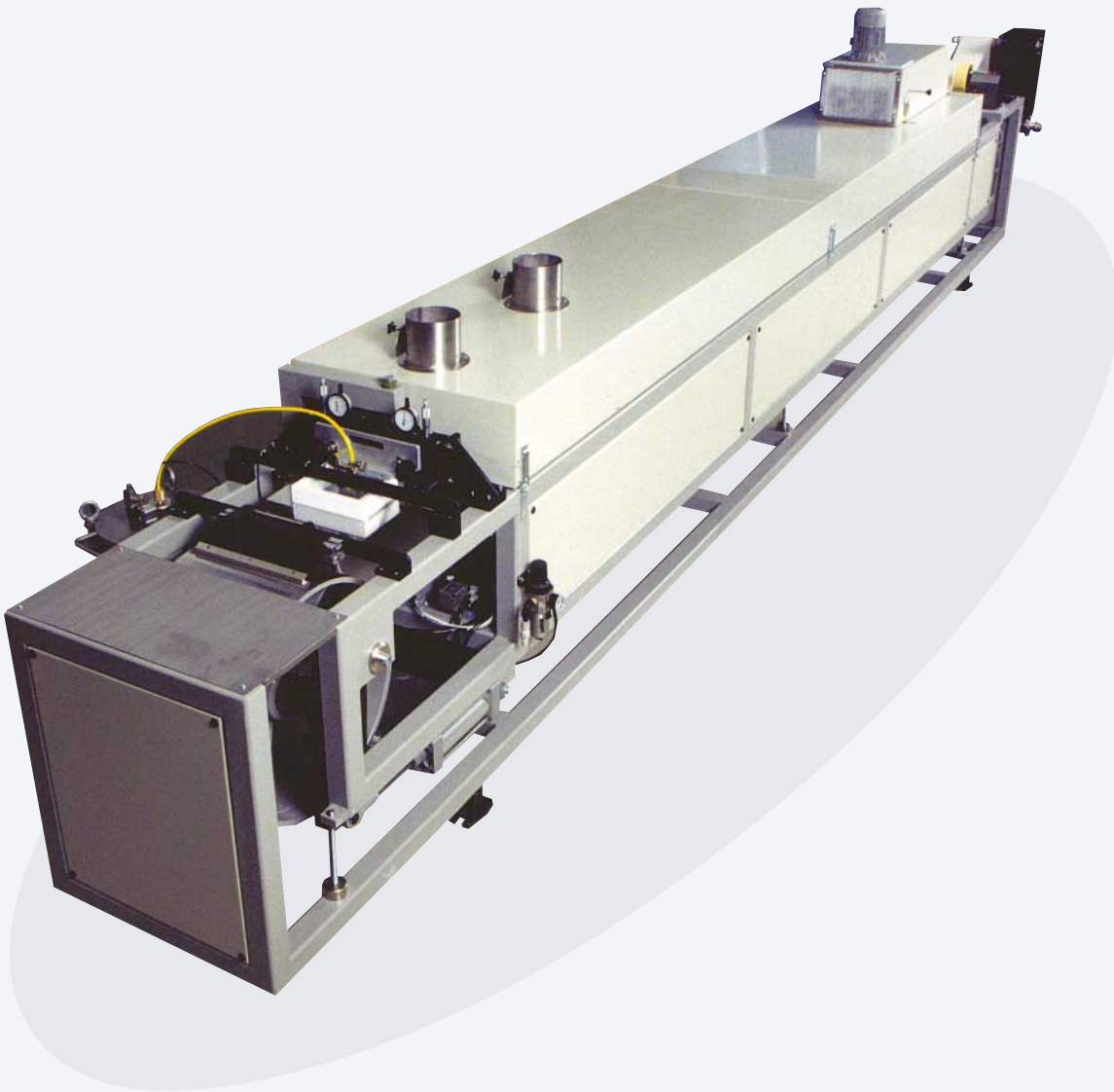


SEMI-AUTOMATIC STEEL BELT TAPE CASTER CAM-22



- Suitable for green ceramic thicknesses from 0.6 to 3.5 mil (15 – 90 microns)
- Stabilized high airflow compartments in dryer improve drying speed
- 1.5 times higher casting speed as other casters with same length dryers
- Suitable for solvent-based systems
- Closed loop slurry supply and level control
- No-contact thickness gauge for improved quality control (optional)
- Automatically feeds slurry to casting head

Accuracy, stability and higher casting speeds

Features such as the fully stabilized steel belt in combination with automatic feeding of suspensions and winding of tape provide a competitive edge to CAM 22 owners.

The machine is based on a continuous endless steel belt and a doctor blade casting unit. Special attention is paid to the control of belt speed, tension and tracking. Active control of casting and drying parameters are used to establish stable conditions that also ensure long belt life.

Pressurized air or inert gas propels the suspension flow into the doctor blade casting head. The casting head sits on the belt.

Width of the tape is adjusted and controlled by Teflon edge limiters, which slide on the belt. Thickness of the resulting green tape is easily and precisely set with micrometer screws

that accurately determine the gap between blade and belt.

The tape is dried in a tunnel oven with filtered hot air in counter flow. In keeping with safety requirements when using flammable solvents, the air is heated outside of the oven. The drying regime is controlled by the flow of air over the surface of the tape. Special curtains allow belt speed to be increased in many cases by a factor of 1.5 compared to regular dryers, without damage to the tape quality. Optionally additional heaters from bottom side of casting belt can be installed. A razor blade helps release the tape from the belt. Foil take-up is achieved by winding on a roll.

An interleaf can be used to avoid any sticking of the tape to itself.

Semi-Automatic Steel Belt Tape Caster CAM-22

Typical specifications¹



Casting speed:	max. 5 m/min. or 16 ft/min., continuously adjustable
Width of steel belt:	300 mm or 11.8 inches
Width of ceramic tape:	max. 220 mm or 8.7 inches
Thickness of dry tape:	15 – 90 microns or 0.6 – 3.5 mils
Accuracy of thickness:	± 2 microns or 0.08 mils (in length and width)
Drying temperature:	max. 80°C
Safety:	equipment complies with US or CE safety regulations
Dimensions:	
Length:	6,800 mm or 267 inches
Width:	740 mm or 29 inches without pressure vessel 1,120 mm or 44 inches with pressure vessel
Height:	1,400 mm or 55 inches
Weight:	approx. 800 kg or 1,760 lbs.

Options

- Bottom side heated casting belt
- Dry tape thickness measurement gauge
- Manual belt take-up unit
- Closed loop slurry supply and level control
- Electronic sub micrometer casting gap control with piezo elements
- Tape length counter

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

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