HIGH VELOCITY COOLING TECHNOLOGY

Case Transmission

Tonnage	1250 Ton
No. of Cavity	1 no.
Material	Aluminium
Problem Area	Pressure Leakage
Result	Greatly reduced after using our HVCU System

Engine Case Cover

Tonnage	350 Ton
No. of Cavity	1 no.
Material	Aluminium
Problem Area	Soldering Effect & Shrinkage Porosity
Result	Defects reduced to a great extent [11% to 5.5%]

Meter Body

Tonnage	670 Ton
No. of Cavity	1 no.
Material	Aluminium
Problem Area	Shrinkage
Result	Greatly reduced after using our HVCU System from 30% to only 9% rejection

Timing Case Cover

Tonnage	670 Ton
No. of Cavity	1 no.
Material	Aluminium
Problem Area	Shrinkage
Result	Greatly reduced after using our HVCU System from 30% to only 9% rejection

Cap Cam Shaft

Tonnage	1250 Ton
No. of Cavity	1 no.
Material	Aluminium
Problem Area	Pressure Leakage
Result	Greatly reduced after using our HVCU System


RAGA
VACMAX
VACUUM
TECHNOLOGY

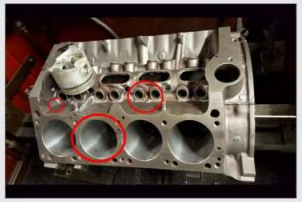
Case Oil Pump

Tonnage	1100 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Porosities & Blowholes
Result	Porosity reduce by 18% to 4% Blowhole reduce by 26% to 2%

Case Transmission

Tonnage	850 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Porosities & Blowholes
Result	Porosity reduced from 33% to 7% Blowhole reduced from 15% to 3%

Cylinder Block

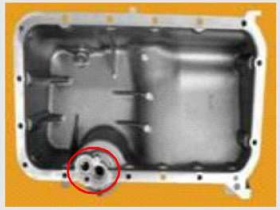


Tonnage	1650 & 2500 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Porosities & Blowholes
Result	Rejection before using Vacuum System: 0.64% Rejection after using Sleeve Vacuuming: 0.14%

Trans-axle

Tonnage	1250 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Porosities & Blowholes
Result	Porosity reduced from 25% to 5% Blowhole reduce from 19% to 3%

Oil Tank



Tonnage	850 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Porosities
Result	Porosity greatly reduced from 22% to 8%

Cylinder Block

Tonnage	1650 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Porosities
Result	Porosity reduced from 11% to 4%

CASE STUDIES - VACUUM

Cap Cam Shaft

Tonnage	530 Ton
No. of Cavity	2
Material	Aluminium
Problem Area	Porosity
Result	Porosity reduced from 22% to 5%

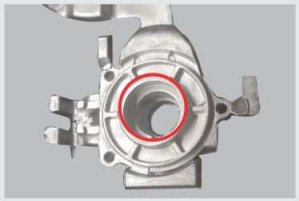
Brake System

Tonnage	350 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Blowholes after 2 cuts
Result	Reduced from 22% to 8%

Filter Housing

Tonnage	530 Ton
No. of Cavity	2
Material	Aluminium
Problem Area	Porosity
Result	Porosity reduced from 12% to 3%

Brake Oil Cover



Tonnage	530 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Porosity
Result	Porosity reduced to a great extent from 35% to only 6%

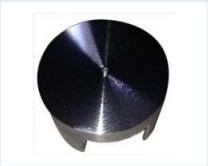
Brake System

Tonnage	530 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Porosity
Result	Porosity reduced to a great extent from 35% to only 6%

Clutch Cover

Tonnage	350 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Blowhole
Result	Reduced from 38% to only 9%

Piston

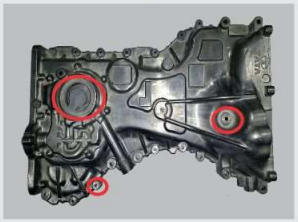


Tonnage	250 Ton
No. of Cavity	4
Material	Aluminium
Problem Area	Gas Porosites & Blowhole
Result	Reduced from 11% to 8%

Gd Cover

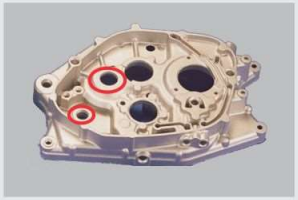
Tonnage	11000 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Porosites & Blowhole
Result	Reduced from 23% to 7%

Aisin Body



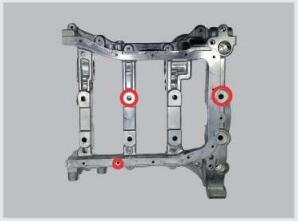
Tonnage	1100 Ton
No. of Cavity	4
Material	ADC12
Problem Area	Porosity and Blowhole
Result	Reduced from 23% to 7%

Crank Case



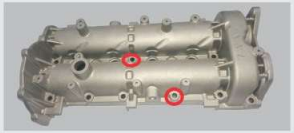
Tonnage	650 Ton
No. of Cavity	4
Material	Aluminium
Problem Area	Gas Porosities & Blowhole
Result	Reduced from 24% to 10%

Bed Plate



Tonnage	250 Ton
No. of Cavity	4
Material	Aluminium
Problem Area	Gas Porosites & Blowhole
Result	Reduced from 11% to 8%

Cam Carrier



Tonnage	1250 Ton
No. of Cavity	1
Material	Aluminium
Problem Area	Gas Porosities & Blowhole
Result	Reduced from 18% to 8%