



Component Data Sheet

All Moline equipment is designed and built for industrial production in wholesale bakeries and food plants on a 3-shift basis with regular maintenance per Moline guidelines. Two construction “levels” are offered to meet the diverse needs of the food processing industry. Variations within each level address major machine categories of: Mechanical Equipment and Electrical Equipment.

Level 1 - Bakery Duty construction features allow for wet cleaning of the equipment product zone areas as described by BISSC and ANSI Z50.2. Non-product zone areas of equipment are to be cleaned via dry methods only, such as vacuuming.

Level 2 - Washdown Duty construction features allow for wet cleaning of the product zone and non-product zone areas of the equipment as described by BISSC and ANSI Z50.2. With special considerations, Level 2 equipment can be configured to meet rigorous 3-A dairy specifications and USDA standards.

Major Component Suppliers by Build Level

Description	Level I	Level II
Mechanical		
Motors	Leeson, Baldor	
Gearmotors	Nord	
Sub Fractional HP Gearmotors	Brother, Oriental	
Induction Motors	Oriental	
Gear Reducers	Nord, Winsmith	
Right Angle Gearboxes	Tolomatic, WC Branham	
Equipment-Mounted Controllers	KB	
Torque Limiters	Nexen, Browning	
Bearings (mounted spherical)	Dodge, IPTCI nickel plated inserts, polymer housings	Dodge, IPTCI stainless inserts, polymer housings
Bearings (mounted - belt trackers)	Emerson SealMaster	
Bearings (roller and needle)	SKF, NSK, Timken	
Bearings (plain) and Bushings	Rulon, IGUS, Oilite	
Roller Actuators	Duff-Norton USDA/H1 compliant, painted.	Duff-Norton stainless steel.
Chains	Nickel plated or equivalent corrosion resistant.	Nickel plated or equivalent corrosion resistant.
Chain Tensioners	Lovejoy	
Pneumatics	Festo, Parker Ashcroft Pressure Switches, Bimba Cylinders	
Pneumatic Control Valves	Festo, Aro, SMC	
Pressure Gauges	Ametek	
Gas Springs	Ace	
Conveyor Belting	Habasit, Intralox, Ashworth, Cambridge, Wire Belt	
Conveyor Belt Take-ups	Adjustable End Rollers	Bryant Telescopers, Pivoting End Rollers
Blowers	Cincinnati Fan	
Pumps	APV Crepaco, Haight, Sine, Wilden	
Bin/Hopper Vibrators	Vibco	

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Description	Level I	Level II
Electrical		
Remote Enclosures	SCE , Hoffman NEMA 12 (IP 55) painted.	SCE , Hoffman NEMA 4X (IP 66) stainless steel.
Junction Boxes	NEMA 4X (IP 66) stainless steel.	
Conduit	Vendor Varies - Aluminum	Vendor Varies - Stainless Steel
Conduit Fittings	Vendor Varies - Aluminum	Vendor Varies - Aluminum
Conduit Supports	Vendor Varies - Aluminum	Vendor Varies - Stainless Steel
Conduit Drains	Vendor Varies - Stainless Steel	
Plugs and Receptacles	Hubbell Pin and Sleeve Harting , Meltric , Phoenix , Turck	
Disconnects	ABB , Allen-Bradley , Hubbell , Bussmann	
Alarm Horn	Allen-Bradley	
Signal Lights	Allen-Bradley	
Sensors	Banner , Turck , Endress-Hauser	
Transformers	Sola	
Overhead Wiring Trough (optional)	Not Applicable	Hoffman NEMA 4X stainless steel. Moline stainless steel.
Controls	Allen-Bradley , Siemens	
Safety Circuits	Allen-Bradley , Telemecanique , Siemens	
Circuit Breakers	ABB , Allen-Bradley , Siemens , Square D	
Ethernet Switch	N-Tron , Siemens	

Level 3 - Severe Washdown Duty is also available. Contact Moline for more information.

NOTE: Designs may vary. Listed are the typical components used.

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