Oikos XS450 – Concept

SCM machining centre with a high degree of configurability, designed and built to machine small to medium-sized straight timber elements used in the timber construction industry. The Oikos XS450 makes speed of execution its main feature.



Oikos XS450 – Applications

PREFABRICATED WALLS –TIMBER FRAME

These are elements characterised by cutting, drilling and milling operations that are subsequently connected together by means of hardware elements and/or natural joints to form timber structures. Examples are timber-frame prefabricated walls.







Oikos XS450 – Applications

ROOFS

These are the most complex elements for this type of machine. Notches for hardware and dovetail joints can be added to the previous processes. These elements are then joined together using screws and/or joints to form wooden structures (e.g. roof portions).







Oikos XS450 – Applications

BLOCKHAUS

These elements are characterised overall by milling operations both in the middle and at the ends, which are then stacked on top of each other and finger-jointed at the corners to form the walls of wooden buildings.



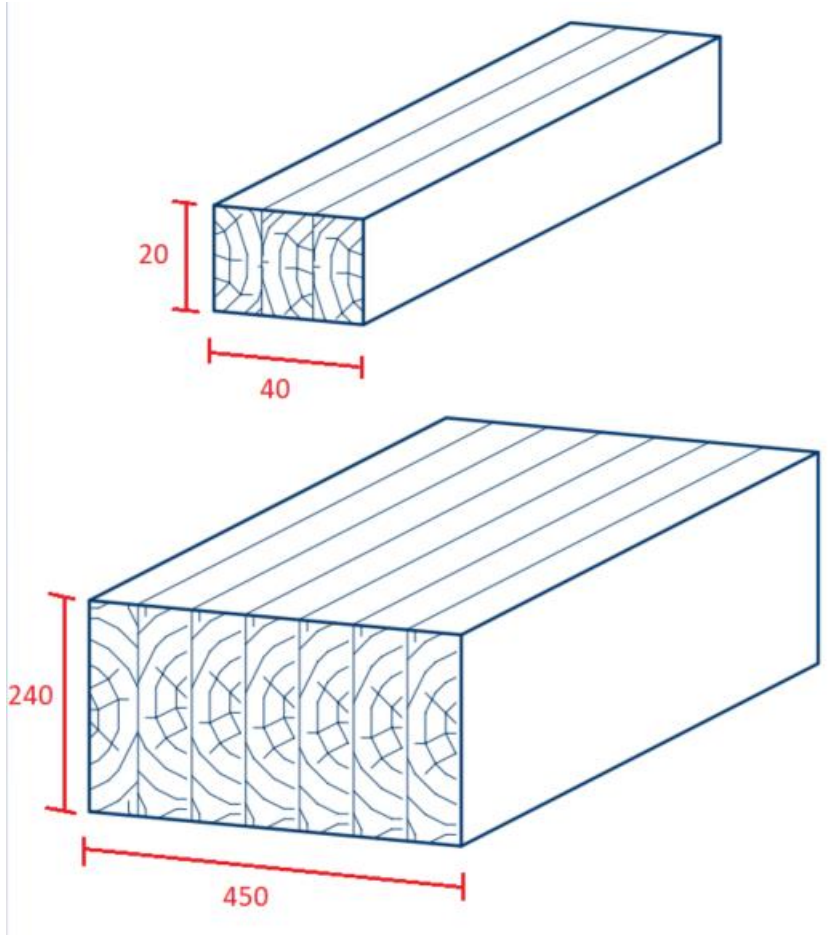




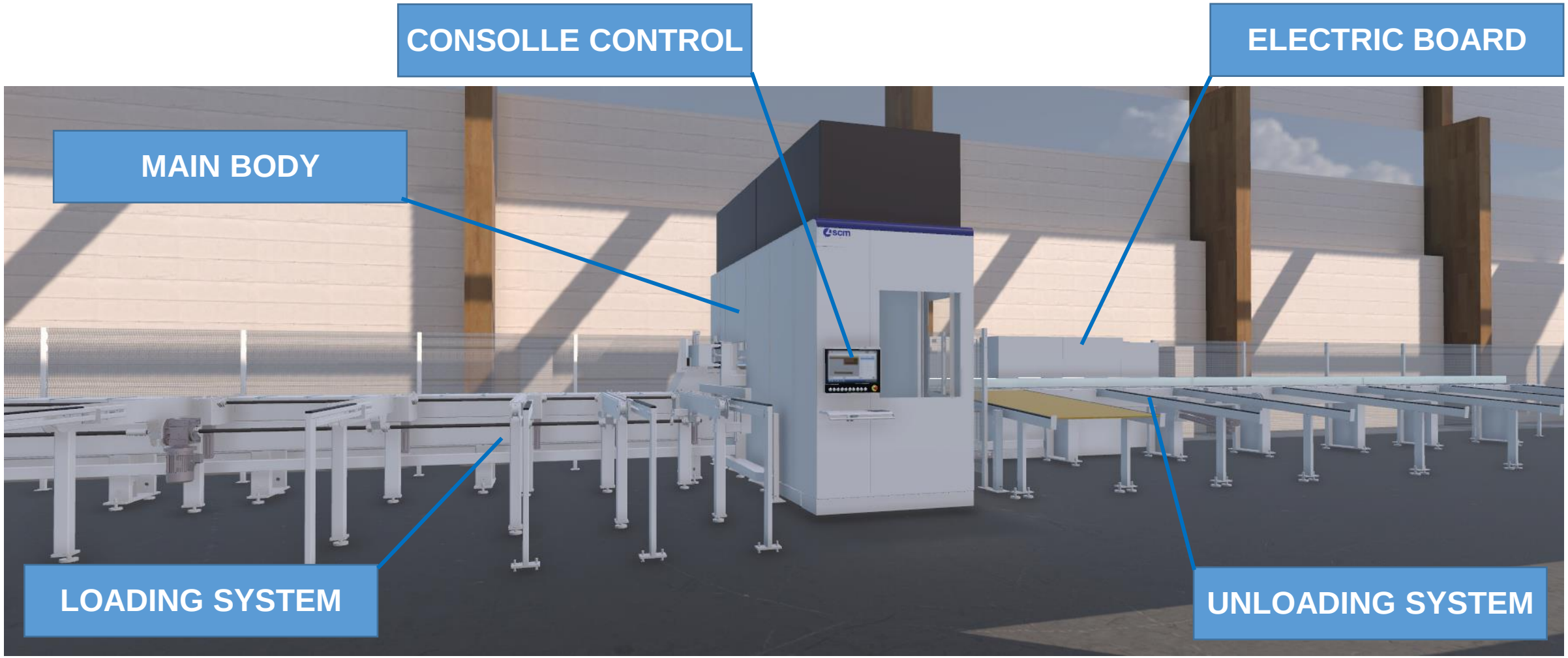
scm
woodworking technology

Oikos XS450 – Technical data about workpieces to be machined

CHARACTERISTICS OF THE ROWPIECES	
Min.Width	40 mm
Max.width	450 mm
Min.thickness	20 mm
Max.thickness	240 mm
Min.length	1200 mm
Max.length	6000/10000/13500/16000 mm
Max.length	800 kg



Oikos XS450 – Main parts of the machine



Oikos XS450 – Working flow

In its standard version, the machining centre provides a workpiece flow with loading on the left and unloading on the right, as shown in the figure. Beams can be loaded onto the loading buffer or removed from the unloading buffer either manually by the operator or with the aid of an overhead crane or forklift in the case of heavier elements.

