

TC

TWIN CONICAL SCREW EXTRUDERS

Screw Size: 35 - 92

- Automotive
- Construction
- Consumer
- Medical
- Recycling
- Wire / Cable

MILACRON

TC-80

Quality Build for Reliable,
Long Term Operation!

 MILACRON®

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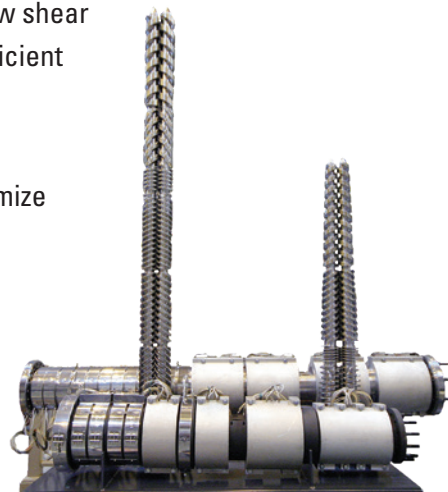
TC

Milacron's TC Series of Twin Conical Screw extruders combines space-saving compact design with the long proven advantages of Milacron technology for all your extrusion applications including PVC pipe, foam PVC sheet, fence, vinyl profiles, wood and natural fiber plastic composites, vinyl siding, and pelletizing. Our conical twin screw extruders cover application requirements for a range of throughputs.

Milacron both designs and builds full extrusion systems in house, maintaining complete control of your precise equipment needs. From extruders, to new and rebuilt extrusion barrels and screws, to pipe heads, dies and downstream equipment, you get powerful, reliable solutions that meet your unique needs. Milacron's Center of Research & Engineering (CORE) has made a science of optimizing polymer processing. This creates a highly customizable approach for our customers: one that increases productivity, output and accuracy, while reducing costs.

TECHNOLOGY FOR SUCCESS

- Flexible designs that optimize the processing window
- Balanced designs to extend screw and barrel life
- High surface area, low shear screw designs for efficient heat transfer
- Proprietary coating technologies to maximize screw and barrel life



	TC35		TC50		TC55		TC65		TC80		TC80/84		TC86		TC92		
	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	
Barrel & Screw Specifications	Number of Screws:	2		2		2		2		2		2		2		2	
	Screw Diameter (in/mm):	1.38/2.95	35/75	2.16/4.29	55/109	2.16/4.49	55/114	2.56/5.20	65/132	3.14/6.13	80/156	3.31/6.13	84/156	3.38/6.90	86/176	3.67/7.24	92/184
	Length to Front Diameter Ratio:	23D	23D	22D	22D	22D	22D	22D	22D	23D	23D	22D	22D	27D	27D	27D	27D
	Direction of Rotation:	Counter-Rotating		Counter-Rotating		Counter-Rotating		Counter-Rotating		Counter-Rotating		Counter-Rotating		Counter-Rotating		Counter-Rotating	
	Number of Heat/Cool Zones:	3	3	4	4	4	4	4	4	4	4	4	4	4	4	5	5
	Barrel Cooling:	HTF or Air		HTF, Water, Air		HTF, Water, Air		HTF, Water, Air		HTF, Water, Air		HTF, Water, Air		HTF, Water, Air		HTF, Water, Air	
Electrical Specifications	Die and Tooling Voltage:	230/3/60	230/3/60	230/3/60	230/3/60	230/3/60	230/3/60	730/3/60	230/3/60	230/3/60	230/3/60	230/3/60	230/3/60	230/3/60	230/3/60	230/3/60	230/3/60
	Main Motor Power (HP/kW):	12.7	9	25	18.6	40	30	50	37	75	56	75	56	125	93	150 or 200	112.5 or 150
	Main Drive Motor (460V/3 Phase/60Hz) Amps:	30	30	42	42	64	64	74	74	113	113	113	113	256(2)(3)	256(2)(3)	202/262	202/262
Drive Train / Utilities	Die Zones (230V/3 Phase/60Hz) Amps:	75	75	128	128	128	178	174	174	233	233	733	233	108(3)	108(3)	188(3)(4)	188(3)(4)
	Base Screw Speed (rpm):	10 to 50	10 to 50	7 to 30	7 to 30	7 to 42	7 to 42	7 to 35	7 to 35	7 to 33	7 to 33	7 to 33	7 to 33	7 to 33	7 to 33	7 to 34	7 to 34
Machine Dimensions	Main Power Drop:	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60
	Total Length without Entry Adapter (in) (mm):	98.4	2,500	113.4	2,880	113.4	2,880	123.2	3,130	189	4,800	189	4,800	196	5,000	236	6,000
	Width (in) (mm):	37.8	960	55.5	1,410	55.5	1,410	55.5	1,410	41	1,036	41	1,036	55	1,400	47	1,500
	Height with Doser Feeder & Hopper (in) (mm):	82	2,080	103.3	2,625	103.3	2,625	103.3	2,625	91	2,312	91	2,312	104	2,650	104.2	2,647
Throughput Rates	Extrusion Height Center Line (in) (mm):	39.4	1,000	40	1,015	40	1,015	40	1,015	40	1,015	40	1,015	44.8	1,140	43.3	1,100
	Extruder Weight, Approximate (lbs) (kg):	2,770	1,260	6,500	2,955	6,500	2,955	6,800	3,090	12,700	5,760	12,700	5,760	18,000	8,150	21,000	9,500
	Rigid PVC Pipe (lbs/hr) (kg/hr):	25 to 150	11 to 68	50 to 275	23 to 125	200 to 600	90 to 270	300 to 800	135 to 365	500 to 1,300	227 to 590	500 to 1,600	227 to 727	500 to 2,000	227 to 909	to 2,200	to 1000
	Rigid PVC Profile (lbs/hr) (kg/hr):	25 to 125	11 to 57	50 to 200	23 to 91	80 to 450	35 to 205	200 to 650	90 to 295	300 to 900	135 to 410	300 to 1,000	135 to 455	400 to 1,200	182 to 550	to 1,700	to 770
	Rigid PVC Siding (lbs/hr) (kg/hr):	NA	NA	NA	NA	80 to 500	35 to 225	200 to 650	90 to 295	600 to 1,200	273 to 545	600 to 1,400	273 to 636	600 to 1,700	273 to 770	to 2,000	to 909
	Rigid PVC Sheet-Solid (lbs/hr) (kg/hr):	NA	NA	NA	NA	200 to 600	90 to 270	300 to 800	135 to 365	500 to 1,300	227 to 590	500 to 1,600	227 to 727	500 to 2,000	277 to 909	to 2,000	to 909
	Rigid PVC Pelletizing (lbs/hr) (kg/hr):	NA	NA	NA	NA	to 600	to 270	to 800	to 365	to 1,300	to 590	to 1,600	to 727	to 2,000	to 910	to 2,200	to 1,000
Flexible PVC Pelletizing (7 & 8) (lbs/hr) (kg/hr):	NA	NA	NA	NA	to 800	to 365	to 1,000	to 455	to 1,500	to 682	to 1,800	to 818	to 2,200	to 1,000	to 2,500	to 1,136	
Wood (Natural) Fiber Plastic Composite (9) (lbs/hr) (kg/hr):	to 100	to 45	to 165	to 75	to 350	to 160	to 500	to 230	850 to 1,000	386 to 455	NA	NA	1,000 to 1,600	455 to 727	to 1,700	to 773	

Rigid PVC output rates are based on average formulations with a bulk density of 40 lbs/ft3 or 640 g/L. WPC output rates are based on 60% wood-fiber 40-60 mesh + 40% HDPE.

GENCA TOOLING & DIES

For over 70 years, Genca has developed crossheads and in-line heads with thousands of die and tip designs that are available to extrude a wide range of products. From single layer tubing, complex multi-layering tubing, wire and cable and special shape constructions, Genca extrusion products are known for producing high quality precision extruded products.



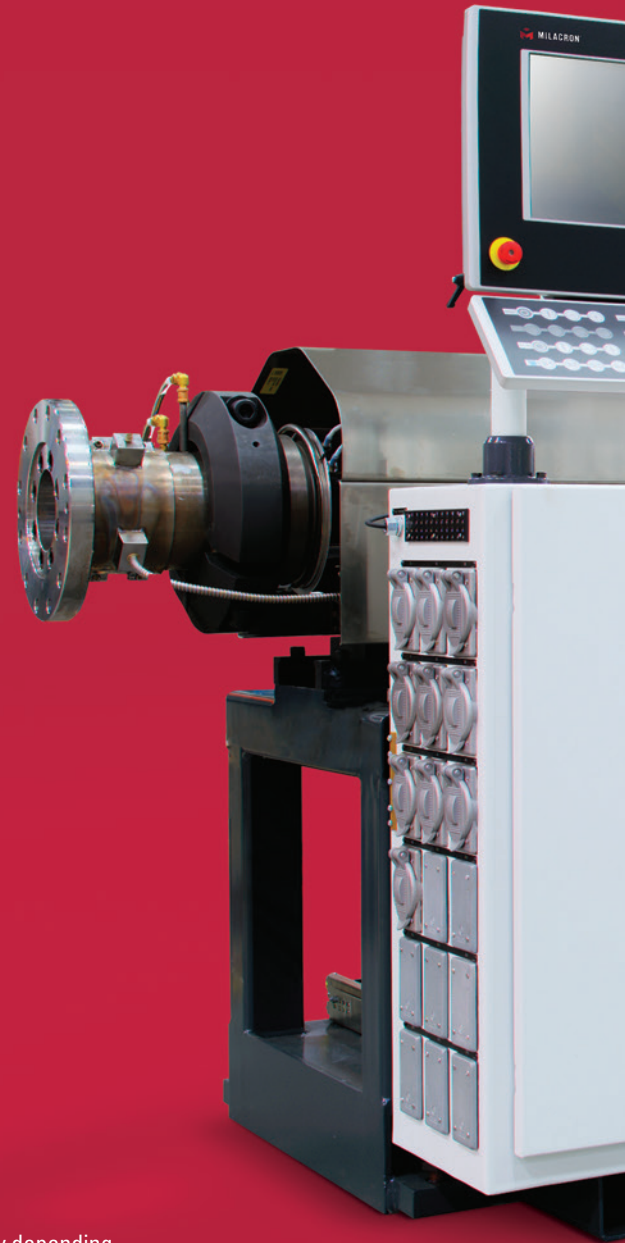
SERVICE & SUPPORT

- Gearbox Rebuilds including competitor brands
- Retrofit & Rebuilding of capabilities including controls and machine rebuilds
- Processing and Engineering Support
- Extrusion Learning Center available for polymer testing, production trials and training

CONTACT MILACRON TODAY FOR MORE INFORMATION.

Performance Advantages

- 8 models designed to meet throughput rates to 2500 pph (1,133 kg/hr).
- Natural compression - large volume to small
- Ideal for heat and shear sensitive materials
- Positive displacement pumping characteristics
- High head pressure capabilities
- High torque capability for gentle plastification
- Narrow residence time produces optimal melt condition
- Excellent devolatilization characteristics
- Advanced wear protection for long service life
- MOSAIC Microprocessor Control



1. Isolation Transformer highly recommended for protection of extruder drive.
2. 460V Barrel Load is included in the 460V machine power drop.
3. Barrel & screw temp. control heaters supplied at 460V; Die heaters supplied at 230V.
4. At 460/3/60.
5. Crammer feeder needed to obtain rated output.
6. As Shore A durometers increase, output rates drop accordingly.
7. TC55 and TC65 siding output rates for capstock; TC80 - TC92 siding output rates for substrates.

All specifications reflect average values based on typical machine layouts. 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. Shipping weights reflect average historical values. 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.



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4165 Half Acre Rd., Batavia OH 45103
513.536.2000
info@milacron.com | www.milacron.com