MOLD COOLING & MONITORING SYSTEM

Guide Book for Die Casting

28
YEARS

GLOBAL PRESENCE

350+
Satisfied Customers

17
Countries

85
Team Members

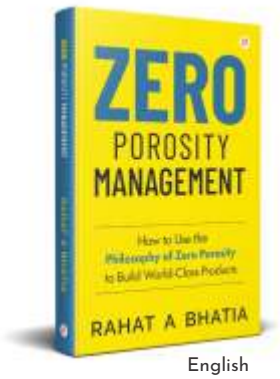
28
Years

From The Promoter

Hi,

I am Rahat A Bhatia,

- ✓ Asia's #1 Die Casting Mold Cooling Expert
- ✓ **With 28+ years of Global experience in 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 widely acclaimed book** "Zero Porosity Management"
- ✓ **Regular Tech-talks** at **ALUCAST (Aluminium casters association of India)** on Die-Casting innovations
- ✓ Been Subject speaker at **NADCA USA**
- ✓ **Multiple Global Patented Solution**s in Die Casting Industry
- ✓ **Contributing services as Vice Chairman** Alucast, (North India)



English

Japanese

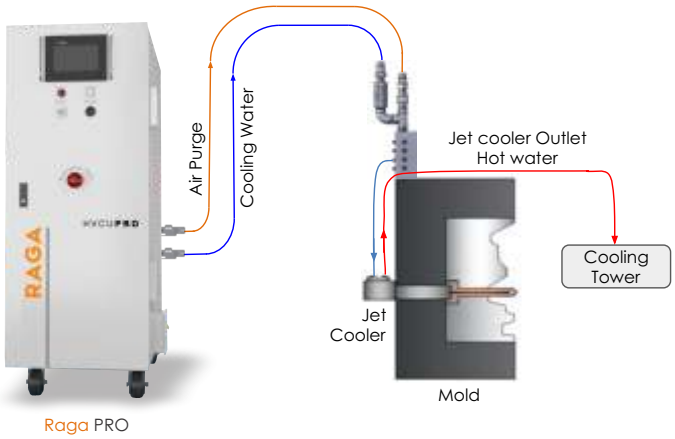
RAGA PRO

PRO is an entry level Jet Cooling machine, one of the first from Raga.

This comes for 20 pins and 2 systems configuration.

Simple and effective machine to reduce shrinkage porosity in castings.

Low maintenance and service cost.



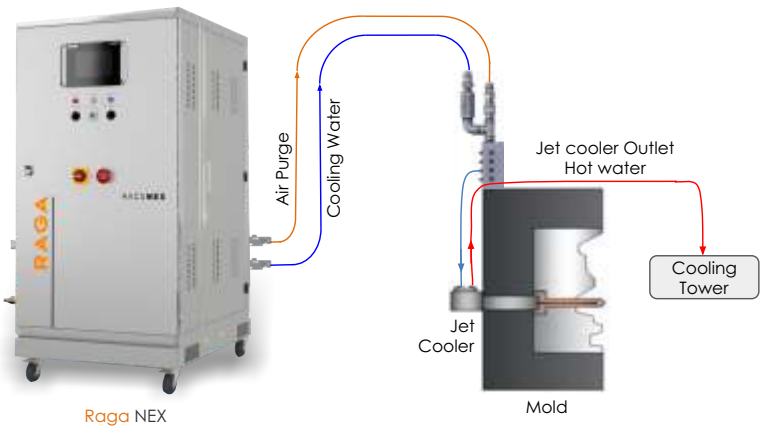
Raga PRO

RAGA NEX

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

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

Machine conforms to international standards & spares.



RAGA TRIO

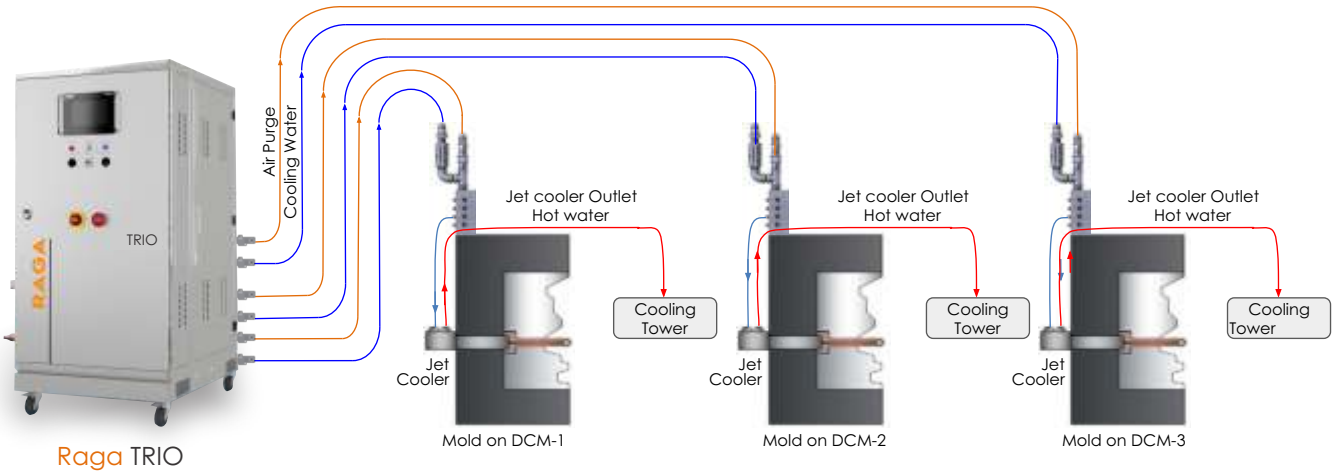
We call it TRIO, world's first centralized jet cooling machine.

Integrates with up to 3 Die Casting Machines simultaneously.

Modern & Sleek Look.

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

Save capital costs. Buy 1 instead of 3.



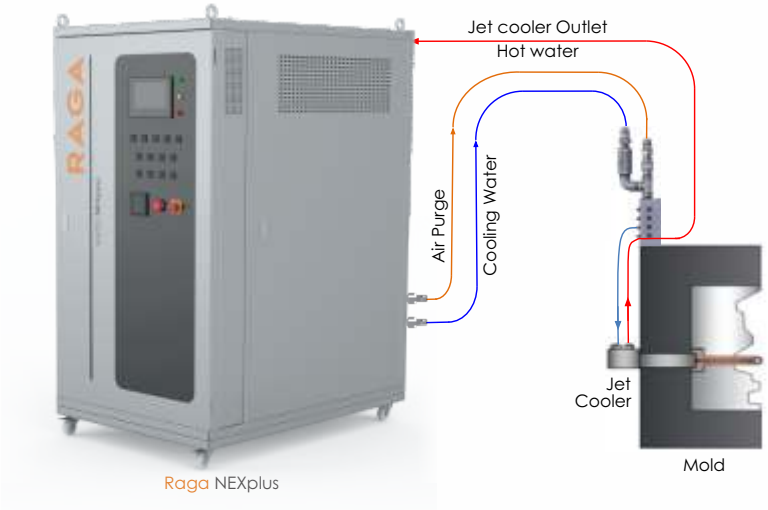
Raga TRIO

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.

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



RAGA
AquaControl

Water Temperature & TDS controller for Jet, Spot & Line cooling.

Close loop your existing or new Jet cooling machine.

Save water consumption cost and improve efficiency of mold cooling.

Reduce scaling in cooling line and improve casting quality.

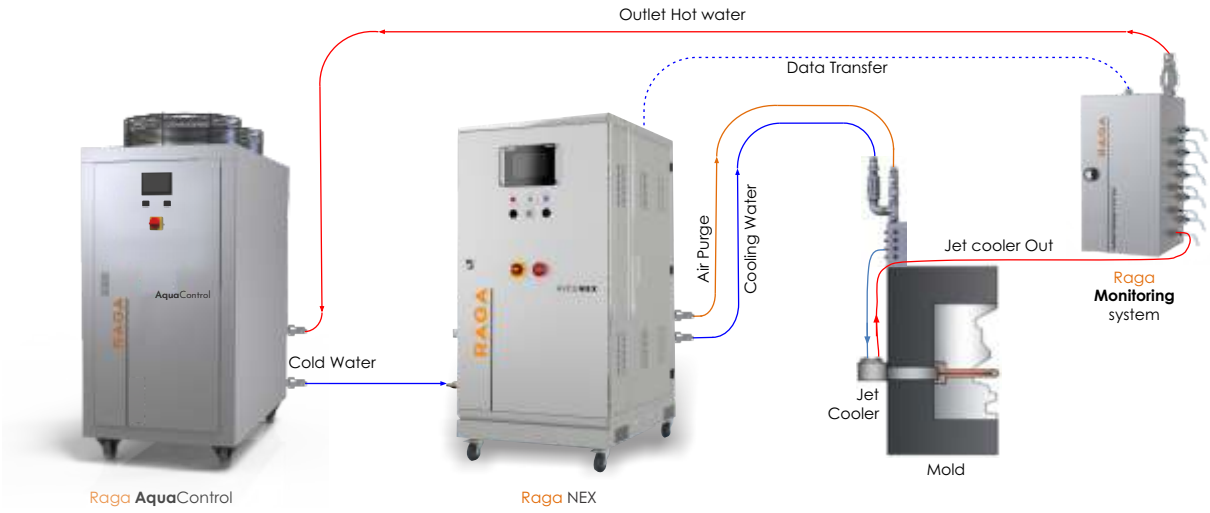
RAGA
MOLD COOLING PERFORMANCE MONITORING SYSTEM

Brings traceability and predictability in Jet, Spot & Line Cooling
Standalone unit mounted near or on Platen to monitor output water

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

Can be installed with any existing Jet Cooling system

Graphical representation for traceability every shot



Jet Cooling




TECHNICAL SPECIFICATIONS		RAGA PRO	RAGA NEX	RAGA TRIO	RAGA NEXplus
CORE PINS COOLED	Nos	20	20 40 60 100	6+6+6 (3 DCM)	20 40 60 100
COOLING CHANNELS	Nos	2	2 4 6	3	2 4 6
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		Delta 7"	Mitsubishi 7"	Mitsubishi 7"	Mitsubishi 7"
DATA STORAGE & TRANSFER MOLD/ PRODUCTION		5/ 200	16/200	16/200	16/200
WATER TANK (L)		–	–	–	60-200
FOOT PRINT	m	1.0x0.65	1.0x0.65	1.0x0.65	1.2x0.8
STANDARD/CERTIFIED		–	CE	–	CE
PHASE LOSS PROTECTION DEVICES		×	✓	✓	✓
PHASE REVERSAL PROTECTION		×	✓	✓	✓
EARTH LEAKAGE PROTECTION & DETECTION		×	✓	✓	✓
PROTECTION AGAINST RESIDUAL VOLTAGE, EARTH FAULT, RESIDUAL CURRENT CIRCUIT BREAK		×	✓	✓	✓
OVER/UNDER VOLTAGE PROTECTION		×	✓	✓	✓

AquaControl

TECHNICAL SPECIFICATIONS		RAGA AquaControl 20	RAGA AquaControl 50
COOLING CAPACITY	kW	7	17.5
TANK CAPACITY	Liters	65	65
TEMPERATURE (MIN)	°C	16	16
TEMPERATURE MEASURE		✓	✓
TDS (MIN)	PPM	20	20
AMOUNT OF WATER PROCESS (AT 200 PPM)	Liters	2000	2000
TDS MEASURE		✓	✓
POWER CONSUMPTION	kW	2.6	6.7

Monitoring System

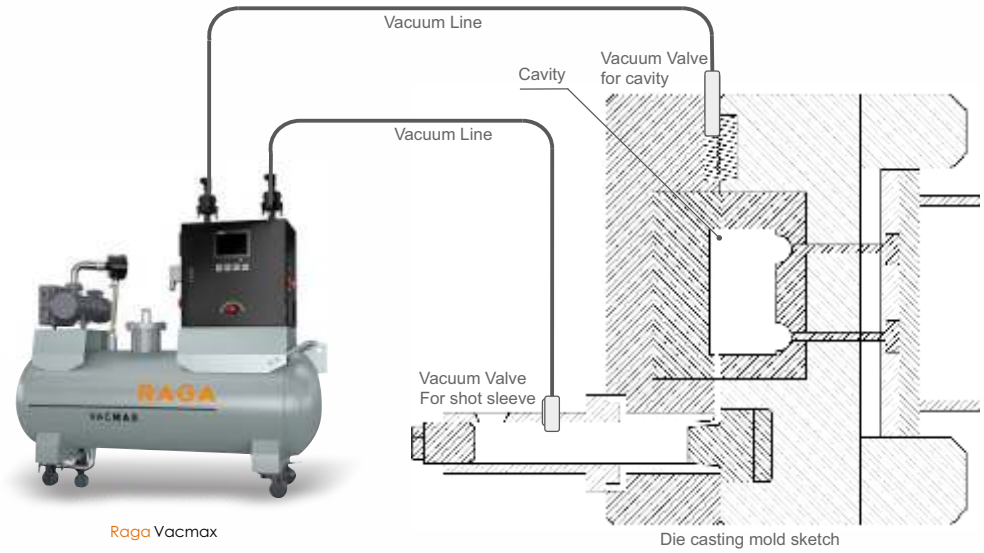
TECHNICAL SPECIFICATIONS		RAGA Monitoring System 04	RAGA Monitoring System 08	RAGA Monitoring System 16
No of connections	Nos	4	8	16
Maximum working pressure	Bar	20	20	20
Flow rate (min)	lpm	0.5	0.5	0.5
Temperature (max)	C	100	100	100
Dimension HxWxD	mm	350x300x250	450x300x250	650x300x250
Connection Size (Tube)	mm	4/6/8	4/6/8	4/6/8
Power supply	V	24	24	24
Output type		Digital Pulse Signal	Digital Pulse Signal	Digital Pulse Signal

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 Vacmax

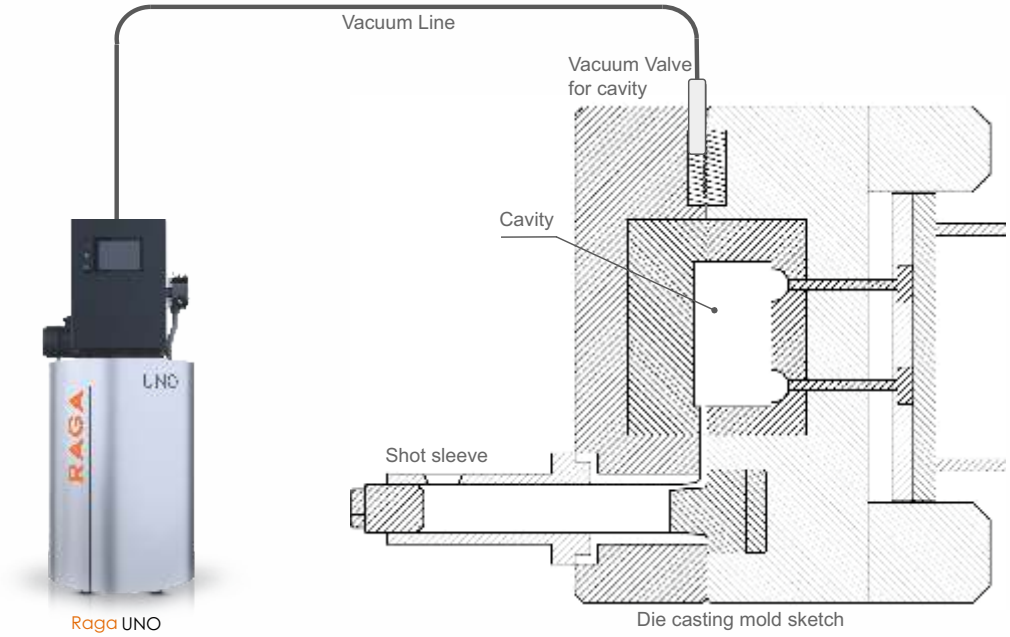
Die casting mold sketch

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.



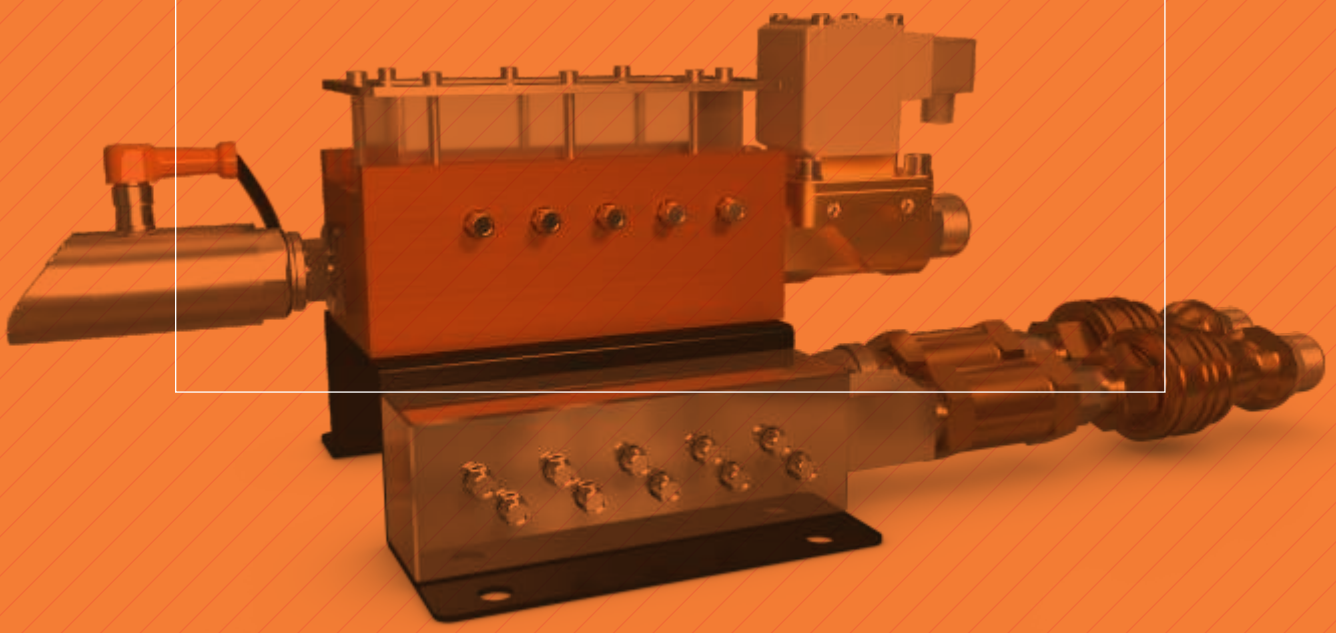
Raga UNO

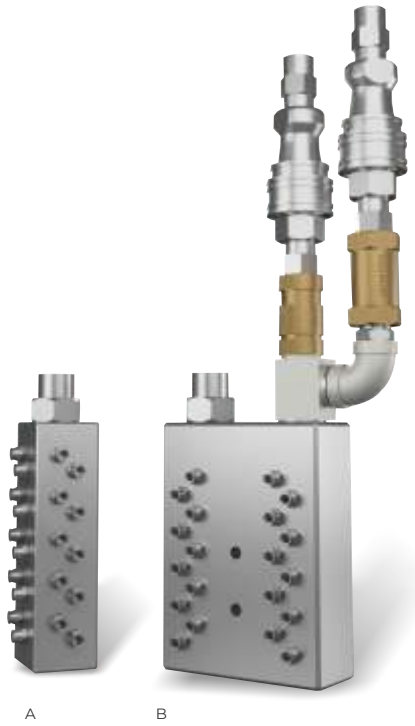
Die casting mold sketch

Vacuum

TECHNICAL SPECIFICATIONS		RAGA VACMAX	RAGA UNO
VACUUM TANK SIZE	l	250 500 800	300
PUMP CAPACITY	m3/h	25 40 63	40
VACUUM CHANNELS	Nos	2	1
VACUUM EVACUATION SECTION	mm2	2x500	1x500
VACUUM PRESSURE IN TANK & CHANNEL MEASURE		✓	✓
VACUUM LEAK TEST		✓	×
CURVE PER CHANNEL DISPLAY		✓	×
ERROR DIAGNOSTIC & RECORDING		✓	×
TOUCH SCREEN HMI		Mitsubishi 7"	Mitsubishi 7"
DATA STORAGE & TRANSFER MOLD/ PRODUCTION		16/200	16/200
FOOT PRINT	m	1.6x0.6 1.9x0.75 2.0x0.8	0.8x0.8
DCM	t	Up to 600 Up to 1400 Up to 1800	Up to 800

MOLD COOLING OPTIMIZATION DEVICES





A : BTM W1 10

B : BTM W2 10+10

RAGA
BLOCK TYPE MANIFOLD

Made up of single block corrosion resistance material making it more durable.

Connects all incoming or / and outgoing cooling tubes at one junction.

Block type manifold - One way connects inlet supply & distributes to jet coolers.

Block type manifold - Two way connects inlet & outlet supply to & from jet coolers.

Long life & easy to install.

	RAGA Block Type Manifold One way 10	RAGA Block Type Manifold One way 20	RAGA Block Type Manifold Two way 10	RAGA Block Type Manifold Two way 20
Nos of tube connection	10	20	10+10	20+20
Tube thread size (Rc)	1/8	1/8	1/8	1/8
Main connection thread size (Rc)	1/2	3/4	1/2	3/4
Dimension HxWxD (mm)	140x40x40	140x40x40	140x100x40	140x100x40
Separately available				
Fluide diverting joint	FDJ-012	FDJ-012	FDJ-012	FDJ-012
Recommended main connection Fitting	HAM-012	HAM-034	HAM-012	HAM-034
Recommended one touch fitting	A-01-04	A-01-04	A-01-04	A-01-04
Recommended flurotube	FPT-04-2.5	FPT-04-2.5	FPT-04-2.5	FPT-04-2.5
Mounting bracket	BTM-MB-01	BTM-MB-01	BTM-MB-01	BTM-MB-01

VFM 10

RAGA
VISUAL FLOW MANIFOLD

Spot blockage or breakage of core pins visually
Roling balls indicate flow of water & abnormality if any
Connects outlet of jet coolers to drain hose
Simple & effective solution

	RAGA Visual Flow Manifold- 10
Nos of tube connection	10
Tube thread size (Rc)	1/8
Main connection thread size (Rc)	3/4
Working water flow rate (lpm)	1.2-6
Working pressure (Bar)	7
Breaking pressure (Bar)	20
Maximum working Temp. °C	100
Dimensions HxWxD (mm)	153x75x87
Consumables	O-ring - VFM-O-01 Nylon Ball- VFM-B-01 Acrylic Board- VFM-AB-10
Separately available	
Adopter for main connection	HAM-034
One touch fitting for tube connection	A-01
Recommended flurotube	FPT-04-2.5
Mounting bracket	VFM-MB-01

PBDD 10

RAGA
PIN BREAKAGE DETECTION DEVICE

Prevents accidents by detecting breakage of core pin
or cooling channel after every shot.
Stops jet cooling operation if abnormality found.
Sturdy & easy to install.
Integrable with existing jet cooling machine.

	RAGA Pin Breakage Detecting Device-10
Nos of connection	10
Inlet Water & Air main connection size	1/2
Outlet main connection size	3/4
Tube thread size (Rc)	1/8
Maximum working pressure (bar)	7
Dimension HxWxD (mm)	530x200x175
Power supply DC (V)	24
Consumables	O-ring - VFM-O-01 Nylon Ball- VFM-B-01 Acrylic Board- VFM-AB-08
Separately available	
One touch fitting for tube connection	A-01
Recommended flurotube	FPT-04-2.5

DEVICE SELECTION CHART

		 Visual Flow Manifold Indicates visually water flow	 Pin Breakage Detection device Indicates leakage / breakage	 Flow Sensing + Indication Device Indicate water is flowing or not	 Mold Cooling Performance Monitoring System Senses flow rate & Temperature for each line and generates data every shot
Detection during Solidification	Leakage	✗	✗	✗	✓
	Breakage	✓	✗	✗	✓
	Blockage	✗	✗	✗	✓
Detection after Ejection	Leakage	✗	✓	✗	✓
	Breakage	✗	✓	✗	✓
	Blockage	✗	✓	✗	✓
Measure, record & generate alarm	Flow rate	✗	✗	✗	✓
	Temperature	✗	✗	✗	✓
Operator Independent		✗	✓	✓	✓
Predictive Information		✗	✗	✗	✓
Connection with non Raga Jet cooling machine		✓	✗	✓	✓

MOLD COOLING OPTIMIZATION DEVICES / SPARES

Item Name	Ordering Code	Image	Description	MOQ.
One touch fitting	A-01-04 A-01-06 A-01-08 A-02-04 A-02-06 A-02-08		For Ø4 mm hose Pipe & Rc 1/8 spot cooler thread. For Ø6 mm hose Pipe & Rc 1/8 spot cooler thread. For Ø8 mm hose Pipe & Rc 1/8 spot cooler thread. For Ø4 mm hose Pipe & Rc 1/4 spot cooler thread. For Ø6 mm hose Pipe & Rc 1/4 spot cooler thread. For Ø8 mm hose Pipe & Rc 1/4 spot cooler thread.	10 No's 10 No's 10 No's 10 No's 10 No's 10 No's
Hose adapter male	HAM-014 HAM-038 HAM-012 HAM-034 HAM-100 HAM-114		Both side male thread Rc 1/4 " Both side male thread Rc 3/8 " Both side male thread Rc1/2 " Both side male thread Rc 3/4 " Both side male thread Rc 1 " Both side male thread Rc 1 1/4 "	10 No's 10 No's 10 No's 10 No's 10 No's 10 No's
Fluid diverting joint	FDJ-012		To use on Manifold for HVCU connection of water and Air purge for Hose size 1/2"	1No 1No 1No
Rubber hose Ø7mm	HB07		Outer Ø14.2 mm, Inner Ø7.1 mm	10 Mtrs
Copper pipe	COP-43 COP-64 COP-86		Outer Ø4 mm, ID-3MM Outer Ø6 mm, ID-4MM Outer Ø8 mm, ID-6MM	10 Mtrs 10 Mtrs 10 Mtrs
Fluoropoly tube	FPT-04-2.5-BL FPT-04-2.5-RE FPT-04-2.5-BK FPT-06-4.0-BL FPT-06-4.0-RE FPT-06-4.0-BK FPT-08-6.0-BL FPT-08-6.0-RE FPT-08-6.0-BK		Outer Ø4 mm and Inner Ø2.5 mm ; Color -Blue (translucent) Outer Ø4 mm and Inner Ø2.5 mm ; Color -Red (translucent) Outer Ø4 mm and Inner Ø2.5 mm ; Color -Black (translucent) Outer Ø6 mm and Inner Ø4 mm ; Color -Blue (translucent) Outer Ø6 mm and Inner Ø4 mm ; Color -Red (translucent) Outer Ø6 mm and Inner Ø4 mm ; Color -Black (translucent) Outer Ø8 mm and Inner Ø6 mm ; Color -Blue (translucent) Outer Ø8 mm and Inner Ø6 mm ; Color -Red (translucent) Outer Ø8 mm and Inner Ø6 mm ; Color -Black (translucent)	10 Mtrs 10 Mtrs 10 Mtrs 10 Mtrs 10 Mtrs 10 Mtrs 10 Mtrs 10 Mtrs 10 Mtrs
Mounting bracket 1	BTM-MB-01		For Block Type Manifold	1No
Mounting bracket 2	VFM-MB-01		For Visual Flow Manifold	1No
Revolving ball	VFM-MB-01		For Visual Flow Manifold	1No
O-ring	VFM-O-01		For Visual Flow Manifold Sealing	10 No's
Acrylic board	VFM-AB-02 VFM-AB-08 VFM-AB-10 VFM-AB-16		For Visual Flow Manifold -02 For Visual Flow Manifold -08 For Visual Flow Manifold -10 For Visual Flow Manifold -16	1 No 1 No 1 No 1 No

HIGH LIFE MOLD & INJECTION CONSUMABLES

RAGA
JET COOLER

Facilitates high pressure water & air into thin channels and slender holes of core pins during casting processes.

Important part of the Jet cool system to reduce shrinkage porosities.

Easy to Install & long life.

Improved material and design gives higher life.

Available in 4 variants & with quick delivery.

RAGA
JET COOLER

Application

Jet Cooler JCO with Core Pin

Jet Cooler JCT with Core Pin

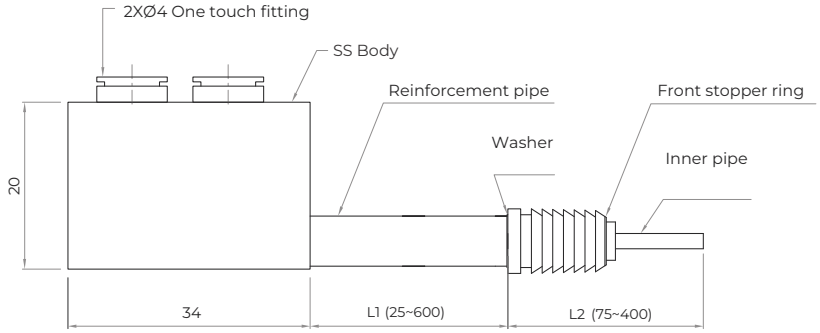
Jet Cooler JCS with Core Pin

Jet Cooler JCR with Core Pin

Jet Cooler JCP with Insert

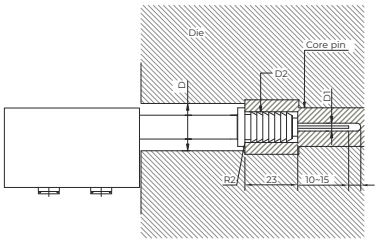
RAGA
JET COOLER

Sleeve Type (JCS)

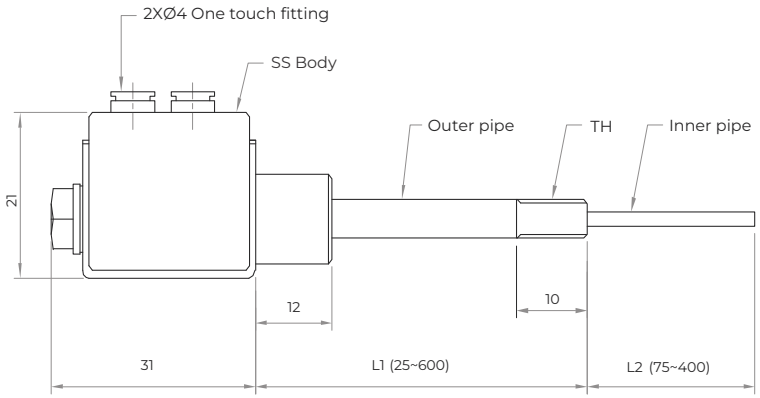


Outer Pipe		Inner Pipe		Reinforcement	Hole for	Die Hole	Pin Hole
OD	ID	OD	ID	Pipe (ID)	Packing (D2)	D	D1
4	2	1.2	0.85	6.4	10	14	~2.5
6	3	1.2	0.85	6.4	13	17	~3
		1.8	1.35				
8	4	1.8	1.35	11	13	17	~4.5
		2.3	1.88				

Recommended size

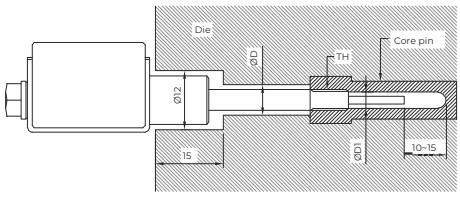


Roto Type (JCR)



Outer Pipe		Inner Pipe		JCR Outer Pipe	Die Hole	Hole Dia
OD	ID	OD	ID	Thread TH	D	D1
4	2	1.2	0.85	M4X0.7	8	2
6	3	1.2	0.85	M6X1	10	3.5
		1.8	1.35			
8	4	1.2	0.85	Rc1/16	12	4.5
		1.8	0.35			
		2.3	1.8			
10	4	2.3	1.8	Rc1/8	12	4.5

Recommended size

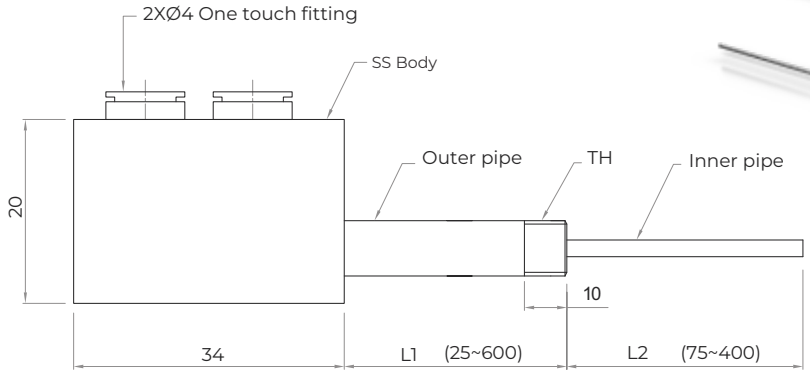


ORDERING CODE

Part Type	Outer Pipe (OD)	Inner Pipe (OD)	L1	L2
JCS/JCR	6	1.8	50	210

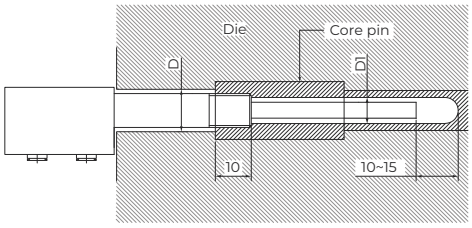
RAGA
JET COOLER

Thread Type (JCT)

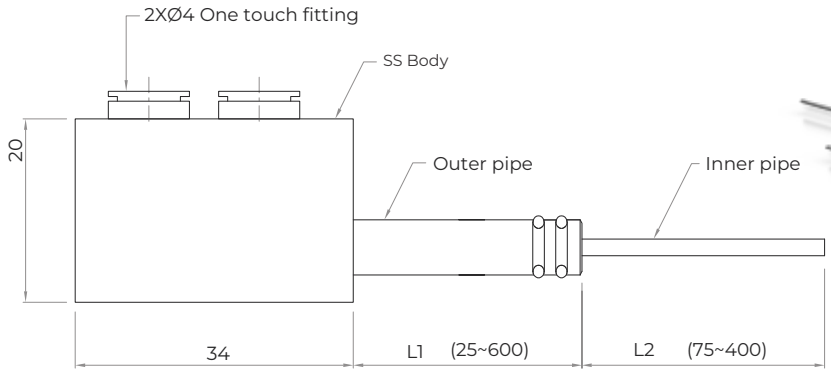


Outer Pipe		Inner Pipe		Die Hole	Pin Hole	JCT Outer Pipe Thread
OD	ID	OD	ID	D	D1	TH
4	2	1.2	0.85	8	~2	M4X0.7
6	3	1.2	0.85	10	~3	M6X1
		1.8	1.35			
8	4	1.8	1.35	12	~4.5	1/16 PT
		2.3	1.8			
10	5	1.8	1.35	13	~6	1/8 PT
		2.3	1.8			
		2.8	2.3			

Recommended size

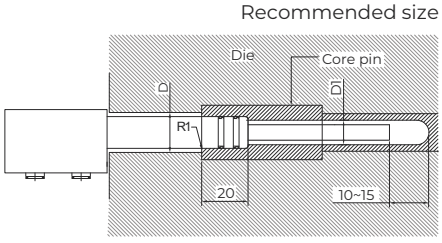


O-Ring Type (JCO)



Outer Pipe		Inner Pipe		Die Hole	Pin Hole	JCO O Ring	
OD	ID	OD	ID	D	D1	Used	Dia
4	2	1.2	0.85	8	~2	NA	
6	3	1.2	0.85	0	~3	S4	6.3
		1.8	1.35				
8	4	1.8	1.35	2	~4.5	S6	8.2
		2.3	1.8				
10	5	1.8	1.8	13	~6	P7	10.2
		2.3	1.8				
		2.8	2.3				

Recommended size



ORDERING CODE

Part Type	Outer Pipe (OD)	Inner Pipe (OD)	L1	L2
JCT/JCO	6	1.8	50	210

RAGA COREPIN

Reduce breakdown by use of long life RAGA core pin.

Core pins used to create holes in die casting are fitted & part of a die casting mold.

Precisely machined and ground custom pins are made from high quality DIN 1.2344/AISI H-13.

Vacuum Heat treatment, nitriding & coating enhances life of the core pins.

RAGA
JET COOLED CORE PIN

Jet cooled (JC) core pins are an integral &
most important part of the jet cool system.
Casters prefer RAGA JC Core pins
for their life and deep hole concentricity.
Custom made pins go through stringent quality
checks to ensure straightness of holes & dimensions.
Surface treatments like Nitriding &
coating ensures higher life.

FEATURES

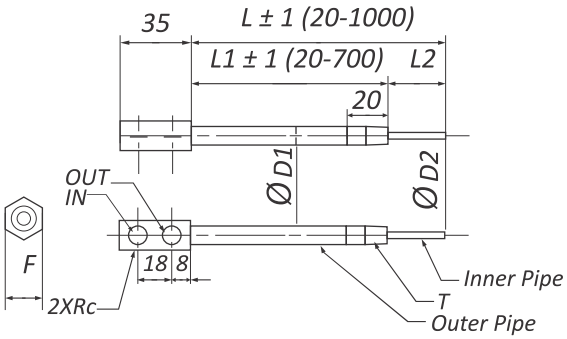
Hole: Min Dia 2.5mm & Max length 600mm
Casting Dia: Min 4.5mm, Coating options available

RAGA
SPOT COOLER

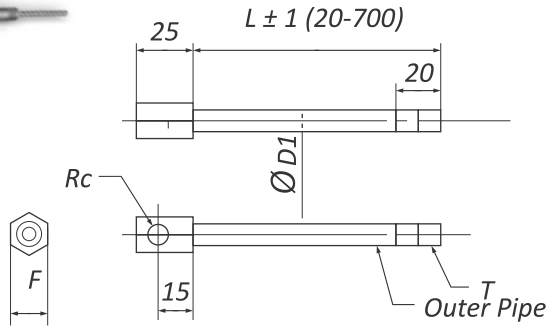
Minimise mold breakdown and maintenance time using
RAGA SPOT COOLERS.
Standard options for customised needs
keeps mold thermally balanced.
Stainless steel option gives high life
against poor water quality.
Easy installation for both thread type & O-ring types.
Design ensures strength against breakage or bending.
Options for rotatable head &
hose connection gives flexibility to use.

RAGA
SPOT COOLER

Thread Type SCT



SCT-W2



SCT-W1

Characteristics

·W1 is 1-way and W2 is 2-ways.
·All units are in MM.

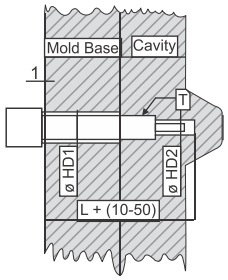
Working Condition

·Pressure- Max. 2MPA
·Fluid Temp.- > 150^{0}C

Material

Code	Head	Outer Pipe	Inner Pipe
M1	MS	MS	Copper
M2	SS	SS	SS

Installation dimm.



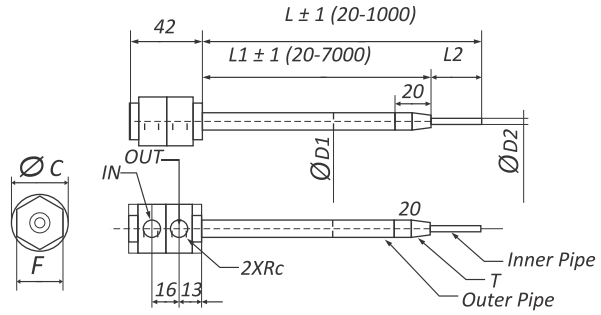
Size No.	Head		Outer Pipe		Inner Pipe		Thread	Hole Dimension	
	F (Acc. Flat)	RC (Thread)	D1 (ø Outer)	D1 (ø Inner)	D2 (ø Outer)	D2 (ø Inner)	T	HD1	HD2
1A	17	1/8	10.5	5.7	4.0	2.4	1/8	15	6
1B	24	1/4							
2A	19	1/8	13.8	7.8	6.0	4.0	1/4	17	8
2B	24	1/4							
3A	21	1/8	17.3	10.9	8.0	6.0	3/8	22	12
3B	29	1/4							
4A	24	1/8	21.7	16.1	10.0	8.0	1/2	26	16
4B	29	1/4							

ORDERING CODE

Part Type	Material	Size	L	L1*
SCT-W2	M2	2A	378	321
SCT-W1	M1	3B	377	

RAGA
SPOT COOLER

Thread Type Rotating Head SCT-R



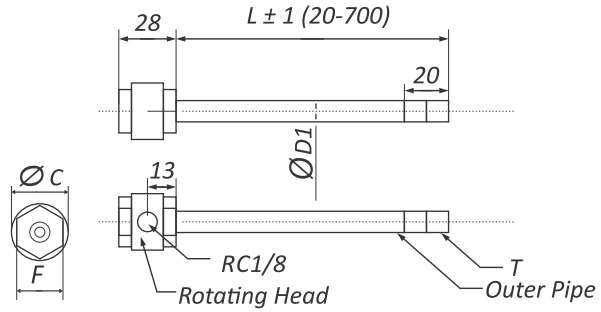
Characteristics

·W1 is 1-way and W2 is 2-ways.
·All units are in MM.

Working Condition

·Pressure- Max. 2MPA
·Fluid Temp.- > 150°C

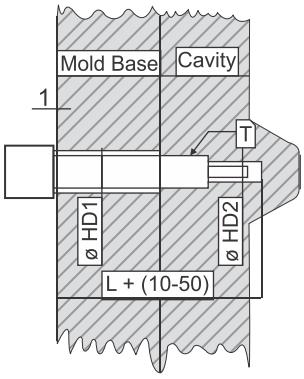
SCT-R-W2



Material

Code	Head	Outer Pipe	Inner Pipe
M1	MS	MS	Copper
M2	SS	SS	SS

Installation dimm.



SCT-R-W1

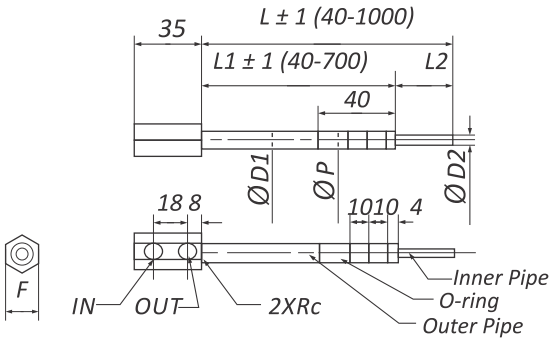
Size No.	Head			Outer Pipe		Inner Pipe		Thread	Hole Dimension	
	F (Acc. Flat)	C (ø Head)	RC (Thread)	D1 (ø Outer)	D1 (ø Inner)	D2 (ø Outer)	D2 (ø Inner)	T	HD1	HD2
1	24	30	1/8	10.5	5.7	4.0	2.4	1/8	15	6
2			1/8	13.8	7.8	6.0	4.0	1/4	17	8
3			1/8	17.3	10.9	8.0	6.0	3/8	22	12

ORDERING CODE

Part Type	Material	Size No.	L	L1*
SCT-R-W2	M2	2	385	350
SCT-R-W1	M1	3	413	

RAGA
SPOT COOLER

O-Ring Type SCO



Characteristics

·W1 is 1-way and W2 is 2-ways.
·O2 is 2-O rings and 03 is 3-O rings.
·For W1 only O3 available.
·All units are in MM.

Working Condition

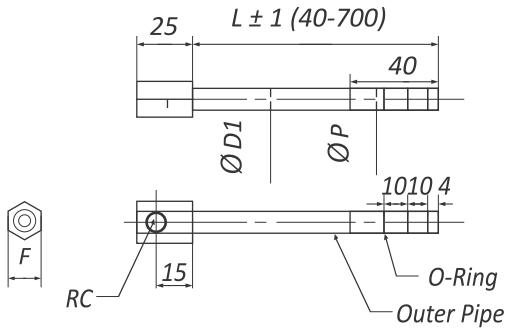
·Pressure- Max. 2MPA
·Fluid Temp.- > 150°C

SCO-W2

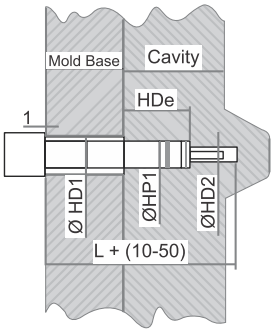
Material

Code	Head	Outer Pipe	Inner Pipe
M1	MS	MS	Copper
M2	SS	SS	SS

SCO-W1



Installation dimm.



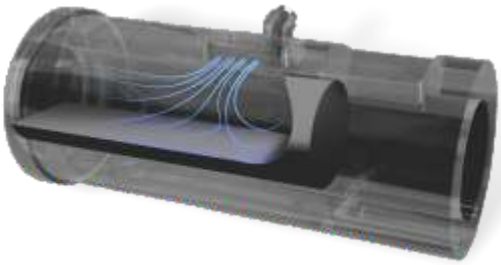
Size No.	Head		Outer Pipe			Inner Pipe		Hole Dimension			
	RC Thread	RC Thread	D 1 (ø Inner)	d 1 (ø Inner)	P (ø Inner)	D 2 (ø Inner)	d 2 (ø Inner)	HP1	H1D	HD2	HDe
1A	17	1/8	10.5	5.7	4.0	2.4	2.4	$11^{+0.05}$	15	6	30
1B	24	1/4									
2A	19	1/8	13.8	7.8	6.0	4.0	4.0	$13^{+0.05}$	17	8	
2B	24	1/4									
3A	21	1/8	17.3	10.9	8.0	6.0	6.0	$18^{+0.05}$	22	10	
3B	29	1/4									
4A	24	1/8	21.7	16.1	10.0	8.0	8.0	$22^{+0.05}$	26	12	
4B	29	1/4									

ORDERING CODE

Part Type	Outer Pipe (OD)	Inner Pipe (OD)	L	L1*
SCO-03-W2	M2	2A	378	321
SCO-03-W1	M1	3B	377	

RAGA
SHOT SLEEVE

Long life RAGA SHOT SLEEVES come in fully or
partially cooled with one or two part options.
High quality AISIH-13/DIN1.2344 is precisely machined, ground,
hardened & Nitrided.



RAGA
VACCUM SHOT SLEEVE

Casters have effectively used RAGA VACUUM SHOT SLEEVE
to minimise porosiites around gate area.
RAGA's twin stage VACUUM SYSTEM gets connected to this sleeve and the mold.
Air is extracted from the shot sleeve via 4 wide
cross-section path during the first phase of injection.

RAGA
PLUNGER TIP

RAGA PLUNGER TIP reduces
breakdown time due to plunger tip change.
Made with high quality AISIH-13/DIN1.2344,
it gives multiple times more life than cast iron.
Precisely machined & grounded.
Results in higher sleeve life.

RAGA
SPRUE BUSH & DIFFUSER

Refined material structure and heat treatment makes SPRUE BUSH & DIFFUSER more durable.

High quality AISI H-13/DIN 1.2344 is precisely machined, ground, hardened & Nitrided.

With options of integral/jacket/conformal cooling makes it thermally balanced.

Diffuser is ground blue matched with thermal clearances.

RAGA
LPDC NOZZLE

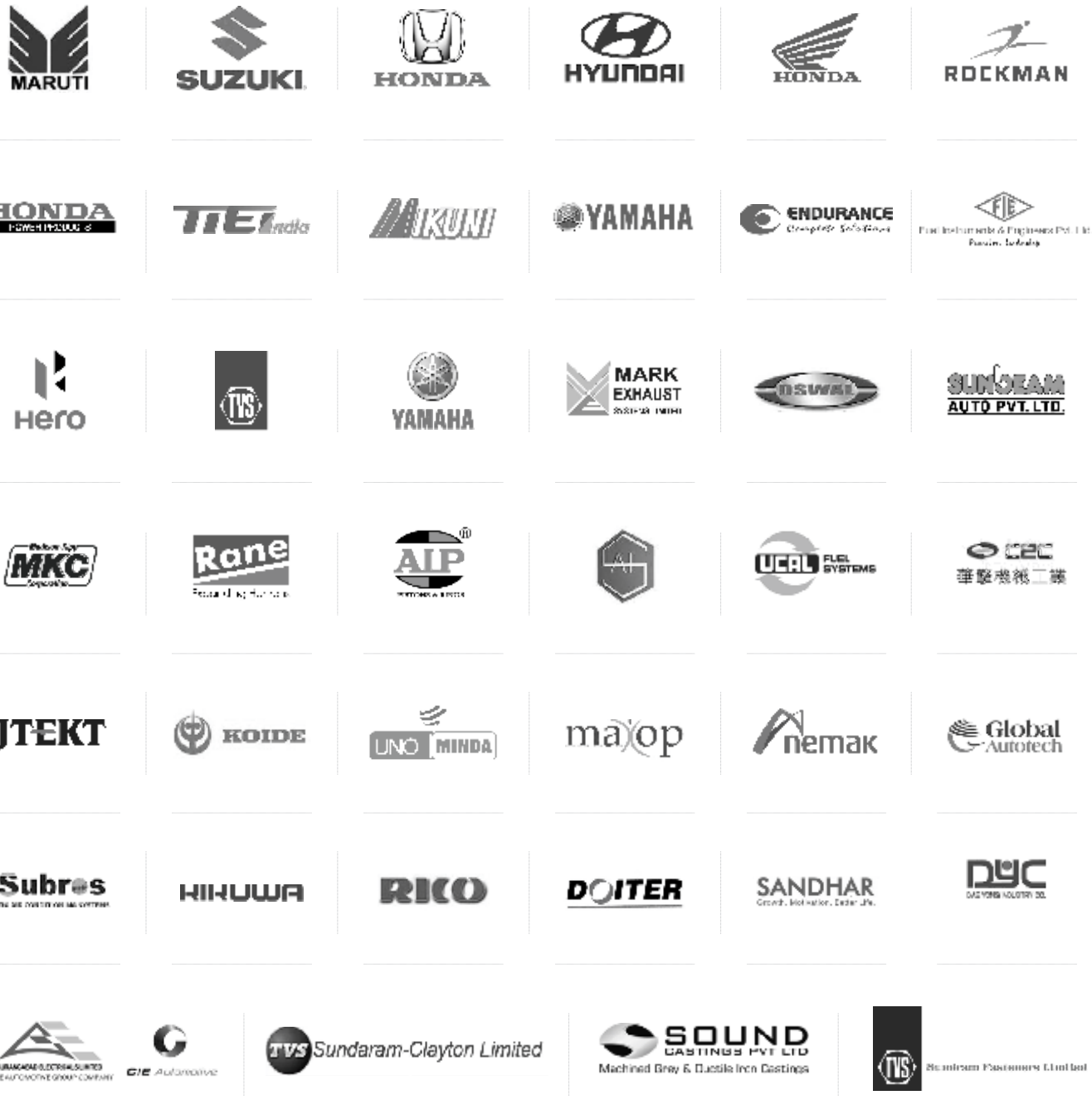
Custom profiled RAGA LOW PRESSURE DIE CASTING NOZZLES have been used & appreciated by die casters.

Nozzles increase mold life & decreases production downtime.

Precisely machined and polished surfaces ensures effective flow of molten aluminum into a LPDC mold.

High quality AISI H-13/DIN 1.2344 hardened to specifications gives high life.

CLIENTELE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HONDA
HYUNDAI
HONDA
ROCKMAN
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Raga's line of products is developed based on
close analysis of the die casting process and
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This has helped us deliver innovative products
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