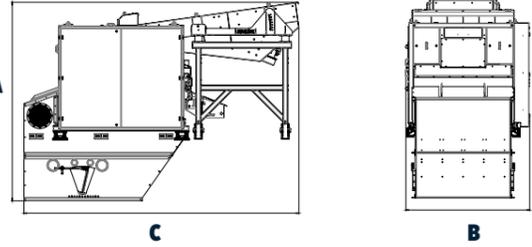
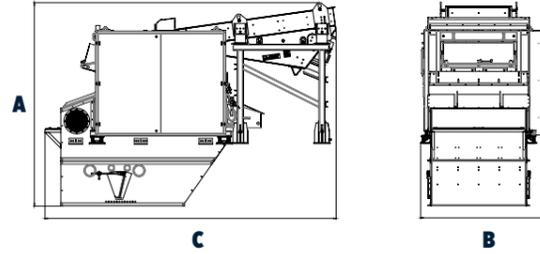


INSTALLATION EXAMPLE PRO Primary COLOR



PRO Primary COLOR		PRO Primary COLOR Dual	
A	3,750 mm	A	3,750 mm
B	2,350 mm	B	2,350 mm
C	5,200 mm	C	5,500 mm

INSTALLATION EXAMPLE PRO Primary COLOR-NIR



PRO Primary COLOR-NIR	
A	3,850 mm
B	2,350 mm
C	5,500 mm

PRODUCT SPECIFICATIONS

	PRO Primary COLOR	PRO Primary COLOR Dual	PRO Primary COLOR-NIR
Size Range	50 – 250 mm	50 – 250 mm	50 – 250 mm
Feed Rate	up to 300 t/h	up to 300 t/h	up to 300 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	192	192
Nozzle Pitch	6,25 mm	6,25 mm	6,25 mm
Electric Power	3 phase, approx. 11 kVA	3 phase, approx. 11 kVA	3 phase, approx. 12 kVA
Weight (approx.)	8,550 kg	8,650 kg	9,000 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 Primary COLOR/-NIR



 TOMRA

WWW.TOMRA.COM/MINING

Europe/Russia/China

TOMRA Sorting GmbH*
Feldstrasse 128
22880 Wedel/Hamburg
Germany
Phone: +49 4103 1888 0
Fax: +49 4103 1888 188
mining-sorting@tomra.com

Australasia

TOMRA Sorting Pty Ltd
Unit 1, 20 Anella Avenue
Castle Hill NSW 2154
Australia
Phone: +61 2 8624 0100
Fax: +61 2 8624 0101
mining-sorting@tomra.com

Southern Africa

TOMRA Sorting (Pty) Ltd
37 Angus Crescent
Longmeadow Business Estate
Edenvale 1609
South Africa
Phone: +27 11 010 0300
Fax: +27 86 602 4646
mining-sorting@tomra.com

North America

TOMRA Sorting, Inc.
1536 Cole Blvd, Suite 225
Golden, Colorado 80401
USA
Phone: +1 720 870 2240
Fax: +1 720 870 2241
mining-sorting@tomra.com

South America

TOMRA Brasil Soluções em
Segregação LTA
Rua Fernandes Moreira,
883-Chácara Santo Antonio
04716-002 São Paulo
Brazil
Phone: +55 11 3294 3400
mining-sorting@tomra.com



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SENSOR-BASED ORE SORTING SINCE 1993

PRO Primary

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 50 mm to 250 mm is covered by the PRO Primary which can be equipped with COLOR and Near-Infrared (NIR) technology or a combination thereof.

TECHNOLOGY

COLOR

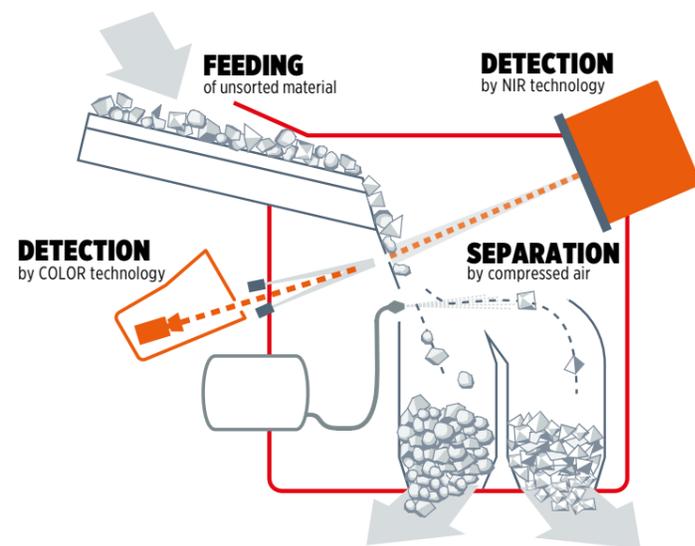
The COLOR identification technology consists of line scan cameras with high resolution and cutting-edge color selectivity. Multiple material characteristics like size, shape, brightness and color distribution are processed at the same time. The illumination unit consists of state-of-the-art, liquid-cooled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



STANDARD APPLICATIONS

WHITE FILLER

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

CEMENT MINERALS

(e.g. LIMESTONE, GYPSUM)
Increase CaO-grade // MgO reduction
COLOR // COLOR DUAL // COLOR-NIR

INDUSTRIAL MINERALS

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

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