



**ROTOMACHINERY**



4-7  
MAY  
2021  
MILANO

**ROTOULDING  
TECHNOLOGY**

# CAROUSEL

Carousel machine with 1,2,3,4 carriages with oven spherical diameter from 1500 to 5500mm, available option for cooling chamber.



SPHERICAL DIMENSION OF THE OVEN	mm	2000	2500	3000	3500	4000	4500	5000
STRAIGHT ARM SPHERICAL DIAMETER	mm	1850	2250	2800	3250	3800	4200	4800
OFFSET ARM SPHERICAL DIAMETER	mm	1550	2050	2500	3020	3300	3600	4200
MAXIMUM STRAIGHT ARM LOAD	Kg	1050	1450	1700	2000	2300	2500	3000
MAXIMUM OFFSET ARM LOAD	Kg	700	1000	1100	1400	1550	1650	1850
MAXIMUM OVEN TEMPERATURE		330°C						
NUMBER OF STATIONS		6						5
MAXIMUM SPEED PRIMARY AXIS	RPM	8						6
MAXIMUM SPEED SECONDARY AXIS	RPM	8						6
WATER CONSUMPTION		MAX 330 l/h – 2.5l/min @ 3-5 bar						
COMPRESSED AIR		6 Bar 32.000Nl/h						
ALLOWED FUELS		<b>METHANE GAS - PROPANE GAS - DIESEL</b>						

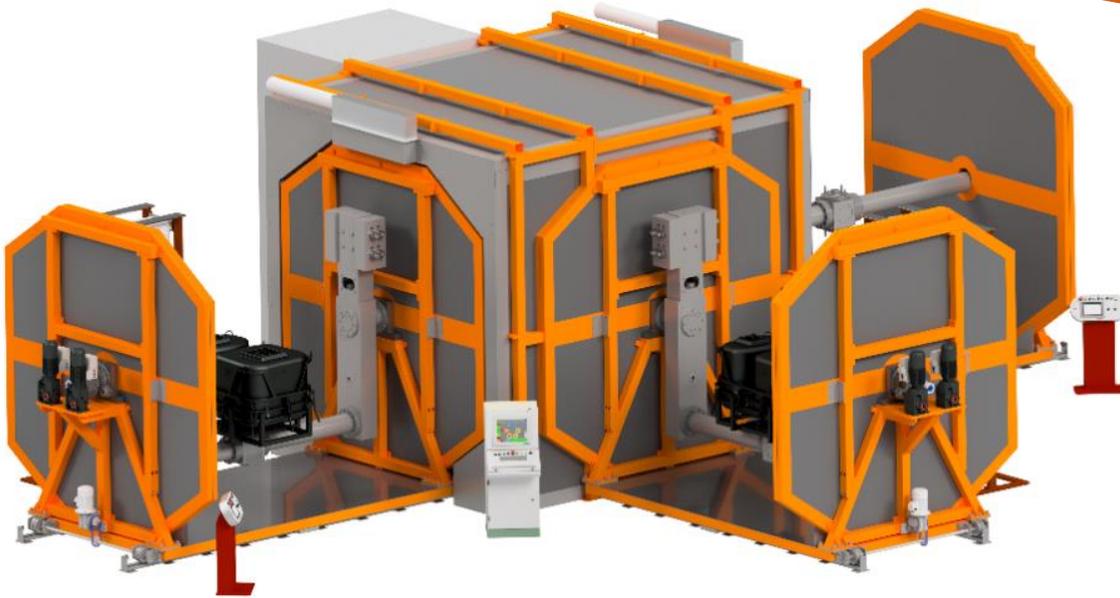
All our arms are produced according to the UNI-ISO European construction rules standards, the commercial products used are all ISO - DIN with metric decimal system.

The arms according to the requests can be supplied with or without air for the molds. The rotation heads for both the straight and offset versions are interchangeable and modular. All the bearings used are of the European type and produced in Italy.

The materials used are European-made carbon steels. The gearmotors used for the rotation of the axes are gears produced by Lenze leader in the market of high efficiency gearmotors. All the gearmotors used are with Inverter mounted directly on board the motor, in this way you avoid power and energy losses due to the length of connection cables. All the motors are all IE according to the European directive 2005/32 / CE. The nominal frequency of the gearmotors is **87Hz** which, thanks to the new Motec 8400 inverters, allow energy savings of **30%** less than machines of the same size.

# SHUTTLE

Shuttle machines, with central oven and 1,2,3 horizontal traversing arms, with spherical diameter from 1500 to 5500 mm



SPHERICAL DIMENSION OF THE OVEN	mm	2000	2500	3000	3500	4000	4500	5000
STRAIGHT ARM SPHERICAL DIAMETER	mm	1850	2250	2800	3250	3800	4200	4800
OFFSET ARM SPHERICAL DIAMETER	mm	1550	2050	2500	3020	3300	3600	4200
MAXIMUM STRAIGHT ARM LOAD	Kg	1050	1450	1700	2000	2300	2500	3000
MAXIMUM OFFSET ARM LOAD	Kg	700	1000	1100	1400	1550	1650	1850
MAXIMUM OVEN TEMPERATURE		330°C						
MAXIMUM SPEED PRIMARY AXIS	RPM	8						6
MAXIMUM SPEED SECONDARY AXIS	RPM	8						6
WATER CONSUMPTION		MAX 330 l/h – 2.5l/min @ 3-5 bar						
COMPRESSED AIR		6 Bar 32.000NI/h						
ALLOWED FUELS		<b>METHANE GAS - PROPANE GAS - DIESEL</b>						

The motors are controlled via Profinet fieldbus at high speed, the Profinet system allows to obtain the instantaneous absorbed current and the optimal speed management from the inverter, thanks to an encoder mounted on the motor, the axis speed is precise and linear regardless of the load, this allows the cancellation of the motor sliding and a precision comparable to brushless positioning systems. Our products do NOT have shaft locking keys, all transmissions are coupled only with easily replaceable shrink discs or ISO 4156 splined shafts, this system in addition to preventing breakages allows 100% efficiency in mechanical transmissions.

The propeller fan for warm air distribution is controlled by an inverter. In addition, on the air outlet from the combustion chamber a diffuser with adjustable blades is fitted.

Thanks to our speed control algorithm connected to the chamber pressure and the air temperature, the motor for ventilation of the air in the molding chamber was sized less kW, which allowed us to use a parallel axis gearmotor so as to completely cancel the power losses on the transmission, also thanks to the high efficiency inverter and the IE3 motor, consumption is reduced to a minimum, thanks to our control system the electrical consumption of the molding chamber is 40% lower than the competition with the same machine model.

**SIEMENS**  
**Lenze**



**EMERSON™**

**ASEM**

**UNI** ENTE ITALIANO  
DI NORMAZIONE

**EN** EUROPEAN  
STANDARDS

**ISO** International  
Organization for  
Standardization



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