

WATERJET CUTTING SYSTEM (WCS)

WCS-B Basic with manual feeding and removal



WCS-A Advanced with automated feeding and removal



The WCS, a SOMMER patent pending new machining centre, enables

The WATERJET CUTTING SYSTEM (WCS) can be delivered in 3 different versions:



WCS-R Robot with automated feeding and subsequent processing with industrial robot





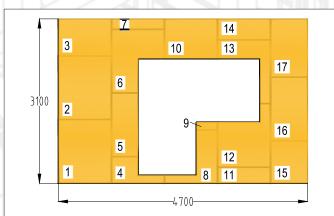


Cutting head with driver unit



Cut pattern assisted by CAD

Cutting operation



6 elements instead of 17

Technical description:

The material is assembled in order to form an endless panel and will be then supplied to the cutting unit.

The panel is referenced. The synchronized running driver units are pressed on the material and lead the panel through the cutting unit. This continuous process allows a minimum sectional area. The noise and emission range as well as the beam catcher are reduced to a minimum.

The maximum panel length is adapted to the customer requirements. The maximum panel thickness is designed from 2 mm up to 200 mm. The panel width from 10 mm - 1.250 mm

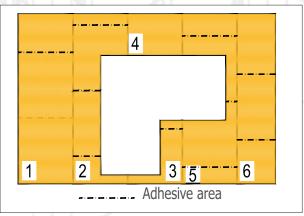
The system was developed for cutting insulation panels used in concrete sandwich elements. However, it is also ideally suited for cutting all other panel materials. The accuracy of the WCS-Processing unit is in the range of \pm 1 mm and depends on the material and cutting speed.

The cutting pressure and the selection of cutter between pure water and abrasive are adjusted or adapted according to the task.

Adjustable high-pressure pump technology with up to 6200 bar cutting pressure allows an almost unlimited variety of materials to be machined.



High-pressure pump 6200 bar



Reduction of cutting scrap and time required for laying

WCS-B

Basic with manual feeding and removal



Manual feed table



Feeding area with guides



Removal table with handover

WCS-A

Advanced with automated feeding and removal



Feed tower and handover to the automatic area



Automated adhesive application







Conveye



Reception and placing of insulation



Insert of wall connectors

WCS-R

Robot with automated feeding and subsequent processing with industrial robot

WCS – with 6-axis industrial robot All processes within the given cycle times

- | Reception of full panels
- | Reception of sectioned panels
- | Reception of wall connectors
- Insert of wall connectors
- | Operations alternately (Panel Connectors Panel)
- | Magazine for wall connectors on the X axis
- Changing magazine for wall connectors
- | Exchange of wall connectors magazine

The configuration is made according to customer requirements and it is modular.



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