GRANULATED COPPER MATERIAL

ADVANCED SENSOR-BASED SORTING TECHNOLOGY FOR OPTIMIZED RESULTS
COPPER GRANULATE SORTING: CONSTANTLY EXCEPTIONAL QUALITY

YOUR CHALLENGE: EFFECTIVELY OBTAINING HIGH QUALITY STANDARDS OF COPPER GRANULATE
Copper Granulate, recovered by the recycling of Copper containing wires, has all the potential of high-value resource. After removal of impurities, Polymers and Ferrous from Granulate, it still contains up to 3% of Lead, Brass or Aluminum. These remaining impurities cannot be removed by common technologies such as screening or densimetric tables.

OUR ANSWER: ACHIEVE SUPERIOR QUALITY – ECONOMICALLY
Sensor-based technology makes it worthwhile to sort Copper Granulate. The COMBINESE CHUTE competently removes the remaining pollutants – with an especially high efficiency of lead removal. Even low-grade Copper Granulates can be refined to grade 2, 1 or Milberry levels. The Copper recovery rate in this process is kept stable at > 97%. Flexible systems allow integration on a modular basis, resulting in relatively low initial investment – and quick ROI.
THE SOLUTION: SEAMLESS AND FLEXIBLE

Copper Wire is pre-processed via multiple shredding/granulation and density separation steps utilizing air tables.

The heavy fraction from the pre-process – now a Copper concentrate – is passed through the COMBISENSE CHUTE to further enhance the Granulate’s purity by ejecting impurities (e.g. Lead).

The result: highest value, highest purity Copper Granulate
BEGINNING WITH EXTENSIVE TESTING OF THE COMBISENSE CHUTE AT TOMRA’S TEST CENTER WITH PRODUCT PRIMARILY SORTED THROUGH OUR EDDY CURRENT SEPARATOR D15, AND FOLLOWED BY SUBSEQUENT ON-SITE OPTIMIZATION THROUGH TOMRA’S SERVICE ENGINEERS, WE WERE ABLE TO STRONGLY ENHANCE PRODUCT QUALITY BY REDUCING BOTH BRASS AND LEAD CONTENT IN THE COPPER GRANULATE. THANKS TO THE COMBINATION OF MTB’S D15 AND TOMRA’S COMBISENSE CHUTE, THE REFINING OPERATION HAS RESULTED IN UPGRADING YIELD FROM LOW QUALITY TO HIGHER OR EVEN SOMETIMES HIGHEST CLASS LEVELS, LEADING TO STABLE AND SECURE FEEDSTOCK.

Nicolas HEUCLIN, Business Development Manager, MTB, Trept - France
THE TOMRA SORTING ADVANTAGE

HIGH THROUGHPUT, HIGH CONSISTENCY, HIGH PRODUCT YIELD
RESULTS IN HIGH PROFITS

FIELD-PROVEN PROCESS AND ROBUST MACHINE DESIGN
TESTED IN MULTIPLE APPLICATIONS WORLDWIDE

SUBSTANTIALLY LESS DOWN-TIME, GREATER OUTPUT STABILITY AND LOW ENERGY CONSUMPTION THROUGH EXCLUSIVE, PATENTED AND PIONEERING TECHNOLOGY

SUPERIOR ALL-AROUND SERVICE SUPPORT WITH TOMRA CARE

SHORT PAYBACK PERIOD FOR SORTING TECHNOLOGY

FLEXIBLE SOLUTIONS FOR EASY INTEGRATION
AS A TECHNOLOGY LEADER, TOMRA SORTING RECYCLING CONTINUES TO BE PIONEER IN SENSOR-BASED SORTING IN THE WASTE AND METAL RECYCLING INDUSTRIES. WITH OVER 4,400 UNITS INSTALLED IN MORE THAN 50 COUNTRIES, OUR EXPERTISE AND SUPERIOR SERVICE ALLOW US TO DELIVER HIGH-PERFORMANCE SORTING AND ANALYTICAL SOLUTIONS TO OUR CUSTOMERS IN A BROAD RANGE OF APPLICATIONS.

Find out why:
www.tomra.com/recycling