# ESSAR

PNEUMATICS & EQUIPMENT

SALES | SPARES | SERVICE

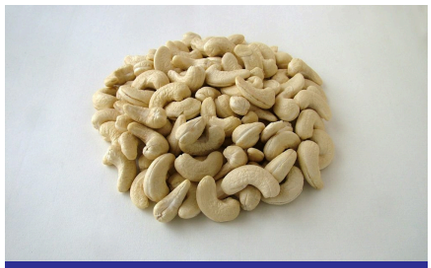
SINCE 1987

## Food Processing Solutions

OPTICAL SORTING · CLEANING & GRADING · PROCESSING LINES · SPARES & SERVICE




Bühler SPARK Pro+ Optical Sorter



Cashew



Raisins



Rice



Pulses & Dal



Bühler TAS Universal Cleaner



Spices & Masale

OFFICIAL

**AUTHORISED RESELLER**

BÜHLER

Swiss food processing technology · since 1860

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PNEUMATICS & EQUIPMENT

# Optical Sorting & Cleaning

Essar Pneumatics & Equipment has served industry from Kolhapur since 1987. As an **Authorised Reseller of Bühler**, we help you choose the right machine, arrange sample trials and support your plant through its working life.

## 1 Optical sorters — choose by your product




MULTI-COMMODITY SORTER

### SPARK Pro+

**Best for:** toor dal, chana, moong, lentils, peanuts, almonds, sesame & other seeds, peppers, millets and maize.

- 1 to 10 chutes · **1.5 – 2.0 t/h** per chute*
- HD colour + HD IR cameras: defects down to 0.0025 mm²
- Zero-spillage design · 5× faster HSV set-up

| | |
|---|---|
| **Power** | 1.8 kW (1 chute) – 8.5 kW (10 chutes)** |
| **Compressed air** | ≥ 0.6 MPa · < 1.5 to < 7.0 m³/min |
| **Weight** | 420 – 2,120 kg |




RICE SPECIALIST

### SORTEX® R500

**Best for:** white, parboiled, steamed, basmati and jasmine rice — short, medium and long grain.

- Designed from the ground up for rice
- Removes discoloured grains, foreign material and chalky rice
- Up to 18 % better reject concentration than previous SORTEX models

| | |
|---|---|
| **Models** | R500 5 · R500 6 |
| **Power** | 3.0 kW · 3.4 kW |
| **Compressed air** | 18.0 l/s · 21.6 l/s at 73 – 102 psi |

* Depending on the application. ** With channel heating. Also available: SORTEX A and B MultiVision™ sorters (1 – 5 chutes) for premium and everyday pulse sorting.

## 2 Cleaning & grading — the first step of every line

**PRE-CLEANING**



**Drum Sieve LAKA**
Removes wood, cobs and other coarse objects at intake. Up to **800 t/h**.

**CLEANING**



**TAS Universal Cleaner**
Up to **48 m²** sieve area on less than 12 m² floor space; one fan for inlet and outlet aspiration.

**SEPARATING**



**Separator-Classifier MTRA**
Removes coarse, fine and light impurities; also sizes and grades pulses, rice and seeds.

**DESTONING**



**Destoner MTSD**
Removes stones, glass and metal — even pebbles the size of a grain.

**GRADING**



**Grainplus Screening Machine**
Removes everything bigger and smaller than the product; for pulses up to **50 t/h**.

### Some commodities Bühler lists for SPARK


Toor dal


Lentils


Moong


Peanuts


Almonds


Sesame

**Not sure which machine?**
Send us a sample — we arrange a trial with Bühler.

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# Complete Processing Lines

Follow your product from left to right. Every line starts with the cleaning machines on page 2.

## A Pulses & Dal

toor · chana · moong · masoor · urad

### DRYING



**Uni Dry Dryer**
**50 – 60 %** natural splits; dries in any weather, without open drying yards.

### DEHULLING



**Pulsroll® Huller DRHG**
Up to **4 t/h**; 11 – 18 kW; emery stones in 4 replaceable sections.

### SORTING



**SPARK Pro+**
Removes colour defects, foreign seeds, stones and mudballs before packing.

## B Rice

paddy to polished, sorted rice

### HULLING



**TopHusk Huller DRHE**
Rubber-roller huller, **2.5 – 5 t/h**, 7.5 kW.

### WHITENING



**TopWhite Whitener BSPB**
Vertical abrasive whitener for high whole-grain yield; adjustable during operation.

### CONDITIONING



**Conditioner SuperLine DRCA**
Up to 2 KETT whiter, up to 1 % fewer brokens, up to 10 % more capacity. Up to 8 or 16 t/h.

### POLISHING



**HighPoly Polisher**
Smooth, bright surface; air suction cools rice and removes loose bran.

### SORTING



**SORTEX® R500**
Rice-specialist sorter for premium quality.

| Complete rice line | SmartLine | TopLine | SuperLine | UltraLine |
|---|---|---|---|---|
| Capacity | 2 – 5 t/h | 6 – 10 t/h | 10 – 12 t/h | 12 – 16 t/h |

## C Atta, Flour & Spices

grinding and sifting

### GRINDING



**Dolomit Roller Mill MDDP**
4-roller mill (MDDQ: 8-roller); low temperature rise protects spice aroma.

### SIFTING



**Arenit Plus Plansifter MPAV**
Sifts and classifies flour; 4, 6 or 8 compartments, up to 84 m² sifting surface.

- **Spices:** CCP steam sterilisation — approved 5-log reduction in Salmonella at 80 – 120 °C
- **Atta:** PesaMill™ gives chakki-style taste; one replaces up to 20 stone mills
- Try your spice at Bühler's grinding application mill, Bengaluru

**Genuine spares**
Genuine Bühler spare and wear parts; on-site spares kits available for SORTEX sorters.

**TotalCare™ service**
Planned visits, downtime cover, ejector refurbishment, remote help.

**Your local Bühler partner**
Selection, quotations, trials, installation & service coordination, spares — and ELGi compressed air for your sorters.

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# Also from Essar Pneumatics & Equipment

## ELGi
Air Compressors


Screw compressor


Tank-mounted screw

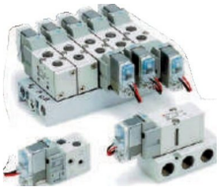

Reciprocating


Vayu compressor

## SMC
Pneumatic Control Solutions


Cylinders


FRL units


Solenoid valves


Fittings

## AiR-FLO AIR PIPING
Aluminium Air Piping

Up to 85 % lighter than MS pipe · 20 – 205 mm · max 20 bar · 10-year warranty*


Aluminium pipes


Push fit


Clamp fit


Integrated fit

## Pronix
Material Handling Equipment


Electric forklift


Electric stacker


Self-loading stacker



Electric pallet truck

* Air~Flo warranty: conditions apply.

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