



17.10.23

MULTI PHS

Multi function
Powder Handling Station



MULTI functions, **MULTI** materials, **MULTI** printers

ONE central device
MULTI PHS



| Why create the MULTI PHS?

Common requests from our end-users

1. Enclosed workspace – maximum reduction of dusting
2. Ability to work with other SLS printers and 3rd party materials
3. Clear and intuitive operation, modern end-user friendly interface
4. Increasing end-users awareness related to the different specs of SLS powders



I Multi-material

Multi-material approach is a core feature of Sinterit's solution.

Multi-material means that you only need one printer to use for wide spectrum of powders (so far 10 and counting) profiled and tested by Sinterit or your own material. And the whole solution is designed so you can change powders between print jobs:

- safe / ATEX certified
- with little to no waste of powder
- fast
- easy



PERFORMANCE

HIGHEST PERF of the market
ATEX CERTIFIED SET

- LISA X 3D Printer
- **Multi PHS**
- **ATEX Vacuum Cleaner** + separator
- Dust-free **Sandblaster SLS**
- **Dedicated Powder Tools**
- **Sinterit Studio Advanced**
- **Flight Case**
- **STANDARD** - Service set for 1 year





Key features





| Anti-Dust Cover

- Minimised powder spreading
- Protects user from inhaling the powder from air
- Fulfills safety requirements in countries with most strict rules – Germany, Holland, Austria



| Cake unpacking

Compact / Industrial compatible

- Lowering the grid in depowdering chamber and Cooling Box adapter allows to unpack and depowder large prints from NILS and other industrial-grade printers
- Sensors that prevent bin overload in case of cleaning several printcakes one after another
- NILS adapter is part of NILS accessories set, but can also be bought separately





I New Multimaterial approach

- 4 sifting programs for materials with different morphological properties,
 - Pa12 - the fastest program 10 min
 - Pa11
 - PP
 - Flexa
- Shorter depowdering time
- Simplified operating process





| New Multimaterial approach

- Solo sifting – additional sieving cycle, no need to go through the whole system again

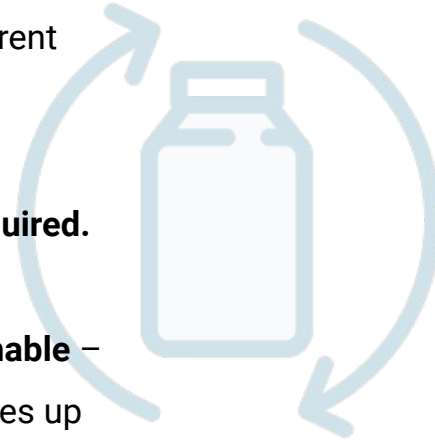


| Easy material change

Finegrain polyamides used in SLS 3D printing are **morphologically distinct** from each other – and give different mechanical parameters after sintering.

The bigger the difference the deeper PHS cleaning is required.

The station is designed so **all key spaces are easily reachable** – with vacuum and other accessories full deep cleaning takes up to 30 mins!





Features **SUMMARY**



I NEW features - sum up

1. **Workspace cover** to minimise material spreading during depowdering
2. Lighter and more **flexible hose**
3. **Simplified interface** and **new** work settings
4. Tool shelf replaced with **movable holder**
5. Accessories for **deep material change** for powders with radically different parameters





| Sales benefits of MultiPHS

- **Safety**
Workspace cover that fulfills the ATEX guidelines
- **Easy depowdering and fast material change -**
easily depowder PHS in 10', using elastic vacuum hose, be ready for next print in 30'
- **Efficient powder collecting**
save up to 99% of unsintered powder, refresh and use it again
- **Multi purpose sieve**
4 sieving programs for morphologically different materials + solo sifting for quick tasks
- **MulitiMachines**
Easily adjust workspace to depowder higher cakes from Nils480, lower from LIsaX or other SLS printers
- **More comfortable work**
Big storage space, movable magnetic tool holder, elastic vacuum hose, intuitive UI



| Accessories and tools closeup

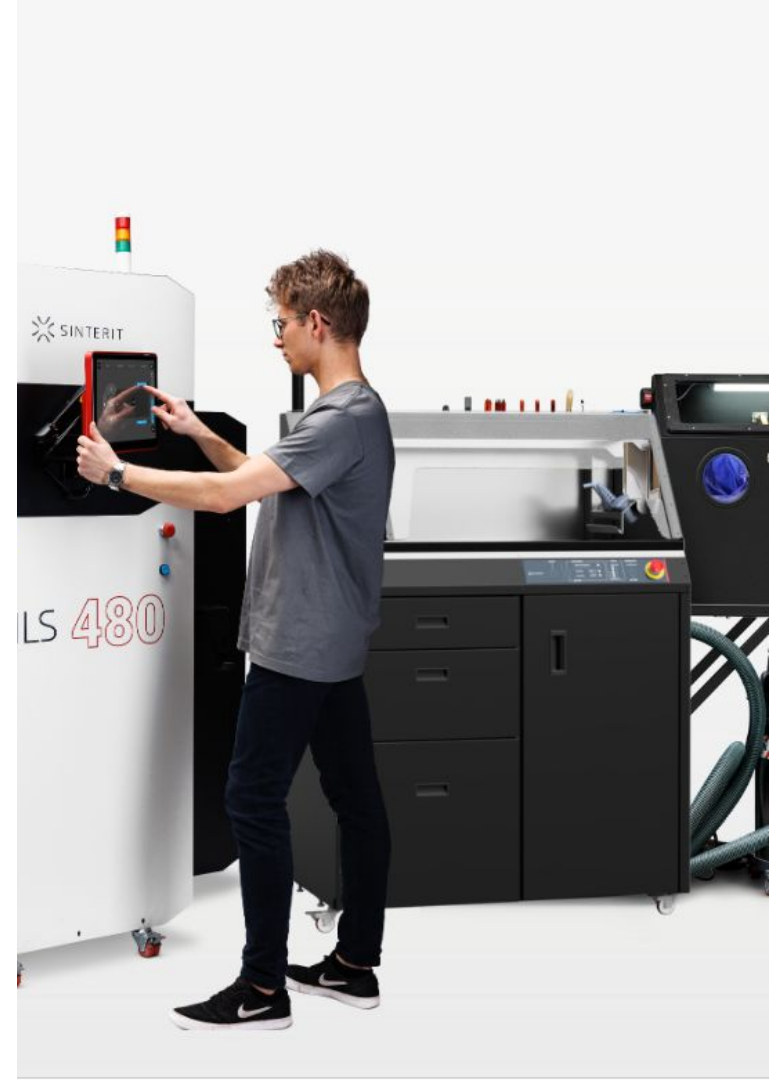


magnetic
mobile
tool holder



new tools and accessories kit

	PHS v2	Multi PHS
Cover	No	Yes
Hose	Rigid	Elastic
Interface	Switches	Improved UX
Sieving timer	Visual	Automatic
Powder recovery programs	1	4
Powder recovery / speed	40'	10'-25'
Overflow sensor	No	Yes
External Sieving	-	Yes
Multi Material efficiency	69-95% depending of material	95%
Metal container	20l	20l
Change material	>30'	>30'
Tools	<ul style="list-style-type: none"> • 3 nozzles • Anti-noise headphones • Powder Wiper, • PVC brush • Metal container 20l 	<ul style="list-style-type: none"> • 3 nozzles • Anti-noise headphones • Powder Wiper, • PVC brush • Special brush for deep material change cleaning • Cotton pads



Pricing



Workspace 600 x 1100 mm (23.4 x 23 in)
Storage space 110l (66 lbs)

Dimensions 700 x 1000 x 1800 mm
(27.6 x 39.4 x 70.9 in)

€10 490



POSTPROCESSING SET

Multi PHS / Sandblaster SLS / Atex
Vacuum Cleaner / Separator / DTP
Universal tools set / Foldable Tray

€15 990





FAQ

- A testing **procedure to increase quality** was introduced during Multi PHS production
- All previous **faults in PHS v2 have been eliminated** in new design.
- **PHS v2** will no longer be produced
- **From 48 week** MULTI PHS will be on stock and available **in all sets in offer.**

