

LEUCO offers sawblades with different cutting kerfs. The possibility to reduce the cutting kerf makes it possible to waste less resources and lower costs

Profiles are licensed and give the panels the individual touch of the laminate flooring manufacturer

A sign of quality is absolutely constant profile accuracy. Would You like to be related to a perfect profile?

Then you should choose LEUCO tools for profiling.



The more accurate the runout of the tool is, the more equal is the wear of the tool tips. And the higher the runout the higher is the quality of the edge, the only visible edge fo vour customer

You should choose for quality with LEUCO.

hoods for the angles of $+90^{\circ}$ until -90° (01). The parts can be ordered easy separately. chipflow in the dusthoods will be customized to the individual profiling process step. This optimizes the chip extraction and leads to clean machines, avoids double chipping and tool wear.

DUST EXTRACTION / - HOODS

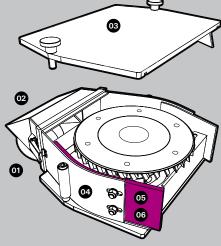
Interface to the machine

The dust hoods are modular designed for a simple mounting into the machine. The symmetrical construction makes it independent of the tool rotation (02).

All dusthoods have a cover, which can be opened Independent of the machine type and production easily (03). The tool can be changed without problems, guaranteeing the view on the tool during the exchange. Production stops will be limited.

> Even if the dusthoods are designed lightweight, LEUCO dust hoods are more resistant than others in the market. LEUCO builds the dusthoods with wearless aluminium parts (04). For the wear parts LEUCO uses an 8 mm thick steel (05). Other Wear parts of 8 mm thick steel common wear parts in the market are currently

Clamping systems are the classical interface to The dusthood kit-system consists of three basic dust of 5 mm strong material. Customer specified wear



Tool administration **COLOUR CODING SYSTEM**

The philosophy of a colour coding system is the function in the working process. Yellow is the visualization of the tool from the tool rack to the colour for the pre-cutting tools for example, motor spindle to simplify the tool handling in the green is for the profiling, blue for the finishing manufacturing process. The colour coding and red is for the clickprofiling tools. The letters simplifies the internal communication at the explain if the tools are for length or cross cutting laminate floor manufacturer site and between the and for left or right side of the machine. If laminate floor manufacturer and LEUCO. In detail

Each tool gets a Tool Card with a determined profile or feed rate. colour, letter and other information. Then the tool tools/Ident numbers, which have the same coding the manufacturing process of the code has proved its value in practice.

Tool administratio **KANBAN-SYSTEM**

kanban-rack will be installed. In the rack the extremely simplified. This system can be applied tools will be placed the same way as described without any tooling or production know-how if in the colour coding system. As a result the necessary. New staff employed by the administration of the tools will become easier, laminate flooring manufacturer can easily find orders for new tools, service of tools and stock its feet.

of tools. On the motor spindles signs with the corresponding colours and letters will be placed.

Together with the colour coding normally a The classification of rack, tool and motor will be

Tool administration

LEUCO

05

TOOL ADMINISTRATION SOFTWARE LEUCO LEASY

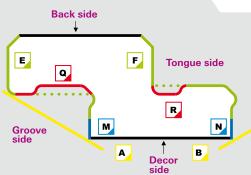
LEUCO Leasy is a single software for administration, lives of each tools, can print tool cards automatically purchasing and production planning. The determined and supports the production planning. The operation colour code is like at the kanban-rack the basic for of this software is simple and almost intuitive. the software. It shows all processes, which a tool The colour coding and the kanban-rack achieve can make at the laminate flooring manufacturer's profits in the production. With the stock site from stock, through machine and into service. administration software "LEUCO Leasy" LEUCO Leasy offers transparency of the tools at again is a pioneer concering tool administration. any time. It is possible to get analyses from edge-

The interfaces are the optimal conditions for the laminate flooring manufacturing: The clamping parts between tool and machine, dust extraction in the machine. The package of all interfaces of single highlights becomes the perfect process.

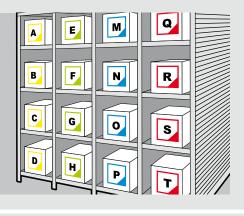
Take LEUCO into consideration throughout your whole process.

"THERE ARE SUBTLETIES WHICH BECOME IMPORTANT IN FORMULA 1. CERTAIN DETAILS MAKE THE DIFFERENCE AND REVEAL THE ESSENTIALS."

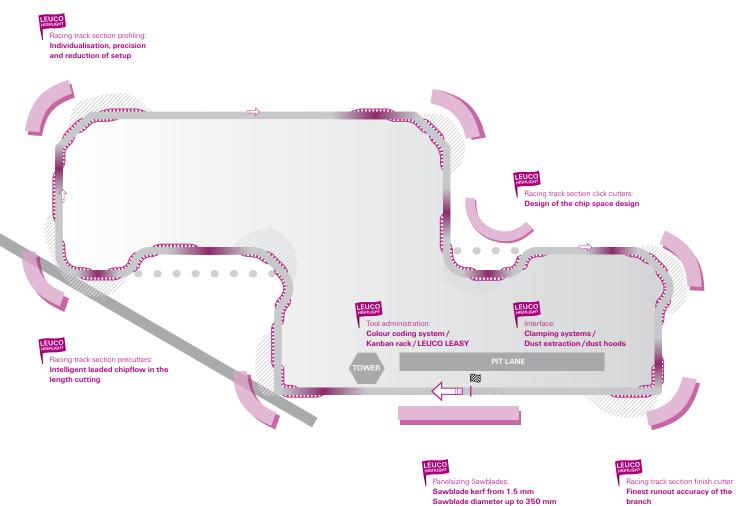
necessary the letters can be completed with side additional informations e.g. panel thickness,



customer will be analyzed. Production, stock and is clearly related to the production process and can The principle of the tool colour coding is the service will be taken into consideration. Therebe identified. The colour stands for a group of same for all customers. For the final colour fore each colour code is individual. The colour







Panelsizing Hogger: Chip space design



With the best setup and tuning to pole position

The volume and aggressiveness of the chips have a big influence on the click-profile cutter and circularity-adjustable finishing cutters. manufacturing of laminate flooring. The use of the LEUCO Crew guarantees the customer a clean manufacturing and avoids unnecessary double- Each racing team is individual chipping. This guarantees longer edge lives and decreases machine wear We do not offer a standard scheme for the manufacturing of laminate flooring. while having an improved product quality. The optimised chipflow enables Together with you we define the track according to your requirements. Each maximum feed rates in production.

Formula 1 needs innovation

The formula 1 is surrounded by the magic of "the Newest, the Fastest and the Best". LEUCO faces this challenge. As a result of the dialog with the LEUCO is one of the leading tool manufacturers worldwide. You can benefit customer LEUCO develops regularly state-of-the-art and licensed tool- from this international race experience: We guarantee you tools adapted to the and procedure innovations. As the first one LEUCO was able to face the latest technology standards including their service and application engineering production requirements with guidance. LEUCO was the first to use the no matter where you are producing. well functioning colour coding system and the tool administration software. LEUCO is one of the few suppliers able to fulfill all requirements, with When will you start to overtake?

COMPETENCE THROUGHOUT THE COMPLETE MANUFACTURING PROCESS

CONSULTING, ENGINEERING, PRODUCTION, ADMINISTRATION,

Flooring tools are the "Formula 1" in the woodworking industry. Choose the best resources and decide yourself for the best crew in your team.

You will win the Grand Prix with LEUCO.







a portfolio from thin-kerf saw blades for the dividing of the middle layer up to

step of the process will be analysed and valuated before the development and determination of the tools starts. We follow consequently your demands shared with our tooling- and process know-how.

Ledermann GmbH & Co. KG Willi-Ledermann-Straße 1 D-72160 Horb am Neckar

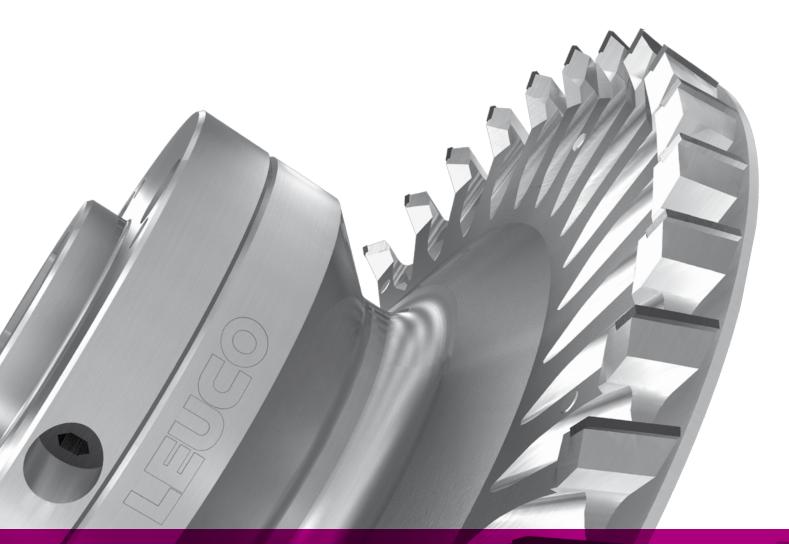
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PRODUCTION OF LAMINATE FLOORING



"WE ONLY CAN BE **SUCCESSFUL IF WE** MAKE OUR CUSTOMERS SUCCESSFUL.

AND WE WANT TO BE SUCCESSFUL."

The Crew

extraction hoods.

COMPETENCE THROUGHOUT THE **COMPLETE MANUFACTURING** PROCESS

CONSULTING, ENGINEERING, PRODUCTION, ADMINISTRATION, SERVICE

www.leuco.com

Flooring = High performance and precision

Tools for manufacturing of flooring can be compared to the "formula 1" of the woodworking industry. No other branch achieves higher feedrates and edge lives considering such high quality standards for the finished product.

Experts dominate the race track and the conditions. It is aware of the crucial points within the process. The laminate flooring manufacturing process offers the chance to take pole position.

The tool specialist is next to the machine manufacturer the most important partner for the laminate flooring industry. LEUCO knows the requirements and the settings. The development and application engineer crew defines cutting materials, optimized chipflow design and tooth geometry. It determines rotation speed, tool weight, runout, concentricity, as well as edge and profile quality. It discusses individual customer demands and offers connecting points to the machine e.g. clamping systems and

