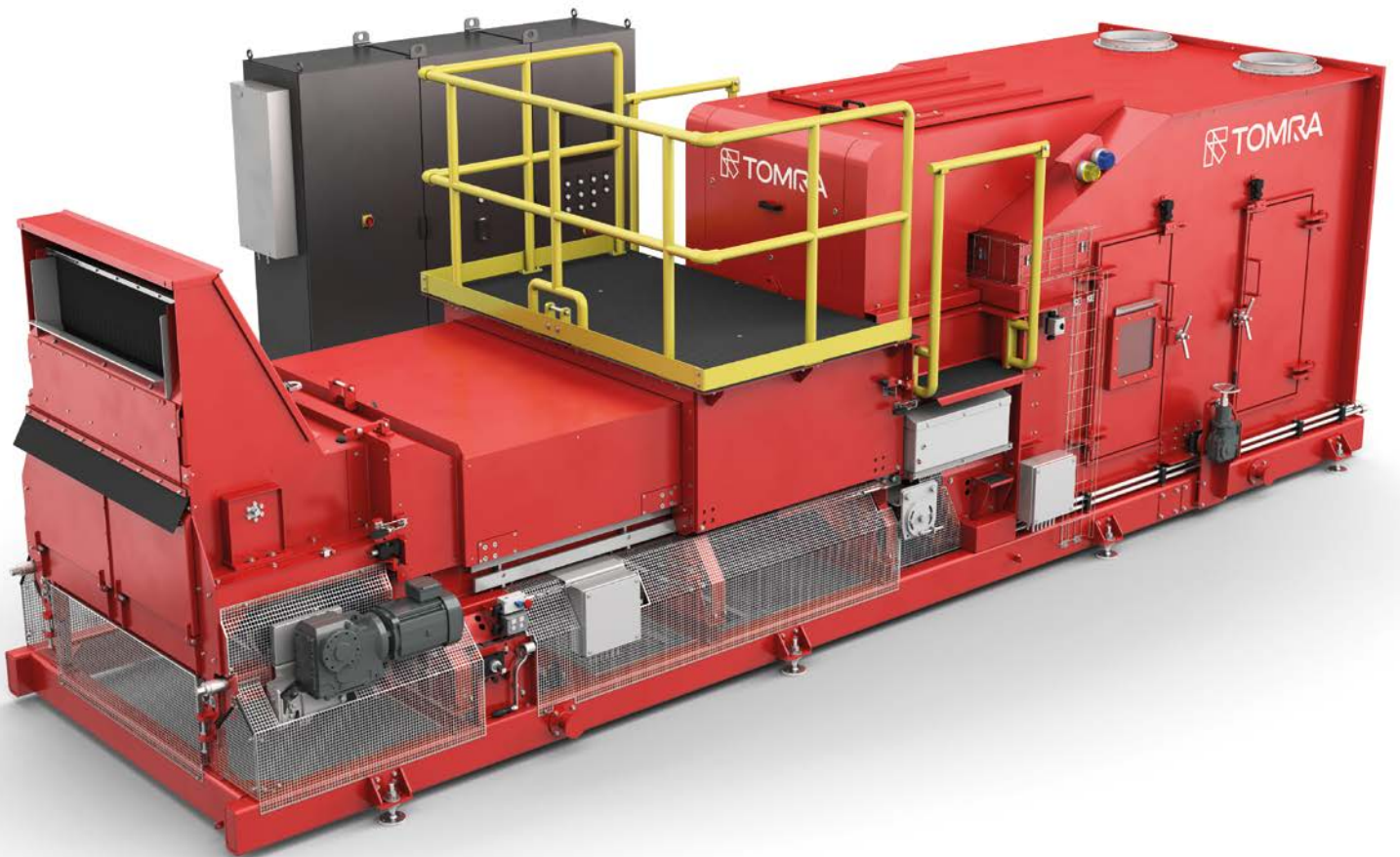


# COM XRT 2.0



# COM XRT 2.0

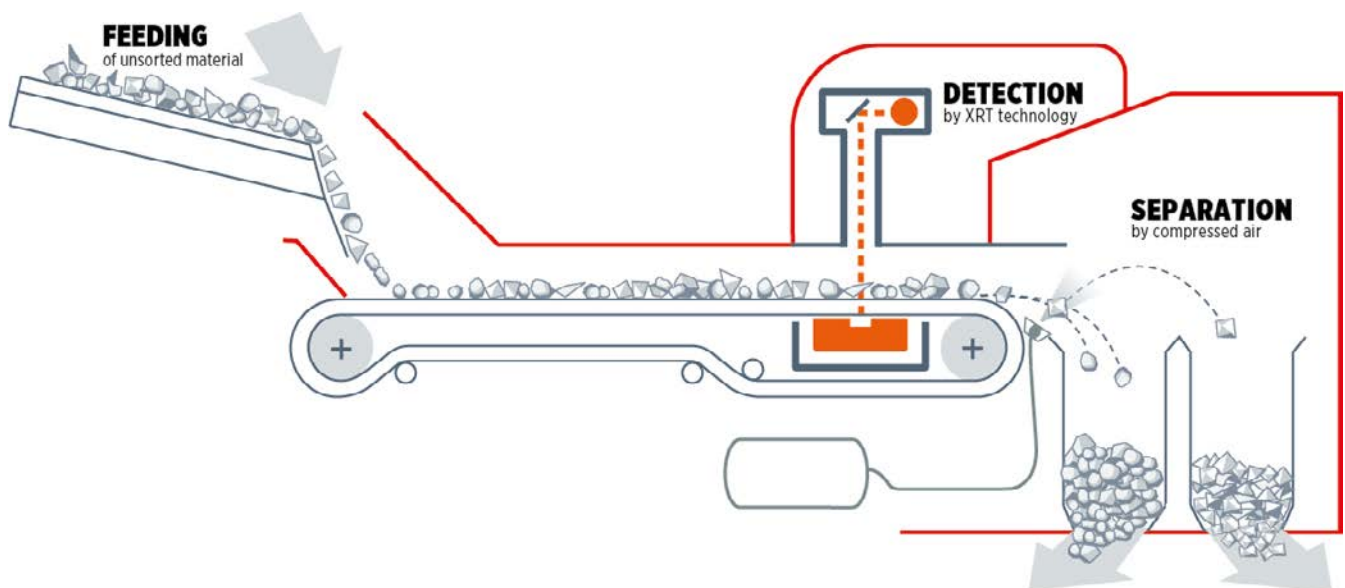
The COM (common belt) series sorting equipment covers the range of applications which require a belt feeding system. The belt principle allows the presentation of a less uniform feed. The particles can stabilize on the belt before they are scanned by the sensor(s). Two sensor technologies are available,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



## BENEFITS



INCREASE  
**PRODUCTIVITY**



**PRE-CONCENTRATION**  
TO REDUCE TOTAL CASH  
COST AND CAPITAL  
EXPENDITURE



**DRY PROCESSING**  
WITHOUT COMPLEX  
WATER HANDLING  
INFRASTRUCTURE



## 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](mailto:mining-sorting@tomra.com)



**RECOVERY** OF MARGINAL  
WASTE DUMPS



OBTAIN A FINAL  
**SALABLE PRODUCT**



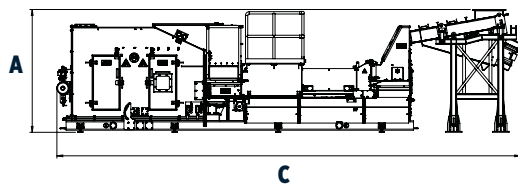
**GRADE CONTROL**  
THROUGH ADJUSTABLE  
SENSITIVITY



## INSTALLATION EXAMPLE

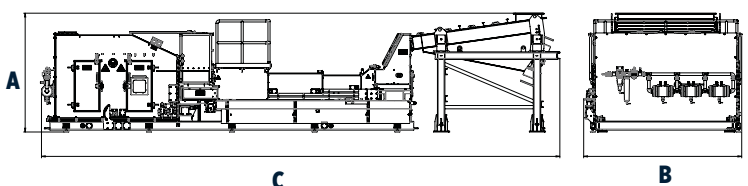
### COM XRT 2.0

COM XRT 1200 2.0



	COM XRT 1200 2.0
<b>A</b>	2600 mm
<b>B</b>	2400 mm
<b>C</b>	9850 mm

COM XRT 2400 2.0



	COM XRT 2400 2.0
<b>A</b>	2900 mm
<b>B</b>	3650 mm
<b>C</b>	11900 mm

## PRODUCT SPECIFICATIONS

	COM XRT 1200 2.0	COM XRT 2400 2.0
Size Range	10 - 125 mm	10 - 125 mm
Feed Rate	up to 250 t/h	up to 500 t/h
Size Ratio	1:3	1:3
Operational width	1,200	2,400
Sensors	X-ray sensor, High Resolution (HR) or High Sensitivity (HS)	X-ray sensor, High Resolution (HR) or High Sensitivity (HS)
Number of Ejectors	192 / 152	384 / 300
Nozzle Pitch	6,25 mm / 8 mm	6,25 mm / 8 mm
Electric Power	3 phase, approx. 18 kVA	3 phase, approx. 22 kVA
Weight (Sorter)	13600 kg	21400 kg
Weight (Feeder)	1750 kg	3700 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



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