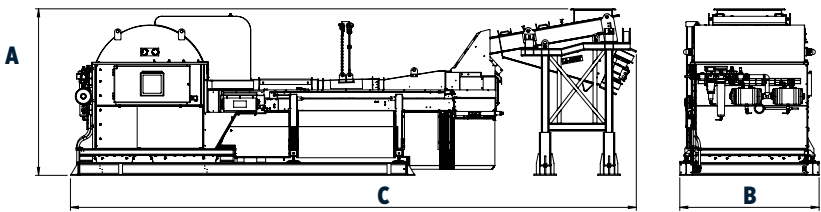


INSTALLATION EXAMPLE
COM TERTIARY XRT

COM TERTIARY XRT



COM TERTIARY XRT 1200	
A	2600 mm
B	2200 mm
C	8900 mm

PRODUCT SPECIFICATIONS

COM TERTIARY XRT	
Size Range	4 - 60 mm
Feed Rate	up to 150 t/h
Size Ratio	1:3
Operational Width	1,200 mm
Sensors	X-ray sensor, High Resolution (HR) or High Sensitivity (HS)
Number of Ejectors	192 / 152
Nozzle Pitch	6,25 mm / 8 mm
Electric Power	3 phase, approx. 15 kVA
Weight (Sorter)	7670 kg
Weight (Feeder)	1750 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

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

COLOR

Industrial Minerals, e.g. Magnesite, Calcite, Talc, Quartz, Feldspar, Burnt lime

LASER

Industrial Minerals, e.g. Quartz, Fluorspar, Spodumene, Rock salt // Precious metals, e.g. Gold

NIR

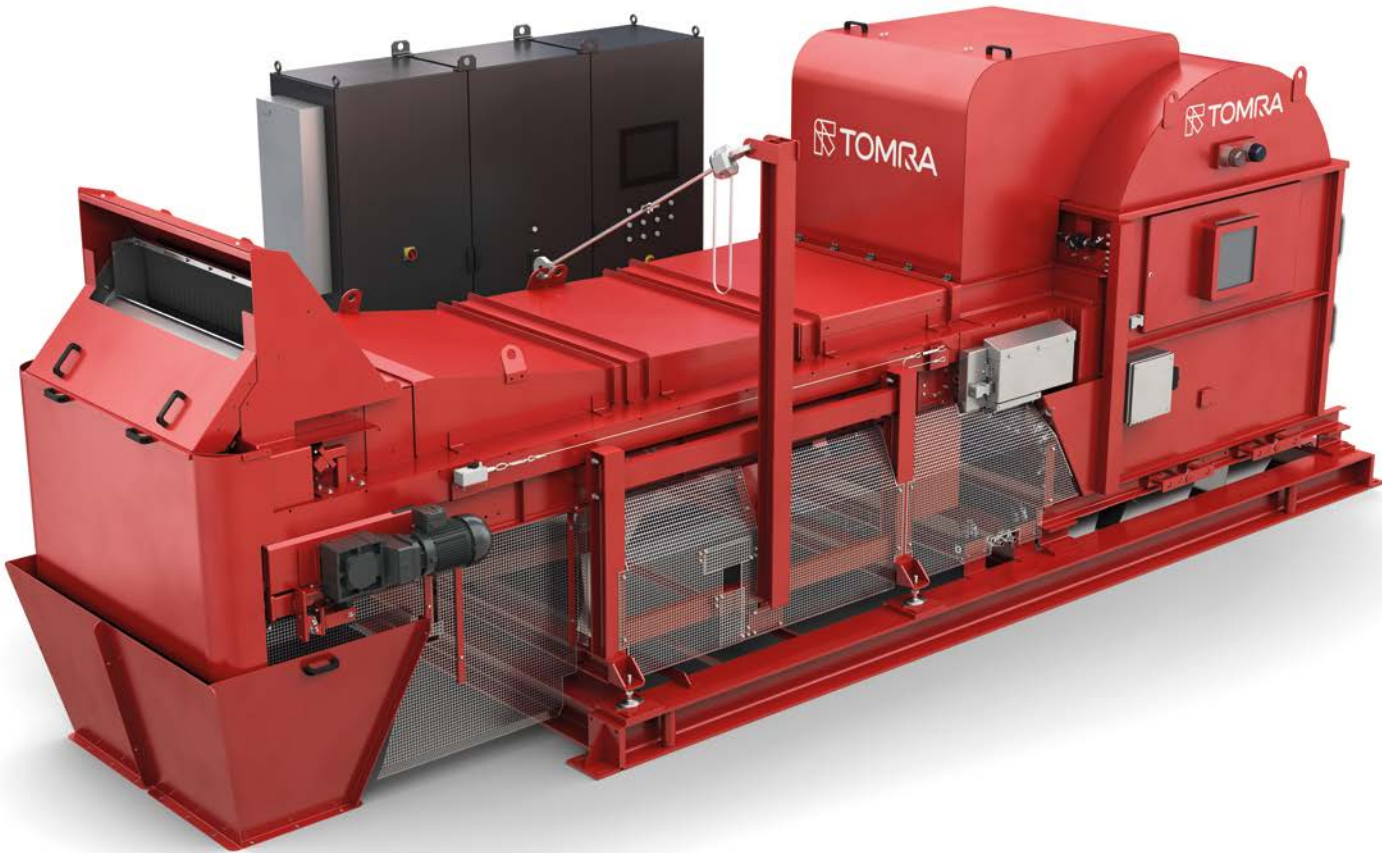
Industrial Minerals, e.g. Talc, Borate, Calcite, Lithium // Kimberlite

EM

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



COM Tertiary XRT



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COM TERTIARY XRT

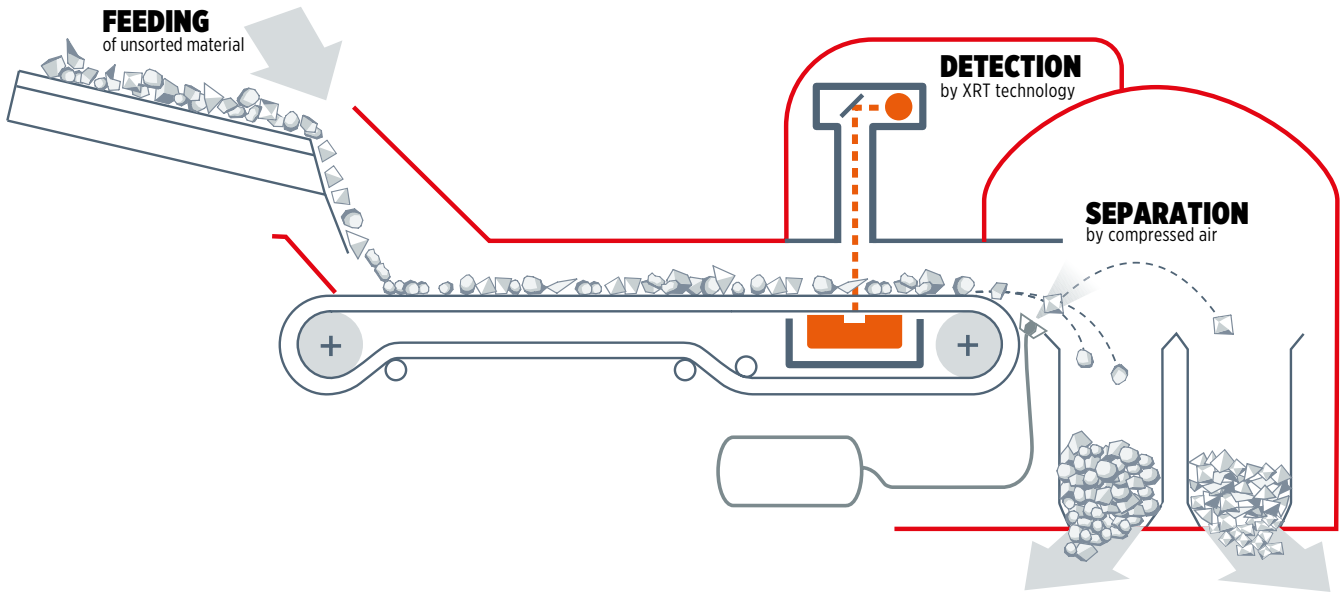
The COM (common belt) series sorting equipment covers the range of applications which require a belt feeding system. The belt principle allows the presentation of a less uniform feed. The particles can stabilize on the belt before they are scanned by the sensor(s). Two sensor technologies are available, XRT and EM.

TECHNOLOGY XRT

X-ray transmission technology enables materials to be recognized and separated based on their specific atomic density. It is based on a planar projection of X-ray attenuation of single particles in a stream. This technology makes it possible to obtain a high separation performance in sorting materials irrespective of size, moisture, dust or dirt on a surface.

TECHNOLOGY 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

DIAMONDS (KIMBERLITE, ALLUVIAL)

Primary Diamond Concentration // XRT

INDUSTRIAL MINERALS (E.G. PHOSPHATE, LIMESTONE, MAGNESITE, LITHIUM)

Waste rock reduction //
Transport, wear and process cost savings // XRT

FERROUS METALS (E.G. CHROMITE, IRON ORE)

Lump ore production // Pre-concentration //
Transport and process cost savings // XRT

BASE METALS (E.G. TUNGSTEN, TIN, LEAD, ZINC, COPPER)

Pre-concentration // Increase productivity //
Reduced cash costs // Marginal resources turned
into reserves // XRT // EM

PRECIOUS METALS (E.G. GOLD)

Pre-concentration // Increase productivity //
Reduced cash costs // Marginal resources turned
into reserves // XRT // EM



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 CASH
COST AND CAPITAL
EXPENDITURE



DRY PROCESSING
WITHOUT COMPLEX
WATER HANDLING
INFRASTRUCTURE



RECOVERY OF MARGINAL
WASTE DUMPS



OBTAIN A FINAL
SALABLE PRODUCT



GRADE CONTROL
THROUGH ADJUSTABLE
SENSITIVITY