

Semi-automatic roof tile extruder

The product is a collaborative effort between PMSA and ABECE of Sweden.

The SPS712 has a dual start/stop function that requires the operator to use both hands to either start or stop the machine has enhanced safety significantly.

This is an example of the attention to detail that has been brought to the development of the SPS712 for the African market, where skill levels are low and proactive maintenance is not a priority.

In order to ensure maintenance, as well as keeping the machine clean, the extrusion head flips upwards. All working parts are easily repairable and do not require special tooling to be removed. The SPS712 utilises an aluminium palette to shape the tiles.

This semi-automatic extruder can manufacture up to 5 000 concrete

The SPS712 roof tile extruder was developed specifically for the African market by PMSA and ABECE of Sweden.

tiles in a nine-hour shift, depending on the specific plant configuration. This equates to about ten tiles a minute. The main benefits are that it is easy to install, operate and maintain, which are important considerations in remote project sites in Africa.

The extruder features a heavy-duty design that incorporates high-quality material and components in its manufacture. It has a 1.5 kW motor power roller and a 5.5 kW hydraulic power pack for the pusher movement.

A stand alone depalleter is also available, as well as ridge and trim tile manufacturing equipment.

ABECE Area Manager Fredrik Tofte-mo explains that concrete is fed from a conveyor into the concrete hopper above the slipper and roller

unit. Aluminium pallets are placed manually on the support rails that guide the pallets through the extruder. A hydraulic cylinder pushes the pallets through the release oil spray system and the making head in order to shape the concrete tile.

Thereafter the automatic knife unit cuts and shapes the tile. This knife unit is kept clean by a water-spray system. The manufacturing process only requires three to five labourers, depending on the level of automation and the skills level of the staff.

“Combined with the fact that concrete roof tiles are such an eco-friendly product, the SPS712 extruder is the ideal machine for African conditions,” says PMSA Sales and Marketing Manager, Quintin Booyesen. ■