

# OPTICAL SORTING SOLUTION

FOR FOOD INDUSTRY



# OPTICAL SORTING MACHINES



## PRODUCTS

MEYER optical sorters are used for sorting grains, seeds, vegetables, and other kinds of field crops.

## DETECTION

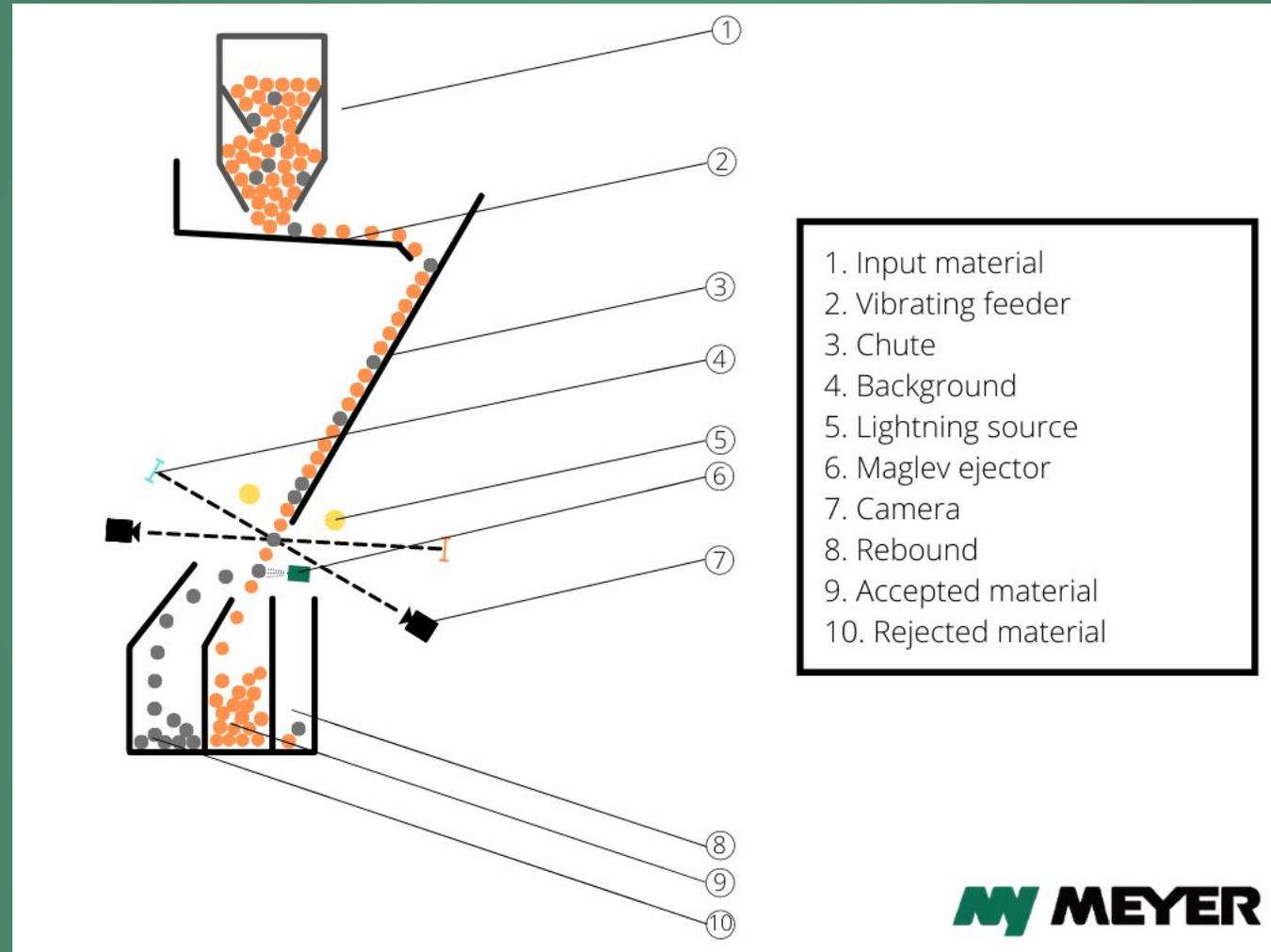
MEYER optical sorters detect unwanted grains, foreign materials, infected, discolored, defective grains and seeds.

## QUALITY

By using MEYER optical sorting solution your product will achieve the highest class of purity, quality and food safety.

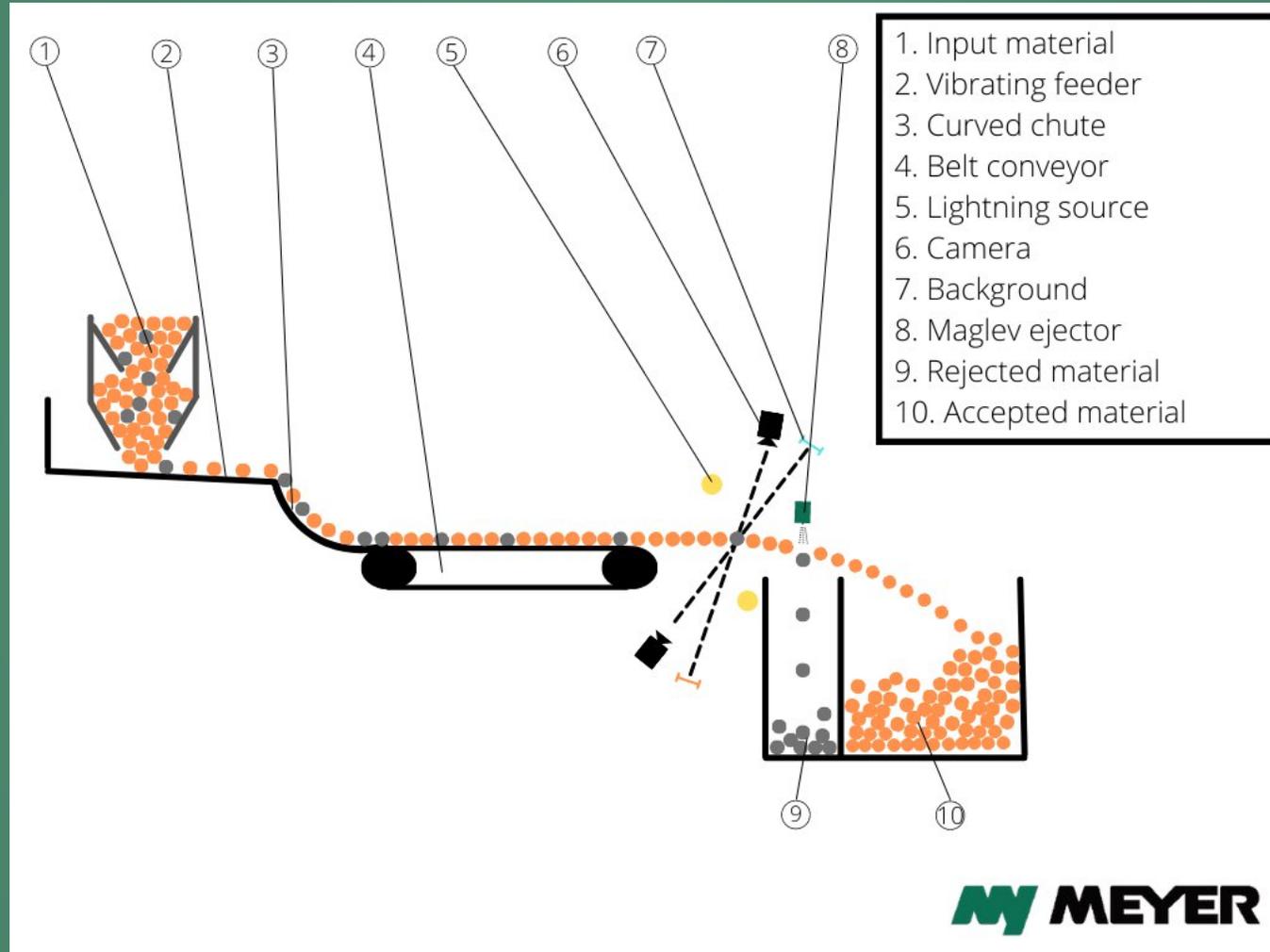


# CHUTE OPTICAL SORTING PROCESS



**MJ MEYER**

# BELT OPTICAL SORTING PROCESS



# OPTICAL SORTING EXAMPLES



# OAT - Optical sorting result



**INPUT**



**ACCEPT**



**REJECT**

\*Contaminations: barley, wheat, ergot and others

# UNHULLED OAT - Optical sorting result



**INPUT**



**ACCEPT**



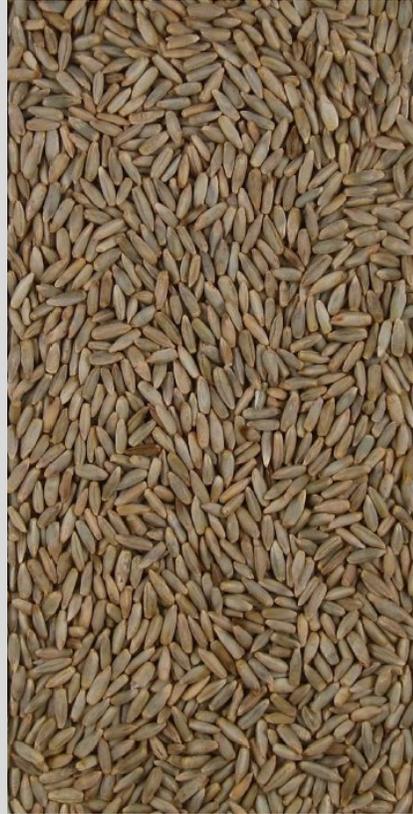
**REJECT**  
**T**

\*Contaminations: unhulled kernel, foreign material, straw and others

# RYE - Optical sorting result



**INPUT**



**ACCEPT**



**REJECT**

\*Contaminations: other grains, stones, dark & rotten grains and others

# WHEAT - Optical sorting result



**INPUT**



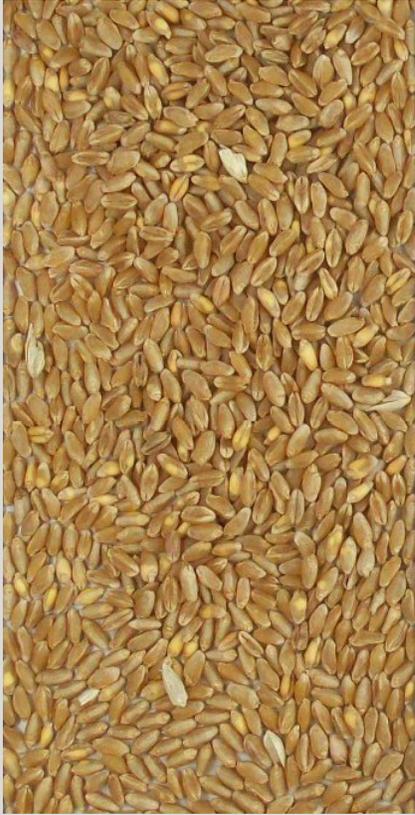
**ACCEPT**



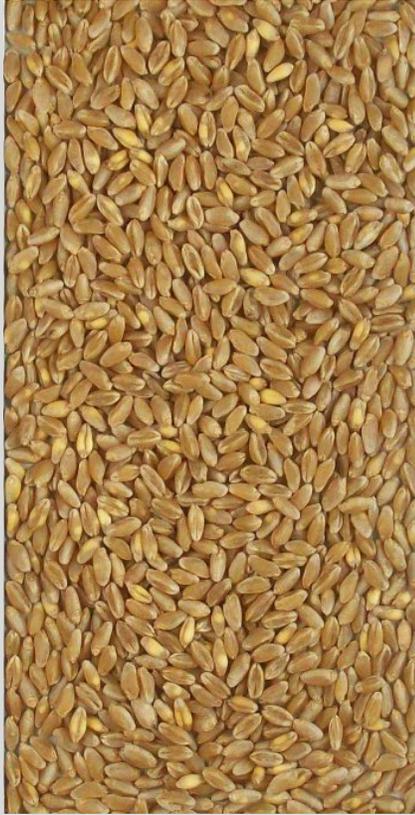
**REJECT**

\*Contaminations: soya, corn, rye, sunflower and others

# DURUM WHEAT - Optical sorting result



**INPUT**



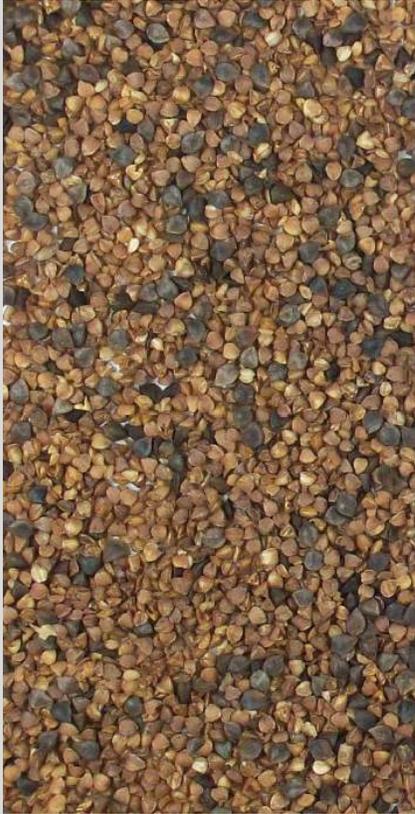
**ACCEPT**



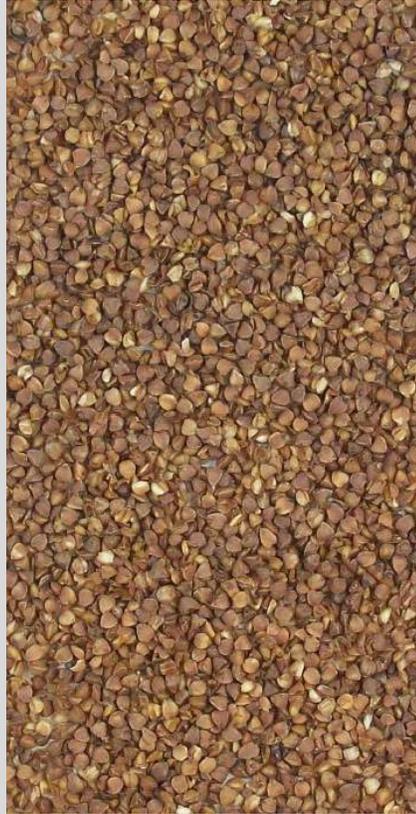
**REJECT**

\*Contaminations: fusarium, spelt, husks, other grains and others

# BUCKWHEAT - Optical sorting result



**INPUT**



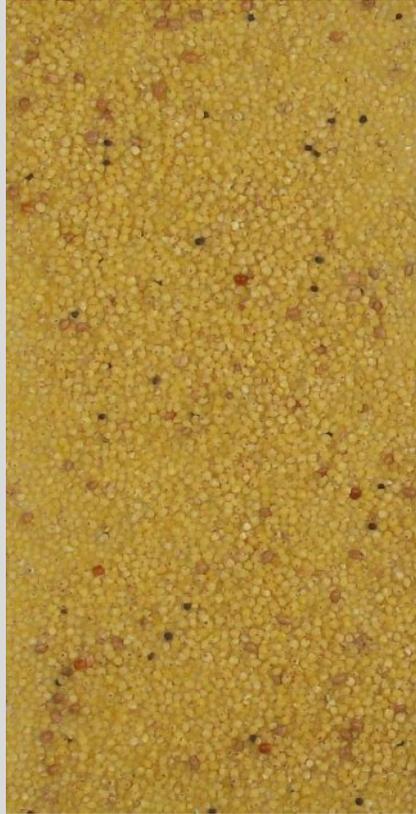
**ACCEPT**



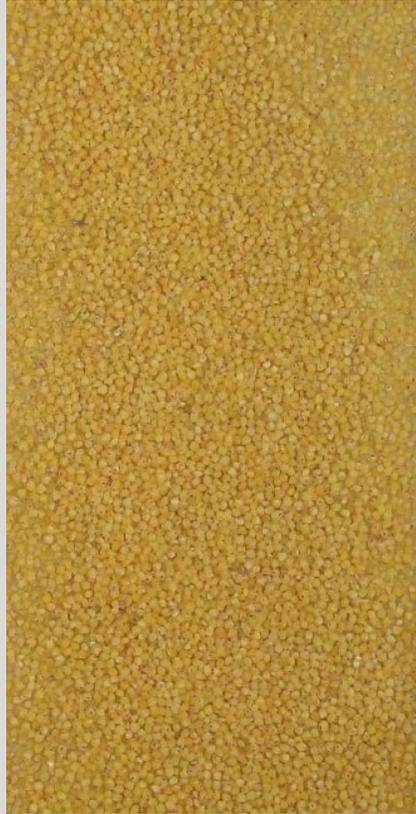
**REJECT**

\*Contaminations: wheat, barley, wild buckwheat, sticks, dark & unhulled seeds and others

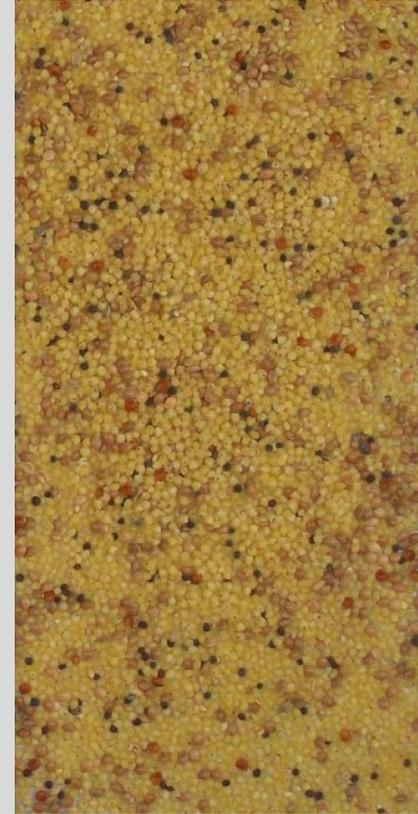
# MILLET - Optical sorting result



**INPUT**



**ACCEPT**



**REJECT**

\*Contaminations: other grains, dark grains, sticks, foreign material and others

# TEFF - Optical sorting result



**INPUT**



**ACCEPT 1 -  
WHITE**



**ACCEPT 2 - BROWN**

\*Seed size ~ 0,7 mm x 1,4 mm

# MILK THISTLE - Optical sorting result



**INPUT**



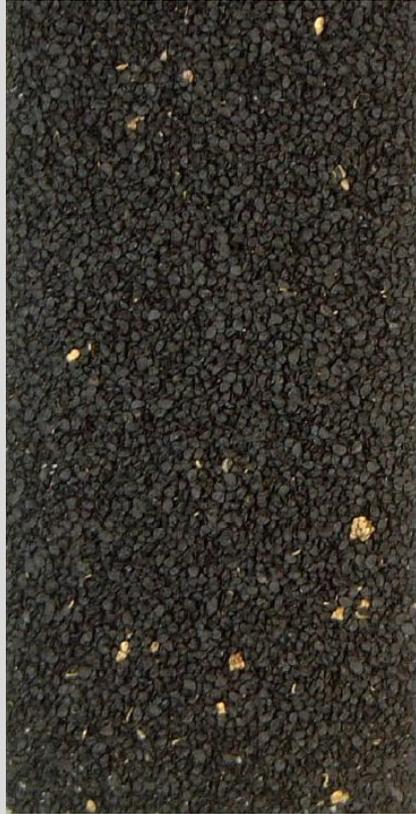
**ACCEPT**



**REJECT**

\*Contaminations: burnt & dark seeds, foreign material, sticks and others

# ONION SEEDS - Optical sorting result



**INPUT**



**ACCEPT**



**REJECT**

\*Contaminations: brown & light seeds, foreign material and others

# LETTUCE SEEDS - Optical sorting result



**INPUT**



**ACCEPT**



**REJECT**

\*Contaminations: brown & dark seeds, foreign material and others

# SUNFLOWER SEEDS - Optical sorting result



**INPUT**



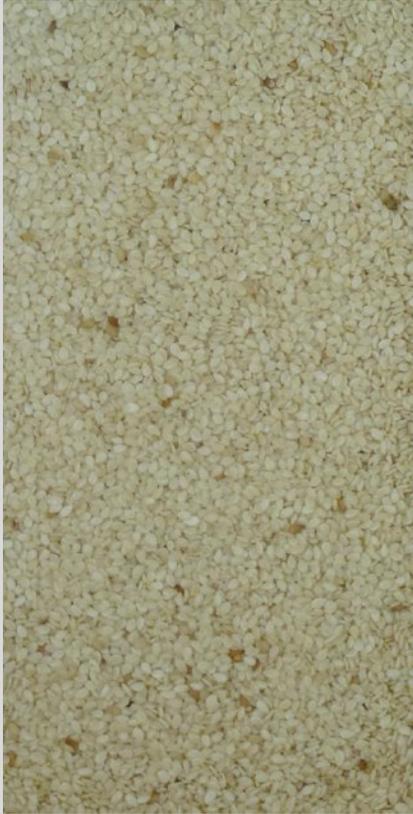
**ACCEPT**



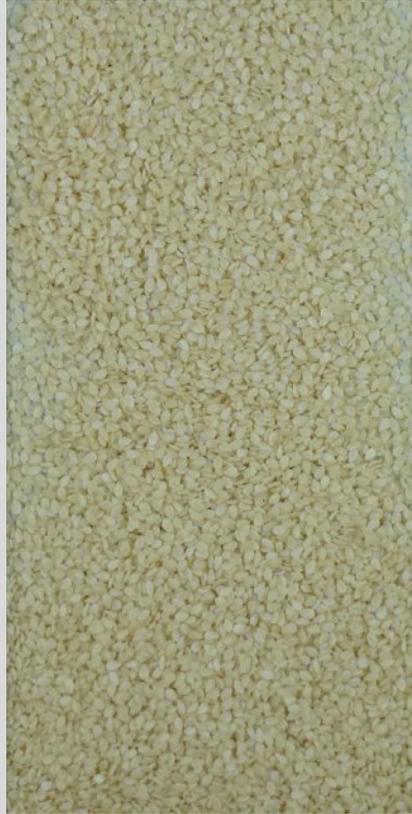
**REJECT**

\*Contaminations: dark & rotten seeds, foreign material and others

# SESAME - Optical sorting results



**INPUT**



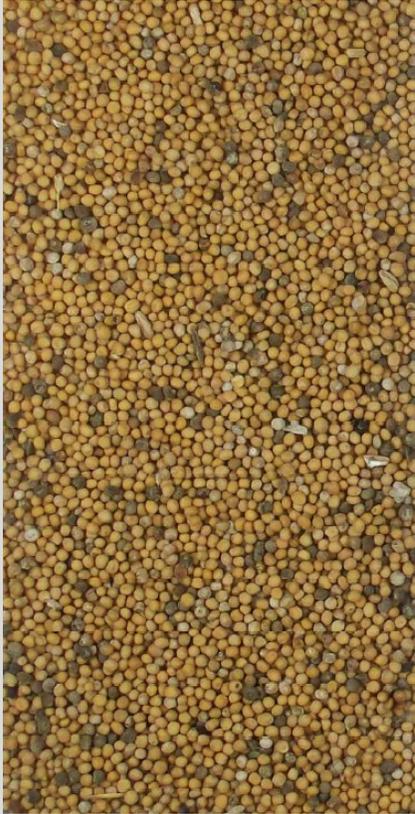
**ACCEPT**



**REJECT**

\*Contaminations: brown & dark seeds, other grains, foreign material and others

# MUSTARD SEEDS - Optical sorting results



**INPUT**



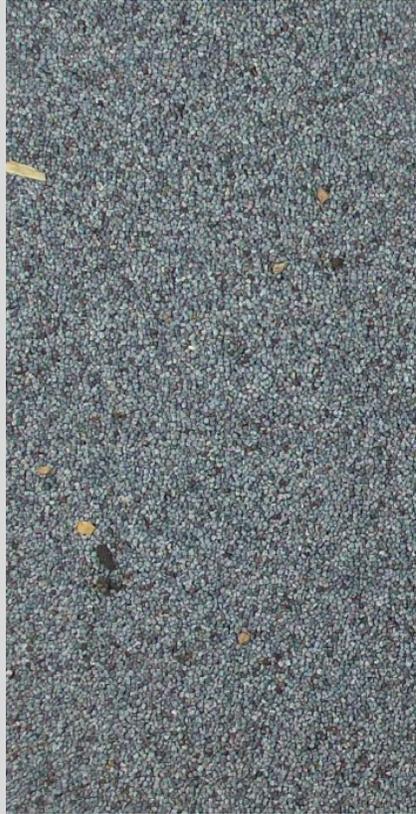
**ACCEPT**



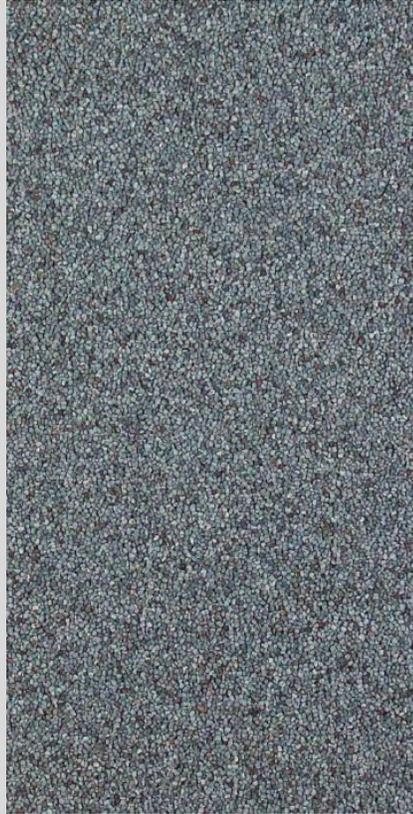
**REJECT**

\*Contaminations: other grains, dark & grey seeds, sticks, foreign material, and others

# POPPY SEEDS - Optical sorting results



**INPUT**



**ACCEPT**



**REJECT**

\*Contaminations: other grains, stones, foreign material and others

# PUMPKIN SEEDS - Optical sorting results



**INPUT**



**ACCEPT**



**REJECT**

\*Contaminations: rotten seeds, stones, foreign material and others

# GREEN PUMPKIN SEEDS - Optical sorting results



**INPUT**



**ACCEPT**



**REJECT**

\*Contaminations: rotten seeds, husk, foreign material and others

# OTHER PRODUCTS - EXAMPLES



# OTHER PRODUCTS - SEEDS & GRAINS



Wheat



Millet



Corn



Buckwheat



Rye



Pumpkin  
seeds



Sunflower  
seeds



Watermelon  
seeds



Cucumber  
seeds



Chia  
seeds

# OTHER PRODUCTS - BEANS



Lentils



Broad beans



Chickpeas



Peas



Soy  
beans



White  
beans



Red  
beans



Mung  
beans



Lupine



Vetch

# OTHER PRODUCTS - NUTS



Pistachio



Walnut



Macadamia



Almond



Cashew



Peanut



Pecan



Hazelnut

# OTHER MARKET SEGMENTS



Fruits



Vegetables



Rice



Spices



Tea



Coffee



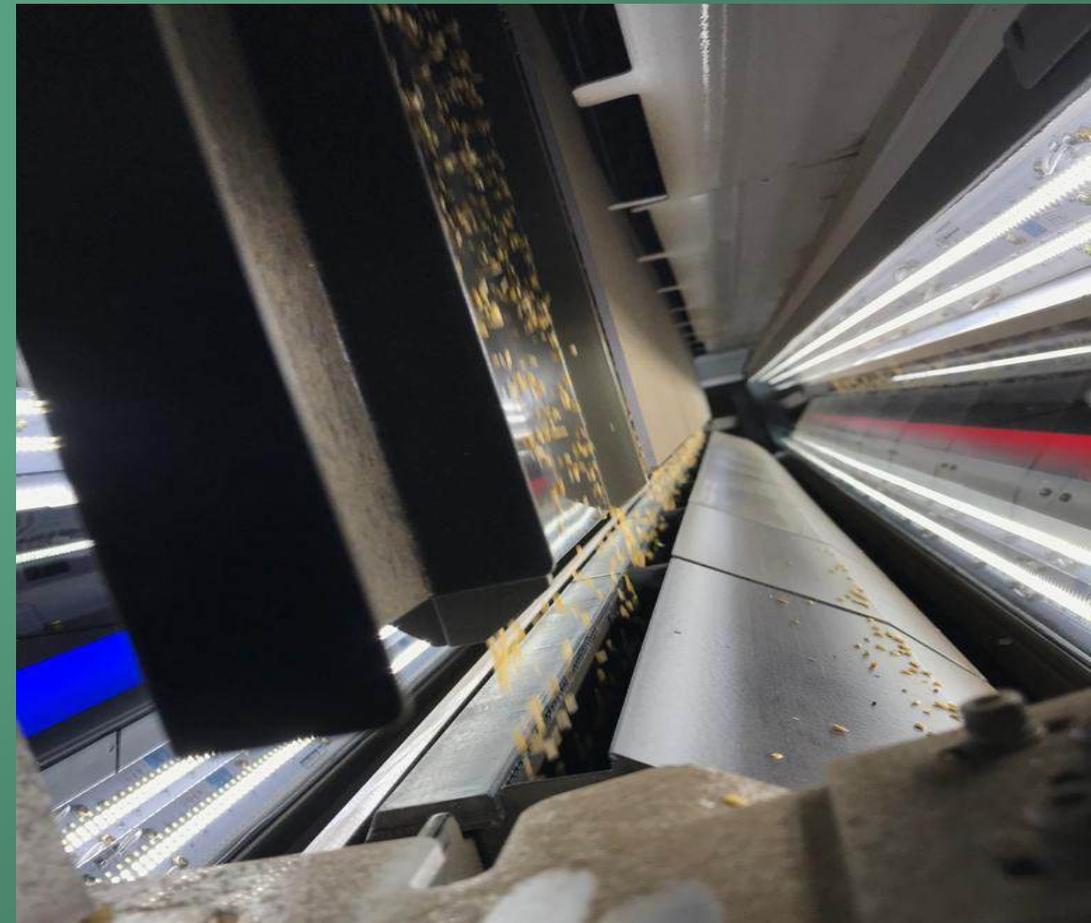
Plastic



Metal

# PRODUCTS - OPTICAL SORTING VIDEO EXAMPLES

- **Barley optical sorting:**  
<https://www.youtube.com/watch?v=V7x92vPExbk>
- **Buckwheat optical sorting:**  
<https://www.youtube.com/watch?v=hKaMdAZpMY4>
- **Mustard seeds optical sorting:**  
<https://www.youtube.com/watch?v=pCnvWZQR7nY>
- **Optical sorting of different seeds:**  
<https://www.youtube.com/watch?v=0oVGDuVmWUE>
- **Optical sorting of different types of nuts:**  
<https://www.youtube.com/watch?v=EODANV8cE60>



**ANY QUESTION?  
PLEASE CONTACT US !!!**



MEYER Europe - website  
[www.meyer-corp.eu](http://www.meyer-corp.eu)

**SALES CONTACT**  
E-mail: [zoran.antic@trim.rs](mailto:zoran.antic@trim.rs)

Trim d.o.o. - website  
[www.trim.rs](http://www.trim.rs)