RCH

High intensity mixers

The **High Intensity Mixers RCH** are used where friction mixing is required; the tools are rotating at high speed to induce heat into the mixing material by friction. It is imperative to apply as much energy as necessary while ensuring gentle material treatment and an excellent dispersion of the various components is achieved. The RCH mixers are built in modular design. An inclined discharge valve guarantees the efficient emptiness of the mixing vessel.

PRINCIPLE OF OPERATION

During loading of the RCH mixer, the tools work at a reduced RPM, then the speed of the blades is increased and the frictional heat begins to be transferred to the material. In some processes the various products are fed in sequence at different temperatures. The mixing cycle ends when the desired temperature and degree of homogeneity is reached. Then the mixing material is discharged.

MAIN FEATURES

EASY AND FAST CLEANING
Thanks to the internal design with larger vessel radius, without product stagnation points, and the fully openable lid with the possibility of positioning it outside the machine and opening it vertically, the mixer can be cleaned in a very short time.

HIGH PERFORMANCE
Innovative design of the mixing tools for the RCH gives fast heating time, efficent energy optimization due to the large vessel radius combined with an excellent dispersion and homogenization. Optimized selection of motors and drives guarantees high process performance.

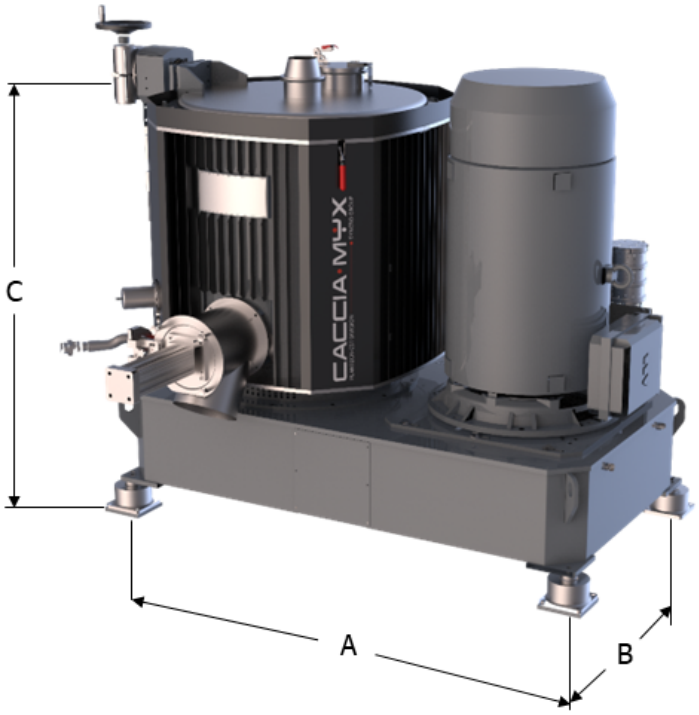
MANY SIZES
RCH mixers are available in many sizes to best fit your process requirements and available space (from 100L to 2500L) and for different throughputs (from 200Kg/h to over 8600Kg/h).

INSTALLATIONS
All CACCIA MyX are fully tested in house before shipping, in addition they can be equipped, as an option, with PLUG and PLAY configuration, where all cables are supplied with the equipment at an agreed length, therefore the installation is an easy step.

CONTROL SYSTEM & INDUSTRY 4.0
All the control systems are state of the art and intellectual property of CACCIA MyX.
The PLC is supplied with OPC/UA protocol embedded, which makes each mixer control ready for industry 4.0.
The controls are equipped with a user-friendly HMI touch screen (7”-9”-15,6”).

AVAILABLE OPTIONS
- Available in ATEX, NEMA UL/CSA versions.
- Nitrogen inerting
- Oxygen concentration measurament
- SCADA system Protocol
- Tyger Cloud Remote control
- JF - Jet Filters

TECHNICAL DATA



Configuration
- RCH 100 till RCH 300, Standard toll with two stages configuration
- RCH 400 till RCH 600, Standard tool with three stages configuration
- RCH 700 till RCH 1500, Standard toll with four stages configuration
- RCH 2000 till RCH 2500 Standard toll with five stages configuration

Option
- Hinged lid opening
- Deflector
- Several discharge positioning and double discharge option
- Side injector for plasticizer
- Vacuum system for dry-bland dehumidification
- Vessel hard coating for special application
- Vessel and bottom in AISI Duplex Were resistant

Technical Data
- Motor sizes: from 22 kW till over 600 kW
- Motor Servo ventilation : on request
- Water cooled motor: on request
- Motor Class standard: IP55
- Motor Efficiency standard: IE 4
- Voltage 230 - 690 / 3 / 50 – 60 HZ.
- Option mid voltage up to 6.000 Volt

RCH Sizes	Usable Volume	Weight for Batch Kg range		Power kW		A	B	C	Weight
	Lt	Bulk density 0.5 kg/l	Bulk density 0.65 Kg/l	Standard	Reinfoced	mm	mm	mm	Kg
100	80	40	52	22	30	1950	1080	1100	560
200	160	80	104	45	55	2380	1080	1500	1450
300	240	120	156	75	90	2380	1080	1500	1560
400	320	160	208	90	110	2760	1250	1750	2000
500	400	200	260	110	132	2750	1250	1830	2500
600	480	240	312	132	160	2750	1250	1850	3000
700	560	280	364	160	200	2980	1450	1890	3200
800	640	320	416	200	220	2980	1450	1900	3575
1000	800	400	520	250	315	2980	1450	2050	4100
1200	960	480	624	315	355	3650	1650	2050	5100
1500	1200	600	780	355	400	3650	1650	2300	6050
2000	1600	800	1040	450	500	3700	1850	2560	7480
2500	2000	1000	1300	560	610	3700	1850	2850	8200