

## Conveyor Systems - Product Range

Sandvik has a highly skilled projects division specializing in the design, manufacture, installation and commissioning of complete conveyor systems for use in mining, power generation, port systems, grain handling and the full range of conveyor applications. In addition to designing new systems from scratch, we undertake upgrading projects to expand or optimize and modernize existing conveyor systems.

### OVERLAND CONVEYORS PC100

Sandvik is recognized worldwide for its developments in long overland conveyors with both horizontal and vertical curves. Co-operating with the natural lay of the land, our long-distance systems, including regenerative conveyors provide a cost-efficient and more environmentally friendly alternative to trucking for transportation of bulk materials. Our innovative technology also reduces noise and dust emissions.

### INPLANT CONVEYORS PC200

Sandvik offers in-plant conveyor systems with capacities from 100 to 7 000 tonnes per hour and above for handling bulk materials in quarrying, construction, chemicals, food processing and power generation. Combining optimized ground-level designs with elevated modules, walk-through structures and open or closed gantries, we always find the right balance between space, capacity and cost. Our in-plant systems can include belt feeders, high-angle, vertical-lift conveyors and totally enclosed conveyors.

### MINE CONVEYORS PC300-PC400

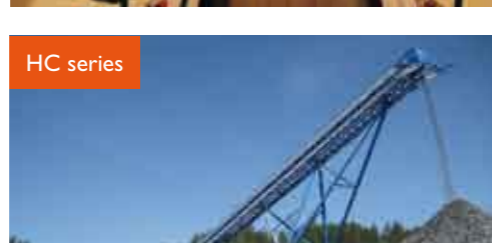
Our systems for open pit mines include fixed (PC400), shiftable, semi-mobile and fully mobile trackmounted conveyors (PC300), always tailored exactly to specialized needs and to the clients mine planning. Based on a modular concept that greatly facilitates relocation or expansion as the mine develops, our system can expedite and optimize the process of material removal, redistribution and stacking.

### UNDERGROUND CONVEYORS PC500

Sandvik has developed numerous systems for the special demands and extreme operating conditions of underground conveyor applications. Our expertise extends to conveyor systems for both coal mines and ore mines, as well as for all kinds of civil engineering applications. Thanks to our close involvement in all operational sequences in the mining and tunneling cycles, we have unique insight into the demands placed on all types of underground haulage systems.

### STANDARD BELT CONVEYORS HC SERIES

These types of conveyors are put together using standardized, completely pre-engineered modules and components. With bolted connections throughout, they can be assembled in various ways to match the application exactly. Available with five belt widths from 500-1600 mm and in lengths from 5-150 m, they are designed for use in crushing and screening stations with capacities from 100 to 1900 tonnes per hour. The HC product range includes wheeled and self-propelled mobile conveyors as well.



PC100-1066/1537, Alegria 9 Mine - Brazil



PC100-1200/7100, Dangote - Nigeria



PC100-1200/1735, Tamandua Mine - Brazil



PC200-1800/4052, Torrevaldaliga Nord - Italy



PC100-1600/5363, Antiene - Australia



PC100-1200/4334, Bengalla - Australia



PC200-1200/4646, Bourgas - Bulgaria



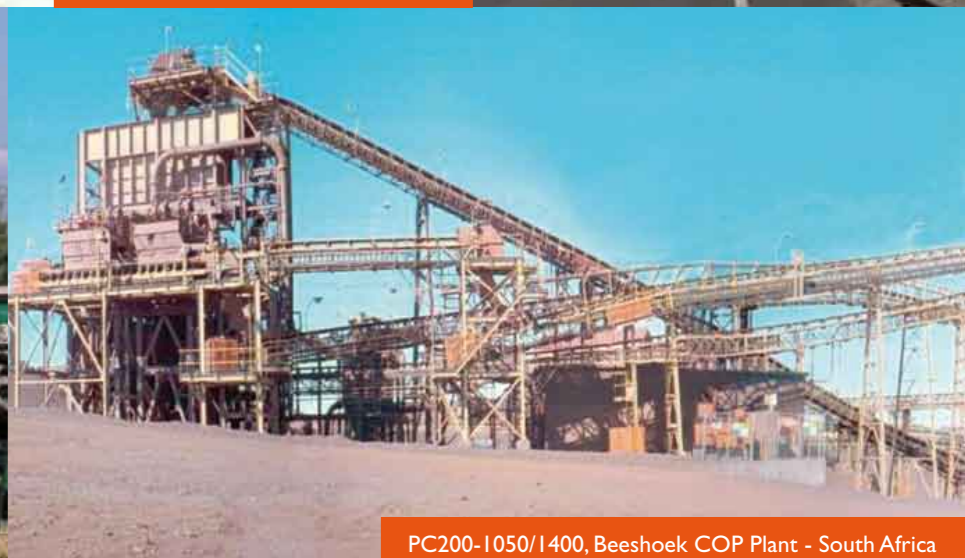
PC100-900/10000, Gregory - Australia



HCI000/85 - Norway



PC300-1800/13800, Mae Moh V - Thailand



PC200-1050/1400, Beeshoek COP Plant - South Africa



PC200-1800/2600, Immingham - Great Britain



PC100-1200/3188, Capitão do Mato Mine - Brazil



PC200-1800/3275, Samarco Ubu - Brazil

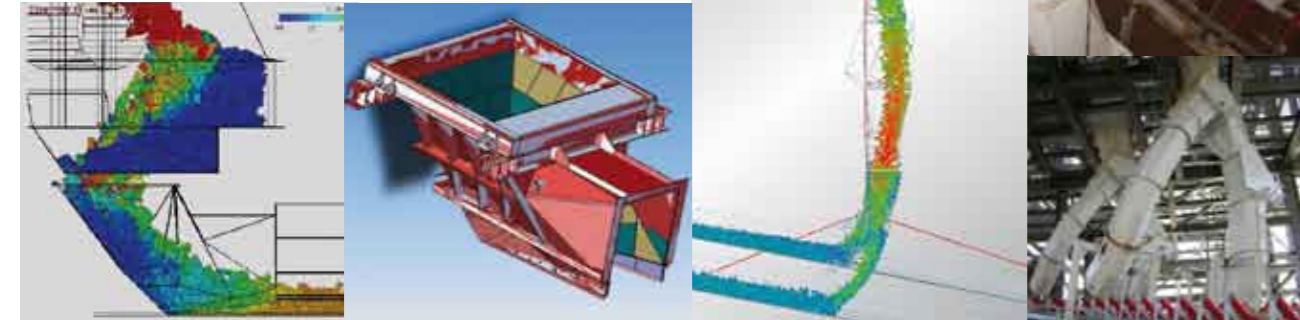


PC500-1350/10400, Tabas - Middle East

## Performance Features

### EXCELLENT CHUTE SYSTEMS

To ensure an optimal and continuous flow of bulk materials at critical transfer points of all challenging applications, Sandvik provides tailor-made chute solutions with the newest design technology including discrete element method (DEM) for simulation of the material flow of dry and sticky materials as well as 3D-modelling.



### EFFECTIVE DUST SUPPRESSION

Sandvik's HX410 electrostatic dust suppression systems are an economical, effective and low-maintenance alternative to traditional suction and filter or water spray systems. It is installed directly after the transfer point, above the conveyor belt. As the material and dust are conveyed through the system the dust is ionized causing it to be attracted to the inside of the housing. A vibration motor on top of the housing then returns the dust to the material flow. The design is modular to fit a range of belt widths and speeds. But also dust removal systems and spray bar water system may be used in Sandvik's applications depending on environmental and safety requirements and aspects.



### HIGH-SPEED CONVEYING

High belt speeds bring additional challenges to rollers in bearing life, noise and power demands. Our latest commitment to lead in this field are the revolutionary HM150 and HV150 formed rollers, designed to operate in applications with capacities up to 52 000 tonnes per hour. Based on innovative and new design principles, our formed rollers will operate longer, more quietly and will consume less energy than traditional high-speed rollers.



### IN-HOUSE CONVEYOR COMPONENTS

The consistent functioning of conveyor components is vital to the reliability of a conveying system. Sandvik's offering includes components with an emphasis on performance and reliability for various applications. The effective and trustworthy running of rollers, pulleys and belt cleaners is our primary objective, which is supported with the entire range of conveyor components including the range of safety and control devices which add the final touch to Sandvik's conveyor components, to be sure that both personnel and equipment are in good hands.

## Conveyor systems PC and HC series

Sandvik is a high-technology engineering group with world-leading positions in selected areas – tools for metal working, advanced materials technology, and mining and construction. We employ more than 47 000 people and are represented in 130 countries.

Sandvik Mining and Construction represents one third of the overall Sandvik Group and serves a broad range of customers in construction, mineral exploration, mining and bulk materials handling. Our construction expertise covers quarrying, tunneling, demolition and recycling, and other civil engineering applications. Our mining products and services support customers on the surface and underground, including coal, iron, copper and gold mining.



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