

## **Recycling process and metal recovery for ferroalloy slag of OFZ, a. s.**

The Important parts of modern metallurgical industry are recycling and utilization of all their by-products. Slag is one of the main by-product of ferroalloys production. In case the slag is being processed appropriately, we will have good products to reuse them in main production and other industries. The quality of slag processing reduces the negative impact on the environment, what is one main priority of modern company.

If we have a slag from a wide range of ferroalloys, namely ferromanganese (HC FeMn, MC FeMn), ferrosilicomanganese (FeSiMn), ferrosilicon (FeSi), ferrochromium (FeCr) and other, we have a large variability in physical properties (magnetic, weight, etc). In this case, the main task in the process of slag utilization is the separation of mineral and metal components. Consequently, there is a problem of choosing a universal technology for the extraction of metals from various ferroalloy slags. Today, to achieve this, the sensor sorting technology (MLS Sorter) is the most appropriate technology.

For many years the OFZ, a.s. conducted research in sphere of universal technology development and adaptation of technologies, which would solve the problem of effective slag recycling. In this paper we analyze the evolution of sorting slag process and the current process indicators.