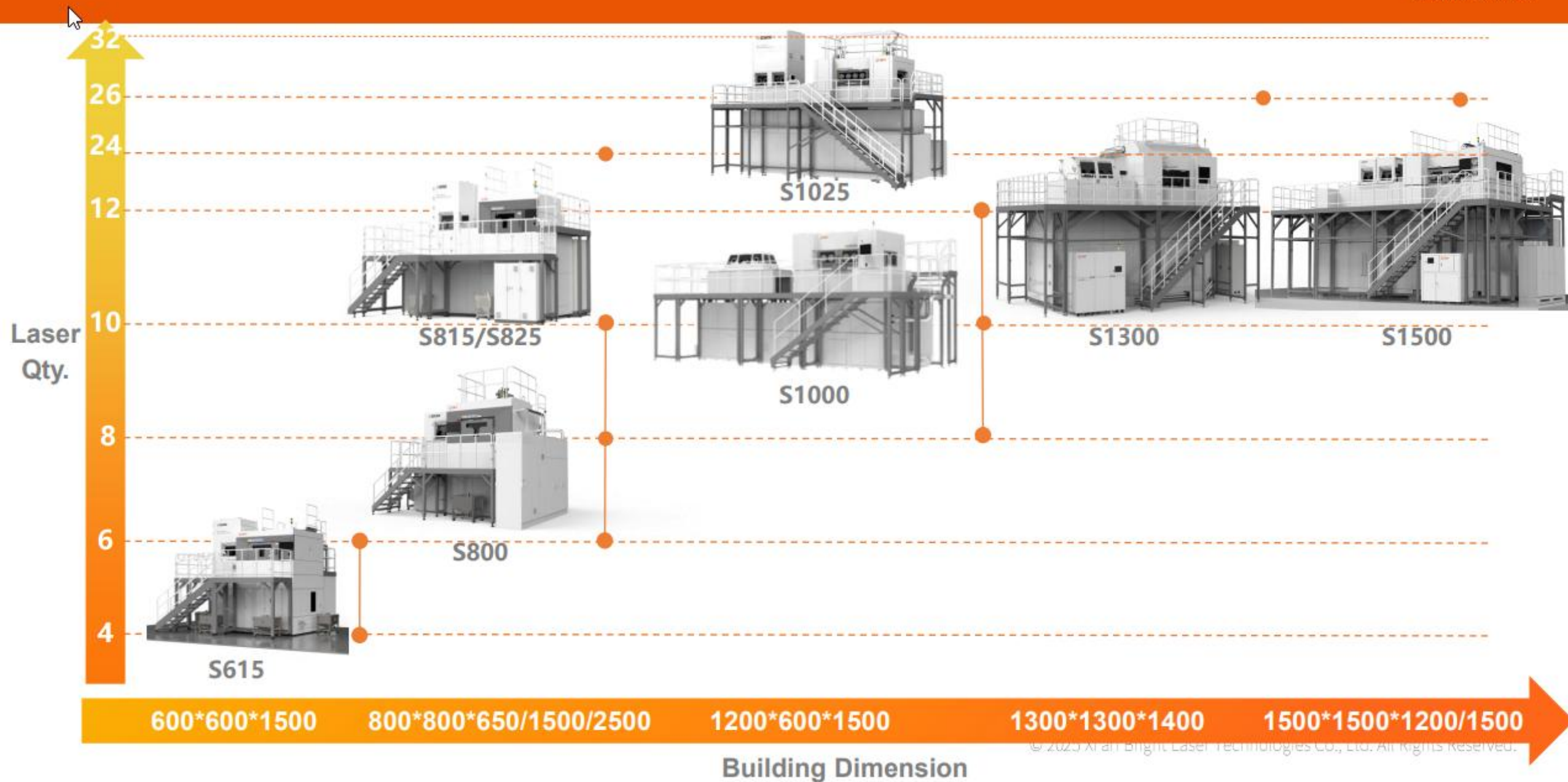
Stock Code: 688333.SH



# BLT LPBF Machine Family



Stock Code: 688333.SH



# Metal Powder Recycling System

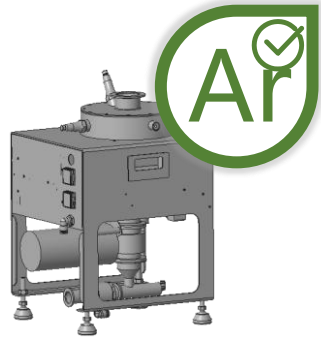
Enhanced powder circulation to drive production line upgrades

## Auxiliary Machine Family



### Powder Recycle

Vacuum Conveying  
Module  
BLT-WL200\WL400



### Auto-Powder Recycle

Auto-Recycle  
Module



### Powder Sieving

Powder Sieving  
Module  
BLT-SF800\SF400



### Powder Feeding

Powder Supply  
Module  
BLT-GF300

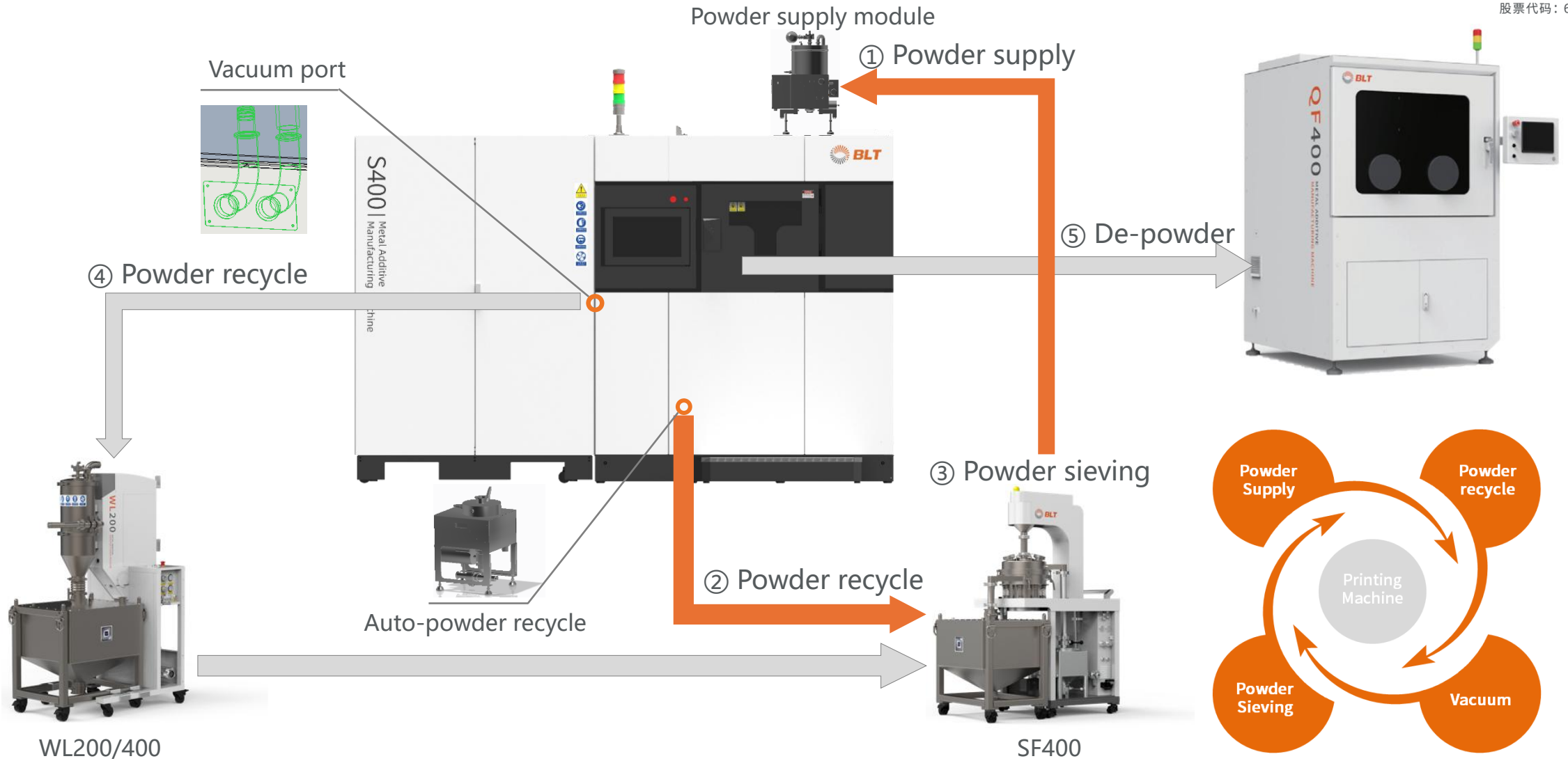


### Powder Cleaning

Depowder Module  
BLT-QF400\QF600


Powder managed in close-loop with complete **Argon** protection and **Oxygen** detection.

# Production Line Powder Circulation



 Complete electrostatic protection

 Argon protect through whole process

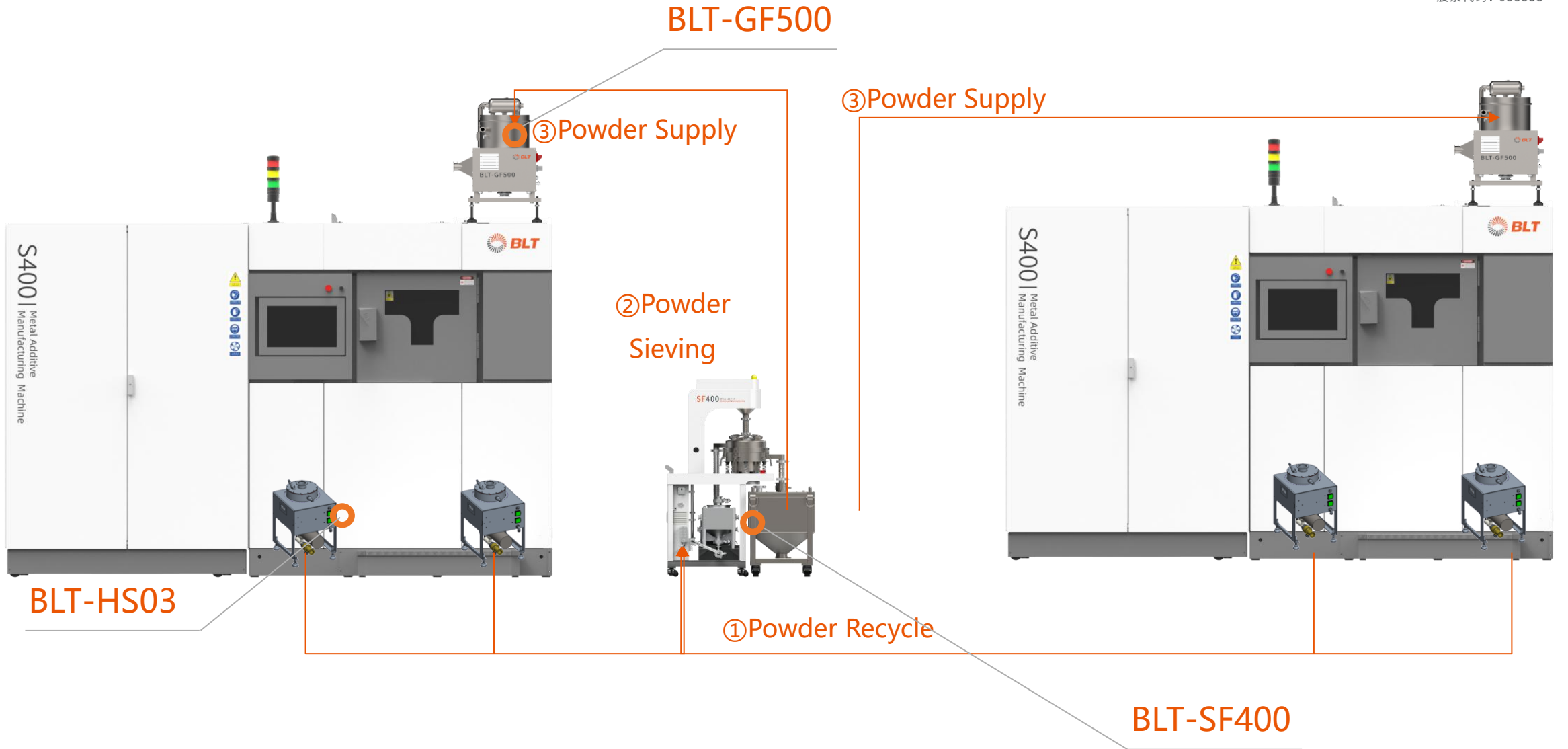
 Human-powder separate through whole process

 Oxygen content detect

让制造更简单 世界更美好

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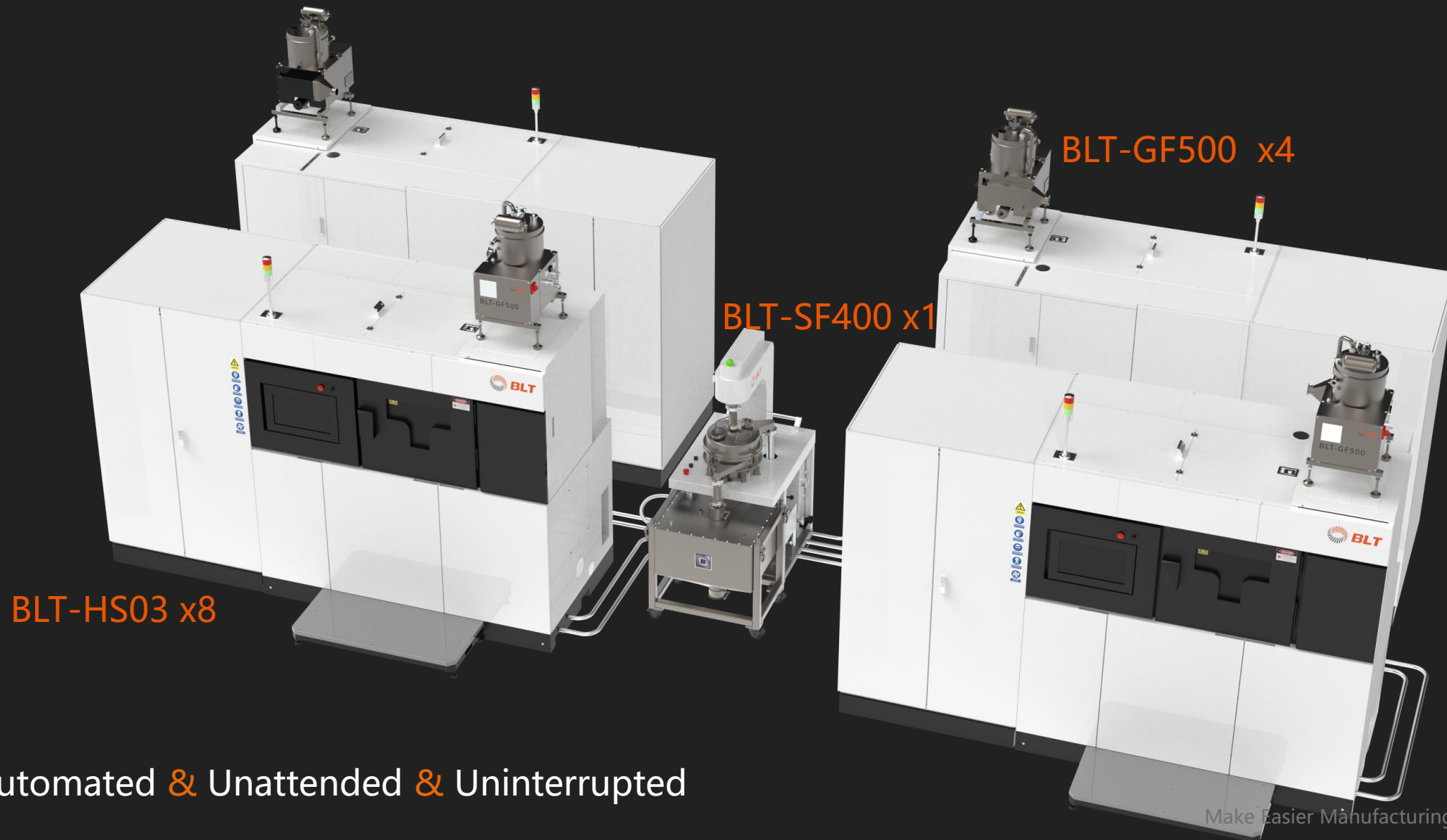
# Production Line Powder Circulation



# Production Line Powder Circulation



Stock Code: 688333.SH



BLT-HS03 x8

BLT-SF400 x1

BLT-GF500 x4

Automated & Unattended & Uninterrupted

Make Easier Manufacturing, Make a Better World

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