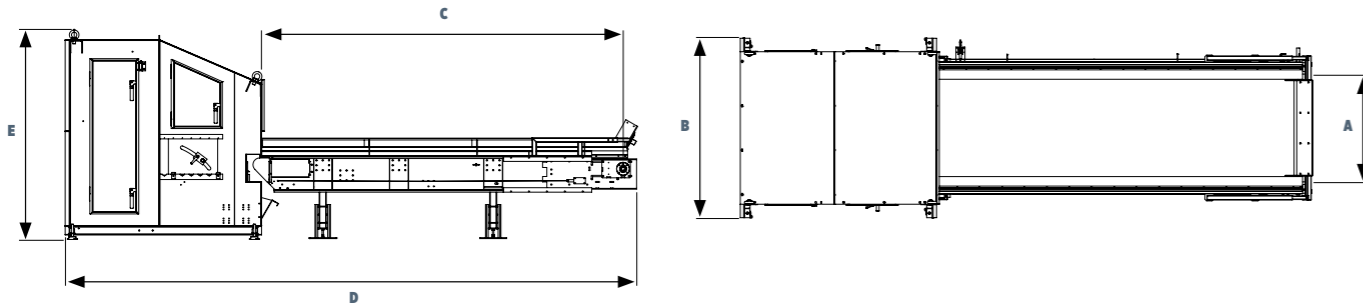


Installation example



	FINDER 600	FINDER 1200	FINDER 1800	FINDER 2400	FINDER 3000
A	600 mm	1,200 mm	1,800 mm	2,400 mm	3,000 mm
B	1,400 mm	2,000 mm	2,600 mm	3,200 mm	3,800 mm
C	4,000 mm	4,000 mm	4,000 mm	4,000 mm	4,000 mm
D	6,420 mm	6,420 mm	6,420 mm	6,420 mm	6,420 mm
E	2,084 mm	2,084 mm	2,084 mm	2,115 mm	2,115 mm

Exact dimensions on request

PRODUCT SPECIFICATIONS

VALVE BLOCK MODEL, NOZZLE DISTANCE	FINDER* 600	FINDER 1200	FINDER 1800	FINDER 2400	FINDER 3000
TS1500, 6.25 mm	48 valves	96 valves	144 valves	192 valves	240 valves
TS400, 6.25 mm	96 valves	192 valves	288 valves	384 valves	480 valves
TS200, 6.25 mm	96 valves	192 valves	288 valves	384 valves	480 valves
Weight	2,580 kg	3,550 kg	4,360 kg	5,760 kg	6,520 kg
Power Consumption	4.3 kW	4.3 kW	6.1 kW	6.6 kW	8.1 kW

OPTIONS

SENSOR HEIGHT ADJUSTMENT

For improved adaptability to special application needs

WEAR AND TEAR PACKAGE

Heavy duty version for higher robustness and a longer life

REMOTE ACCESS

Safe network connection for easy and fast service reaction

ROTATING SPLITTER

Automatic cleaning of the splitter for long objects, e.g. wires

DOUBLE TRACK

Sorting two grain sizes in parallel with one detection unit

ADAPTIVE BELT CALIBRATION

Continuous belt monitoring and check for permanent metal inclusions

PRODUCT RANGE

AUTOSORT

Mixed packaging waste, RDF, Sorting paper, PET/PE recycling

FINDER

Metal recovery and metal contaminant removal

COMBISENSE

E-scrap recycling, nonferrous metal processing, cable recycling

X-TRACT

Automobile recycling, CRT glass, industrial/domestic waste, RDF production

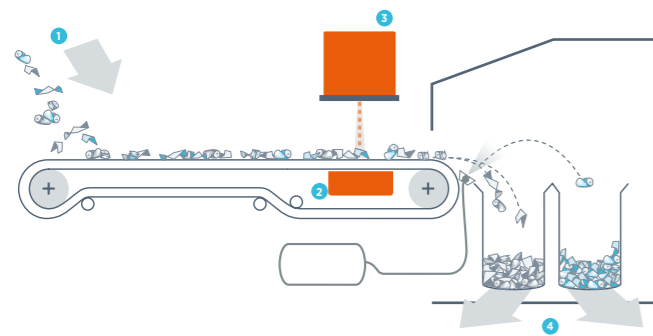
FINDER

WITH SUPPIX® + DEEP DATA IMAGE PROCESSING



FINDER

The FINDER is specialized to separate high purity metal fractions from even the most difficult fractions in terms of composition, grain size and mix from mixed waste and metal streams.



- 1 Feeding of unsorted material
- 2 Electromagnetic sensor
- 3 Optional spectrometer scanner
- 4 Separation chamber

TECHNOLOGY

In addition to TOMRA Sorting's proven SUPPIXX® image processing capability, the next generation FINDER benefits from the company's new DEEP DATA technology. The FINDER operates by its sensors first identifying the finest conductive particles in a flow of bulk solids. SUPPIXX® is then used to enhance the resolution of the digitized sensor signals. TOMRA Sorting's DEEP DATA technology generates further valuable information from the digitized sensor signals, enabling the FINDER to detect complete objects and sort metal particles by full shape, size and signal intensity. By combining SUPPIXX® and DEEP DATA technologies, the FINDER enhances the system's precision and provides continuous monitoring of the whole conveyor belt. The FINDER also continuously checks for permanent metal inclusions, ensuring that the product quality is optimized at all times, and significantly enhances sorting stability.

BENEFITS

- + Increased product purity (5 to 15%)
- + Maximum metal recovery
- + Stable sorting performance
- + Reduced air consumption (15 to 25%)
- + Additional process monitoring
- + Service hotline



New DEEP DATA technology increases sorting performance and stability

RESOLUTION

EM sensor is available in two resolutions: 25 mm and 12.5 mm coil diameter. Minimum particle size of metal objects, which the EM sensor is still in position to detect: 1–2 mm.

EXAMPLE // AUTOMOBILE RECYCLING

Automobile shredder systems can recycle a high percentage of ferrous and non-ferrous metals from the crushed car bodies. The residues however still contain typically up to 20 percent of non-ferrous metals and stainless steel. The FINDER with its highly sensitive sensors can detect even the smallest metal particles and separate them by compressed air jet from this scrap of the shredder systems – the fine fraction, the eddy-current waste and the shredder light fraction. Mixed metals are thus recycled with high enrichment and the residue material flow is almost free of metals.



SENSOR CONFIGURATIONS

- A** // Our highly sensitive electromagnetic sensor (EM) with SUPPIXX® + DEEP DATA image processing recognizes materials based on their conductivity for highest product purities on high throughput requirements – **EM3**
- B** // The combination of an EM sensor and a near-infrared (NIR) spectrometry sensor delivers information to recognize materials based on their conductivity and unique spectral properties – **EM3-NIR1** [poly]

STANDARD APPLICATION PACKAGES	MODELS	
	A	B
ALL METAL RECOVERY	Recovering all metals	● ●
STAINLESS STEEL	Producing a clean stainless steel fraction	● ●
WIRE RECOVERY	Producing a clean insulated copper wire fraction	● ●
PLASTICS RECOVERY	Recovering all visible plastics	●
POLYMER SORTING	Separating different polymers, e.g. PP/PS/PE, ABS/ABS-PC	●
SPECIAL APPLICATIONS	Upgrade of metals and removal of impurities	● ●

TOMRA Sorting 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: recycling-sorting@tomra.com