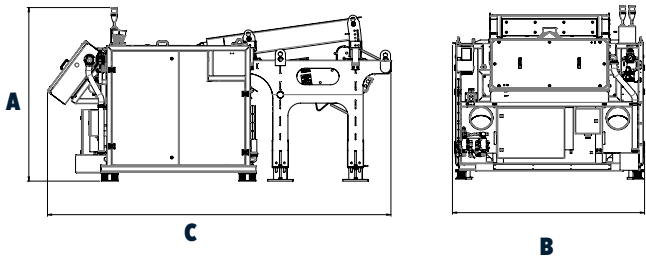
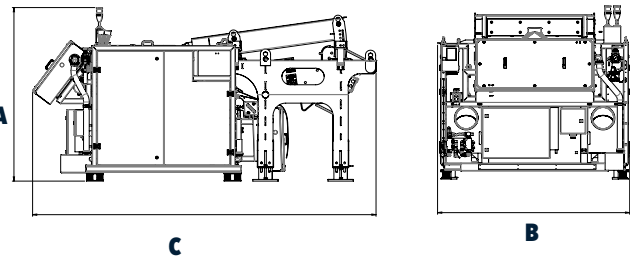


INSTALLATION EXAMPLE  
PRO Secondary LASER



| PRO Secondary LASER |          |
|---------------------|----------|
| A                   | 2,100 mm |
| B                   | 2,300 mm |
| C                   | 4,100 mm |

INSTALLATION EXAMPLE  
PRO Secondary LASER Dual



| PRO Secondary LASER Dual |          |
|--------------------------|----------|
| A                        | 2,100 mm |
| B                        | 2,300 mm |
| C                        | 4,100 mm |

PRODUCT SPECIFICATIONS

|                    | PRO Secondary LASER         | PRO Secondary LASER Dual       |
|--------------------|-----------------------------|--------------------------------|
| Size Range         | 20-120 mm                   | 20-120 mm                      |
| Feed Rate          | up to 100 t/h               | up to 100 t/h                  |
| Size Ratio         | 1:3, max. 1:5               | 1:3, max. 1:5                  |
| Operational width  | 1,200 mm                    | 1,200 mm                       |
| Sensors            | Multi-Channel Laser Scanner | 2x Multi-Channel Laser Scanner |
| Number of Ejectors | 192 / 156                   | 192 / 156                      |
| Nozzle Pitch       | 6,25 mm / 8 mm              | 6,25 mm / 8 mm                 |
| Electric Power     | 3 phase, approx. 14 kW      | 3 phase, approx. 15 kW         |
| Weight (approx.)   | 3,950 kg                    | 4,150 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



# PRO Secondary LASER



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



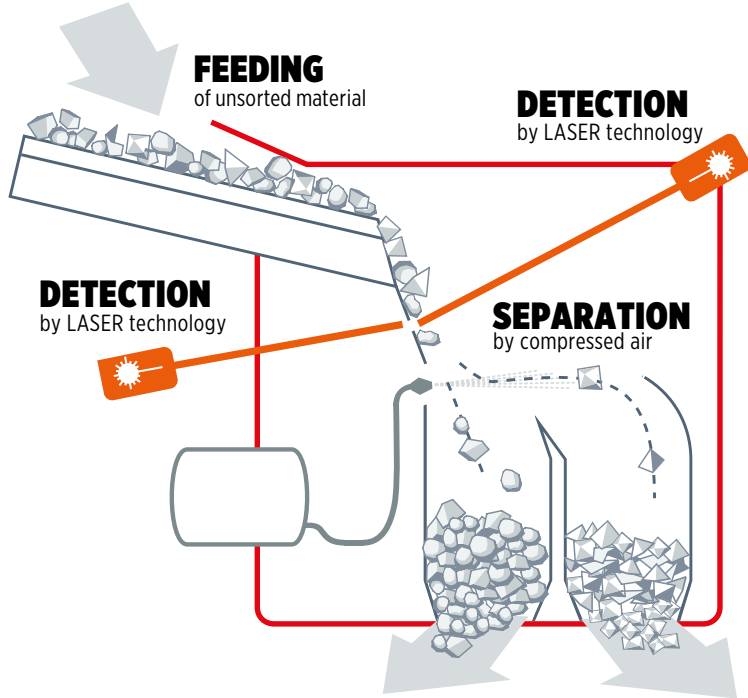
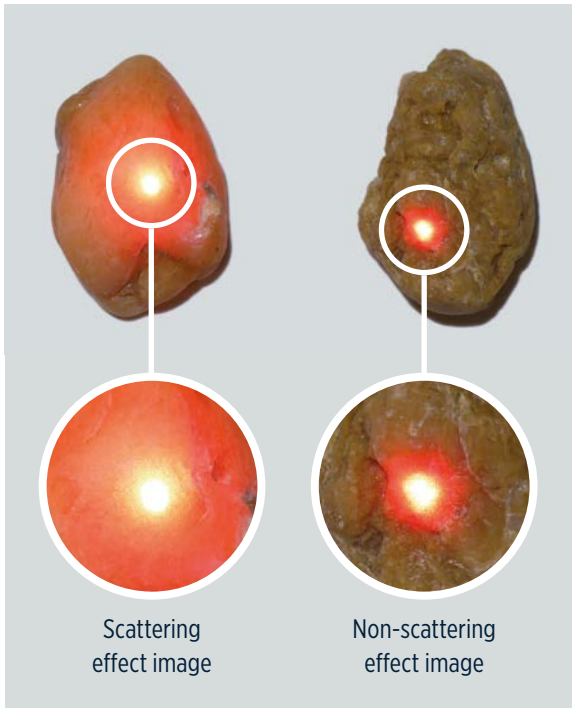
# PRO Secondary

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

### LASER

The LASER identification technology consists of a patented multi-channel laser scanning system with high resolution resulting in cutting-edge structural and spectral selectivity. Multiple material characteristics including surface structure, brightness, color, transparency, size and shape are processed at the same time. The LASER 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 mineral formations.



## STANDARD APPLICATIONS

### INDUSTRIAL MINERALS

(e.g. QUARTZ, LITHIUM, FLUORSPAR)  
Premium product quality production //  
Waste rock reduction // LASER //  
LASER DUAL

### PRECIOUS METALS

(e.g. QUARTZ ASSOCIATED GOLD)  
Pre-concentration // Increase productivity //  
Reduced cash costs // Marginal resources  
turned into reserves // LASER DUAL



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](mailto: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