What if you could …

- automate the sawing process from order entry to pattern optimization to sawing all the way to stacking and packing

- thereby reduce clipping by up to 30% compared to traditional systems

… in one single solution
… for all of your saws **?**

Altanis pCUT

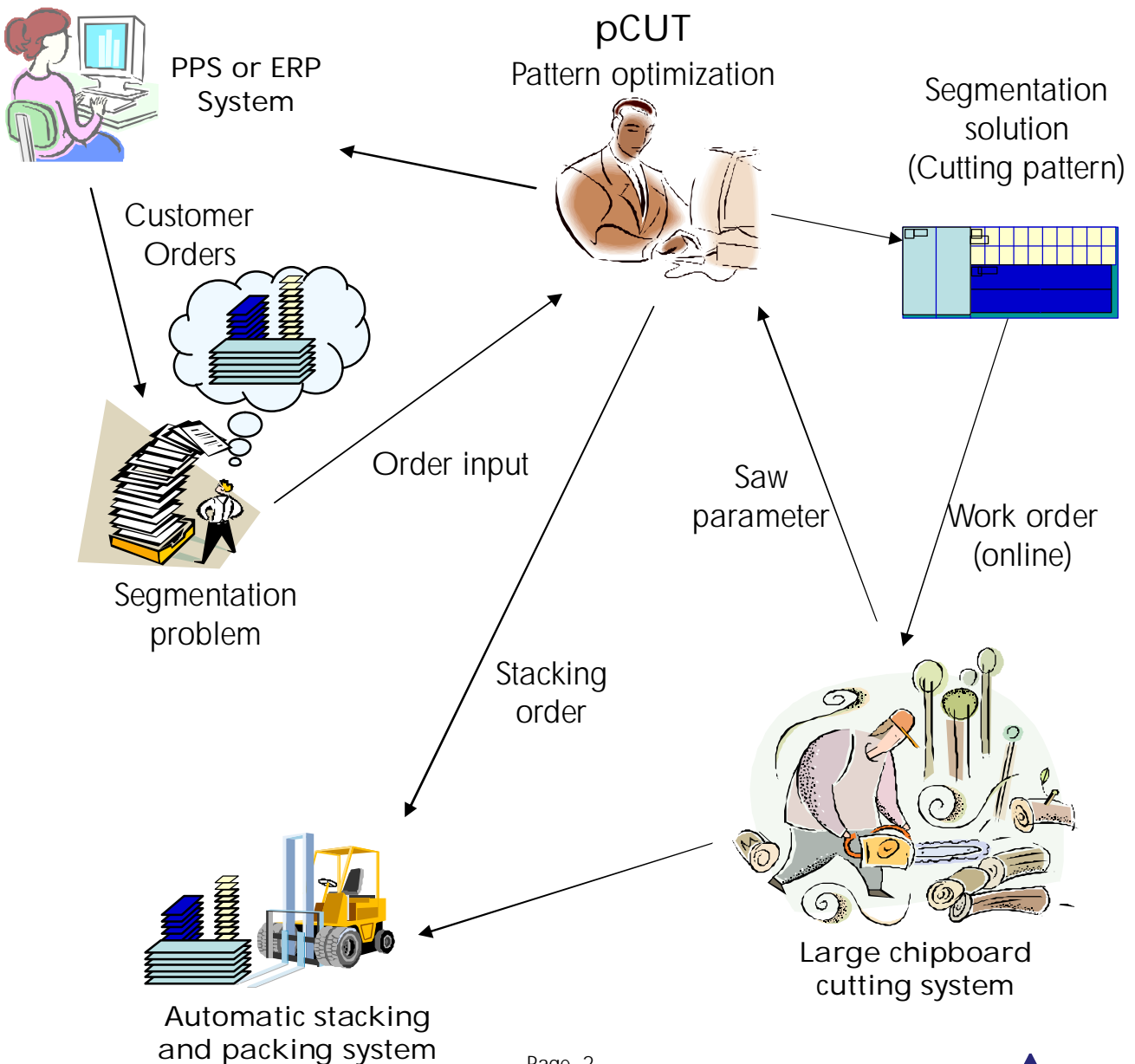is designed with the business requirements of large chip board and furniture manufacturers in mind.

European board manufacturers like Glunz, Homanit, Hornitex, Pfleiderer, Kronopol and Unilin as well as furniture manufacturers like Brigitte Küchen and Christian Kröger are already relying on pCUT for their optimization needs.

pCUT workflow

pCUT is the solution for large cutting systems in the chip board industry.   Focus is on the minimization of production cost by reducing clipping.

- Windows-based with intuitive graphic user interface
- Independent from saw manufacturers — with online connection to many different saw systems
- Interfaces directly with ERP (Enterprise Resource Planning) or PPS (production planning systems)

PPS or ERP
System

pCUT
Pattern optimization

Segmentation
solution
(Cutting pattern)

Customer
Orders

Order input

Saw
parameter

Work order
(online)

Segmentation
problem

Stacking
order

Automatic stacking
and packing system

Large chipboard
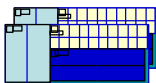cutting system

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pCUT in detail

Input

- Table-based input of optimization jobs
- Table-based input of saw parameters (e.g.: Number of saws, seams, dimensions, timing, cost, etc.)
- Import of optimization jobs from other data bases via ODBC or via SAP-APO
- Import of optimization jobs from various file formats
- Powerful editor - any plan can be drawn independent from the optimization

Optimization

- Optimized for large industrial systems
- Very fast optimization algorithm - specifically for complex and large orders
- Unlimited batch optimization of orders
- Concurrent use of multiple board sizes
- Presentation of up to 26 optimization solutions per order
- Optionally with head cuts
- Optionally with staged cuts
- Optimization considers restrictions like seams, stacking positions and clamping)
- Choice of aggregation of positions of the same size

Result

- Concise graphic representation with advanced editor
- Table-based representation of results - can be sorted by specific parameters for easy selection and editing (e.g. costs, sawing time, clipping, over delivery, number of plans, cycles, stacking matrix, average book height)
- Large number of printable reports (e.g. Overview protocols, Production protocol, Stacking bin matrix, Protection board list, etc.)

Export

- Cutting pattern can be exported directly via online connection to saws of different manufacturers (e.g. Siempelkamp, Giben, Holzma, Schelling, Anthon, Schwabedissen)
- Rule-based hierarchical packing and stacking data base

ALTANIS

ALTANIS

Westend 37
82377 Penzberg
Germany

Telephone: +49 (7000) ALTANIS
Fax: +49 (7000) ALTANIS
E-Mail: info@altanis.de
Internet: http://www.altanis.de