VETAL

THE TECH - *Knowledge* COMPANY

COMPANY CATALOGUE · 2026 EDITION

EST. 1983 · ISO 9001 CERTIFIED · COIMBATORE, SOUTH INDIA

INSPECTION. DETECTION. SORTING.

For 43 years, VETAL has engineered machine-vision equipment that removes contamination, metal, fire and foreign matter from cotton and food-grain lines — protecting product quality and production uptime for mills worldwide.



VT/01 · RAPPID SCAN — FLAGSHIP CONTAMINATION CLEANER

43
YEARS OF EXPERIENCE

1200+
SCAN INSTALLATIONS

1000+
RICE-SORTER SITES

26
PRODUCTS · 3 SECTORS

WHO WE ARE

Matching imported technology — without the import.

VETAL was established because of a small import-substitution order for a photocell unit for carding. The challenge in 1983 was to match imported products in technology and reliability while remaining economical — without heavy foreign-exchange expense. VETAL met it, and has since grown into a technology-driven electronics group solving detection and sorting problems for cotton spinning and food processing, with installations across India, Southeast Asia and the former Soviet republics.

ISO 9001 : 2000 | FOUNDED 1983 · IIT KANPUR PEDIGREE | MADE IN COIMBATORE, INDIA

43	1200+	1000+	100
YEARS OF EXPERIENCE	SCAN INSTALLATIONS	RICE-SORTER SITES	EMPLOYEES · 40+ ENGINEERS

OUR MISSION

Continuous innovation to keep up with the demands of the textile-electronics and food-grain industries in inspection and sorting — at both the raw-material and finished-product ends — to satisfy the needs of the immediate consumer.

OUR VISION

To develop and bring technological products and solutions of our own, and collaborate with worldwide industry leaders on local application — improving end-product quality and value to achieve profit and sustainability.

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THE TRAVEL SO FAR

Four decades of indigenous engineering.

1983

Founded

Established by R. Venkatesan, a technocrat from IIT Kanpur, on the back of a small import-substitution order for a photocell unit for carding.

1983 – 1991

Indigenised infrared technology

Developed advanced products for cotton-to-yarn preparation, including broken-sliver detection and hopper-level sensing stop-motion units.

1992 – 1999

Spark and metal detection

Spark detector for pneumatically conveyed cotton, fire-trap protection, and electronic metal detection to minimise machine damage from impurities.

2001 – 2005

Diversification into general industry

Launched token display systems, security recorders and smoke detectors for broader industrial and commercial use.

2006 – 2012

Scale: VETAL SCAN and RICE SORTER

The flagship VETAL SCAN was implemented in 1200+ customer locations; the RICE SORTER was deployed at 1000+ sites for black-impurity removal.

2012 – 2020

RGB cameras and ultrasonic sensing

High-tech VETAL Scan and Rice Sorter with RGB cameras and ultrasonic technology improved process quality and replaced earlier-generation machines.

OUR PEOPLE

A team where 70% have stayed 20+ years.

HISTORY

It was a challenge in 1983 to match imported products in technology and reliability while staying economical. Today VETAL has emerged as a technology-driven company solving detection and sorting problems across cotton spinning and food processing.

MANAGEMENT

Founded by **R. Venkatesan**, an esteemed technocrat from IIT Kanpur. For over two decades, Managing Director **Raghuraam Raja** has steered the company toward remarkable innovation and growth.

TEAM

VETAL is run by **100 employees**; R&D, production and quality comprise more than **40 engineers**, with about 40 engineers staffing post-sales service centres across India and abroad.

INDUSTRIES SERVED

Three sectors. One discipline: purity of the line.

Indigenously developed by a team of electronics, embedded and software engineers averaging 20 years of experience — with three decades of design expertise in sensors, cameras, image processing and pneumatics.

IND / TEXTILE

Textile — Ginning · Spinning · Weaving

Sorting and detection equipment for contamination, metal and fire (spark) in cotton — for chute-feed blow rooms with carding, and for ginning.

IND / FOOD

Food Processing — Grain Milling

Universal colour sorters for grain milling, fruit sorting and X-ray inspection systems for food products, deployed at more than 1000 sites.

IND / GENERAL

General Industry

Photocell units, stop-motion units, chute sensors, motor protection and the VELTORS T-EYE thermal-imaging fire-safety system.

FLAGSHIP LINE

THE BLOW ROOM MASTER

World-class inspection, detection and sorting equipment designed to safeguard your production process with precision and reliability.

Contamination cleaning	RAPPID SCAN · SCAN SLANT
Metal detection	RMD
Spark, fire & smoke	BOFES · VECOS · VEDOS

FIELD RECORD — NAMEPLATE

VETAL SCAN installations	1200+ sites
Rice Sorter deployments	1000+ sites
Sensing technology	RGB + IR + Ultrasonic
Coverage	India · SE Asia · CIS
Certification	ISO 9001 : 2000

TEXTILE MACHINERY · GINNING · SPINNING · WEAVING

Guard every metre of your cotton line.

Indigenously developed by a team of electronics, embedded and software engineers averaging 20 years of experience — with three decades of design expertise in sensors, cameras, image processing and pneumatics.

RANGE · 14

VT/01



CONTAMINATION CLEANING

Rapid Scan

Flagship contamination cleaner: detects pneumatically conveyed cotton in the blow room and diverts coloured and white PP impurities. 1200+ installations.

- Color – RGB Line Scan CCD Camera for efficient color contamination removal.
- RGB Image processing assists in identifying the light color

VT/02



CONTAMINATION CLEANING

Scan Slant

Cotton contamination cleaning machine engineered for slant-duct installations in the blow-room line.

- UV – Line Scan CCD Camera for removing the UV reflective & non reflective White Polypropylene, White Wool and...
- System lit with UV Tubes creating environment of UV Online Inspection makes it feasible of detecting UV reflective...

VT/03



CONTAMINATION CLEANING

Ginning

“We occupy an important place between cotton & bale.” The most effective way to remove colour as well as white, transparent, PP and synthetic materials from cotton.

- Wide Scanning Area
- More Cameras & More Ejectors

VT/04



CONTAMINATION CLEANING

Texturon

Cotton contamination cleaning machine built for texturised and man-made fibre applications.

- Avail now the unique possibility of detection of objects by spectral response to feel the texture of the surface...
- The passing cotton if carries a white poly propylene impurity is undetected by the color modules .Sonic sensors...

TEXTILE MACHINERY · CONTINUED

VT/05



METAL EXTRACTION

RMD Metal Detector

"The key to challenge your metal impurity problems." The improved version even addresses rare non-ferrous impurities like copper and aluminium in the spinning...

- Improved Sensing Ability
- Increased S/N Ratio

VT/06



FIRE SAFETY

Fire Extraction Machine

Fire diversion system that senses and extracts burning material from the pneumatic line before it reaches downstream machinery.

- The Dust & Fire Extraction Machine is a Super Fast Automatic Diverter to trap and drive out the burnt materials...
- Available for 220 / 300 / 350 / 400 / 500/ 600 / 800 mm Dia

VT/07



FIRE SAFETY

BOFES

Bale Fire Extinguisher System — automated protection against fire at the bale end of the process.

- Automatic Spark Detection and Water jet Quenching for bales.
- Fire hazard in Spinning mills is widely prevalent due to high traveling speed of cotton in the ducts.

VT/08



FIRE SUPPRESSION

VECOS — CO_2 Flooding

Fire-suppression system using carbon dioxide to rapidly control and extinguish Class-B fires in the storage chambers of a textile mill.

- Rapid Fire Suppression: CO2 is a fast-acting extinguishing agent, making it effective for quickly controlling and...
- Suitable for Various Environments: CO2 systems are often

VT/09



FIRE SUPPRESSION

VEDOS — DCP System

Stored-pressure dry-chemical fire-suppressing system for waste-line filter systems in a textile mill.

- Fires that start in production machinery quickly spread to the Waste Filter Air System Machinery.
- Stones travelling in the waster Pipelines and fragments of Sediments of Soil may cause the Fire inside the Waste...

VT/10



SMOKE DETECTION

LRSBD — Smoke Beam Detector

Long-Range Smoke Beam Detector. Cover your warehouse from fire threat — it works while you sleep or are away.

- Storage houses be it small godowns or big ware houses face threat of fire damages from the stored materials, poor...
- Long range smoke detectors capable of detecting smoke

TEXTILE MACHINERY · CONTINUED

VT/11



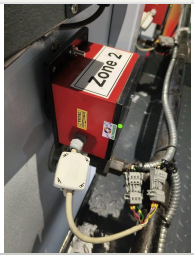
DETECTION CAMERA

Spark Detection Camera — SDC05 IR

Fifth-generation IR camera series released by VETAL for the textile industry as an upgraded model for spark detection.

- Features: SD-05 works on the principal of IR spectroscopy covering a range including those that are invisible to...
- Mounting Type is Self Mount. so it is suitable for all Areas

VT/12



DETECTION CAMERA

Heat/Flame Camera — SDC05 IR HPD

Fifth-generation camera in HPD configuration for heat and flame detection across critical points of the line.

- Features: SDC-05 works on the principal of IR spectroscopy & Temperature range including those that are invisible...
- Mounting Type is Self Mount. so it is suitable for all Areas

VT/13



FLAME DETECTION

FLEXICOS

Flame detection for final beater machines — Flexiclean, CVT, Supremo Clean — which process cotton after brief chute storage of the raw material.

- This Storage is required to ensure the evenness of the Material delivered to the Beaters.
- A small spark created by the hitting of Stones, Metals from

VT/14



FIRE SAFETY

Spark Div — Water Quenching

Spark diverters are an inseparable part of the fire-sensing system for a textile mill; this variant quenches diverted sparks with water.

- Standard diverters use Flaps to divert the fired Materials to the Quenching Tank through a Ventillator fan where a...
- For Diverters with Large Diameter, due to the heavy suction

FOOD MACHINERY · GRAIN MILLING · FRUIT · X-RAY

Every grain, inspected.

From rice, dal, wheat and pulses to dehydrated onion and tea — the Sirius universal colour sorter, fruit sorting and X-ray inspection cover both optical and density-based rejection.

RANGE · 03

FD/01



COLOR SORTER

Sirius

Universal colour sorter for grain milling — rice, dal, wheat, dehydrated onion, tea, pulses and more. RGB cameras with ultrasonic technology.

- Camera: High speed, 5000 Pixel Trichromatic Color Camera with increased spectral response.
- Resolution: 0.07 mm pixel resolution to detect very thin

FD/02



FRUIT SORTER

Fruit Sorter

Vision-based sorting for fruit lines, grading by colour and surface quality at production speed.

- Camera: High speed, 5000 Pixel Trichromatic Color Camera with increased spectral response.
- Resolution: 0.07 mm pixel resolution to detect very thin defects accurately.

FD/03



X-RAY SORTER

X-Ray Sorter

X-ray inspection for food products — detecting dense foreign matter invisible to optical sorting.

GENERAL · PHOTOCELLS · STOP MOTION · PROTECTION · FIRE SAFETY

Where it all began: the photocell.

The building blocks of an automated mill — sensing, stopping and protecting at every stage from blow room to speed frame.

RANGE · 09

GN/01



PHOTOCELL UNIT

Infra Red Photo Cell

Infrared photocell unit — the product family VETAL was founded on in 1983, built for reliable presence sensing in harsh mill environments.

- Blow Room Photo Cell Unit
- Coiler Sliver Stop Motion Unit

GN/02



PHOTOCELL UNIT

Blow Room Photo Cell Unit — ERM-1001

Photocell unit for the blow room, sensing material flow in the opening and cleaning line.

- Model: ERM-1001 (for all Blowroom lines)
- Supply Voltage: 220 V AC, 50Hz.

GN/03



STOP MOTION · CARDING

Coiler Sliver Stop Motion Unit | OF- 02 | Carding

Stops the carding coiler instantly on sliver faults, preventing lap-ups and downstream quality damage.

- Model: OF-01 (U-Type Sensor) OF-02 (Separate Transmitter and Receiver)
- Supply Voltage: 220 V AC.

GN/04



STOP MOTION · DRAW FRAME

Draw Master Unit — DM-01, DM-02

Draw Master unit for sliver-breakage detection at the draw frame, halting the machine before defective sliver travels on.

- This particular design suits for the Draw Master machines having long feed table and for single sliver entry from...
- The Sliver is guided blocking the signal path and breakage

GENERAL · CONTINUED

GN/05



MOTOR PROTECTION

Thermistor Protection Unit for Motor Protection

Thermistor-based protection unit for motors, tripping the drive before overheating causes winding damage.

- Model: TPU-01,TPU-04,TPU-06 (One/Four/Four Channel)
- Supply Voltage: 1) 220 V AC. (TPU-01, TPU-04) 2) 24 V DC. (TPU-06)

GN/06



STOP MOTION · LAP PREP

Ribbon / Sliver Lap Stop Motion Unit — RBP-01, SBP-01

Stop-motion unit for ribbon and sliver lap machines, arresting the process on breakage.

- Model: RBP-01, SBP-01
- Supply Voltage: 220 V AC

GN/07



LEVEL SENSING

Multilevel Sensor to regulate the cotton level in Chute

Multilevel sensor that regulates the cotton level in the chute for a consistent, even feed.

- Model: MLC-03 Control Unit MLS-03 Sensors (S1,S2,S3)
- Supply Voltage: 24 V DC

GN/08



STOP MOTION · ROVING

Roving cum Sliver Stop Motion Unit — SM-02, SM-03

Combined roving and sliver stop-motion unit covering breakage detection at the speed frame.

- Model: SM-02 (2 Channel) SM-03 (3 Channel)
- Supply Voltage: 220 V AC.

GN/09



FIRE SAFETY · THERMAL IMAGING

VELTORS T-EYE

An advanced fire-safety system based on thermal-imaging technology, for open spaces with machine-dense locations.

- The advantages of the System is given below: The T-EYE 555/1 is an advanced, fully calibrated thermal imaging...
- Scans for Hot air environment, Ember and Flame While in

SUPPORT CENTERS

Sales, service, support — one call away.

Service centres across India and select countries, with dedicated desks for every stage of ownership and about 40 engineers on post-sales duty.

SALES

Sales — Machines
v.sales@vetal.com
+91 88700 13825

Sales — Spares
v.sales@vetal.com
+91 88700 13825

INSTALLATION & SERVICE

Installation & Commissioning
v.customersupport@vetal.com
+91 88700 13825

Product Service
v.customersupport@vetal.com
+91 88700 13825

CUSTOMER SUPPORT

Remote Support — Field Complaints
v.customersupport@vetal.com
+91 87540 45870 · 81245 83825

Engineer Deputation — Field Complaints
v.customersupport@vetal.com
+91 88700 13825

All mobile numbers available 08:30 AM – 05:00 PM IST. Send your requirements by email, WhatsApp or SMS – we will get back to you ASAP.

HEAD OFFICE

Coimbatore, South India.

Plot No. 21–24, Industrial Estate for Electrical & Electronics,
Civil Aerodrome Post, Coimbatore – 641 014,
Tamil Nadu, India.

+91-422-4030500	PHONE
info@vetal.com	GENERAL
customergrievances@vetal.com	GRIEVANCES
www.vetal.com	WEB

VETAL

THE TECH - *Knowledge* COMPANY

TELL US ABOUT YOUR LINE

REQUEST A LINE AUDIT.

Talk to our sales team about the right inspection, detection or sorting machine for your mill — with installation, commissioning and service from VETAL engineers.

+91-422-4030500	PHONE
v.sales@vetal.com	SALES
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