

■ Specifications

Specifications and dimensions may be subject to change without prior notice.

Two rows small divid	o rows small divider for connection of Gyrator <dqg></dqg>	
Number of pocket	2 (Cassette type of pockets)	
Scaling range	30 - 230g	
Stroke/min	10 - 20st.(every 2 strokes adjustable)	
Capacity	1200 - 2400 pcs/hr	
Hopper capacity	45 liters	
Required electric	main drive : 1.5kW	
Machine weight	Approx 1000kg	

Two rows conveyor Mi	o rows conveyor Microwave <mws></mws>		
Max. output of oscillator	2kW		
Treatment capacity	white bread (230g): 1500pcs/hr	
	variety (30g ~ 110g	g): 2000pcs/hr	
Required electric	oscillators	: 1kW×2	
(Input Power :5kVA)	conveyor drive	: 90W	
	spin roller	: 40W	
	shutter drives	: 40W×2	
Machine weight	Approx 300kg		

Single row moulder with infeed conveyor <wfs></wfs>			
Capacity	230g : 3000pcs/hr		
	30g : 4500pcs/hr		
Dough weight	30 - 230g		
Dia. of rollers	upper : 85mm	lower: 100mm	
Roller clearance	upper : 9 - 14mm	lower : 1 - 9mm	
Roller speeds	20 - 46m/min		
Height of pressure board	10 - 50mm		
Range of width plate	e of width plate 100 - 330mm		
Required electric	ectric main drive : 0.4kW		
Machine weight	Approx 350kg		

yratory Rounder < GQS>		
Gyaratory type		
1 station		
2cups * 5 = 10cups		
up and down of cup	: 1.5kW	
gyration of cup	: 0.75kW	
conveyor drive	: 0.75kW	
spin roller	: 40W	
brush roller	: 0.1kW	
Approx 1200kg		
	Gyaratory type 1 station 2cups * 5 = 10cups up and down of cup gyration of cup conveyor drive spin roller brush roller	

Two rows belt driving p	wo rows belt driving proofer < PQA>	
Number of tray	60 trays	
Capacity	2400pcs/hr (7.5 min. as standard)	
Proofing time	7.5min. as standard	
Dough weight	30 - 230g	
Required electric	main drive : 0.2kW	
	flour duster : 90W	
Machine weight	Approx 1500kg	

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l	Power Source	AC200V	3Phases	

Note

Replacement of existing single machine can be possible.

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06.12.12 OSHIKIRI P-106-1



Challenge to Innovation (New Model of Home Line)

Microwave Proofing System

Make-Up Line by Oshikiri's Original Creativity and Engineering



Bakery plants from Small and Medium Size of Bakery



What is Microwave Proofing System?

Divided and rounded dough pieces are irradiated by microwave to rise dough temperature about 5°C, which leads to promotion of relaxation of dough structure, expansion of gas in the dough, and acceleration/shortening of proofing time by helping fermentation of yeast.

Proofing time cuts down to half of conventional proofing time

Graph 1 shows the comparison of conventional proofing and microwave irradiation treatment for dough specific gravity after dividing and rounding dough. Specific gravity after 15 minutes conventional proofing is equivalent to 7.5 minutes microwave irradiation treatment.

Graph 2 shows the comparison of pressure value required to the rollers when moulding the dough after dividing and rounding. As same as specific gravity value, pressure value after 15 minutes conventional proofing is equivalent to 7.5 minutes microwave irradiation treatment.

As result of these experiments, microwave irradiation treatment can be cut down to half of conventional proofing time.

The quality such as taste, smell of bread make little difference from convetional Proofing.

Conventional Finishing Process

Dividing — Rounding — Intermediate Proofing — Moulding

- Requires the time from 15 to 20 minutes
- Needs spaces to be installed

Finishing process of microwave proofing system

Graph 1

Dividing — Rounding

control

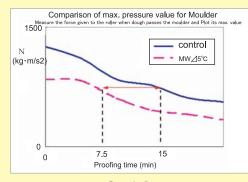
— • MW ∕15°C

Intermediate Proofing

Microwave treatment

Moulding

- Dough temperature is risen about 5°C by microwave treatment
- Cut the intermediate proofing time down to half
- Smaller machines and easy cleaning to be sanitated



Graph 2

Dividing/Rounding



System layout

1 Two rows small divider for connection of Gyrator MODEL DQG

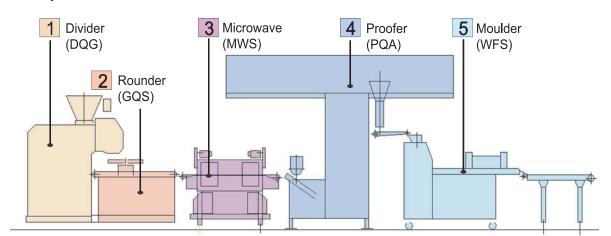
Compact Divider/Rounder to handle 30 to 230 grams of variety bread dough

- Cassette type of pocket to fit dough weight
- Advancement of cleaning by construction improvement of product zone
- Sanitation by separation of product zone and driving system/ advancement of maintenance

Gyratory Rounder MODEL GQS

The first gyratory small rounder for variety bread

- Changeable rounding eccentric amount according to
- dough weigh
- Variety rounding by easy cup replacement
- Easy daily maintenance with see-through cover



Proofing -1



Two rows conveyor Microwave MODEL MWS

Microwave rising temperature unit to promote relaxation of dough construction and to shorten proofing time

- Controllable output according to dough weight
- Continuous treatment in two rows
- Easy operation with programming selection

Proofing -2



Two rows belt driving proofer MODEL PQA

Belt drive type of proofer from new viewpoint

- Less noise and energy saving by less metal to
- be used
- Foreign substance creation countermeasure by combination of materials at contact section
- ●Easy removing tray
- Oil-free

Production capacity for each product

	White bread	230g (1500pcs/hr max)
Ì	Variety / Roll breads	30 - 110g(2000pcs/hr max)
ĺ	Butter rolls	30 - 70g(2000pcs/hr max)
	Donut dough	30 - 110g(2000pcs/hr max)



Moulding



5 Single row moulder with infeed conveyor MODEL WFS

New type of evolved moulder from the function of WF moulder

- Using two stages roller soft to the dough
- Reduction of dough damage by relief mechanism
- Digital display for adjustment
- Betterment of cleaning and maintenance