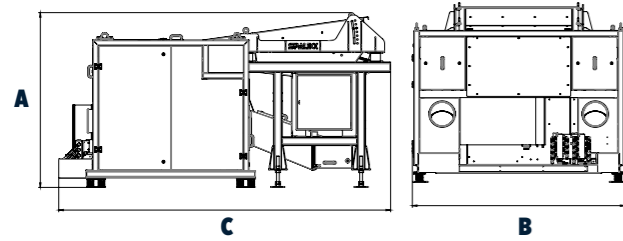


INSTALLATION EXAMPLE

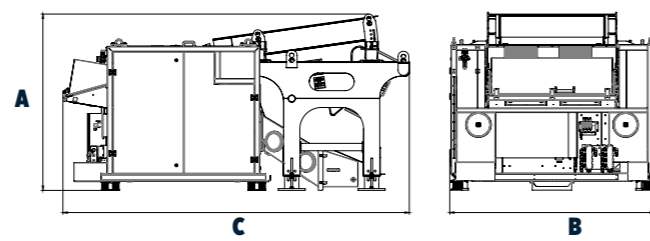
PRO Secondary COLOR



PRO Secondary COLOR		PRO Secondary COLOR Dual	
A	1,950 mm	A	2,000 mm
B	2,300 mm	B	2,300 mm
C	3,650 mm	C	4,500 mm

INSTALLATION EXAMPLE

PRO Secondary COLOR-NIR



PRO Secondary COLOR-NIR	
A	2,000 mm
B	2,300 mm
C	3,900 mm

PRODUCT SPECIFICATIONS

	PRO Secondary COLOR	PRO Secondary COLOR Dual	PRO Secondary COLOR-NIR
Size Range	20 - 120 mm	20 - 120 mm	20 - 120 mm
Feed Rate	up to 150 t/h	up to 150 t/h	up to 150 t/h
Size Ratio	1:3, max. 1:5	1:3, max. 1:5	1:3, max. 1:5
Operational width	1,200 mm	1,200 mm	1,200 mm
Sensors	Line Scan Camera	2x Line Scan Camera	Line Scan Camera and NIR Scanner
Number of Ejectors	192 / 156	192 / 156	192 / 156
Nozzle Pitch	6.25 mm / 8 mm	6.25 mm / 8 mm	6.25 mm / 8 mm
Electric Power	3 phase, approx. 11 kVA	3 phase, approx. 11 kVA	3 phase, approx. 12 kVA
Weight (approx.)	3,450 kg	3,850 kg	3,950 kg

The capacity, performance and dimension data are indicative and may change without prior notice. Exact numbers on request.

PRODUCT RANGE

PRO SERIES (Chute based)

Size range from 2 mm to 250 mm is covered by three models which can be equipped with COLOR, Near-Infrared (NIR), LASER and Electromagnetic (EM) technology or a combination thereof.

COM SERIES (Belt based)

High capacity sorting on a belt feeding system is key for this product series. Different models and widths are available which can be equipped with X-Ray Transmission (XRT), Electromagnetic (EM), COLOR and/or Near-Infrared (NIR) technology.

APPLICATIONS

COLOR

White Fillers, e.g. Talc, Calcite, Marble // Cement Minerals, e.g. Limestone, Gypsum // Industrial Minerals, e.g. Quartz, Magnesite, Fluorspar, Rock salt

NIR

White Fillers, e.g. Talc, Calcite, Marble // Cement Minerals, e.g. Limestone // Industrial Minerals, e.g. Magnesite, Lithium, Borate // Diamonds, e.g. Kimberlite

LASER

Industrial Minerals, e.g. Quartz, Lithium, Fluorspar // Precious metals, e.g. Gold

XRT

Diamonds // Industrial Minerals, e.g. Phosphate, Limestone // Base metals, e.g. Tungsten, Tin, Lead, Zinc // Precious metals, e.g. Gold // Ferrous metals, e.g. Iron Ore

EM

Slag, e.g. Stainless steel, Base metal, Ferro silica, Ferro chrome, Silica // Base metals, e.g. Massive Nickel sulphides // Ferrous metals, e.g. Manganese

 TOMRA

PRO Secondary COLOR/-NIR



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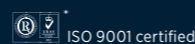
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2021/06 GB

SENSOR-BASED ORE SORTING SINCE 1993

PRO Secondary

The Industrial Processing (PRO) Series sorting equipment is designed for the typical minerals processing environment. The heavy duty and compact design based on the freefall principle is efficient and reliable. The particle size range from 20 mm to 120 mm is covered by the PRO Secondary which can be equipped with COLOR, Near-Infrared (NIR), LASER and Electromagnetic (EM) technology or a combination thereof.

TECHNOLOGY

COLOR

The COLOR identification technology consists of line scan cameras with high resolution and cutting-edge color selectivity. Multiple material characteristics like size, shape, brightness and color distribution are processed at the same time. The illumination unit consists of state-of-the-art, liquid-cooled LED technology, enabling repeatable and highly efficient sorting results.

COLOR Dual

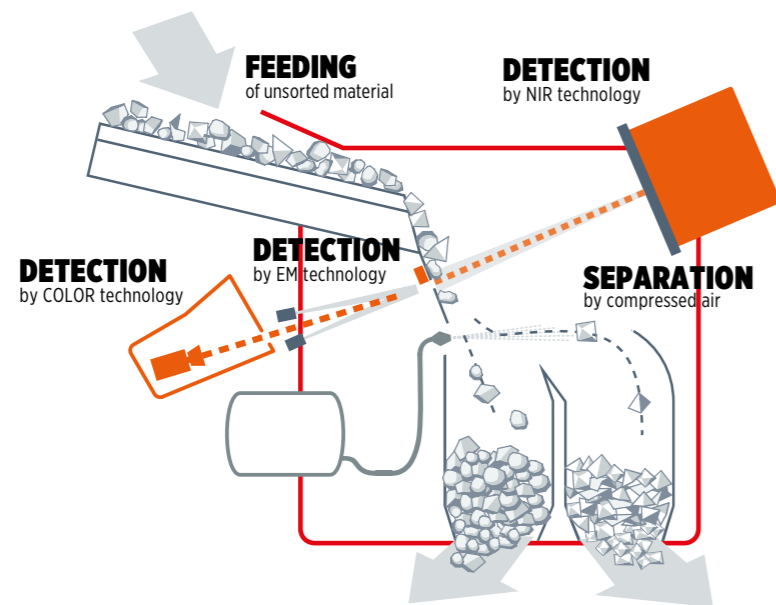
The COLOR Dual technology allows scanning of the feed material from two sides simultaneously covering more than 80 percent of the particle surface, a "must" for all layered and other partially liberated mineral formations.

NIR

This technology enables materials to be recognized and separated based on the absorption fingerprint in the Near-Infrared (NIR) wavelength range. TOMRA's patented FLYING BEAM® technology ensures stable, cost efficient and extremely reliable performance.

EM

The optional EM sensor allows the discrimination of particles by permeability and conductivity properties. The highly sophisticated SUPPIX® image processing technology enhances the resolution of the digitalized sensor signals. Thus it is possible to identify the finest conductive particles with great precision and subsequently separate them with a high degree of efficiency.



STANDARD APPLICATIONS

WHITE FILLER

(e.g. TALC, CALCITE, MARBLE)
Premium product quality production // Waste rock rejection // Removing of blasting cables
COLOR // COLOR DUAL // COLOR-NIR // EM

CEMENT MINERALS

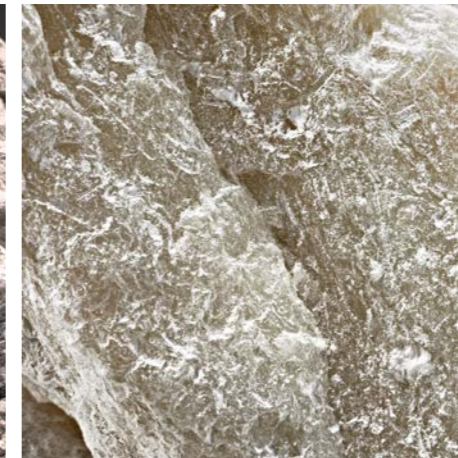
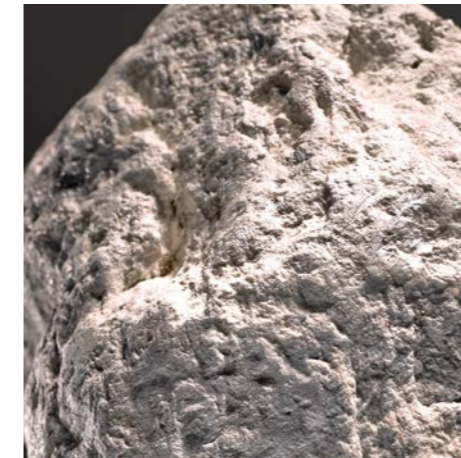
(e.g. LIMESTONE, GYPSUM)
Increase CaO-grade // MgO reduction // Removing of blasting cables
COLOR // COLOR DUAL // COLOR-NIR // EM

INDUSTRIAL MINERALS

(e.g. QUARTZ, MAGNESITE, FLUORSPAR, LITHIUM, BORATE)
Premium product quality production // Waste rock rejection // Removing of blasting cables
COLOR // COLOR DUAL // COLOR-NIR // EM

DIAMONDS

(KIMBERLITE)
Waste rock rejection
COLOR-NIR



TOMRA Sorting Solutions offers a variety of configurations for different tasks and conditions. You are welcome to check your individual material in one of our test centers. **E-mail: mining-sorting@tomra.com**

BENEFITS



Increase **Productivity**



Pre-concentration to reduce total operational and capital expenditures



Recovery of valuables from sub-economic deposits/dumps



Obtain a final **salable product**



Grade control through adjustable sensitivity



Physical separation process, **no reagents** needed