

UFM Precision HD4

The production in the electrical and medical industry requires a controlled and clean environment. PROMESS has designed the assembly press series UFM Precision HD4 for applications in cleanroom environments, certified according to **cleanroom class ISO 4 (DIN EN ISO 14644)**. A system of sealings, filters and surface refinements minimizes the particle emission of the assembly press and allows for precise production without contamination of the environment. The units are equipped with an absolute encoder eliminating the necessity of a homing. The digital pre-amplifier provides an accuracy of the force measuring of 0.3 % with the calibration by characteristic map. The included UFM Software V5 features all possibilities for quality assurance and process reliability for the assembly process.

SPECIFICATIONS

Nominal load	±1 kN
Stroke	100 mm
Nominal speed	300 mm/s
Acceleration	4,000 mm/s ²
Dwell time nominal load	minimum 4s
Weight	10.5 kg

FORCE MEASURING

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

DISTANCE MEASURING

Smallest measuring step	0.061 µm
Repeatability**	<0.01mm

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

