



**VEDIC**  
pac-systems

An Integrated Services Company

## Metal Detector and Tablet Deduster Combination Unit



[www.vedicsystems.com](http://www.vedicsystems.com)

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## Introduction

**Vedic Pac-Systems Pvt. Ltd.**, headquartered in Pune, Maharashtra, India is an exclusive representative for Loma Systems, UK, since 2 decades. LOMA, now part of the Fortune 500 ITW, has over 2,000 metal detector installations spread across India, in the food & pharma industry. Our engineers are trained & qualified in UK on the latest technology IQ4 metal detectors combined with the deduster for offline and online support. A dedicated after-sales team maintains a stock of recommended spare parts at Pune for quick trouble shooting.

### Working of Tablet Deduster:

Deduster consists of a vertical Bottom to Top dedusting path to remove powder from the tablets coming from the tablet compression machine. The deduster is provided with frequency and power control drive ensuring effective dedusting and deburring. The inlet of deduster rotates 360° so that it can be used at right or left outlet of compression machine conveniently.

### Working of Metal Detector:

The dedusted and deburred tablets from the tablet deduster are passed through the metal detector to ensure that contaminants (ferrous, non-ferrous, brass, stainless steel) do not pass along with the tablets/capsules. The metal detector works on a magnetic field principle which ensures contaminants passing through this field get detected and are rejected and collected in a reject bin provided with the metal detector.



### Combi-units by Vedic Pac-Systems:

As a solution to pharma companies looking for Combi-unit from a single and reliable partner, **Vedic Pac-Systems offers combination units to suit your requirements** with complete support in installation, commissioning, service, spares parts and after sales support.

The units are manufactured in stainless steel to adhere to norms and standards set by pharma companies across India and the globe. Loma Systems 'Design to Survive' metal detectors combined with tablet dedusters will be a huge benefit in coming years.



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## Combination Unit

### IQ4 Metal Detector

**GMP compliant with NEMA 4X / IP66 is available in 2 variants with height adjustment gas strut technology to match the tablet deduster / capsule polisher height.**

- ▼ 95\*38 mm head aperture with calibrated best-in-class sensitivities of 0.3 mm Fe, 0.35 mm NFe & 0.5 mm stainless steel.
- ▼ 95\*22 mm head aperture with calibrated best-in-class sensitivities of 0.25 mm Fe, 0.3 mm NFe & 0.4 mm stainless steel.



### Tablet Deduster

**Available in 3 variants with height adjustment gas strut technology to match any tablet compression machine & Loma metal detector heights.**

- ▼ 10 layered
- ▼ 18 layered
- ▼ 24 layered

These variants are customer specific and will be provided as per applications & requirements.



### Advantages & Benefits:

- ▼ Reliability of the machines.
- ▼ Integration between the metal detector and tablet deduster.
- ▼ Integration with any industry leading tablet compression machine.
- ▼ The units can be installed on the single frame support.
- ▼ Throughput – Up to 15,000 tablets/min depending on tablet size / diameter / shape.
- ▼ IQ, OQ, PQ validation documents for the units.
- ▼ 21 CFR, part 11 compliant.
- ▼ Test pieces with the certificates.
- ▼ Easy assembly & dis-assembly of the deduster without any tools.
- ▼ Vedic Pac-Systems provides pan India service support.
- ▼ Vedic Pac-Systems maintains a stock of recommended spare parts at Pune office



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## Head Exchange Program

"Head Exchange Program" offers solutions for LOMA metal detector heads. Users having trouble with very old LOMA machines which are not able to detect contaminants, false triggering, effect of continuous vibrations causing disruption in operation, now have an option to get a new LOMA head.

This program includes replacing the old generation Met 30+ circular head with latest technology rectangular IQ4 head.



### Advantages & Benefits:

- ▼ Opportunity to move to latest IQ4 technology through the head exchange program.
- ▼ Head exchange will be done on existing system frames.
- ▼ All the boards; reject mechanism will be of existing system.
- ▼ The existing system will continue to maintain the same serial number and software versions.
- ▼ Advancements on the stability of the head -
  - a) Reduces false rejects.
  - b) Improves detection performance.
- ▼ The head is compliant with pharma standards.
- ▼ New product chute, head cable will be provided with the new head.
- ▼ Cost effective route to take advantage of new technology.
- ▼ 12 months warranty on the newly replaced search head.
- ▼ Vedic Pac-Systems engineers will do the installation & commissioning at your plant.
- ▼ This program is for standalone units and units with deduster / capsule polisher.

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