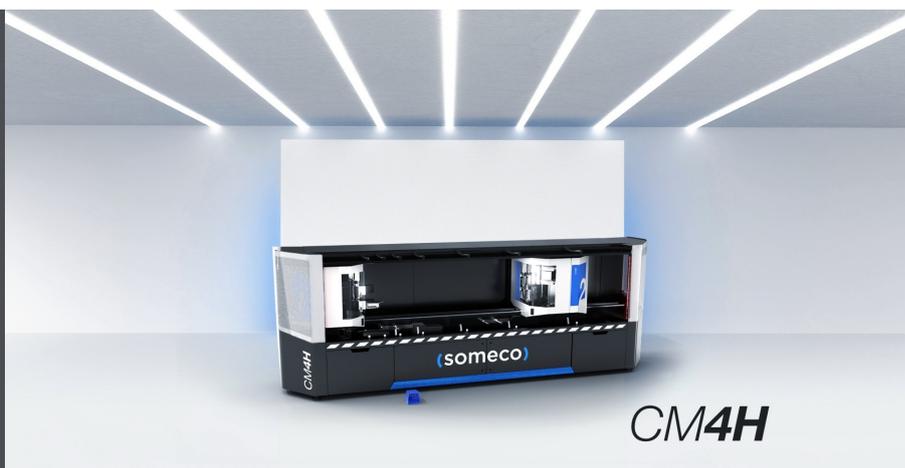# CM 4H

Complementary machines

Milling machine specifically designed for contouring PVC profiles that have been pre-cut at 45°. Integrated into the window production process alongside Someco SM series machines equipped with Seamless technology counterblocks, it prepares the profiles for the subsequent zero-seam welding phase. The CM 4H features two operating units: one fixed on the left and one mobile on the right. Each unit has three independent axes and controls three electro-spindles, one for the trimming blade and two for cutters of the same diameter. The machine can simultaneously process the four faces of two bars, ensuring a productivity level balanced with a 4-head welding machine. Programming can be done directly from the machine's console or by importing and executing predefined machining lists optimized by the office.

CM 4H / COMPLEMENTARY MACHINES

AXIS TRAVEL

X AXIS (mm)	3.200
Y1 - Y2 AXES (mm)	231
Z1 - Z2 AXES (mm)	393
W1 - W2 AXES (mm)	46
Axes precision (mm)	± 0,1

POSITIONING SPEED

X AXIS (m/min)	60
Y AXIS (m/min)	50
Z AXIS (m/min)	25

AXIS ACCELERATION

X AXIS (m/s²)	8
Y AXIS (m/s²)	8
Z AXIS (m/s²)	8
W AXIS (m/s²)	8

DIMENSION AND WEIGHT

Overall dim. (width x length x height) (mm)	5.230 x 1.090 x 1.860
Weight (kg)	1.600

WORK AREA

Profile height (mm)	35 ÷ 110
Profile width (mm)	40 ÷ 130
Profile length (mm)	365 ÷ 3.500

END-MILLING AND MILLING UNIT

Number of electrospindles	3 + 3
Blade units	1 + 1
Blade diameter (mm)	Ø 200
Electrosplindle power in S1 for blade (kW)	1
Blade rpm max. (rpm)	18.000
Milling unit	2 + 2
Mill diameter max. (mm)	Ø 12
Electrosplindle power in S1 for mill (kW)	2
Mill rpm max. (rpm)	24.000
Tool kit for machining of aluminium PVC hybrid profile and/or PVC profiles with fiber-glass reinforcement	●

MACHINE SPECIFICATIONS

Seamless profile preparation	●
Swarfs and chips tray	●
Profile counterblocks	○
Operating pressure (bar)	6 - 7

COMMAND AND CONTROL UNIT

Embedded PC	Beckhoff
Communication protocol	EtherCAT
HMI	TS Display HD TFT 23,8'' - "optical bonding"

SOFTWARE

Microsoft® Windows® IoT Enterprise	●
ContourCAM	●

Included ●   Available ○

The right to make technical alterations is reserved.