

Al Optical Coffee Bean Sorters



Al deep learning



Remote control





Smart backup

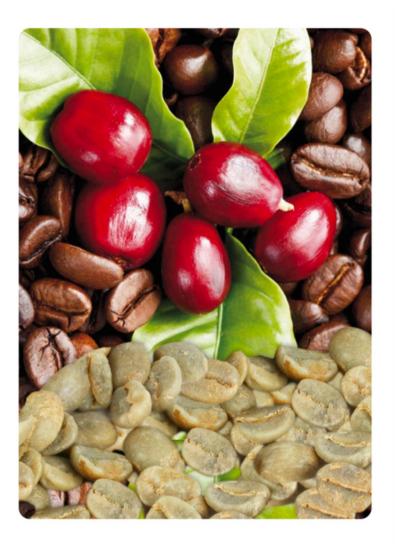


Magnetic ejector



Al Optical Coffee Bean Sorters

The quality of your beans has an impact on the value, taste and success of each roast. Rubiaceae Consulting imports and supplies optical coffee bean sorters. Beans can be sorted on a wide range of characteristics and defects before and after roasting including: quakers, full black, partial black, insect damage, sours, broken, chipped and foreign matter. Electronic colour sorting (Automated Optical Sorting) uses a special camera to evaluate the colour of a bean compared to a pre-programmed colour range.



Technology overview

- **Multifunctional:** Programme to sort green coffee beans, coffee cherries and roasted coffee beans.
- Colour + shape sorting to improve the quality of coffee: Remove black, white, dark waxy, light waxy, immature, insect damage, malformed, shell etc.
- Al intelligent sorting + APP remote control: Al intelligent targeted removal of mildew and storage defects.

Green bean with no defects

Defective beans



blackwhitedark waxyIght waxyImmatureInsect damageIght waxyImmatureInsect damageImmatureInsect damageImmatureImmatureInsect damageImmature<td

Arabica green bean sorting

·Arabica coffee scraps only black beans



raw material

accepts

rejects

·Honney processed Arabica coffee separates bad defects



raw material

accepts

rejects

·Arabica coffee is fermented in the wrong way to separate red and black



raw material





accepts

Robusta green coffee bean sorting

·Improperly preserved Robusta coffee, black and dark waxy







raw material

accepts

rejects

·Robusta coffee only remove black beans and white



raw material

accepts

rejects

·Natural processed Fine Robusta coffee



raw material





accepts

Medium roasted coffee bean



Defective beans



·Roasted Coffee Beans sorting

·roasted coffee bean only removes light roast



raw material

accepts

rejects

·roasted coffee bean removes light roast and dark roast







raw material

accepts

rejects

·roasted cofffee shape sorting removes broken beans



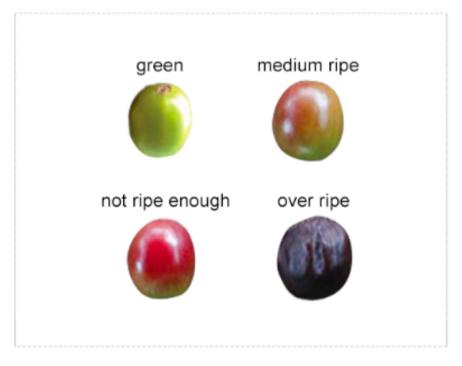
raw material

accepts

Good coffee cherry



Defective coffee cherries



Coffee cherry sorting

·fresh coffee cherry with green berries and overripe



raw material

accepts

rejects

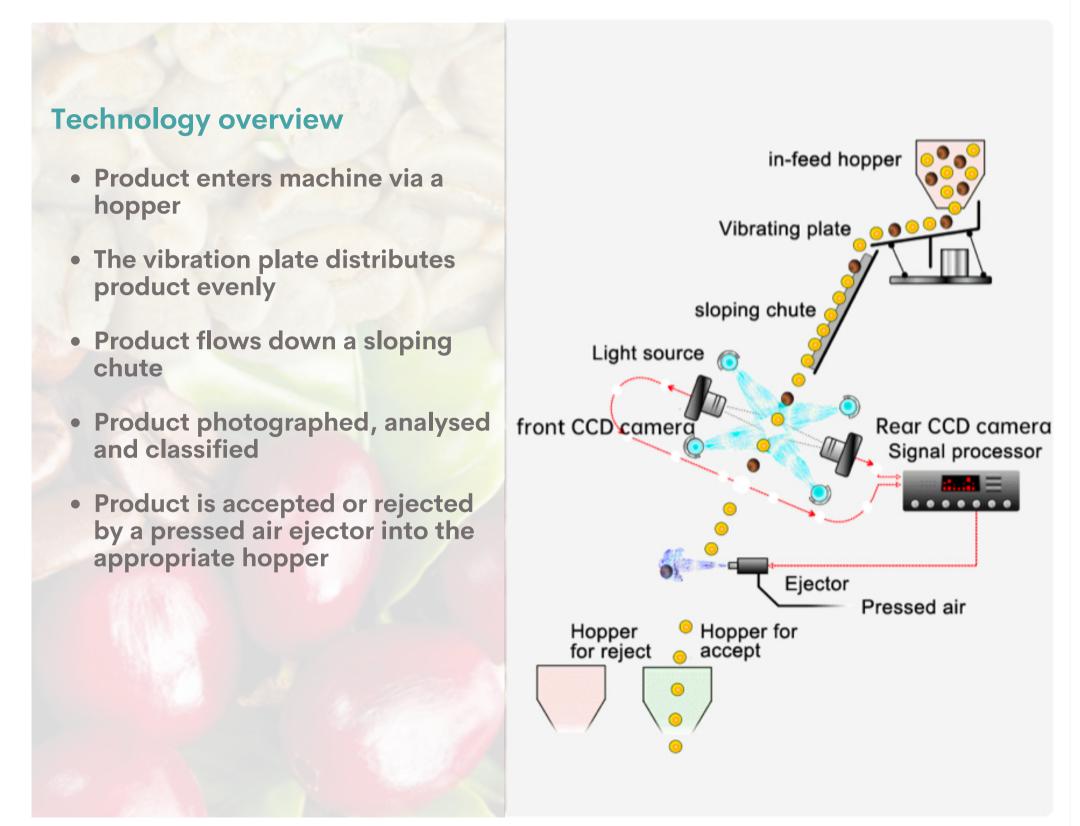
·coffee cherry only remove green berries



raw material

accepts

How it works



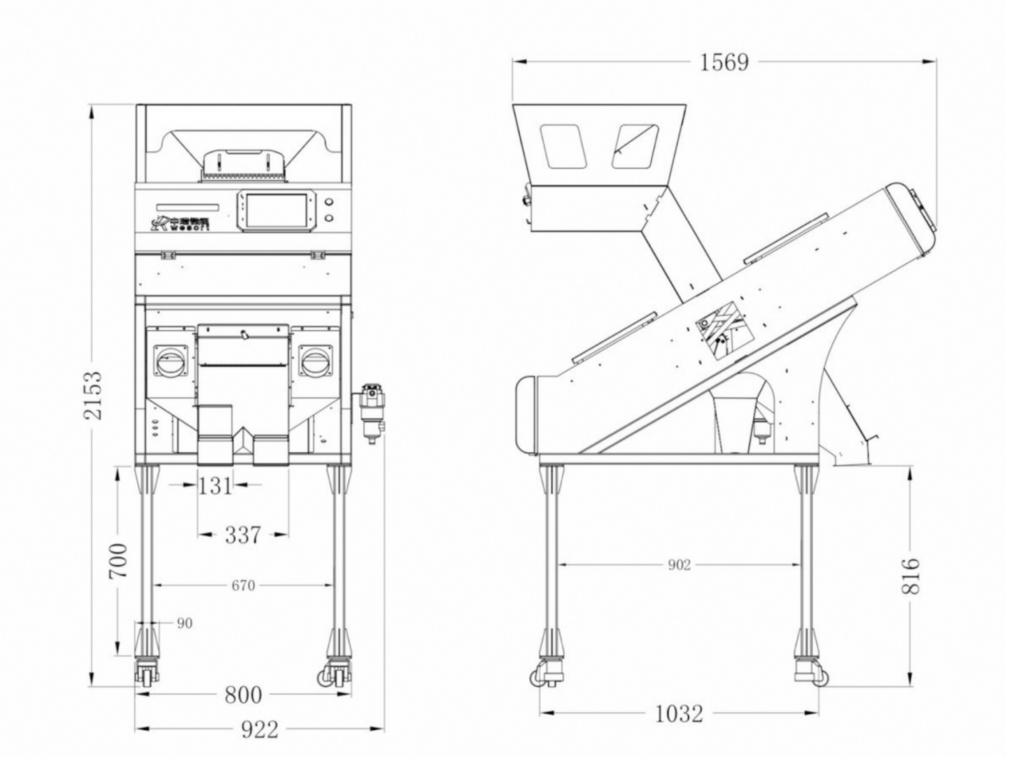
Ten advantages





4 Automatic glass cleaning systerm.

Dimensions



Core technologies



Al deep learning

- Automatic identification of good and defective products through the software system
- Automatically record good and defective products information



APP remote control

- · Mobile APP remote control
- · tablet operating system
- Original 99 groups of material color selection parameter memory function
- · Two-key switch



Smart system

- · Multi-megapixel high-resolution CCD
- · Full color CCD image sensor
- · Identify 0.01mm² spots



Magnetic Ejector

- · Italian high-precision magnetic ejector
- · Key rejection device of color sorter
- · long service life

Product parameters

Chute color sorter



Product parameters

Product	Model	Capacity (kg/h)	Sorting Accuracy (%)	Power (kw)	Air Pressure _(Mpa)	Air Consumption (L/min)	Size (mm)	Weight (kg)
Mini color sorter	6SXZ-30	200-400	≥99	0.4-0.6	0.4-0.6	< 250	569*1330*1836	145
1-chute color sorter	6SXZ-68	500-1000	≥99	0.6-0.8	0.4-0.6	< 500	1221*1538*2068	350
90 channels color sorter	6SXZ-90	600-1200	≥99	0.7-0.8	0.6-0.8	< 750	922*1569*1753	270
2-chute color sorter	6SXZ-136	1000-2000	≥99	1.1-1.4	0.5-0.7	< 1000	1259*1571*1769	370
3-chute color sorter	6SXZ-204	1500-3000	≥99	1.6-2	0.5-0.7	< 1500	1467*1572*2691	580
4-chute color sorter	6SXZ-272	2000-4000	≥99	4.2-4.6	0.6-0.8	< 2000	2286*1720*2834	960
5-chute color sorter	6SXZ-340	2500-5000	≥99	5.3-6.2	0.6-0.8	< 2500	2348*1518*2250	1070
7-chute color sorter	6SXZ-476	3500-7000	≥99	7.5-8.7	0.6-0.8	< 3500	2984*1556*2949	1450
10-chute color sorter	6SXZ-680	5000-10000	≥99	11-13	0.6-0.8	< 5500	4390*1590*2221	2200

NOTE: The above processing capacity is calculated with reference to the coffee beans with an impurity content of 5% in the raw material.

Product Category	Model	Capacity (kg/h)	Sorting Accuracy (%)	Power (kw)	Air Pressure (Mpa)	Air Consumption (L/min)	Size (mm)	Weight (kg)
Mini belt color sorter	6SXZ-32L	350-500	≥99	0.4-0.6	0.4-0.6	< 250	677*1651*1289	145
1-chute belt color sorter	6SXZ-68L	700-1000	≥99	0.7-1.0	0.4-0.6	< 500	1241*2038*1761	380
2-chute belt color sorter	6SXZ-136L	1400-2000	≥99	1.4-1.8	0.5-0.7	< 1000	1840*2079*1851	510
4-chute belt color sorter	6SXZ-272L	2800-4000	≥99	2.6-3.2	0.6-0.8	< 2000	1922*2430*1349	920

NOTE: The above processing capacity is calculated with reference to the coffee cherries with an impurity content of 5% in the raw material.

Accessories

Air compressor

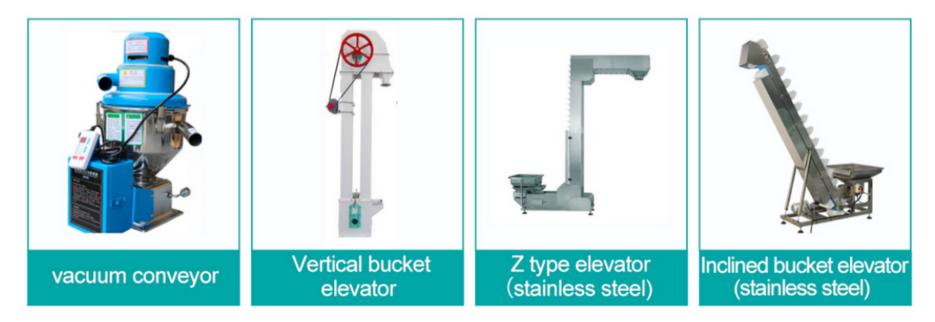




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oil-free air compressor
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Elevators





Please get in touch if you would like to see an optical colour sorter in action or discuss how it could benefit your roastery.

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