

## TruPrint Series

# Industrial part and powder management



### High productivity and profitability

Due to work done parallel to production

### Cleanliness and safety in production

Thanks to a closed powder circuit

### Great flexibility

Due to modular design and standard interfaces

### Short throughput times even with large powder volumes

Because of automation and high performance

Components can be used for several TruPrint machines simultaneously

## Industrial production with Laser Metal Fusion.

The external part and powder management enables set up and powder removal of one or multiple TruPrint machines, and results in increased productivity and profitability. Standard interfaces and a modular design guarantee maximum flexibility. The central components include the unpacking station, sieving station and powder silo. These devices can be enhanced individually and optimally support the industrial factory. They can serve the TruPrint 3000 as well as the TruPrint 5000. Use of these delivers a closed powder circuit and allows powder, build and part processes to run parallel to production.



### Unpacking station

External powder removal of the build parts and high operator safety

The unpacking station allows the insertion of new powder into the circuit and build parts can be separated from the powder bed while avoiding contact with the powder. Using the integrated interchangeable cylinder principle of TruPrint machines, the build cylinder can be set up with a new substrate plate and is transported easily to the unpacking station after the building process. Even complex build parts can be cleaned quickly using suction nozzles optimized for their requirements. The rotatable working area and the electrical lift drive ensure ergonomic handling.



### Sieving station with vacuum conveyor

Highly productive, automated sieving process for powder preparation

The sieving station with ultrasonic cleaning is specifically designed for industrial processing. The high degree of automation enables unattended operation. This makes it possible to achieve a very high sieve throughput with a consistently high powder quality. With the integrated vacuum conveyor, powder from any desired containers can be sieved and, using the weighing function, be put into the desired containers. The vacuum conveyor can be quickly attached to both the sieving station and to a powder silo.



### Powder silo

Save storage, transport and refilling of powder

In a powder silo, large quantities of powder are safely and efficiently stored in a standard container. The volumes can be individually adapted (30l, 80l, 130l, 180l). The clamps are easily removed for fast cleaning. The powder silo can be transported with the electric lift truck.



You can find additional information about components and technical details at [www.trumpf.com/s/additivemanufacturing](http://www.trumpf.com/s/additivemanufacturing)