

Brine and liquid seasoning injection machine



"For Superior Fish Seasoning" Make fish taste delicious!!

It's an innovate machine to inject brine and liquid seasoning directly into the fillet to make the products taste excellent. It saves the time of seasoning and the loss of liquid seasoning. It also possible to increase the yield ratio and control the consistency. We heard people tried fish with this solution expressed "How come it's so tasty!" It is an ideal system to make not only the regular salted fillet but also develop your original products with unique liquid seasoning.



The best seasoning solution for salted fillet, salmon, pickled fish and dried fish.



(Benefits)

- Increased superior flavor Retain its UMAMI flavor for long
- Ensure even distribution of brine consistency
- Significant reduced working hours Fast injection work
- High product yields
- Ensure stable brine consistency
- Change salinity freely
- Possible to develop new product with unique seasoning

Target fish (Used for both fillet and slice)

 Salmon, Mackerel, Hokke fish(okhotsk atka mackerel), Horse mackerel, Pacific saury, Sea bream, Herring, Pacific ocean perch, Cod fish, Yellow tail and others

Also available

Chicken meat(breast / dark)

Work examples

- Evenly salted Salmon fillet
- Preliminary seasoning for soaking fish
- Preliminary seasoning for dried fillet
- Ingredients for NABE and deep fry
- Preliminary seasoning for chicken meat with
- brine and different flavors.

NIKKO injection implement specially designed for meat allows for tender meat like chicken meat without damaging its tissue.



KINMEDAI FISH (Splendid Ifonsino)water



Yellowtail



Spanish mackerel

Pickled fish with better visual effects

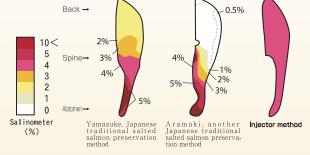
NIKKO INJECTOR can produce delicious pickled fish having evenly sized, weighed and salted by seasoning the sliced fish cut by NIKKO PROFESSIONAL JUNIOR with NIKKO INJECTOR.

"How come it's so tasty!"

The mechanism why fish tastes so good

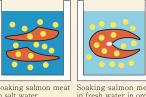
Uniform Brine Distribution

400 thin needles inject brine into fillets fed intermittently. The brine is distributed uniformly into the fillets despite fish different part, which makes the fish fillets taste so good. This can be done faster than other processing methods and save the processing time. The consistency of the brine can also be changed freely.



The UMAMI(flavor) substance does not flow out of the fish meat.

The UMAMI substance usually flows out of the fish meat when removing salt by soaking in fresh water for long such as Tsukekomi marinated method and the traditional Yamazuke method, but the UMAMI does not flow out of the fish meat with the injector method because brine is injected into the fish meat directly.





Injector method requires no soaking in order to remove salt because you can adjust the brine consistency.

Result in flowing out of UMAMI

No flow out of UMAMI substance



Coexistence of UMAMI substance and salt

The major flavor decides food taste is The UMAMI substances consist of five basic flavors (sweetness, acid, saltiness, bitterness, umami) are the combination of two seasoning substances, glutamic acid and nucleic acid. The combination of the UMAMI and the two seasoning substances improve the taste greatly. Adding salt to the combination even makes the taste much greater.

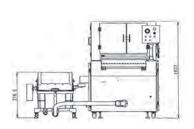
External View

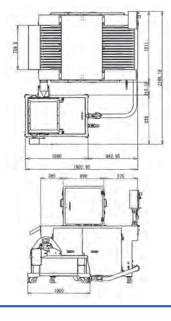
24 fillets per minute NSI-240

Capacity

- 12 fillets per minute (NSI-120)
- 24 fillets per minute (NSI-240)
- The best model for developing new products at your laboratory

 SEMIAUTOMATIC MODEL





Specification
[INJECTOR BODY]

Size Total length1,827mm Total width1,211mm Total height1,637mm
Weight800kg
Maximum height of fillet 50mm
Number of fillet row4
Number of injector needles 400
Needle pitch approx7.5mm
Needle size 1.6mm
Pitch feeding 60mm
Power Supply 5kw (3Phase 200v)
Air Consumption 50NL/min
Capacity 12 fillets per minute 24 fillets per minute (based on processing of salmon)
(TANK SCREEN UNIT)

C'-- Tetal legath

Size	Total length1,060mm
	Total width 839mm
	Total height 776mm

#It is prohibited by law to copy for manufacture all and/or part of this system. These specification will be changed for improvement/modification without notice.



Head office

■110-1 Tsuruno, Kushiro-shi, Hokkaido, Japan, 084-0924 TEL +81-154-52-7101 FAX +81-154-53-0878

International office

■1-9-1, Nishishinkoiwa, Katsushika-ku, Tokyo, Japan, 124-0025 TEL +81-3-5654-6770 FAX +81-3-6853-0055