Renewable raw materials in the automobile as trendsetting technology

Wood-based materials in the car manufacturing do obviously pose this interesting question:

Where wood is still or again used in a modern automobile?

The answer: Apart from design elements in the interior – as at the instruments, at steering-wheels and on the door panels – wood is used again where it makes functionally sense as a replacement for plastics or metals, e.g. the loading floor in the trunk!

The advantage for all of us: wood is a renewable material, and so it contributes itself effectively to the natural climate adjustment during its growth phase. Since all wood materials come completely from the permanent thinning of our forests, natural resources are not damaged. During the whole production process the material covers a maximum distance of 600 km only: From logging to manufacturing in Oberlungwitz, up to the final assembly on the production line of the automobile manufacturer.

Finally, after a long car lifecycle, a loading floor, produced in this way, can easily be thermal disposed, thereby closing the recycling process again.

siemens.com/wood
Manufacture of milled parts of all kinds of wood-based material on the ultra-modern machining center ECO 2830-C

From the blank to a loading floor ready-to-install

Per day, up to 800 parts are produced at the manufacturing site Oberlungwitz. Thereby, the vertical integration of manufacturing ranges from just cutting and milling the raw plate of wood-based material, up to the ready-to-install loading floor, assembled including fabric cover, hinges and handle elements. The directly following inhouse quality control, packaging and dispatch ensure a smooth delivery and further processing at the car manufacturer. Loading floors made of wood-based material are furthermore inexpensive, flexible in development and cause only low tool costs.

Reliable technology in a wood dust environment

Despite of powerful and modern exhausters, machine components in the wood-processing industry such as machine control panels, operator panels, or Industrial PCs, are always exposed to high wood dust and shavings. Therefore, Siemens supplies robust and reliable products with a high degree of protection for rough environments.

Siemens control technology for highest demands

The new NC-control system SINUMERIK 840D sl from Siemens copes optimally with the processing of design-oriented parts – which are used particularly in the automobile industry: Free form processing with 3- and 5-axis-technology with highest precision and dynamics contributes significantly to a stable quality at maximum utilization.

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