



VYANKATESH ENGINEERING

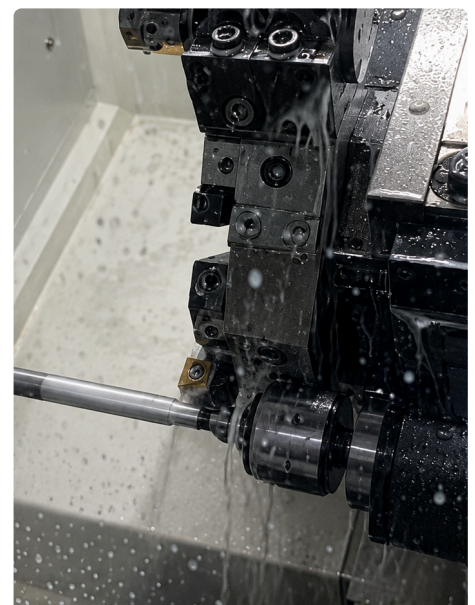
**PRODUCT
CATALOGUE**

PRECISION DIE & TOOLING MANUFACTURER



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ABOUT US

Established in 2004, Vyankatesh Engineering has grown to become a leading manufacturer of precision tools, dies, and casting accessories. Based in Chhatrapati Sambhajnagar (Aurangabad), Maharashtra, we specialize in high-quality core pins, inserts, and die blocks for the die-casting industry.

Our commitment to quality, continual innovation, and rigorous manufacturing standards has earned us the trust of major automotive and industrial clients across India. With a state-of-the-art facility spanning over 7,500 sq ft, we handle complete processes from raw material to heat treatment, nitriding, and final coating.



INFRASTRUCTURE & QUALITY

MACHINING

- VMC (Vertical Machining Centers)
- CNC Turning Centers
- EDM & Wire Cut
- Surface Grinding



QUALITY CONTROL

- CMM (Coordinate Measuring Machine)
- Profile Projector
- Hardness Testers
- Surface Roughness Testers



1) VMC MANUFACTURING

1. ALL TYPES ALUMINIUM PROTO .
2. ALL TYPE ALUMINIUM DIE CASTING INSERT.
3. ALL TYPE PROFILE CORE PIN.



1) DIE CASTING CORE PIN AND CAVITY MFG

1. ALL TYPES CORE PIN'S WITH PVD COATING.
2. ALL TYPE SLEEVE.
3. SPRUE BUSH.



PINS RANGE



PINS

CORE PIN

Core pins used to create holes in diecasting are fitted & part of a diecasting 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. Reduce breakdown by use of long life VYANKATESH core pin.

MATERIAL	DIN 1.2344 / AISI H-13
TREATMENT	Vacuum Heat treatment, nitriding & coating
FEATURES	Long life, reduced breakdown



PINS

JET COOL CORE PIN

Jet cooled (JC) core pins are an integral & most important part of the jetcool system. Casters prefer VYANKATESH 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.

HOLE	Min Dia 3 mm & Max length 600 mm
CASTING DIA	Min 4.5 mm
TREATMENT	Nitriding & coating options available



PINS

JET COOL PROFILE PIN

High-precision jet cooled profile pins engineered for specific molding applications, delivering efficient heat dissipation for complex geometries.

TREATMENT	Nitriding & coating options available
QUALITY	High dimensional accuracy and profile matching



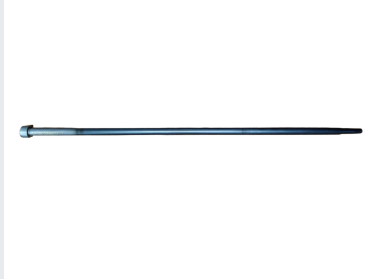
Jet Cooler with Core Pin

PINS

JET COOL PROFILE CORE PIN

Combined profile and core pin features with integrated jet cooling, providing maximum performance for challenging high-pressure die casting zones.

TREATMENT	Nitriding & coating options available
COOLING	Integrated jetcool system



PINS

LONG JET COOL CORE PIN

Extra long jet-cooled core pins engineered for deep cavities. These pins ensure optimized thermal balance reaching deep into the mold, significantly reducing shrinkage porosities in hard-to-reach areas.

DESIGN	Extra long configuration
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COOLING	Deep channel jet cooling
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TREATMENT	Hardened & Nitrided
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COOLING SYSTEMS RANGE



COOLING SYSTEMS

JET COOLER

Facilitates high pressure water & air into thin channels and slender holes of core pins during casting process. Important part of the Jetcool system to reduce shrinkage porosities. Easy to Install & long life. Improved material and design gives higher life. Available in 4 variants & with quick delivery.

VARIANTS	Available in 4 variants
FUNCTION	Reduces shrinkage porosities
INSTALLATION	Easy to install



COOLING SYSTEMS

COPPER CHILLS

High-conductivity copper chills for localized rapid cooling in die casting dies. These chills prevent hot spots, improve directional solidification, and enhance the overall structural integrity of the casting.

MATERIAL	High-conductivity Copper
FUNCTION	Rapid localized cooling
BENEFIT	Prevents hot spots and shrinkage

INSERTS RANGE



INSERTS

PROFILE INSERTS

Use high grade material and heat treatment makes loose inserts more durable & long life. High quality AISI H-13/DIN 1.2344 is precisely machined, ground, hardened & Nitrided. We specialize in loose piece manufacturing starting from raw material, with complete processes including machining, hardening, and coating. Precision, consistent quality, and on-time delivery define our manufacturing strength.

MATERIAL	AISI H-13 / DIN 1.2344
PROCESS	Machined, ground, hardened & Nitrided
CAPABILITIES	Raw material to finished coating

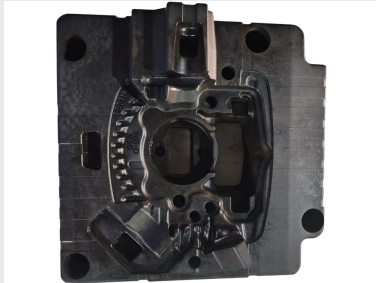


INSERTS

HPDC INSERT

High-grade loose and fixed High-Pressure Die Casting (HPDC) inserts designed for durability and extended life. Precision machined from premium AISI H-13/DIN 1.2344 steel, hardened and Nitrided to withstand the rigorous thermal and mechanical stresses of the HPDC process.

MATERIAL	AISI H-13 / DIN 1.2344
TREATMENT	Hardened & Nitrided
PROCESS	Precision machining & grinding



INSERTS

PROTOTYPE INSERT

Rapidly developed prototype inserts for design validation, testing, and short-run casting. We offer fast turnaround times without compromising on dimensional accuracy or material quality.

MATERIAL	AISI H-13 / DIN 1.2344
TURNAROUND	Fast-track manufacturing
USAGE	Design validation and short runs

CASTING ACCESSORIES RANGE



CASTING ACCESSORIES

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.

MATERIAL	AISI H-13 / DIN 1.2344
COOLING OPTIONS	Integral / jacket / conformal cooling
TREATMENT	Machined, ground, hardened & Nitrided



CASTING ACCESSORIES

SHOT SLEEVE

Long life VYANKATESH SHOT SLEEVES come in fully or partially cooled with one or two part options. High quality AISI H-13/DIN 1.2344 is precisely machined, ground, hardened & Nitrided. Thermally balanced sleeve improves performance and quality of casting. Continual improvements in finishes and treatment work towards giving a caster value for money.

MATERIAL	AISI H-13 / DIN 1.2344
OPTIONS	Fully or partially cooled, 1 or 2 part options
TREATMENT	Machined, ground, hardened & Nitrided



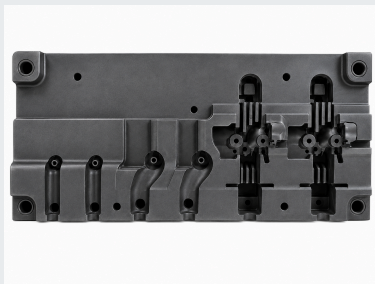
CASTING ACCESSORIES

SIDE CORE HOLDER

Precision machined side core holders designed for robust mounting and precise alignment of side cores in complex die casting dies. Manufactured from high-grade steel to withstand rigorous mechanical stress.

MATERIAL	Premium Tool Steel
FEATURES	High structural integrity, precise alignment
PROCESS	CNC Machined & Ground

DIES RANGE

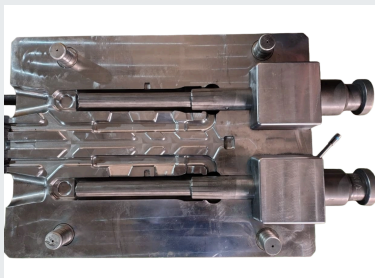


DIES

LPDC DIE

Low-Pressure Die Casting (LPDC) dies engineered for high-integrity aluminum castings. Manufactured from premium tool steels with precise thermal management capabilities to ensure optimal directional solidification and superior casting quality.

MATERIAL	Premium Hot Work Tool Steel (AISI H-13 / DIN 1.2344)
TREATMENT	Specialized Heat Treatment & Nitriding
FEATURES	Optimized thermal balance, extended mold life



DIES

GDC DIE

Gravity Die Casting (GDC) dies designed for robust, long-lasting performance in high-volume aluminum casting. Precision machined and thermally balanced to ensure consistent casting quality and reduced cycle times.

MATERIAL	Premium Tool Steel (AISI H-13 / DIN 1.2344)
TREATMENT	Vacuum Hardened & Nitrided
FEATURES	Excellent thermal fatigue resistance, precise blue matching



GET IN TOUCH

WORK ADDRESS

C-106, Waluj MIDC,
Chhatrapati Sambhajinagar,
Maharashtra, India

REGISTERED ADDRESS

C-252/3, Waluj MIDC,
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Maharashtra, India

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BUSINESS HOURS

Monday - Saturday:
9:00 AM - 6:00 PM
Sunday: Closed



