



UFM Precision HD4

PROMESS assembly press UFM Precision **Hygienic Design** for applications in cleanroom environments, certified according to cleanroom class ISO 4

(DIN EN ISO 14644)

For more efficiency.

PROMESS

Assembly and Sensor Technology



UFM Precision HD4

PROMESS has designed the assembly press series **UFM Precision HD4** for applications in cleanroom environments. A well-conceived design of sealings, filters and surface refinements minimizes the particle emission of the assembly press and allows for precise production without contamination of the environment. All components of the system comprise of FDA approved material or are coated with FDA approved materials. The complete system can be cleaned easily. The UFM Precision HD4 is certified with cleanroom class ISO 4 according to DIN EN ISO 14644.

Advantages

- Certified cleanroom class ISO 4 according to DIN EN ISO 14644
- Easy to clean set-up
- High repeatability
- Precision set-up with high-precision press ram guidance
- High-resolution sensors
- Intelligent control system
- Only a power amp is required, no need for an additional external monitoring system
- 100% quality control using window and/or envelop methods
- No PLC knowledge required



Specifications

Main functions

■ Nominal load	± 1 kN
■ Stroke	100 mm
■ Nominal speed	300 mm/s
■ Acceleration	4,000 mm/s²
■ Dwell time nominal load	minimum 4 s
■ Weight	10.5 kg
■ Cleanroom class	4 DIN EN ISO 14644

Distance measuring

■ Smallest measuring step	0.061 µm
■ Repeatability*	< 0.01 mm

Force measuring

■ Characteristic value	1 mV/V
■ Smallest measuring step	0.268 N
■ System accuracy**	< 1% f.E. with 2-point-calibration < 0,3 % f.E. with characteristic map

*At thermal steady state
**Force measuring system calibrated statically

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The Promess logo consists of the word "PROMESS" in a bold, sans-serif font, centered between two horizontal yellow bars. Below the logo, the text "Assembly and Sensor Technology" is written in a smaller, sans-serif font.