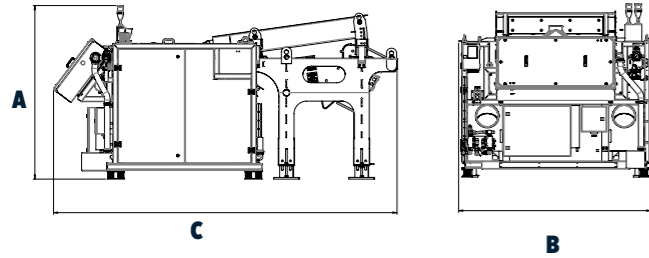


## INSTALLATION EXAMPLE

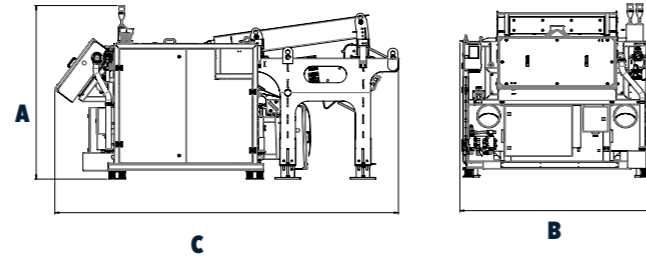
### PRO Secondary LASER



PRO Secondary LASER	
<b>A</b>	2,100 mm
<b>B</b>	2,300 mm
<b>C</b>	4,100 mm

## INSTALLATION EXAMPLE

### PRO Secondary LASER Dual



PRO Secondary LASER Dual	
<b>A</b>	2,100 mm
<b>B</b>	2,300 mm
<b>C</b>	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



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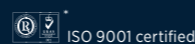
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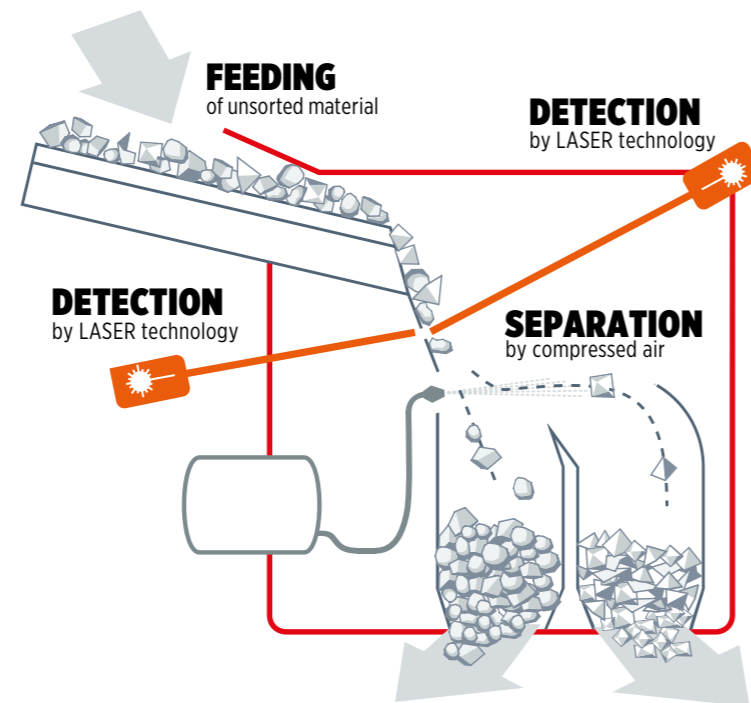
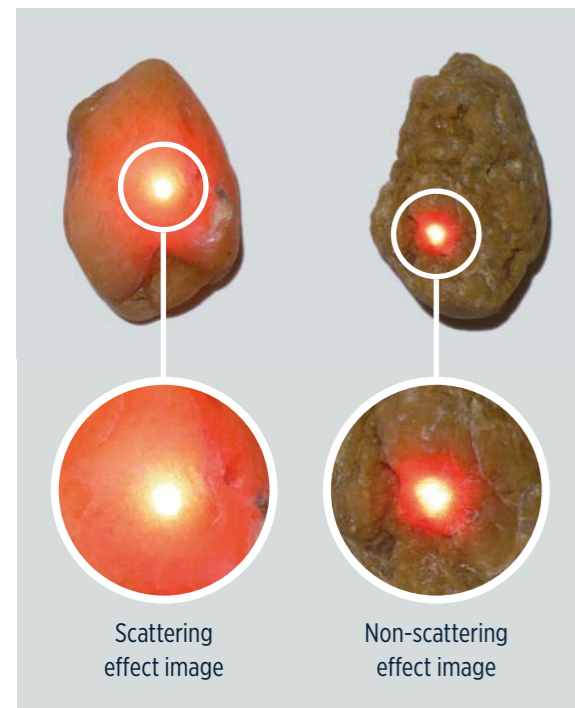
# PRO Secondary

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.



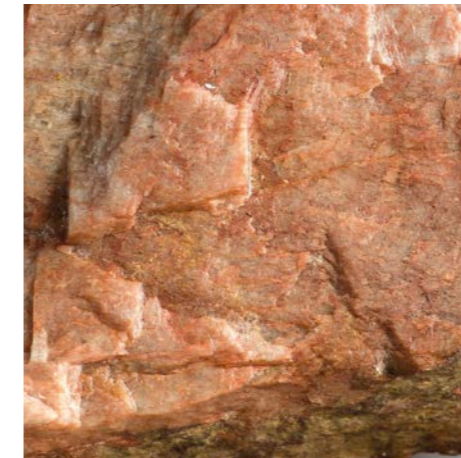
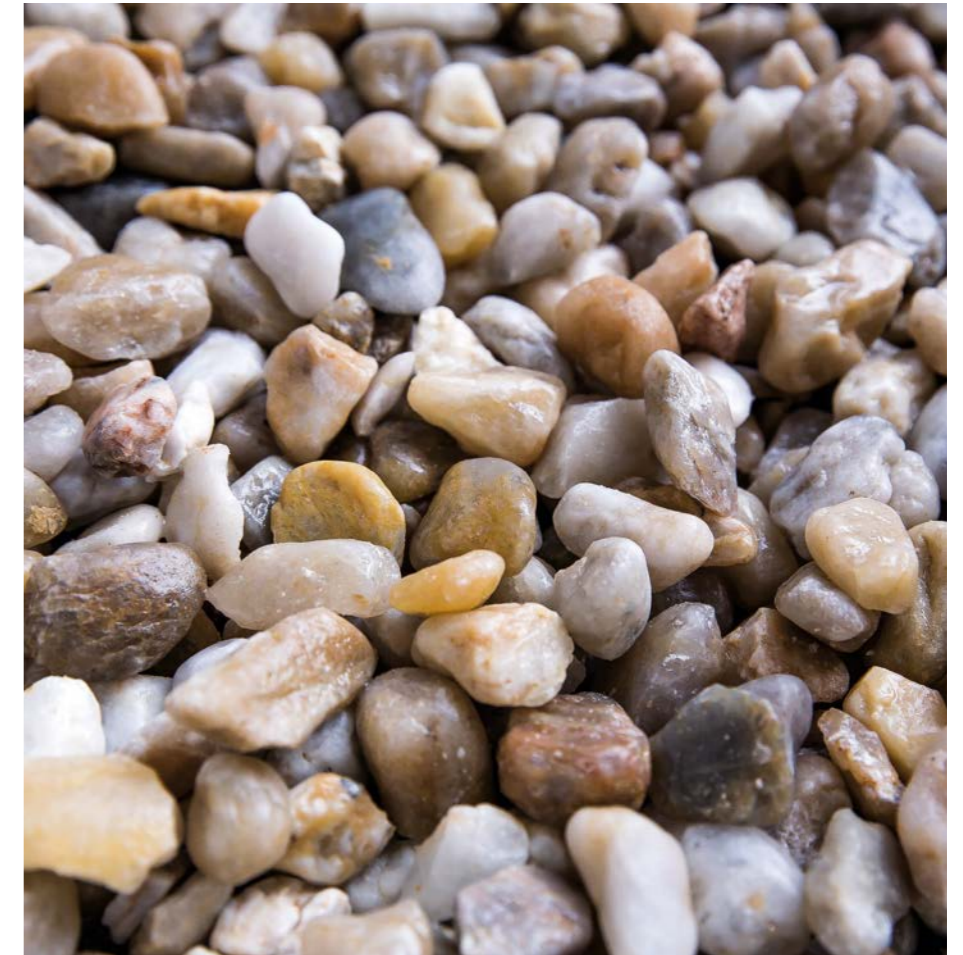
## STANDARD APPLICATIONS

### 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