

# cpp

CHEMICAL PRODUCTION PLANTS PROCESSES

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PERFECTLY EXECUTED

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NOTES FOR THE USE OF

SCREW VACUUM PUMPS



## Thin film dryer with short residence time



Picture: Buss-SMS-Canzler

In the thin film dryer from Buss-SMS-Canzler, liquid, pasty or solid material is continuously applied by a rotor to the cylindrical heating jacket in a thin layer and dried. Advantages are the low hold-up, the effective heat transfer and the indirect drying. Thus, even difficult drying tasks with problematical substances can be accomplished under vacuum. New applications are constantly being tested and implemented in industrial plants. An example is the production of the monomer

2-acrylamido-2-methylpropane-sulfonic acid (trade name AMPS). It is made from acrylonitrile, isobutene, fuming sulfuric acid and water. After the reaction, unreacted toxic, environmentally hazardous and caustic acrylonitrile is separated. The monomer is then a white powder. Thin film dryers from Buss-SMS-Canzler are available in horizontal and vertical versions.

[www.prozesstechnik-online.de](http://www.prozesstechnik-online.de)

Online search:

Buss-SMS-Canzler

## Space-saving articulated robot

Products for the chemical industry are filled in special bags, barrels, canisters, cartons or buckets. To palletise them, Beumer offers the space-saving articulated robot robotpac. Depending on the packaged items, the company equips the robot with the appropriate gripping tools which can be easily and automatically changed, if the packaged items change. The fork gripper, for example, was designed specifically for palletising cardboard boxes, the finger gripper for bagged goods. Beumer also has a double gripper in its product portfolio for both versions. The company also offers parallel grippers for dimensionally stable packed items, suction grippers for items with a smooth surface and many other special grippers and combination tools.

[www.cpp-net.com](http://www.cpp-net.com)

Online search: Beumer



Picture: Beumer

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