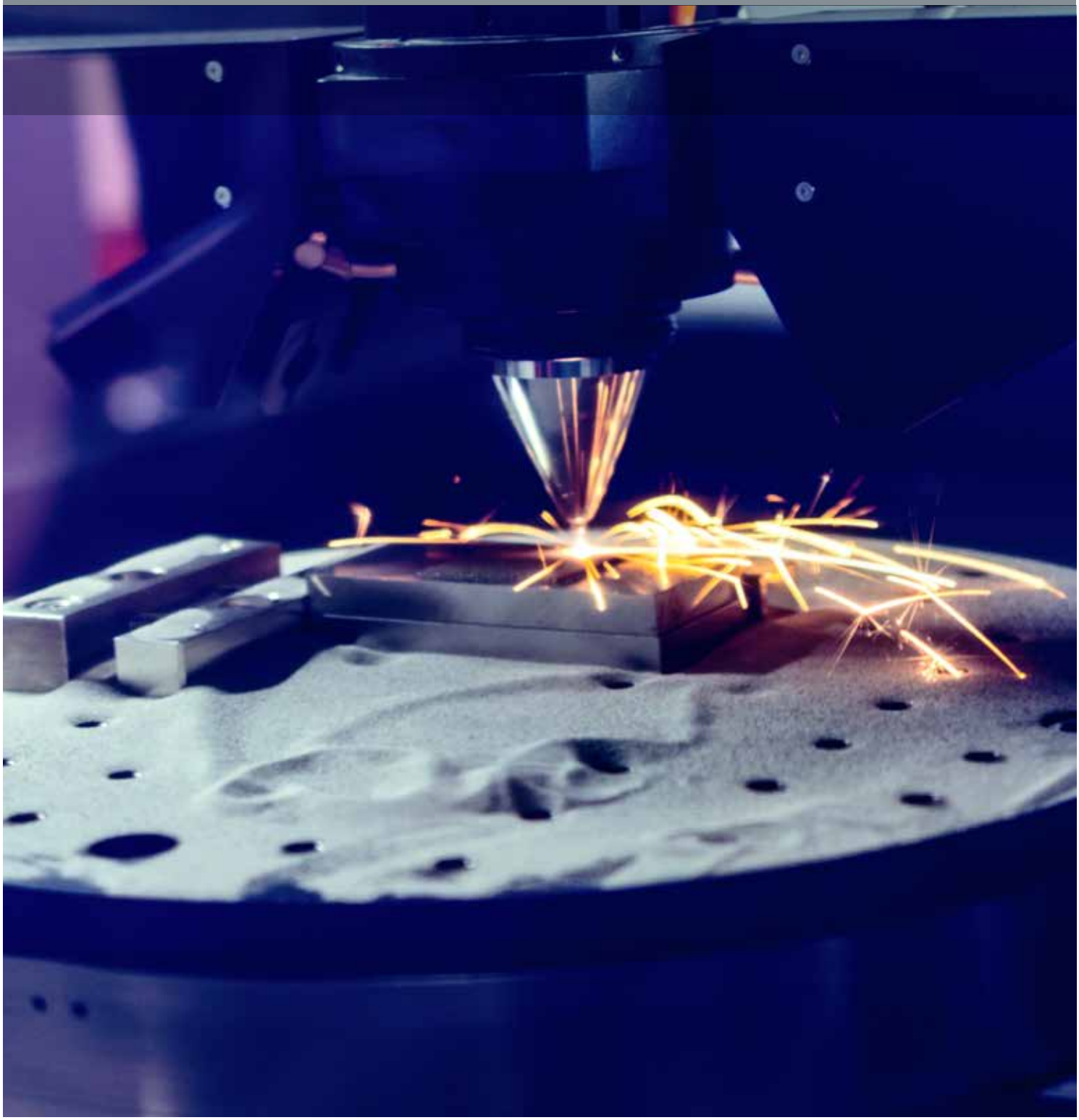
Additive Manufacturing

# Industrial vacuums for additive manufacturing



Nilfisk®

# Additive manufacturing, we make it safe

## - Take full advantage from Nilfisk industrial vacuums

After the additive manufacturing process, it's important removing the residue of metal powder, in order to avoid any cross-contamination and ensure the quality of the products. Many of the powders used in this process (aluminum, titanium, Cobalt-Chrome...) are dangerous because they have a low trigger energy and can easily explode; the intrinsic hazardousness of these fine metal powders demands great attention and expertise in supplying a machine to suit the application.

That is why Nilfisk has designed a dedicated range of ATEX certified industrial vacuum cleaners, equipped with a specific immersion separator container, where the powder is collected and deeped into mineral oil in order to be immediately neutralized. In this way, we do support our customers with the safest solution available on the market.

The range is composed by singlephase, threephase and compressed air models in order to meet any requirement.

**Benefits:**

- Total safety
- Avoid cross-contamination
- Top quality of the products.


**Technical specifications**

| Description | Unit | VHS110 Z22 EXA IS | T22PLUS L100 LC Z22 EXA IS | T40WPLUS L100 Z22 EXA IS | VHC110 Z1 EXA IS | VHC120 Z1 EXA IS | VHC200 L100 Z1 EXA IS |
|---|---|---|---|---|---|---|---|
| Voltage | V | 230 | 400 | 400 | - | - | - |
| Frequency | Hz | 50 | 50 | 50 | - | - | - |
| Protection class | IP | 64 | 65 | 65 | - | - | - |
| Insulation class | Class | F | F | F | - | - | - |
| Rated power | kW | 1.1 | 2.2 | 4 | - | - | - |
| Air consumption (at 6 bar of pressure) | NL/min | - | - | - | 630 | 1260 | 2650 |
| Required pressure | bar | - | - | - | 4/7 | 4/7 | 6 Max |
| Airflow without hose | L/min | 3600 | 5250 | 8150 | 1980 | 3360 | 5580 |
| Vacuum max | kPa | 22 | 21 | 19 | 32.5 | 32.5 | 38 |
| Sound pressure level | dB(A) | 73 | 67 | 71 | 71 | 72 | 70 |
| Max. dust quantity* | L | 4* | 6* | 6* | 4* | 4* | 6* |
| Main filter type | | Antistatic M-class star filter | Antistatic M-class star filter | Antistatic M-class star filter | Antistatic M-Class star filter | Antistatic M-Class star filter | Antistatic M-Class star filter |
| Main filter area | $cm^2$ | 10.000 | 19.500 | 35.000 | 10.000 | 10.000 | 19.500 |
| Inlet | mm | 50 | 70 | 70 | 50 | 50 | 70 |
| Length x width x height | cm | 56x57x124 | 129x60x154 | 129x60x164 | 27x56x124 | 57x56x124 | 91x60x159 |
| Weight | kg | 42 | 138 | 167 | 37 | 37 | 70 |

· ** The maximum collection capacity derives from the presence of the inertization system. Local Standard requirements may impose even stricter limits, in terms of max collectable powder quantity.*

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