



Growing Beyond Boundaries

A Pioneer of Class 6-8 Automotive Flywheels

Engineered for Excellence

Backed by an expertise of four decades, we have mastered single mass and dual mass automotive flywheels like no other.

With three foundries in India, we are one of the leading manufacturers of all grades of Cast (Grey) Iron and Ductile (SG) Iron Castings.

We supply our products globally to renowned customers like Bosch, ZF Group, John Deere, Amazon and Hydac and more.

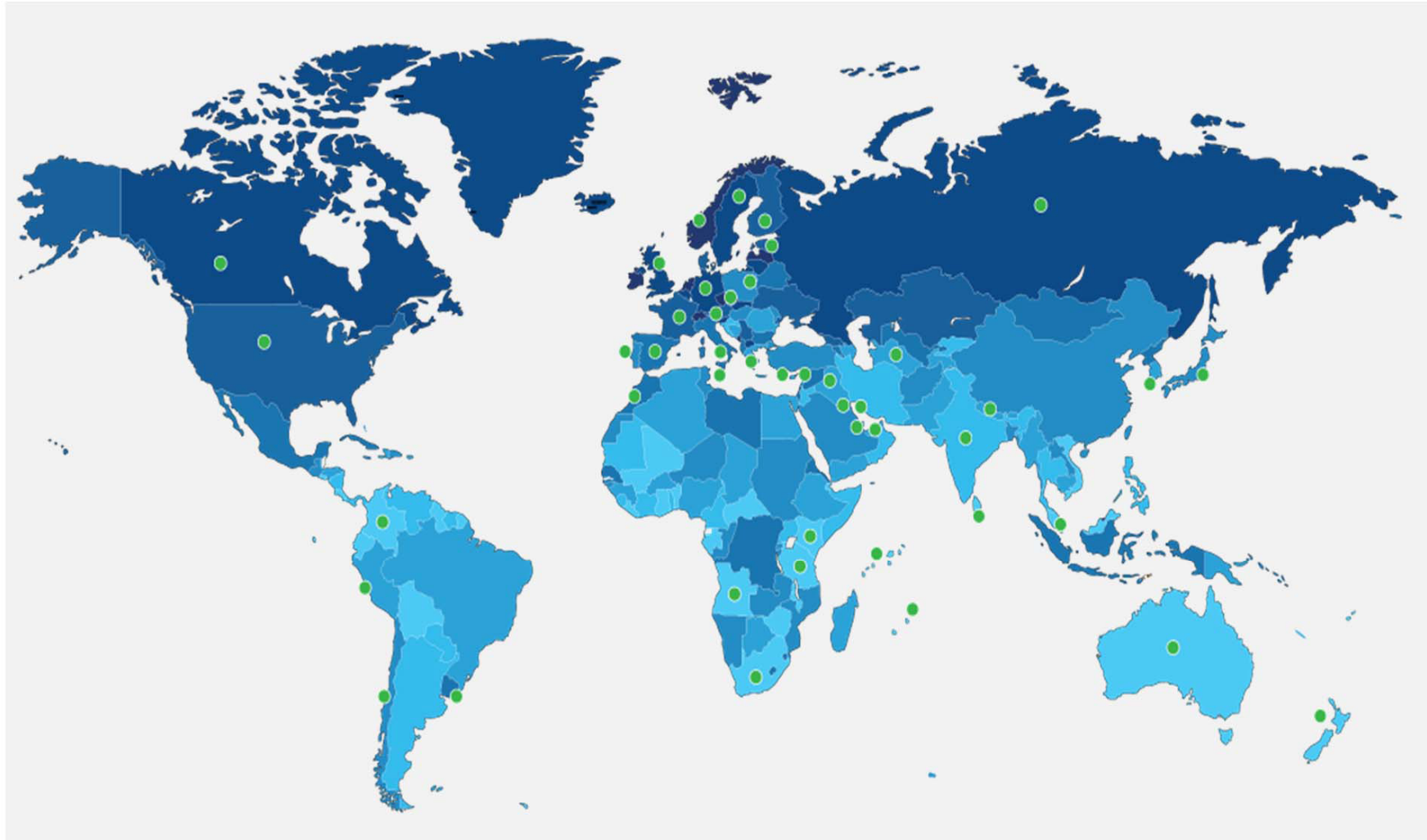
Specialised Casting Unit

We have a Industrial casting specialized High Pressure Horizontal Moulding Line of Sinto in Vadodara, India.



Growing Beyond Boundaries

Our Presence



Currently, we are present in
**over
5 continents**
and export to nearly
50 countries
across the globe.

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Our Standards

High Quality Cast Iron Foundries Certified By Global Standards

- We are one of the only foundries who compete with GATIC in making manhole covers for airports.
- We also manufacture fully finished Grey Cast Iron, GF-25 Castings for various applications.
- We are the first from India to have a High Pressure Molding line Sinto flex to make flywheels with a capacity of :
 - **25000 Metric Ton. Per Annum**
 - **Box size of 700mm x 600mm x 180~250mm**
 - **Moulding speed of 171 moulds/hr**
 - **The weight upto 50 kgs**

Crescent Foundry is a
IATF 16949:2016, ISO 9001:2015,
ISO 14001:2015, ISO 18001,
TS 16494 & PED certified company.



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For efficient storage of rotational energy & moderation of gaps in power delivery to an engine

The flywheel also provides one of friction surfaces for the clutch, and is often weighted to provide balance to the crankshaft.



We Offer



Single Mass Flywheel



Dual Mass Flywheel

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Single Mass Flywheel



- Made of a single, heavy cast piece of steel or metal
- Provides a direct contact between the clutch assembly and the engine
- Has greater thermal and warp resistance
- Can be resurfaced to improve durability
- Has no moving piece

Application Areas:

Single mass flywheels are cheaper to buy, and allow for quicker engine revving; they are therefore suitable for frequent engine speed and gear change conditions, such as racing engines or off-road driving.

Dual Mass Flywheel



- Consists of two flywheels, one attached to the crankshaft and the other to the clutch
- Reduces noise and vibration
- Improves fuel efficiency by efficient use of engine power
- Has a monthly capacity of 5000 tons
- Has a weight capacity of 3kg-50kg

Application Areas:

A Dual Mass Flywheel is primarily used in larger vehicles, especially those fitted with a diesel engine and a manual transmission; however, they can also be found in certain petrol cars as well.

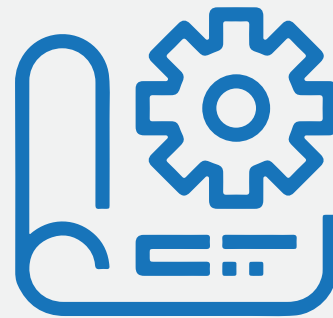
Futuristic Infrastructure

DESIGN



Qualified designers using CAD to make various drawings required for pattern making, core boxes, jigs and fixtures, machining, finishing and inspection.

MANUFACTURING



Five CNC machines and routers to manufacture patterns in-house.

PRODUCTIONISING



Each factory has a team which takes the pattern, follows and fine tunes the process and develops samples as per our customer's requirements.

Growing Beyond Boundaries

In-house Machining Shop



TATA TAL



LMW LX20TL5



BFW Agni 45 TC24



BFW Prima 55



6 Axis - Liebherr LC380



CNC Induction Hardening



ZEISS - CMM Machine



CNC - Balancing Machines



Flex-plate - Assembly Line



Multi-Guaging System

Growing Beyond Boundaries

Our Facilities



Floor Moulding and Jolt & Squeeze



High Pressure Moulding



Vacuum Moulding



Fabrication



Testing

Growing Beyond Boundaries

THANK YOU

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