

MOLD COOLING & MONITORING SYSTEM

Guide Book for Die Casting

PATENT
PENDING



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RAGA ENGINEERS

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25
YEARS

GLOBAL PRESENCE

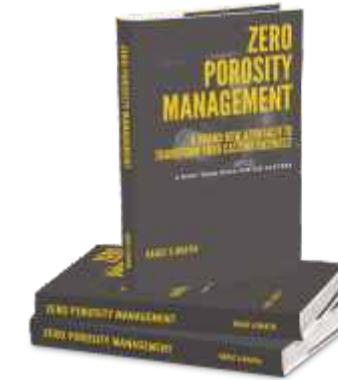


350+
Satisfied Customers

17
Countries

70
Team Members

26
Years



Hi,

I am Rahat A Bhatia,

- ✓ Asia's #1 Die Casting Mold Cooling Expert
- ✓ 25+ years of Global experience in Controlling & monitoring Die Casting Processes
- ✓ Helped 350+ die casters reduce casting rejections and increase mold life across 17 countries, including South East Asia, Europe & Americas
- ✓ Author of upcoming book "Zero Porosity Management"
- ✓ Regular Tech-talks at ALUCAST (Aluminium casters association of India) on Die-Casting innovations
- ✓ Been Subject speaker at NADCA USA
- ✓ We hold Multiple Global Patented solutions in Die casting industry
- ✓ Contributing my services as Vice Chairman Alucast (Aluminum Casters Association of India)

RAGA NEX

Proven & reliable technology
for minimizing shrinkage porosity
in thin sections & around core pin
in a die casted part.

Casters trust this plug & play machine
due to its optimal cost-performance
& almost nil maintenance.

Machine conforms to international
standards & spares.



RAGA TRIO

We call it TRIO, world's first
centralized jet cooling machine.
Integrates with up to 3 Die casting
machines simultaneously.

Modern & sleek looks.

Machine gives
high return on investment &
consumes less floor space.

Save capital costs.
Buy 1 instead of 3.



RAGA NEXplus

Introducing Process controlled Jet Cooling for
Mega Castings on High Tonnage Die Casting Machines.

Porosity challenges in mega casting are critical and need a
highly specialised technology.

For die casters who wish to take their game to unbeatable
next levels.

Large (upto 10) systems or recipes for different heat zones.

Inbuilt temperature control & Scale free system making it
truly CLOSED LOOP. Also minimising blockage in lines.

Compatible* for detection of leakage, blockage and breakage
of each core pin.

* Monitoring system can be integrated.

NEW LAUNCH



RAGA MODULAR COOLING SYSTEM

One stop solution for Jet, Spot & Line cooling.

Modular Cell innovation for improved process, traceability and predictability.

Temperature controlled closed loop system.

Predict failures like blockage, breakage & leakage for individual core pin and cooling line.

Graphical visualisation of output per shot.

#1 Giga casting cooling solution.

Flexibility for large number of systems or recipes.

NEW LAUNCH



RAGA VACMAX

Efficiency and flexibility makes
Vacmax series, a uniquely acceptable
vacuum system.

Two stage evacuation from shot
sleeve & mold add high value in
minimizing gas porosity.

Serves purpose & saves you tons
of money.



RAGA UNO

The low cost vacuum system UNO
welcomes you to the world of vacuum
die casting.

Easy to use and maintain.

Plug & play machine serves
up to 800 ton die casting machine.



RAGA COMBO

COMBO is a breakthrough concept.
world's first combined solution for
jet cooling and vacuuming.

Modern yet simple. Efficient & flexible
operation gives ultra high value to
die casters.

Save on capital & energy cost,
spares inventory & floor space.

Common control and updated software
makes it easier to use.



JET COOLING



TECHNICAL SPECIFICATIONS		RAGA HVCU		RAGA TRIO	RAGA NEXplus	RAGA MODULAR COOLING SYSTEM
		PRO	NEX			
CORE PINS COOLED	Nos	20	20 40 60 100	6+6+6 (3 DCM)	20 40 60 100 120 150	10 15 (Per Unit)
COOLING CHANNELS	Nos	2	2 4 6	3	2 4 6 8 10	1 to 10
INBUILT TEMP CONTROLLED		×	×	×	✓	✓
INBUILT DEIONIZER		×	×	×	✓	✓
FLOW RATE MEASURE		×	✓	✓	✓	✓
AIR & WATER PRESSURE MEASURE		✓	✓	✓	✓	✓
CORE PIN BREAKAGE DETECTION		×	✓	✓	✓	✓
CURVE PER CHANNEL DISPLAY		×	✓	✓	✓	✓
ERROR DIAGNOSTIC & RECORDING		×	✓	✓	✓	✓
TOUCH SCREEN HMI			Mitsubishi 7"	Mitsubishi 7"	Mitsubishi/Siemens 7"	Mitsubishi/Siemens 9"
DATA STORAGE & TRANSFER MOLD/ PRODUCTION		5/ 200	16/200	16/200	16/200	16/200
WATER TANK (L)		60	–	–	60-300	300 500
FOOT PRINT	m	1.2x0.5	1.0x0.65	1.0x0.65	1.2x0.8	1.3x1.0

VACUUM



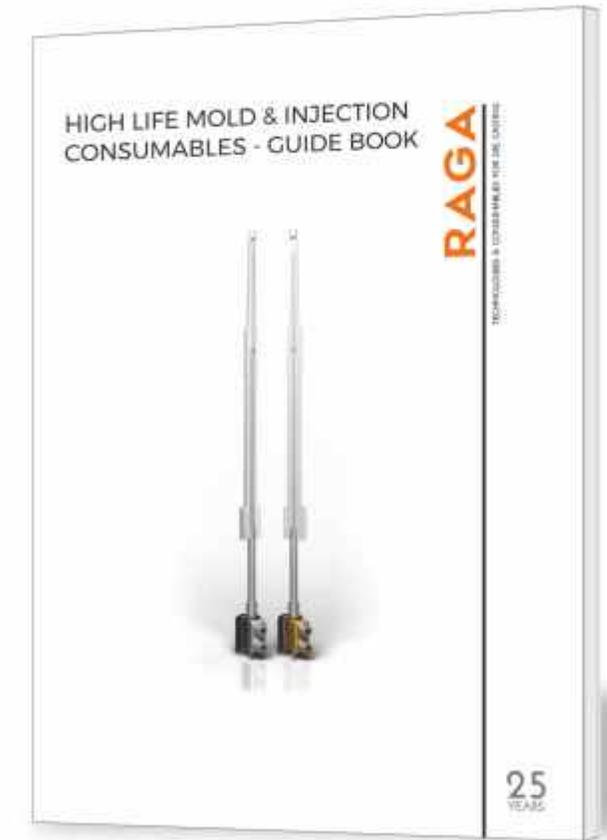
TECHNICAL SPECIFICATIONS			RAGA VACMAX	RAGA UNO	RAGA COMBO
			VACUUM TANK SIZE	l	250 500 800 1000
VACUUM CHANNELS	Nos		2	1	2
VACUUM EVACUATION SECTION	mm2		2x500 2x800	1x500 1x800	2x500 2x800
VACUUM PRESSURE IN TANK & CHANNEL MEASURE			✓	✓	✓
VACUUM LEAK TEST			✓	×	✓
CURVE PER CHANNEL DISPLAY			✓	×	✓
ERROR DIAGNOSTIC & RECORDING			✓	×	✓
TOUCH SCREEN HMI			Mitsubishi 7"	Mitsubishi 7"	Mitsubishi/Siemens 7"
DATA STORAGE & TRANSFER MOLD/ PRODUCTION			16/200	16/200	16/200
FOOT PRINT	m		1.6x0.6 1.9x0.75 2.0x0.8 2.4x0.91	0.8x0.8	1.5x1.7
DCM	t		Up to 600 Up to 1400 Up to 1800 Up to 2000	Up to 800	Up to 800 Up to 1400

NEW LAUNCH

MOLD COOLING PERFORMANCE MONITORING SYSTEM



"Get better control with Raga Mold Cooling Optimization devices"



"Reduce breakdowns with all time available Raga high life mold & injection consumables"

CLIENTELE



To Get
FREE
Mold Cooling Performance Report
Register Now



"Scan this QR Code"



Raga Group is a world renowned name for Technologies and Consumables in the die casting industry. Over the last twenty five years, Raga has served OEM's and Tier-I companies involved in die casting across the world.

Raga's line of products is developed based on close analysis of the die casting process and its environment.

This has helped us deliver innovative products and equipments to global standards.