



QUESTIONS + ORDERS

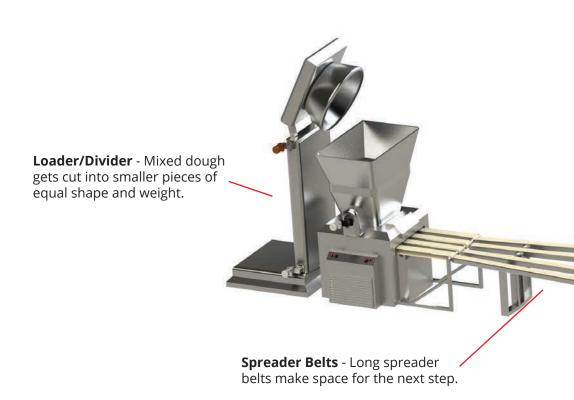


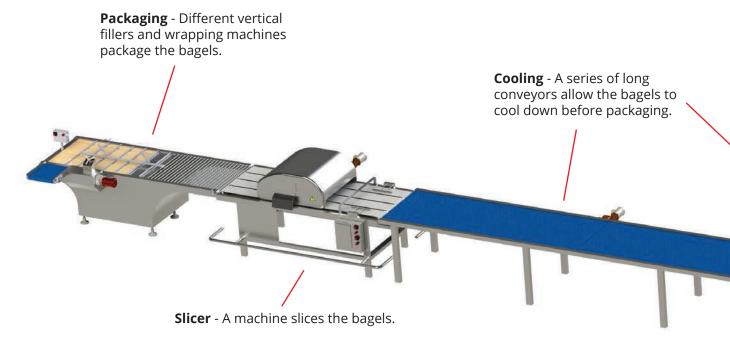
800-540-1846



BAGEL PRODUCTION LINE

Standard layout of a bagel production line.



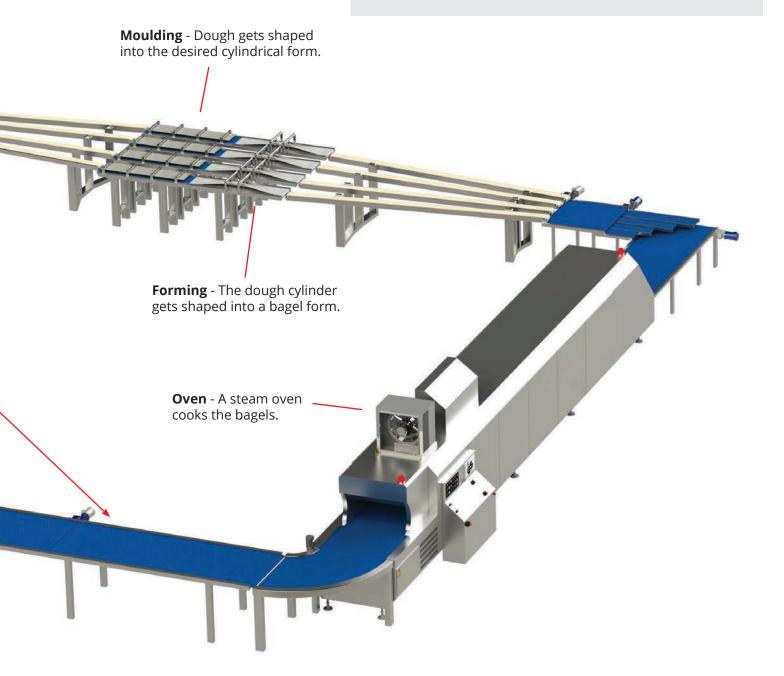


BAGEL PRODUCTION LINE

Standard layout of a bagel production line.

The below drawing is an example of the bagel making process. The drawing is only a representation of the process and is not a complete one. The belt recommendations found here and throughout the brochure are only general suggestions. Due to the complex nature of the various bagel making processes, technical requirements and external influences*, there are a variety of possible solutions.

*External influences can be the property of transported goods, process speed, steps of treatment/handling, environment/process temperature, humidity, additives, ingredients, recipes, and more.



EQUIPMENT & CONVEYOR BELTS

Most common machines and conveyor belts.



DOUGH LOADER & DIVIDER

The dough gets loaded into the hopper and using knives or rotary discs it gets cut into individual round pieces of the same weight that fall onto one or more conveyors. We recommend **R14 BF**, but also **wool felts**, **solid woven cotton**, **F** or **R** series could be used.

DOUGH MOULDER

The dough moulder is a machine that has a belt running on the bottom and a fixed piece of plastic on the top. This way, the piece of dough rolls onto itself to form a cylinder. We recommend R19, R14 BF, solid woven cotton or wool felts because they have great release properties.



P19/B

DOUGH FORMING

The dough forming machine has a very flexible belt going into a tube shaped conveyor, which forces the cylindrical dough into a ring. We recommend **P19/B**, a belt specifically designed for bagel forming machines, but **R19** could also be used.

EQUIPMENT & CONVEYOR BELTS

Most common machines and conveyor belts.



OVEN

The in-feed and out-feed belts need to withstand the high heat coming from the oven. We recommend **SWM/S** with silicone coatings up to 4mm thick, and high temperature resistance thermoplastics like **P9/A PX** and **HY6/A**.

BAGEL SLICER

After the bread is cooled down it goes into the slicer. These machines normally have an **F10/M** or a **F20/T** on the bottom and depending on the type of machine, they can have the same belt on the sides to hold and compress the bagel. Other machines use timing belts.





PACKAGING

There are a lot of different kinds of machines, depending on if the bagels are going to be wrapped in plastic or put into a box to be frozen. Megadyne offers **timing belts** with special covers for vertical fillers and wrapping machines. Any **P** or **F** series conveyor belt can be used for the in and out-feed of the machine.

TECHNICAL INFORMATION

PRODUCT CODE	COVER MATERIAL	COVER FINISH	PLIES	INTERPLY MATERIAL	FABRIC MATERIAL	BOTTOM FINISH
P21/A TR	PU	Smooth Matte	2	PU	Polyester	PU Impregnation
P22/A TR	PU	Smooth Matte	2	PU	Polyester	PU Impregnation
P6/A	PU	Smooth Matte	1	PU	Polyester	PU Impregnation
P7/Z	PU	Inverted Pyramid	1	PU	Polyester	PU Impregnation
P8/A	PU	Smooth Matte	2	PU	Polyester	PU Impregnation
P8/Z	PU	Inverted Pyramid	2	PU	Polyester	PU Impregnation
P9/A	PU	Smooth Matte	2	PU	Polyester	PU Impregnation
P9/A PX	PU	Smooth Matte	2	PU	Polyester	PU Impregnation
P9/Z	PU	Inverted Pyramid	2	PU	Polyester	PU Impregnation
P20/A	PU	Smooth Matte	2	PU	Polyester	PU Impregnation
P19/B	PU	Mini Rough Top	2	PU	Polyester	PU Impregnation
HY6/A	Hytrel	Smooth Matte	1	Hytrel	Polyester	PU Impregnation
R13	Bare Fabric	PU Impregnated	2	PU	Polyester	PU Impregnation
R14	Bare Fabric	PU Impregnated	2	PU	Polyester	PU Skim
R14 BF	Bare Fabric	PU Impregnated	2	PU	Spun Polyester	PU Skim
R19	Bare Fabric	Cotton/Polyester	2	PVC	Cotton/Polyester	Bare
SAM210	Polyester Felt	Felt	2	PVC	Polyester	Bare
F10	PVC	Smooth Glossy	2	PVC	Polyester	PU Impregnation
F10/M	PVC	Rough Top	2	PVC	Polyester	PU Impregnation
F20/T	PVC	Saw Tooth	2	PVC	Polyester	PU Impregnation
WOOL 503	No Cover	Felt	1	N/A	Wool	Felt
WOOL 2400	No Cover	Felt	1	N/A	Wool	Bare
WOOL 1500	No Cover	Felt	1	N/A	Polyester	Bare
SWC 2PLY	No Cover	Cotton Fabric	2	N/A	Cotton	Cotton Fabric
SWC 4PLY	No Cover	Cotton Fabric	4	N/A	Cotton	Cotton Fabric
SWM	No Cover	Woven Polyester	1	N/A	Polyester	Monofilament Polyeste
SWM/S	No Cover	Silicone Impregnated	1	N/A	Polyester	Monofilament Polyeste



ROLLER COVERS

Some equipment uses rollers to compress the dough. In order to avoid the dough sticking to the roller, a wool felt cover is used. MIPR offers wool felt roller covers in both **solid** and **shrinking jacket**. Different thicknesses and diameters can be made per your specifications.

TECHNICAL INFORMATION

GENERAL CONVEYING	NG	OVEN IN/OUT-FEED	FORMING	MOULDER	SPREADER	DER												
ERAI	SLICER PACKAGING	Ž					COLOR		PU	MINIMUM PULLEY			MA TEN	OVER			OVEI THICK	
GEN	SLICER PACKA(OVE	5 R	MOL	SPRE	LOADER	COLOR	PER 1% N/mm Lbf/in				F°	C°	THICKNESS mm in		in	mm	
•					•	•		45	8	1.575	40	194	90	0.020	0.50	0.075	1.90	
•							0	45	8	1.969	50	194	90	0.035	0.90	0.091	2.30	
•					¥ •	100	0	28	5	0.197	5	176	80	0.011	0.29	0.031	0.80	
•							0	45	8	0.394	10	176	80	0.020	0.50	0.051	1.30	
•						•	0	45	8	0.787	20	176	80	0.011	0.29	0.051	1.30	
•				•			0	45	8	0.787	20	176	80	0.011	0.29	0.059	1.50	
•					•	•	0	34	6	0.394	10	176	80	0.011	0.29	0.051	1.30	
•		•			•	•	0	34	6	0.394	10	230	110	0.011	0.29	0.051	1.30	
•				•			0	34	6	0.394	10	176	80	0.011	0.29	0.059	1.50	
					/(•		0	74	13	3.150	80	176	80	0.020	0.50	0.094	2.39	
			•				0	34	6	1.181	30	194	90	0.035	0.90	0.091	2.30	
		•					0	28	5	0.394	10	248	120	0.011	0.29	0.039	1.00	
•	•				•	•		34	6	1.181	30	194	90	N/A	N/A	0.039	1.00	
•	•				•		0	45	8	1.181	30	176	80	N/A	N/A	0.055	1.39	
•					(100		57	10	0.984	25	176	80	N/A	N/A	0.051	1.30	
			•	•			0	28	5	1.969	50	194	90	N/A	N/A	0.094	2.39	
•					•	•		34	6	1.575	40	194	90	0.071	1.80	0.126	3.20	
•	•						0	45	8	1.181	30	176	80	0.020	0.50	0.079	2.00	
•							0	45	8	1.575	40	176	80	0.145	3.70	0.205	5.20	
•							0	103	18	2.362	60	176	80	0.120	3.00	0.197	5.00	
•						100		12	2	0.197	5	230	110	N/A	N/A	0.130	3.30	
•								12	2	0.394	10	230	110	N/A	N/A	0.236	6.00	
							0	183	32	0.197	5	230	110	N/A	N/A	0.118	3.00	
•							0	51	9	0.984	25	225	107	N/A	N/A	0.098	2.50	
•								103	18	2.992	76	225	107	N/A	N/A	0.185	4.70	
		•					0	285	50	0.236	6	284*	140*	N/A	N/A	0.087	2.20	
								285	50	0.236	6	311**	155**	N/A	N/A	0.087	2.20	



FABRICATION

MIPR has full fabrication capabilities to make your belt the way you need it. **V-guides**, **sidewall** and **cleats** can be vulcanized directly onto the belt, creating a strong and sanitary (no use of glues) bond. **Perforations** and **special covers** are also available.









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