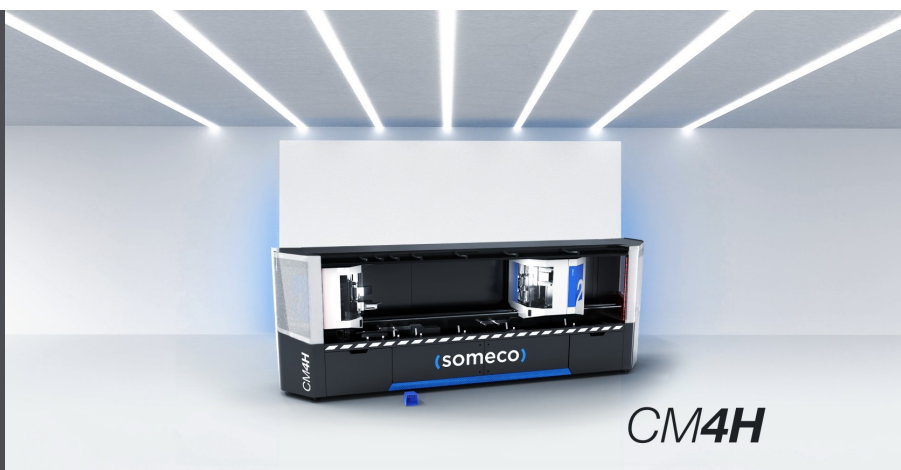




## CM 4H

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/s <sup>2</sup> ) | 8 |
| Y AXIS (m/s <sup>2</sup> ) | 8 |
| Z AXIS (m/s <sup>2</sup> ) | 8 |
| W AXIS (m/s <sup>2</sup> ) | 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 electrosplindles  | 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" -<br>"optical bonding" |

**SOFTWARE**

|                                    |   |
|------------------------------------|---|
| Microsoft® Windows® IoT Enterprise | ● |
| ContourCAM                         | ● |

Included ● Available ○