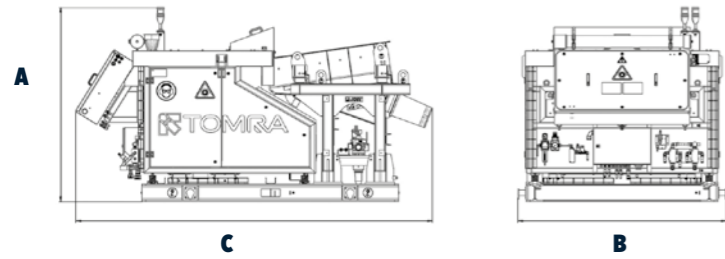


INSTALLATION EXAMPLE

PRO Tertiary LASER



PRO Tertiary LASER	
A	2,100 mm
B	2,150 mm
C	3,680 mm

PRODUCT SPECIFICATIONS

	PRO Tertiary LASER
Size Range	6 – 32 mm
Feed Rate	up to 30 t/h
Size Ratio	1:3
Operational width	1,200 mm
Sensors	Multi-channel LASER scanner
Number of Ejectors	304
Nozzle Pitch	4 mm
Electric Power	3 phase, approx. 6 kVA
Weight (approx.)	3,620 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 Tertiary LASER



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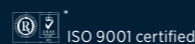
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SENSOR-BASED ORE SORTING SINCE 1993

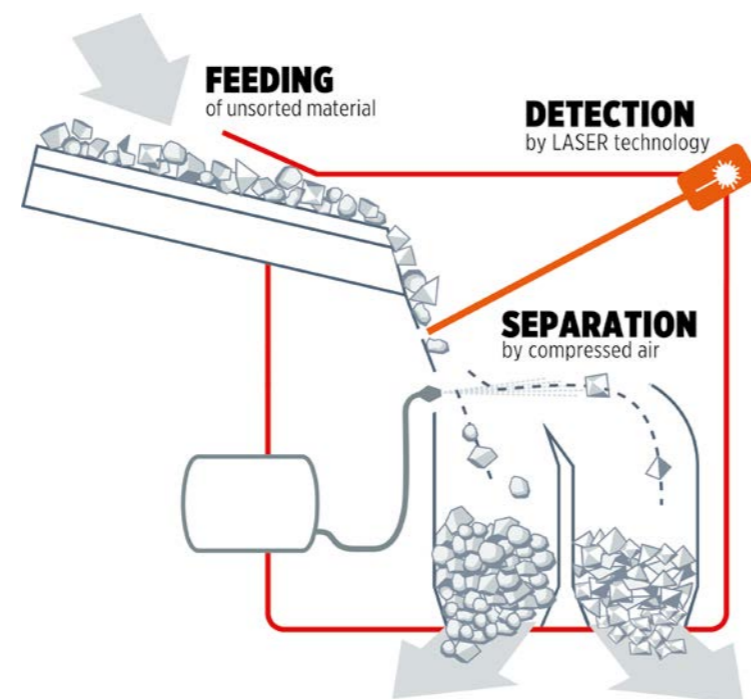
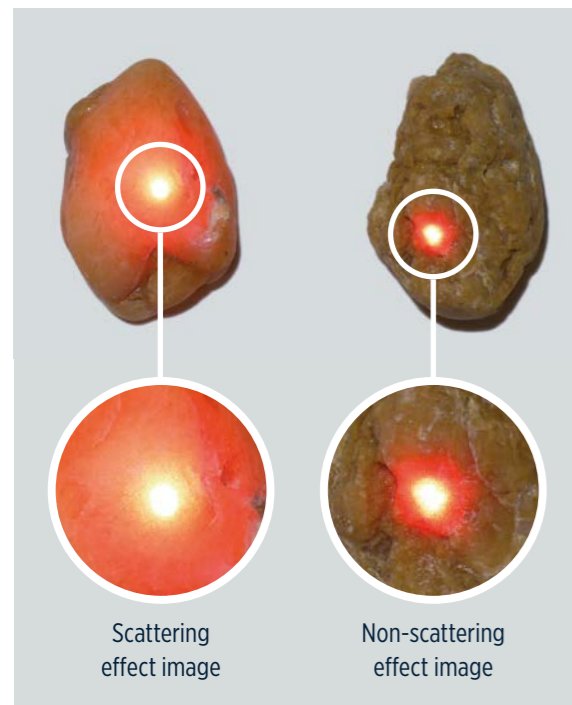
PRO Tertiary

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 between 6 mm and 32 mm is covered by the PRO Tertiary. This series can be equipped with COLOR or LASER technology.

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.



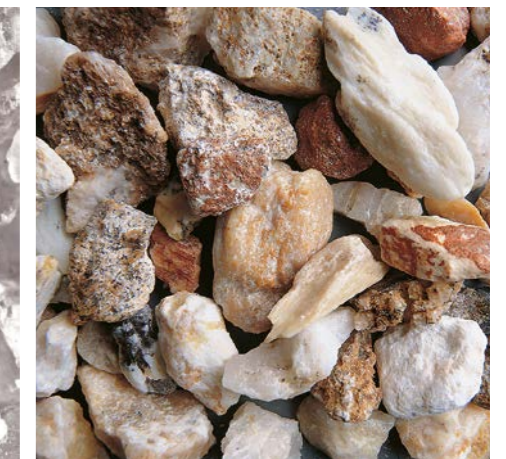
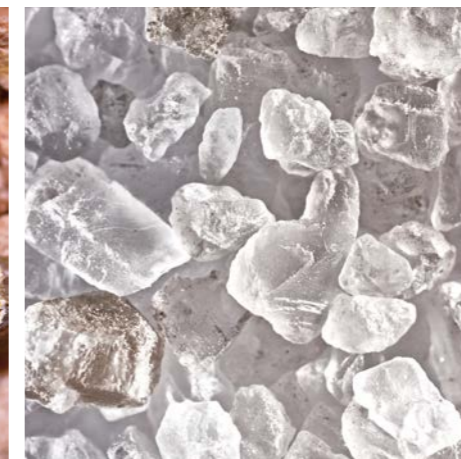
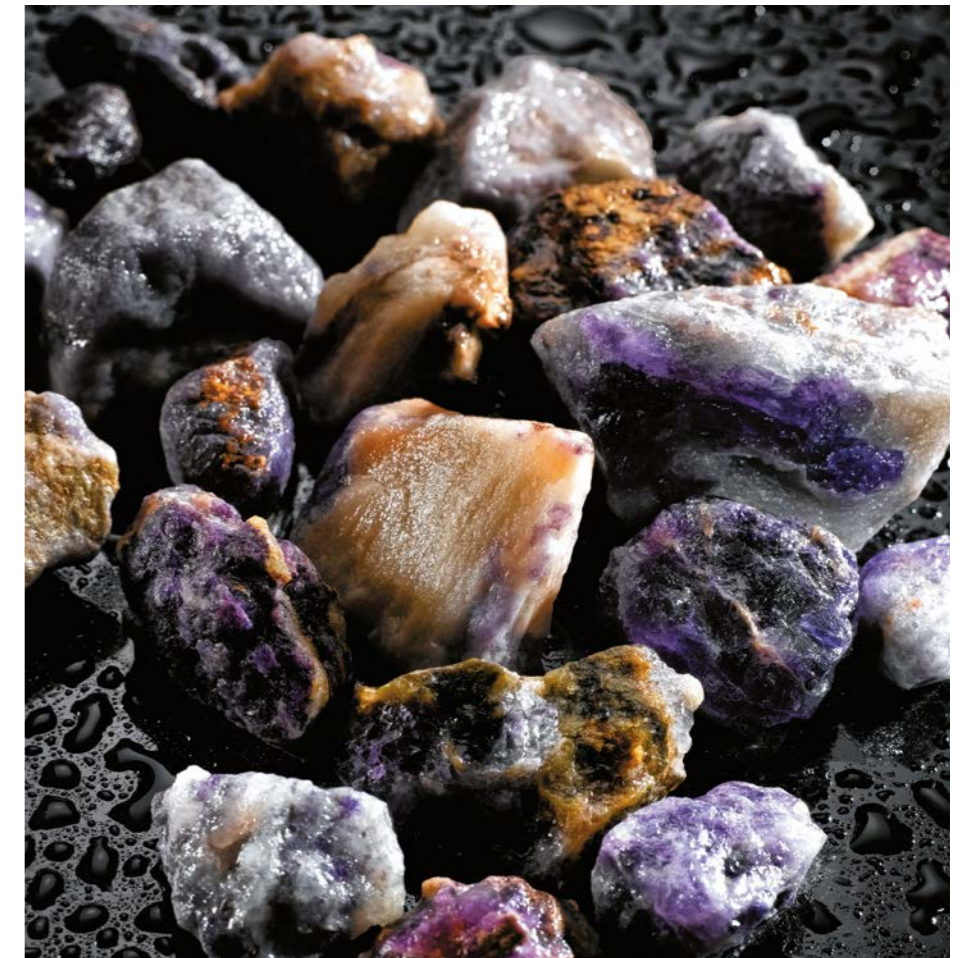
STANDARD APPLICATIONS

INDUSTRIAL MINERALS

(E.g. QUARTZ, LITHIUM, FLUORSPAR, SALT)
Premium product quality production //
Waste rock rejection
LASER

PRECIOUS METALS

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



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