

FPS-US

Automated Gas-filling Machine

LiSEC

CREATING VISIONS. PROVIDING SOLUTIONS.



The fully automated system for the gas filling, assembly, and surface pressing of insulated glass sheets. The tried-and-tested system for filling the sealed chambers via the bottom edge ensures that gas filling is carried out without any turbulence whatsoever. The principle of creating "Separate Chambers" developed by LiSEC enables precise positioning of the movable sealing strip according to the length of the glass sheet and therefore makes exact dosage of volume possible avoiding major gas losses. An upstream measurement zone directs the measurement data to the gas-filling press. Using its spindle drive mechanism, the press adjusts itself to match the values measured and presses the sheets to the correct dimensions. In addition, the measuring zone calculates the volume of the unit, which allows the gas volume to be pre-dosed, thus efficiently optimizing gas consumption. For this purpose, the gas mixture ratio can be set precisely.

Highlights

- Unrivaled gas-filling rate
- Turbulence-free gas filling
- Movable sealing strips significantly reduce gas losses
- Especially ideal for xenon and krypton gas
- Cycle time independent of unit length (by filling gas from below)
- No excessive pressing thanks to upstream measuring zone

- Options for double- and triple-glazed insulating glass

Optional

- Shapes according to LiSEC shape catalogue
- Step units
3-side stepped unit:
BE = 0 mm, LE + RE + UE = 0 - 140 mm
4-side stepped unit:
BE = 0 - 50 mm, LE + RE + UE = 0 - 140 mm
BE = 0 - 100 mm, LE + RE + UE = 0 - 140 mm
BE = 0 - 100 mm, LE + RE + UE = 0 - 200 mm

Technical Data	
Glass height	1,6 m / 2 m / 2,5 m / 2,7 m / 3 m / 3,3 m
Unit thickness	20 - 52 mm Optional 16 - 40 mm / 24 - 60 mm / 24 - 100 mm
Minimal size	250 x 180 mm
Maximal size	2.500 x 2.500 mm / 3.500 x 3.300 mm / 6000 x 3300 mm
Glass thickness on fixed press plate	2,3 - 19mm Optional 2,3 - 32 mm / 2,3 - 26 mm (step units BE = 0 - 50 mm)
Glass thickness on moveable press plate	2,3 - 15 mm Optional 2,3 - 19 mm
Load on fixed press plate max.	150 kg/lfm
Load on moveable press plate max.	100 kg/lfm
Load max.	250 kg/lfm