

XT Machine Support Frame

The XT Machine Support Frame (MSF) consists of three different main parts, corresponding with the way the machine is built. The first part is the MSF supporting the Wafer Handler (WH). The central part is the largest and is designed to support the Main Body (MB). The last part consists of a Nickel-plated steel Intermediate Floor (IF).

All concrete frame parts have a height of 230 [mm] or 9.05 [in]. The remaining height to the level of the elevated floor will be bridged with steel sleeper beams. By working this way a small stock of the most complicated parts can be held, resulting in a short delivery time. Finite element calculations are executed for all parts in order to optimise the lowest possible mass with the required stiffness.



Technical Specifications

Stiffness	Guaranteed according to ASML spec.
Total Mass	4205 [kg] or 9270 [lbs], based on H=600 [mm], or 23.62 [in]
Mass wafer handler MSF (WH)	695 [kg] or 1532 [lbs]
Mass main body MSF (MB)	2150 [kg] or 4740 [lbs]
Mass Intermediate Floor (IF)	260 [kg] or 573 [lbs]
Mass sleeper beams	1100 [kg] based on height of sleeper beams 350 [mm], total height 600 [mm]
Minimum concrete quality	C65
Total dimensions outline	2087x4530xH [mm] or 82.17x178.34xH [in]
Dimension wafer handler MSF	2087x753xH [mm] or 82.17x29.65xH [in]
Dimension main body MSF	2087x2598xH [mm] or 82.17x102.30xH [in]
Dimension machine IF	2087x1197xH [mm] or 82.17x47.13xH [in]
Installation time	2.5 [days]
Installation positioning and levelling	< 1.5 [mm] resp. < 0.5 [mm] or < 0.06 [in] resp. < 0.02 [in]
Supported machine types	XT400E, XT400F, XT450E, XT450F, XT760F, XT850F, XT1250B, XT1250D, XT1400E, XT1400Ei, XT1700i
Surface flatness	1 [mm/m] after finishing or 0.01 [in/ft]
Surface finishing	< 0.3 [mm] coating for concrete & sleeper beams or < 0.01 [in]
Features	Other steel parts are nickel plated C-rail for auxiliary equipment and seismic anchoring Machine reference points Variable height suitable for all raised floors
Options	Suitable laser frame Suitable track frame Beam delivery from left or right

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