About AMVT LLC

- Headquartered in Houston, Texas, USA
- Founded in Dec 2009
- Products:
  - Optical color sorters
  - Inspection equipment
  - Packaging equipment
- Strong R&D backed up by Meyer Corp.
- Dependable services
Regions that we serve

- USA
- Canada
- Mexico
- Latin America

Sales and service locations:

- Houston, Texas, USA (main location)
- Calgary, Alberta, Canada
- Chihuahua, Mexico
Optical Color Sorters from AMVT

• Exclusive distributor of Meyer Corp in China
• Advanced technologies:
  ➢ Visible Color (blue-green-red)
  ➢ Near-Infra-Red (NIR)
  ➢ X-ray sorter
  ➢ Laser sorter
• Largest color sorter manufacturer in the world
• Rich product selections:
  ➢ Gravity feed sorter
  ➢ Conveyor belt feed sorter
  ➢ Double-deck belt sorter
  ➢ Tea sorter
• Wide applications:
  ➢ Agriculture products: rice, seeds, beans and peas, coffee, tree nut, peanut
  ➢ Plastics: pellets, regrinds, flakes
  ➢ Industrial products: salts, metals, quartz .....
AMVT is the exclusive distributor of Meyer Corp

About Meyer Corp

- Started from 1994 in Hefei, China.
- Over 800 employees
- Over 4000 units shipped out in 2014
- Totally sold over 25,000 sets
- Over 13,000 customers all over the world

"2014 Forbes, Top 100 Chinese Company with great potential",
Meyer is ranked 25th
AMVT’s Optical Sorter Family

- CF+ RGB Series (+Shape)
- I NIR + RGB Series (+Shape)
- LD Series (NIR + RGB + Shape)
- M Series (x-ray)
- L Series (laser)

*We sort from x-ray to NIR!*
AMVT’s Optical Sorter Family

✓ **CF+ RGB Series (+Shape)**
  - I NIR + RGB Series (+Shape)
  - LD Series (NIR + RGB + Shape)
  - M Series (x-ray)
  - L Series (laser)

**Sorting from x-ray to Near-Infra-Red!**
CF+ RGB Series Color Sorters

- Gravity feed
- CCD true color technology
- High resolution linescan camera
- LED lighting
- Shape sorting
- Remote control over Internet
- Artificial Intelligence (AI) for auto setting
CF+ RGB Series Color Sorters

Wide range of capacity: CF+ 1/2/3/4/5/6/7/8/10
CF8/10+ RGB Series Color Sorters

Jumbo color sorter

• Super high throughput:
  e.g. 90,000 pounds hourly for soy bean
• Ternary sort supported:
  Independent 1\textsuperscript{st}, 2\textsuperscript{nd} and 3\textsuperscript{rd} sort settings
• Quick Return Of Investment
• Applications:
  rice, seeds, beans, plastics, tree nuts, etc.

Largest throughput in the world!
Sort all kinds of rice

- White rice
- Parboiled rice
- Red rice
- Brown rice
- Paddy rice
- Black rice

Application - CF+ RGB Series Color Sorters

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Sort all kinds of dry beans and peas
Application - CF+ RGB Series Color Sorters

Sort all kinds of round cereal grain seeds

- Wheat
- Oat
- Barley
- Corn
- Rye
- Millet
- Sunflower seed
- Flax seed
- Sorghum
Sort all kinds of round small and tiny seeds

Application - CF+ RGB Series Color Sorters

CHIA  ALFALFA  camilina  flax seed  clover  mustard
We sort all kinds of tree nuts

- almond
- walnut
- pecan
- hazelnut
- pine tree nut
- cashew
- pistachio
- macadamia
Sort peanuts with all defects and foreign materials!

- whole peanut
- blanched peanut
- split peanut
- in-shell peanut
- yellowish peanut

Sprouted peanuts sorted out by Shape!
Typical sorting flow with CF 3/5/7/8/10+

- 1st and 2nd sorts
- Left bucket elevator for 1st sort input
- Right bucket elevator for 2nd sort input
- Left bin for final good material
- Right bin for final bad material

Typical installation - CF+ RGB Series Color Sorters
Example installation of CF+ RGB Optical Color Sorters

- Material: yellow mustard seed
- Model: CF7 RGB sorter
- Where: North Dakota
- Throughput: 200 bu/hour
Example installation of **CF+ RGB** Optical Color Sorters

- **Material:** almond
- **Model:** CF7 RGB+NIR sorter
- **Where:** California
- **Sort flow:** 3 passes
- **Throughput:** 60,000 lbs/hour (one pass)
Example installation of CF+ RGB Optical Color Sorters

- **Material:** walnut
- **Model:** CF3 RGB sorter
- **Where:** California
- **Sort flow:** 2 passes
Example installation of CF+ RGB Optical Color Sorters

- Material: walnut
- Model: CF3 RGB sorter
- Where: California
Example installation of CF+ RGB Optical Color Sorters

- Material: pistachio kernel
- Model: CF3 RGB sorter
- Where: California
Example installation of CF+ Optical Color Sorters

- Material: pecan
- Model: 2x CF3 RGB sorter
- Where: Louisiana
Example installation of CF+ RGB Optical Color Sorters

- Material: peanut
- Model: CF3 RGB sorter
- Where: Georgia

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Example installation of CF+ RGB Optical Color Sorters

CF1 Optical Color Sorter on mobile trailer in Mexico
Example installation of CF+ RGB Optical Color Sorters

CF7 sorter on mobile trailer in North Dakota
**I RGB + NIR Color Sorters – AMVT’s Products**

- CF+ RGB Series (+Shape)
- I RGB + NIR Series (+Shape)
- LD Series (NIR + RGB + Shape)
- M Series (x-ray)
- L Series (laser)

We sort from x-ray to NIR!
- Gravity feed
- NIR Super-spectral technology
- Full color RGB CCD technology
- Shape sorting
- Remote control over Internet
- Artificial Intelligence (AI) for auto setting
- Available models with different configurations:
We sort all kinds of tree nuts

- almond
- walnut
- pecan
- hazelnut
- pinetree nut
- cashew
- pistachio
- macadamia

Application - I RGB + NIR Color Sorters
Application - I RGB + NIR Color Sorters

Almond

Accepted by sorter

Rejected by sorter
Application - I RGB + NIR Color Sorters

Pecan

Accepted by sorter

Rejected by sorter
Application - RGB + NIR Color Sorters

Walnut

The perfect “butterfly” walnut halves sorted by Shape Sorting Technology
Application - I RGB + NIR Color Sorters

Pistachio

Accepted by sorter

Rejected by sorter
Application - I RGB + NIR Color Sorters

Hazelnut

Accepted by sorter

Rejected by sorter
Application - I RGB + NIR Color Sorters

Cashew nut

Accepted by sorter

Rejected by sorter
LD Series RGB + NIR Color Sorters – AMVT’s Products

- CF+ RGB Series (+Shape)
- I RGB + NIR Series (+Shape)
- LD Series (NIR + RGB + Shape)
- M Series (x-ray)
- L Series (laser)

We sort from x-ray to NIR!
LD RGB + NIR Color Sorters – AMVT’s Products

- Single deck, double views
- RGB Full color CCD
- NIR (optional)
- 120 or 240 channels
- Full SUS build

- Double decks, single view
- RGB Full color CCD
- NIR (optional)
- 120 or 240 channels
- Full SUS build
M Series X-ray Sorters – AMVT’s Products

- CF+ RGB Series (+Shape)
- I RGB + NIR Series (+Shape)
- LD Series (NIR + RGB + Shape)
- **M Series (x-ray)**
- L Series (laser)

*We sort from x-ray to NIR!*
M Series X-ray Sorters – AMVT’s Products

- Sensitivities: Fe Ø0.2mm SUS Ø0.3mm
- High throughput with 60 or 120 channels
- Full SUS build, IP66
- X-ray 350W, 80kv/8mA
- Belt speed 10-100 m/min
- X-ray leakage < 1uSv/h
M Series X-ray Sorters – AMVT’s Products

- Sensitivities: Fe Ø0.2mm SUS Ø0.3mm
- High throughput with 60 or 120 channels
- Full SUS build, IP66
- X-ray 350W, 80kv/8mA
- Belt speed 10-100 m/min
- X-ray leakage < 1uSv/h