

# **WOOD & NATURAL FIBER PLASTIC COMPOSITE EXTRUSION SYSTEMS**



**CINCINNATI  
MILACRON**

*Extrusion Systems*



Cincinnati Milacron's complete range of conical and parallel counter-rotating, along with co-rotating twin screw extruders, are ideal for producing profiles with solid board dimensions or highly engineered hollow profiles:

- High torque capability for gentle plastification & high rates @ slow rpms
- Optimal melt condition based on treatment of raw material
- A complete range of extrusion technology solutions to meet all wood & natural fiber plastic composite process requirements
- Narrow residence time distribution
- Excellent conveying & devolatilization characteristics
- Ideal for processing heat & shear sensitive materials
- Excellent dispersive characteristics for high quality color systems
- Excellent pumping characteristics (positive displacement)
- High head pressure capabilities
- Excellent for introduction of heat-reacted blowing agents for foamed extruded products



**THE CONICAL ADVANTAGE:**

- Massive conical screws' natural compression provides effective wetting out of a large amount of fiber in a small amount of plastic
- High surface area in feed zone of the barrel/screws for more effective heat transmission

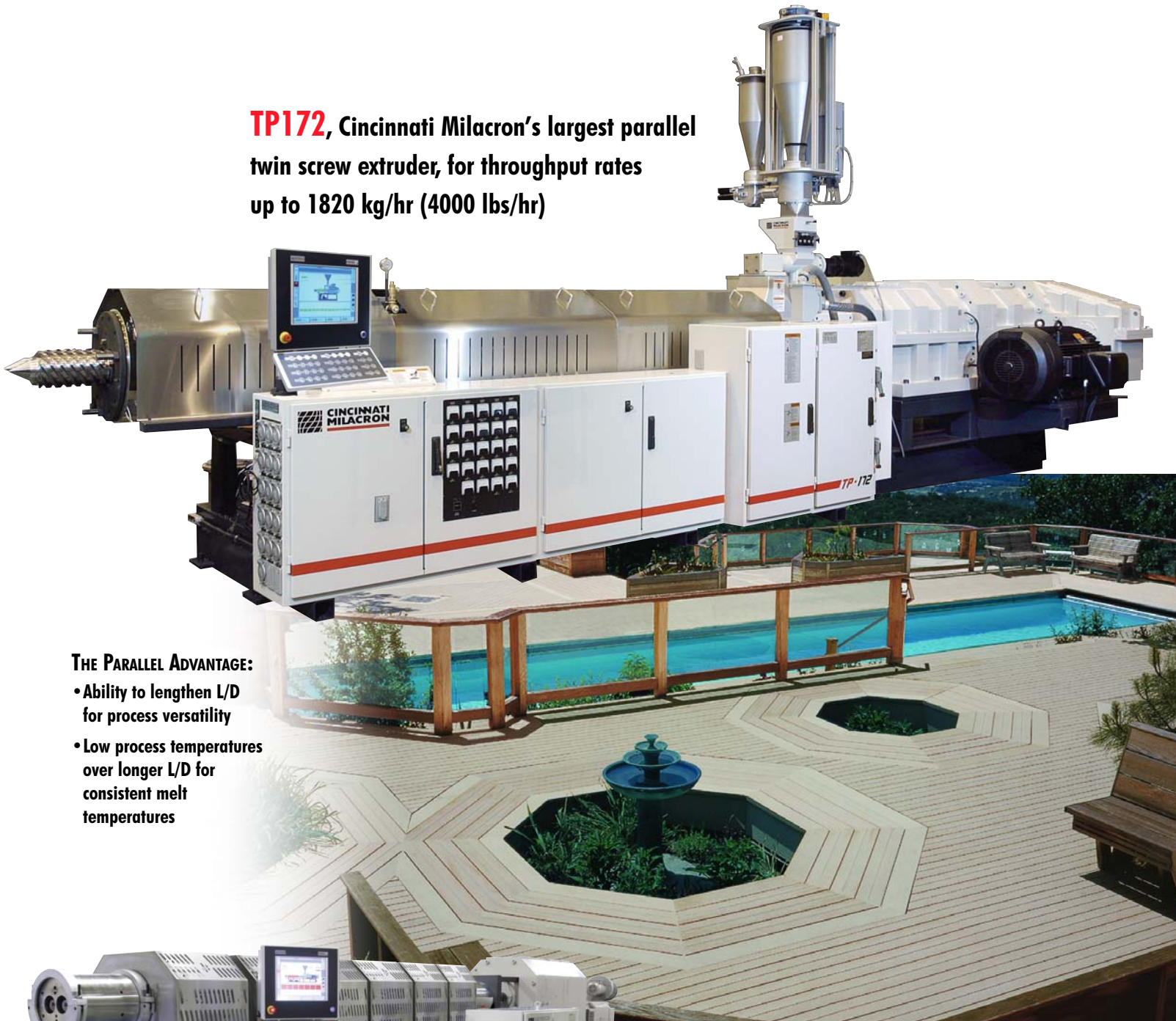
**TC96**, the world's largest conical twin screw extruder, for throughput rates up to 1180 kg/hr (2600+ lbs/hr)



All specifications reflect average values based on typical machine layouts. Rates are subject to shape of the profile to be extruded and formulation, including plastic raw material (PE, PP, PVC, etc.), particle size of the plastic raw material (powder, flake, pellet, regrind), percentage of either plastic raw material and/or wood natural fiber, particle size of fiber and moisture content of fiber. Actual figures will vary depending on final machine configuration. If you require more specific data, consult a Certified Installation Print for your particular machine. Performance specifications are based on theoretical data. Due to continual improvements, specifications are subject to change without notice.

Safety equipment may have been removed or opened to clearly illustrate the product and must be in place prior to operation. CINCINNATI MILACRON, MOSAIC and the Globe Graphic are trademarks of Milacron Inc.

**TP172**, Cincinnati Milacron's largest parallel twin screw extruder, for throughput rates up to 1820 kg/hr (4000 lbs/hr)



**THE PARALLEL ADVANTAGE:**

- Ability to lengthen L/D for process versatility
- Low process temperatures over longer L/D for consistent melt temperatures

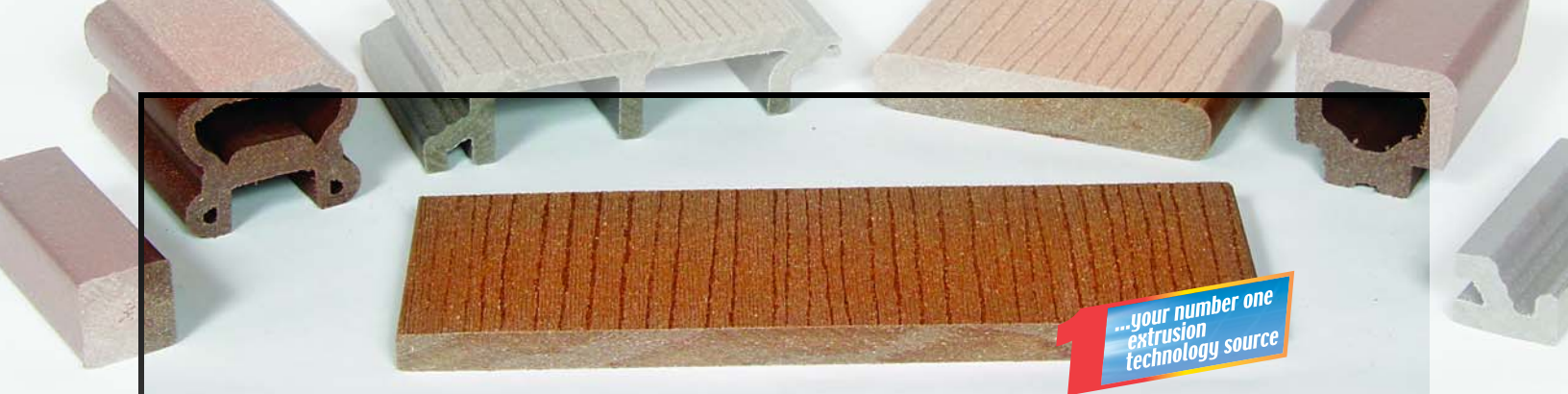


**TE125**, co-rotating twin screw extruder, for application versatility and throughput rates up to 1820 kg/hr (4000 lbs/hr), or up to 3635 kg/hr (8000 lbs/hr) with the TE160

**JUST TRY TO FIND A WOOD & NATURAL FIBER PLASTIC COMPOSITE EXTRUSION SYSTEM AS POWERFUL AS A CINCINNATI MILACRON.**







## THE WORLD LEADER IN WOOD & NATURAL FIBER PLASTIC COMPOSITES: CINCINNATI MILACRON

- Over 300 machines installed worldwide for WPC
- Conical & parallel counter-rotating & co-rotating twin screw extruders; single screw extruders
- TC96, the largest conical twin screw extruder in the world with throughput rates up to 1182 kg/hr (2600+ lbs/hr)
- Only global company capable of supplying a totally tungsten-clad conical barrel for increased life due to patented cladding technology
- 24/7 parts availability
- Single unit extruder or complete line systems available
- Fast, intuitive Milacron Mosaic Control
- World's technology leader in screw design for maximum output rates
- New, rebuilt and replacement screws and barrels
- In-house labs for evaluating customer formulations
- Complete aftermarket parts and services



### T H R O U G H P U T   R A T E S

SCREW TYPE	MODEL	kg/hr	lbs/hr
Conical	TC55	to 160	to 350
Conical	TC65	to 230	to 500
Parallel	TP93x33	to 409	to 900
Conical	TC80	to 455	to 1000
Co-Rotating	TE80x33	to 450	to 1000
Conical	TC86	to 727	to 1600
Parallel	TP115x33	to 727	to 1600
Conical	TC92	to 773	to 1700
Co-Rotating	TE100x33	to 910	to 2000
Conical	TC96	to 1182	to 2600
Parallel	TP140x33	to 1227	to 2700
Co-Rotating	TE125x33	to 1820	to 4000
Parallel	TP172x33	to 1820	to 4000
Co-Rotating	TE160x33	to 3635	to 8000



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**T E C H N O L O G Y   &   S E R V I C E   F I R S T !**

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