

TAPE CASTING MACHINE CAM – M1



- Suitable for green ceramic thicknesses from 5 to 150 microns (0.2 to 6 mils)
- Suitable for solvent based and water based systems
- Automatic tracking of carrier foil
- Compact size requiring minimum floor space
- High accuracy in thickness control and stability
- Slotted die slurry feeding to doctor blade
- Optional Advanced slurry dosage with micrometer level control
- Optional Stepper motor controlled high accuracy doctor blade

For high accuracy (ceramic) tape casting on carrier films

The **CAM-M1 tape caster** is designed and built to meet the most stringent customer demands. A need for higher automation levels and higher accuracy's led to this truly innovative caster. The automated continuous slurry dosage can be performed through a slotted die system that allows a +/-10 micrometer slurry level height. The **CAM-M1** presents our new innovative generation of casters that feature fully automatic casting gap control, with auto zero calibration. On a touch screen you can monitor the process continuously. Using preset menus you can quickly start up a new casting

run under the exactly correct conditions, while easy adjustments are continuously possible. An auto tracking system assures a perfectly wound carrier and ceramic tape. The system has numerous safety features that allow safe operation when utilizing flammable solvents. The counter flow filtered hot air dryer can be compartmentalized to fine-tune the exact conditions needed for high productivity of perfect tapes. If your tape systems require additional modification of the casting equipment, we will test your system with you and modify the machine to meet all its requirements.

Tape casting machine

CAM-M1

Typical specifications¹



Casting Speed:	0.1 – 6 m/min (0.3 - 20 ft./min) - Adjustable
Carrier Film Width:	Max 250 mm (10") or 350 mm (14")
Ceramic Tape Width:	Max 200 mm (8") or 270 mm (11")
Dry tape Thickness:	5 – 150 µm (0.2 – 6 mils)
Thickness Accuracy:	± 1µm (0.04 mils)
Drying:	2-5 individually adjusted heating elements/zones
Air Flow:	Regulated filtered air, 6 m ³ /min (212 CFM) max.
Suspension Feeding:	Air or nitrogen pressure with automatic level control
Suspension Vessel:	25 liters stainless steel (6.6 Gallons)
Carrier Film controls:	Speed is controlled by a servo motor, tension is controlled by a magnetic clutch, tracking system for tape reeling
Construction:	Stainless Steel Frame and enclosure
Safety:	CE compliant
Dimensions:	Length: 3450 mm (136 inches)
	Width: 1075 mm (42 inches)
	Height: 1650 mm (65 inches)
	Weight: 800 Kg. (1760 lbs.) approx.

¹ Because all our equipment is customized for specific requirements, specifications given are subject to change

Options:

- data link to PC for automatic storage of run report and run parameters
- automatic doctor blade setting by stepper motors
- high accuracy slurry leveling before doctor blade
- easy to use touch screen operator interface with full process parameter overview
- modular elongation of drying zone to 15 m
- additional exhausts and partial recirculation of air slurry filtering unit
- slurry filtering unit

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KEKO EQUIPMENT

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