

# Healthy working conditions & safe machines

EOS systems and peripheral devices are designed according to acknowledged international safety standards and are CE marked and verified by accredited test partner TÜV. Detailed operator training and documentation completes the safety concept.



## Personal Protective Equipment

Consistently avoid minimal residual risks



### Conveying module

Conveniently transport metal materials in a closed cycle



### Lifting trolley

Ergonomic handling of building platforms and material containers



### Sieving module

Flexible and dust-free vibration sieving with ultrasonic screen cleaning, without powder contact by the operator



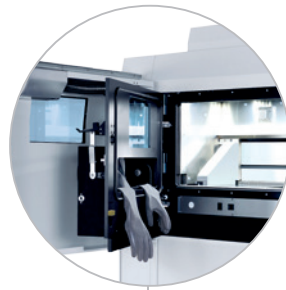
### Filling module

Contact-free refilling of metal material



### Wet separator

Securely extracts metal material and by-products



### Comfort Powder Module

Contact-free materials handling due to closed process chamber door



### Laser radiation

Operator is reliably shielded

### Laminar flow

Optimized process gas flow completely extracts laser smoke residue and by-products

### Emergency stop circuit

Immediate shutdown of the machine in case of emergency

### Protection gas monitoring

Safe operation through suitable protection gas selection

### Electrical safety circuit

Opening the process chamber door automatically stops axis movements, shuts down the laser and interrupts the protection gas supply

### Inert gas connection

Ensures adequate gas type through standardized connections

### Recirculation filter system with self-cleaning function

Safe handling of laser smoke residue and by-products through continuous extraction, filtering (filter classes F9, H13, H14) and recycling of protection gas  
Filter disposal by proper passivation

### Oxygen safety circuit in process chamber and recirculated air filter system

Reliably prevents metal material fires and the formation of an explosive atmosphere

### ESD mat and armband

Reliably grounds operator and prevents electrostatic discharge

## Safety precautions in the production hall



### Laser indicator

Clearly indicates service activities



### Stationary oxygen meter with alarm function

Quickly and reliably calls attention to argon leaks



### Fire extinguisher

Rapidly extinguishes small and incipient fires