



## Integral Intervention Tenderizers - The Ross TC700-I Series

Model TC700M-I (12" wide belt) & Model TC700W-I (28" wide belt) tenderizers accept bone-in or boneless product & have been built to accommodate meat & poultry industry requirements for over 40 years. The TC700M-I has a more compact footprint & indexes up to 82 cycles per minute due to a new Geneva Clock drive. The TC700W-I was developed later for further processing operators that desire a higher throughput unit to satisfy their production line capacity requirements. Its ability to accept bone-in product was added in 2011.

Two Ross Integral Intervention Tenderizers are available to meet your operation's processing requirements – a TC700M-I processes fresh product up to 9" high; while the larger TC700W-I can process product up to 7" tall. Throughput for both is established by your product and operational requirements, contact a Ross RSM to determine which machine is right for your facility and its capability – both degree of tenderization & capacity.



TC700M-I Tenderizer



TC700W-I Tenderizer

**Both model TC700-I Integral Intervention Ross Tenderizers come ready to roll into place and operate (Plug & Play) due to the included *ready to use product tank & positive displacement pump* located in the cabinet base with a sealed access door for easy servicing.**

These units accept most intervention concentrates, they provide a 15 second minimum fresh spray time while applying .75 to 1.5 oz of fluid/lb of product – meeting most concentrate suppliers' recommendations.

Overspray is captured by a built-in enclosure guarding and integral catch pan or perimeter gutter sloping to a 1" NPT drain connection. The overspray is not recirculated to ensure maximum potency & performance.

Both standard models come with "No Meat – No Spray", "a dislodged door/guard – No Spray or Motion", and "Low Spray Rate – No Motion" interlocks ensuring efficiency, operator safety and top product quality!



Integral RTU Tank and Pump



Intervention Supply Connection & Strainer

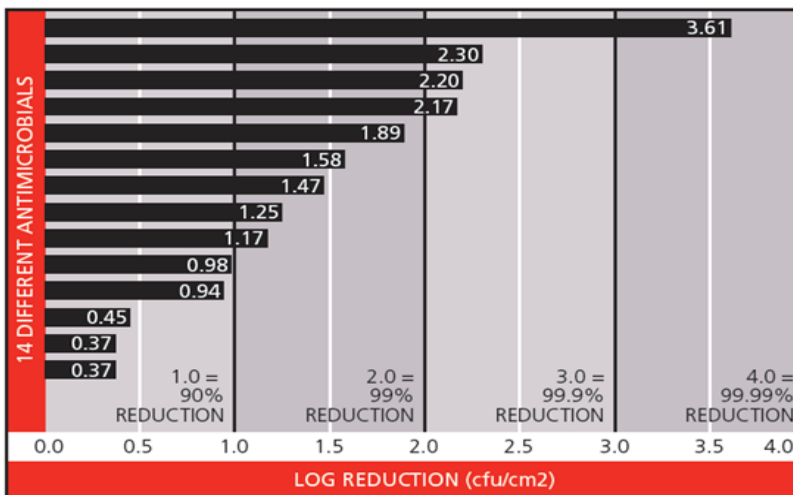


Opening to TC700W-I Enclosure

Technical Specifications	Model TC700M-I	Model TC700W-I	Comments
Maximum Product Size	9" High x 11.75" Wide	7" High x 27.5" Wide	TC700W-I only for boneless product; the TC700M-I runs bone-in as well
Spray Application Rate	Up to 1.65 gpm	Up to 3.75 gpm	Spray rate matched to belt speed- The TC700W-I needs an air supply
Capacity (nominal)	5,000 pounds/hour	10,000 pounds/hour	product dependant
Utility Requirements	3 $\Phi$ , 200 to 575 v, 6.5 to 17 a, 50/60 hz, Air Usage – Not Applicable (none) Solution Supply Rate – 4 gpm (15.1 liters/min)	3 $\Phi$ , 200 to 575 v, 6.5 to 17 a, 50/60 hz, Air Usage – 5cfm @ 80 psi (2.5 cm <sup>3</sup> /s @ 5.5 bar) Solution Supply Rate – 5.5 gpm (20.8 l/min)	Customer to supply mixed Intervention fluid (Ross can supply an efficient mix system)
Conveyor Width	12 inches (305 mm)	28 inches (711 mm)	stainless steel belt
Conveyor Speed (max)	8 fpm (2.45 meters/min.)	15 fpm (4.5 meters/min.)	TC700W-I has 3 pre-set speeds
Products Handled	bone-in or boneless meat & poultry	Bone-in or bone-less meat and poultry products	An intervention treatment can extend fresh shelf life
Solutions that can be accommodated on Integral Intervention Tenderizers	Organic acids or active concentrates with pH between 1.5 & 11.5	Organic acids or active concentrates with pH between 1.5 & 11.5	Other solution concentrates can be handled, provide Ross with product specifications



Ross can help develop a validated HACCP plan for your operation using an Integral Intervention Tenderizer. Secondary intervention treatments are strongly recommended for all further processed raw meat & poultry products by the USDA's FSIS Division. Their effectiveness is proven in multiple scientific research studies. Ross initiated & worked with Oklahoma State University on a recent comparison of 14 intervention concentrates, processed under production line conditions (rate & temperature) to establish their surface pathogen colony plate count size log reduction performance on beef wafers (both intact & non-intact) inoculated with E. Coli 157 H-7. The results of this OSU research can be used to help validate a HACCP plan following its protocol.



Product recalls can be regional or national and negatively impact your reputation and profitability.

Use [sales@rossindinc.com](mailto:sales@rossindinc.com) or 800 336-6010 to have a Ross Sales Professional assist in tailoring an intervention system that addresses all your operational needs. To ensure you've considered all the critical parameters and aspects of this continually evolving technology including access to the recent Oklahoma State University Study (recognized by the FSIS Division of the USDA) conducted under plant conditions comparing 14 concentrates.