MADE IN INDIA

orange®

FAST TRAINING.
ACCURATE RECOGNITION.
PREMIUM SORTING RESULTS.

MULTI COMMODITY AI COLOR SORTER

HIGH ACCURACY | HIGH PRODUCTIVITY | WIDE APPLICATION | AI TECHNOLOGY



FEMTOSORT

Powered by GRAVIS Ai

CEREALS | PULSES | OIL SEEDS | SPICES | AND MORE

www.orangesorter.com

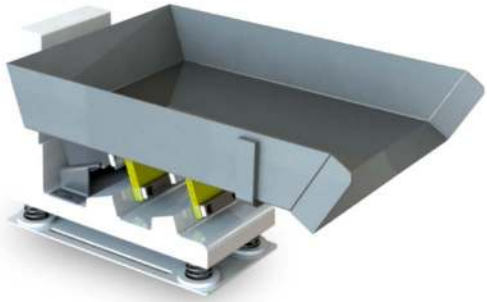


01 Dual Stage DUST COLLECTION System

Dual stage dust collection system Prevents Dust accumulation on optical vision area, there by reducing the wiping time results in Increase in Tonnage is by 35%.

02 Intelligent FEEDING SYSTEM (IFS)

Intelligent feeding system uses a feedback mechanism which analyses and regulates the flow rate on each Individual vibrator. By using this IFS FEATURE consistent productivity and enhanced quality is achieved.





03 THD Cameras

Synchronized Dual trichromatic HD RGB Camera with higher scanning speed gives Sharper image and high Dynamic range, which helps in detecting minute spot defect and colour defects like mild chaky and light yellow.

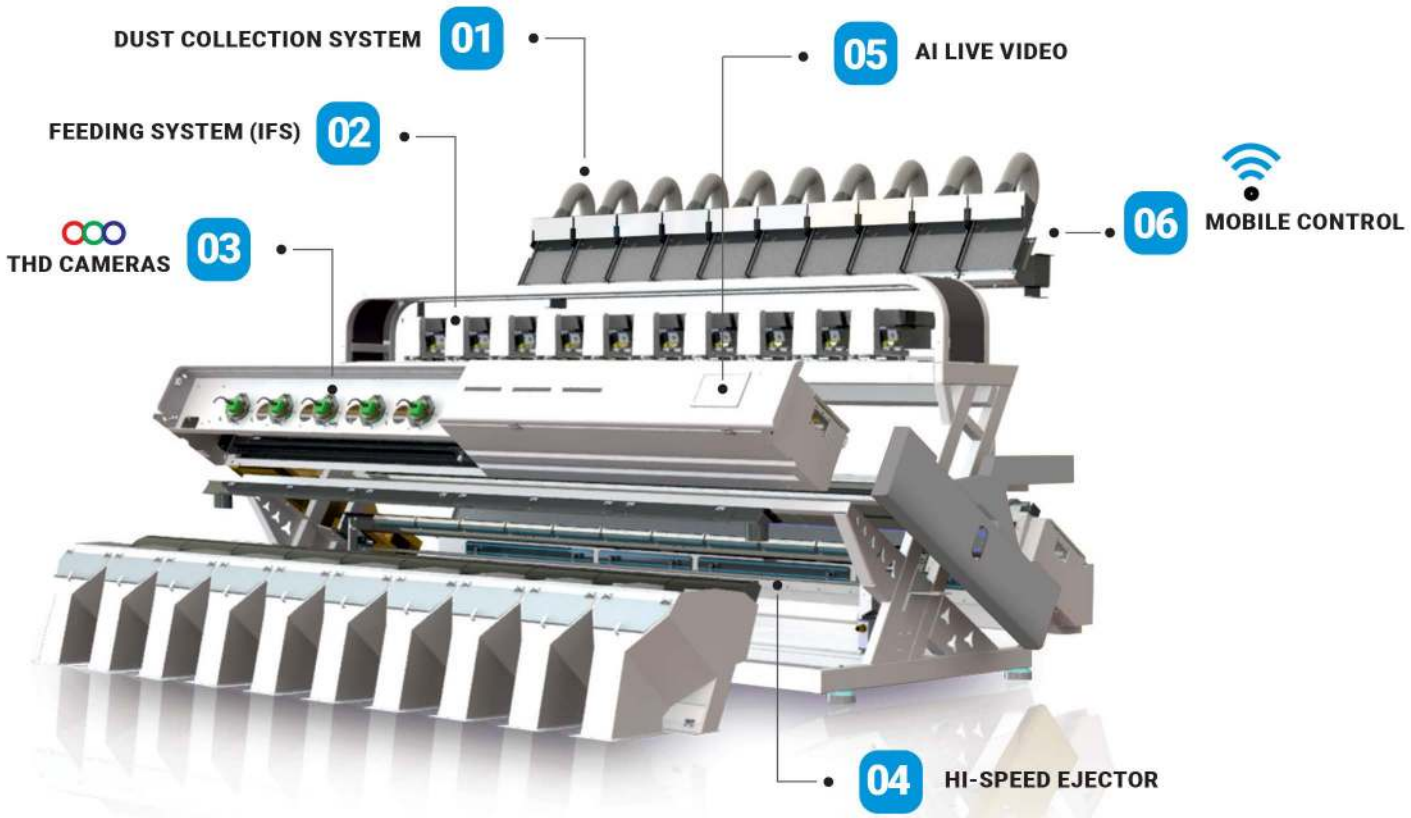
- 32400 Pixels per Second
- 16 Billion Colour Combination
- 0.07 mm Accuracy
- 52,740 lines per Second

TECHNICAL FEATURES

MODEL	FEMTO Ai 1	FEMTO Ai 2	FEMTO Ai 3	FEMT
* Processing Capacity (Tons/Kg)	0.1~0.7 TPH	0.7~1.1 TPH	1~2 TPH	2~3
No of Channels	64 CH	128 CH	192 CH	256
*Sorting Accuracy				
*Rejection Ratio				
Voltage & Frequency (V//Hz)				
Power required (KVA)	2 KVA	2 KVA	3 KVA	5 K
Air pressure required Kg/cm2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2	6.1 -
Air required (CFM) Reduced 20% Air	25	45	70	9
Weight Max. (kg)	300	300	550	75
Dimension in Feet ' Inches " (L x W x H)	4'0.5" x 5'7.5" x 6'1"	4'0.5" x 5'7.5" x 6'1"	5'1" x 5'7.5" x 6'1"	6'2.5" x 5'

Terms and conditions :

* Sorting performance varied depends upon Variety, Input contamination and condition of raw material.
* The capacity range given is for 2 to 5% contamination on tested.
* Air consumption will be more in case of higher rejection rate for raw materials with
* Configuration Changes "Programmable ",given informations for Rice commodities.





04 High-Speed EJECTOR

Hi-Speed ejectors with rapid response time of 0.8ms is used. Increase in output tonnage even at higher throughput condition can be achieved. It has life time expectancy >18-20 billion cycles.

O Ai 4	FEMTO Ai 5	FEMTO Ai 6	FEMTO Ai 7	FEMTO Ai 8	FEMTO Ai 10
TPH	3~4 TPH	4~5 TPH	5~6 TPH	6~7 TPH	7.5~10 TPH
CH	320 CH	384 CH	448 CH	512 CH	640 CH
	>99.6%				
	≥100.2				
	AC 220 /50 Hz				
VA	7.5 KVA	7.5 KVA	10 KVA	10 KVA	12 KVA
8.2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2	6.1 - 8.2
0	120	140	160	185	230
50	1170	1458	1650	1800	2403
7.5" x 6'1"	7'5" x 5'7.5" x 6'1"	9'5" x 5'7.5" x 6'1"	10'5" x 5'7" x 6'8"	11' x 5'7" x 6'8"	14'1" x 5'8" x 6'8"

higher contamination
Other commodities details contact Technical team.

* Performance means: Output and Rejection ratio (g: good b:bad), Purity
* Capacity means" Throughput" = Output + Rejection

TEACH ONCE. SORT BETTER.

Advanced machine learning transforms sample data into accurate commodity recognition.



Good Teaching



High Quality Output

SIZE SORTING/ BROKEN & FULL DAL SEPERATION



Input



Full Output



Broken Output

HOLES/INSECT BITE SORTING



Input



Output



Holes Rejection

DAL SORTING



Input



Output



Skin Rejection



Chalky Rejection



Green Rejection

DAL SORTING RESULT



Yellow Moong Dal



Yellow Chana Dal



Red Lentils Masoor



Green Moong Dal (Split)



Moth Bean

CEREAL/SEEDS SORTING



Ragi Input



Output



Rejection

CEREAL/SEEDS SORTING RESULT



Black Pepper



Coriander Seed



Cumin Seed



Fenugreek



Flax Seeds



Mustard



Poppy Seeds



Pumkin Seed



Sesame Seed



White Pepper



Yellow Pumkin Seed



Sunflower Seed



Neem Seeds



Fennel Seed



Buckwheat

PULSES/GRAIN SORTING



Input



Red Rajma



White Rajma



Pink Rajma

Brown Rajma

PULSES/GRAIN SORTING RESULT

Black Gram

Channa

Cheakpea White

Urad

Cheakpea

Green Gram

Horse Gram

Maize

Barley

Black Eye Bean

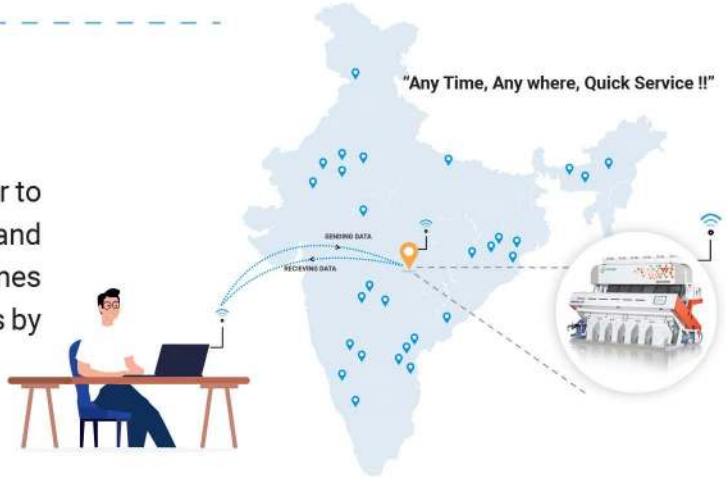


05 Ai LIVE VIDEO

It helps to capture "Live High Speed Video and Image Grain Flow" and analysis fine parts of every grains. The Ai integrated system gives annotations with classified defect detection. It makes advanced easy user experience with the customer.

06 AI ORANGE CARE PLUS

Troubleshooting can be done online which helps faster to provide resolution to the customer in an accurate and efficient method. Get instant suggestion and guidelines for effective machine operation from technical experts by sharing AI Image Capture and performance data.





MOBILE CONTROL - "OPERATE ANYWHERE"

These apps are specifically developed to the customer for easy operation.Customers can control devices "Anytime and Anywhere" using their mobile devices. Start, stop, or adjust machine settings from any location. It can help to the customer for reducing the need to be physically present at the machine site . It makes better assist to his internal operators.

Supported by

ABOUT

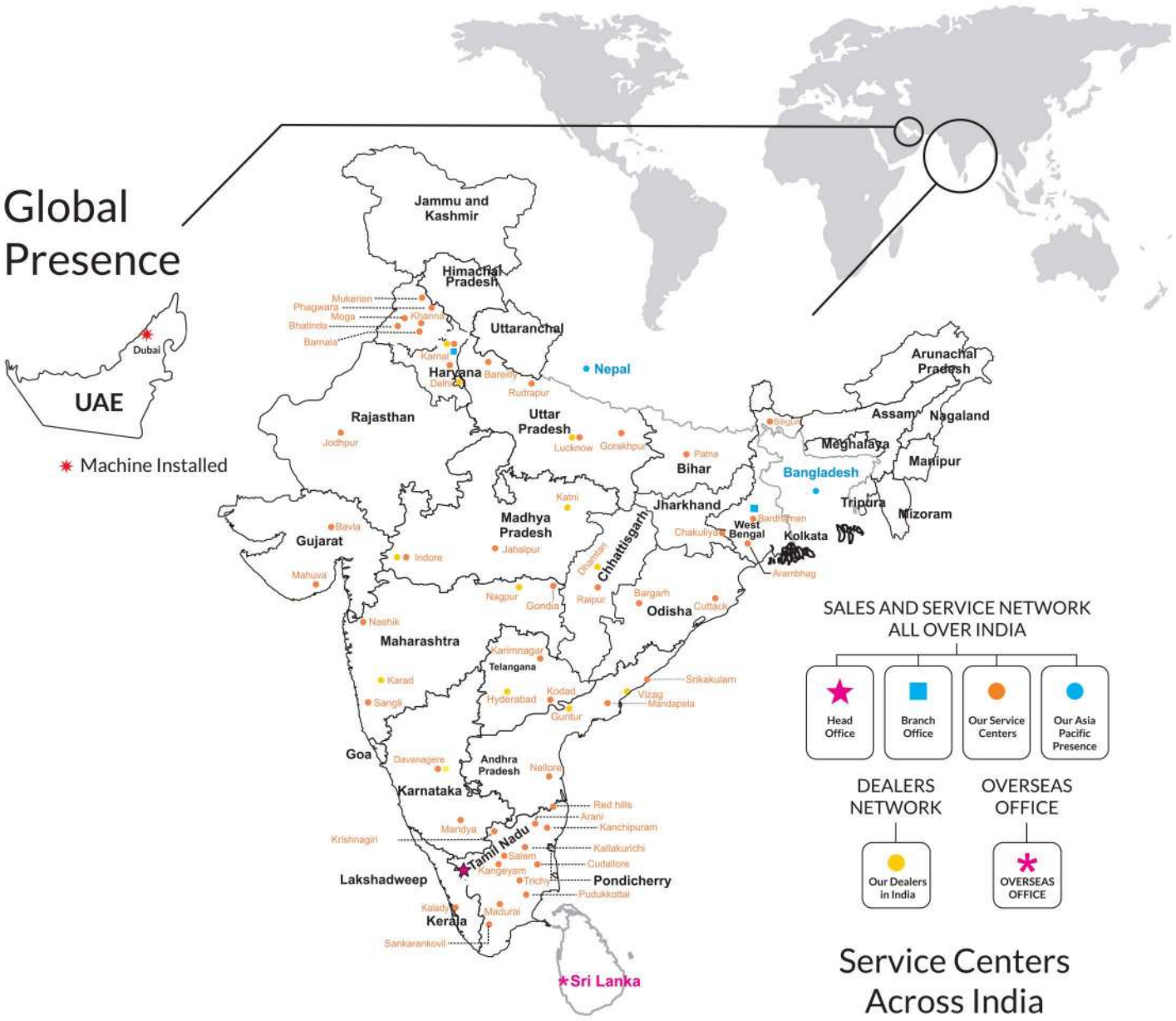
Femtosort Gravis Ai is a greater technical output of Orange intelligent team through its 20+ years of experience and by understanding the customer requirements.

- **> THD Camera**
- **> Ai Live Video**
- **> High-Speed Ejector**
- **> Ai Orange Care Plus**
- **> Intelligent Feeding System**
- **> Dual Stage dust collection system**
- **> Mobile Control (Operate Anywhere)**



Femtosort Helps To Build Wealth For Its Customers With Great Peace Of Mind

Global Presence



SALES AND SERVICE NETWORK ALL OVER INDIA

- Head Office
- Branch Office
- Our Service Centers
- Our Asia Pacific Presence

DEALERS NETWORK

- Our Dealers in India

OVERSEAS OFFICE

- OVERSEAS OFFICE

Service Centers Across India

SOUTH		CENTRAL	EAST	NORTH
Red Hills	Krishnagiri	Gondia	Burdwan	Jodhpur
Kanchipuram	Salem	Nasik	Arambagh	Gorakpur
Arani	Kalady	Sangli New	Siliguri	Lucknow
Cudallore	Mandya	Jabalpur	Bargarh	Bareilly
Kallakuruchi	Davanagere	Mahuva	Cuttack	Kaithal New
Kangeyam	Karimnagar	Raipur	Chakulia	Karnal
Puduhukottai	Mandapeta	Indore	Patna	Barnala
Trichy	Srikakulam	Bavla		Phagwara
Madurai	Nellore			Bhatinda
Kodad	Guntur			Khanna
Sankarankovil				Mukerian

MISSION CUSTOMER DELIGHT

For Service, Call Toll Free

1800 270 4588

OSM/SNM/CTG 004/V01

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