



## Versatile and time-tested: Separation using magnetic separators

- › Wet Drum Separator WDS  
Heavy Media, Ore & Beneficiating



# Separation Technology for Local & International Mineral Processing Operations

Steinert has more than 120 years of innovation and ingenuity which is targeted for their clients - to increase yield, improve product quality, reduce process costs and improve process efficiency. We are actively engaged in delivering superior iron ore beneficiation, improving MagSeps performance for heavy media recovery and offering process solutions.

Mineral processing is a global business requiring global partners that are available and quick to respond. With manufacturing plants in Germany, Australia and Brazil, Steinert is represented world-wide, including a customer service network with specially trained service partners. Our involvement begins at the concept stage, through feasibilities and the tendering process, until the final outcome – commissioning that is combined with active after-sales service and support. Steinert welcomes the opportunity to assist clients with their future project requirements.

Steinert's permanent magnet wet drum separators have been beneficiating iron ore and heavy media successfully for decades. In iron ore processing, the wet drum separator separates magnetic iron ore such as magnetite from waste rock - at P80's commonly down to 28µm. Steinert has continued to develop several aspects of the WDS. Heavy media recovery - magnetite or ferrosilicon - is near on 100% efficient. The feed mechanism and separation zone are optimised according to maximum flow principles. By introducing powerful neodymium iron boron magnets, fields of up to 7,000 Gauss can be achieved, meaning Steinert can also offer so-called medium-intensity magnetic separators (MIMS). Advanced 3D calculation software incorporating finite element analysis helps to fine tune the magnetic field. For greater throughput volumes, diameters of up to 1.2m and operating widths of up to 3.6m as well as back-to-back and parallel arrangements are possible.



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