

PMQ PizzaMedia 8/2022



O

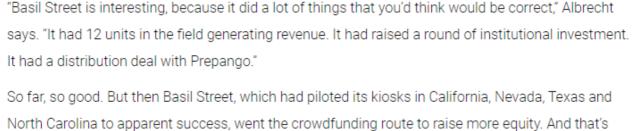
Crucial Tools for the Future · Foodservice robots were everywhere at this year's National Restaurant Show and could change the way we make pizza. But is that what customers want?

- · Handling dough is a key problem that robot manufacturers must address to ensure consistency of the pizza across a chain's multiple locations.
- Related: N.J. pizza shop has a plan to lead the robot revolution By Rick Hynum

Basil Street Pizza was once a promising startup in the restaurant automation field, but something,

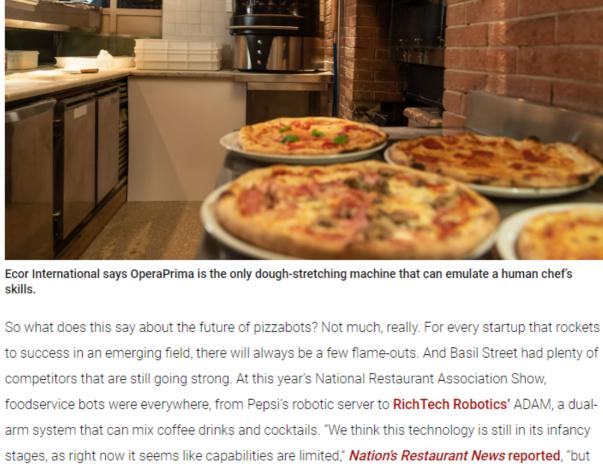
somewhere along the way, did not compute. Headquartered in Los Angeles, the company touted its

automated pizza kitchen-which used a three-element, non-microwave speed oven to fire up flashfrozen pies in three minutes—as "the future of pizza." Now it looks to be history, with the company shutting down and selling its assets, as reported in late April by OttOmate, a digital business publication for the foodservice robotics industry. For all of the skeptics who scoff at the notion of a machine making pizza for people, Basil Street's demise might feel like validation. But Christopher Albrecht, OttOmate's publisher, has his finger on the pizza robot's pulse (so to speak). And he knows the issue is more nuanced than that.



where they hit a brick wall, Albrecht believes. "This is a successful strategy for plenty of robotic startups—Blendid, all of Wavemaker Lab's portfolio companies—but it's not the same as running a Kickstarter [campaign]. Equity crowdfunding takes a lot of work and requires more regulatory approval. Basil Street was hampered by the pandemic, which caused production delays out of China,

and getting through all the financial regulatory work to crowdfund took longer than anticipated. So the company just ran out of runway."



robots are less like gimmicks and more like crucial tools as the labor shortage continues."

"Adding back-of-house robots, especially at the scale of Domino's and Pizza Hut,

pizzeria, and not every dough plays well with robots."

— Chris Albrecht, OttOmate

would require pretty extensive testing. Dough, for example, is different from pizzeria to

xRobotics' chief marketing officer. "This is literally for everybody in the market," Tikhova said in the OttOmate webinar. "The horizontal space in any pizza shop is very limited. If you don't have a lot of space...you might want to look at something that uses vertical space instead of horizontal space. Once you bring in any new piece of equipment, you have to think of exactly where you're going to place it and having enough space for your pizza maker to pass by—all of those little things that are actually not little. They're very important." Tikhova, a former pizzeria operator herself, says a countertop robot can save time for any busy shop. "If you [think about] where your people are spending most of their time, I guarantee it's not slapping the dough or bringing in ingredients," she said. "It would be things like putting on sauce,

Of course, not all pizza robots need to do everything a person can do. The xPizzaCube, a countertop system from San Francisco-based xRobotics, spreads sauce, sprinkles cheese and adds pepperoni slices on premade crusts for pies between 8" and 16". These compact machines can be installed in

any kitchen to reduce labor and fire up pepperoni pies in a hurry, according to Alena Tikhova,

Philippe Goldman, the CEO of Pazzi, ran into a similar obstacle. With two pizzerias in Paris, Pazzi uses robots to cover the three Bs-building, baking and boxing the pies-and they need little help

from their human overlords. But the dough proved tricky, Goldman explained in a webinar hosted by

restaurants and follow the same process, but the dough doesn't have the same behavior at the two

restaurants. The best way to handle that is to have clever robots that can adapt to the behavior of the dough. We use computer vision to understand dough behavior and adapt the way the robot is

"We spent two years developing the [pizza making] machine with a team of 26 ex-

SpaceX engineers. The SpaceX ethos is to fail fast and discover the most difficult

going to press and deal with the dough."

challenges as soon as possible."

- Benson Tsai, Stellar Pizza

Robots in the Kitchen

OttOmate last November. "Dough always changes," he said. "It's not a rigid product. We have two

cheese and pepperoni. Concentrate on those first and automate them, and you'll see massive

Automation isn't limited to making pies. Domino's has tested robotic delivery, and several foodservice automation companies have surfaced with their own tech to get food to a customer's doorstep. Marco's Pizza is testing voice-to-text technology for order taking and a pizza making robot

O

Chatbots and Food Runners

and asked to meet "Shea," the female chatbot who had previously taken his phone order. "Instead of using a computer-generated voice, we have a voice-over artist, a real person, recording everything," Lacny says. "And when we're ready to offer services in, say, Mississippi, we'll add a Southern accent. A Brooklyn accent, Ivy League accent, whatever it is, we can spin it up in, like, 20 hours." No one's likely to develop a crush on a robotic food runner, but you never know. In June, Ledo Pizza, a Maryland-based brand, debuted its newest team member-dubbed Ledo Bot 9000-at a location in West Springfield. Manufactured by Bear Robotics, the Ledo Bot runs carryout orders to the counter so that flesh-and-blood team members can focus on other tasks and take better care of customers. "With Ledo Bot running carryout orders from the kitchen to the counter, there won't be any barriers between the guest and employee during this repetitive task," says Ledo Pizza president Jamie Beall, adding that the robot will be implemented in additional stores soon.

Just don't expect the top chains to use pizza making robots right away. For starters, they'll have to overcome the same problems Pazzi and Stellar Pizza encountered-but on a much larger scale.

"Adding back-of-house robots, especially at the scale of Domino's and Pizza Hut, would require pretty

to improve efficiency and accuracy at its high-traffic stores. And California chain Mountain Mike's

complicated orders over the phone as smoothly as a live person. That system is so convincing, says It's Your Al founder Jay Lacny, that one customer showed up in person at a Mountain Mike's store

Pizza has been working with San Diego-based It's Your AI to test a chatbot that can take

extensive testing," Albrecht says. "Dough, for example, is different from pizzeria to pizzeria, and not every dough plays well with robots. Automation needs to be attuned to particular dough types to prevent tearing and other mishaps." And there's no reason to worry that robots will nudge talented pizzaioli out of the kitchen, Albrecht says. "Pizza robots aren't meant for every pizzeria. Robots are best suited for high-volume locations where people might not care as much about getting an artisanal pizza. If I'm stuck at an airport at 11

a.m. after a series of delays and all the restaurants are closed, that vending machine pizza is going to taste pretty good."