

CHIPLESS CUTTING

Digital panel cutters are suitable tools for cutting SINTREX® panels quickly and accurately. The main advantage of these machines is their chip-free cutting action on stationary panels (no scratching). Panels up to 5 mm thickness can be through-cut in both dragging and oscillating mode.

Dragging mode

- For dragging mode, sword-like knives with symmetrically arranged blades on both sides should be used with a universal cutting knife tool. The knife should be selected as thin as available to reduce displacement of material in the cutting area.



- Important is to ensure very good fixation of panels to prevent movement while cutting; best vacuum and non-slip base should be used, i.e., foamed mat made of polyurethane (PUR).
- If available, it is recommended using a spring-loaded gliding shoe at maximum possible pressure level to prevent the knife from lifting the cut piece when retracting.
- It is recommended for the cutting speed to not exceed 200 mm/s in order to obtain acceptable cutting results.
- Acceleration of the knife should be set to minimum.

Oscillating mode

- For oscillation mode, knives with small pre-cut should be used with a pneumatic oscillating knife tool.



- The use of anti-slip base is not necessary. Nevertheless, it is recommended to ensure the panels are fixed well, i.e., by applying appropriate vacuum.
- It is recommended for the cutting speed to not exceed 250 mm/s in order to obtain acceptable cutting results.
- Acceleration of the knife should be set to minimum.