A new name and a new colour. Change is a process which we have been through several times during our 150-year history. We have restructured, renamed, sold business activities and invested in new ventures. Eventually, come what may we have always been and that is a company whose focus remains on key competence – facility construction and mechanical engineering. Dependent on technical leadership in our market sector through continuous research and development rather than taking second place anywhere. We simply want to build the best machines on the market, for your company's process requirements. That is why we place so much emphasis on the people and technology that have stood behind our name in the past and will continue to do so in the future.

MBE Coal & Minerals Technology GmbH is one of the leading suppliers in the fields of mineral processing and coal beneficiation technology, offering basic and detail engineering, components for complete plants and systems including modernisation and capacity on new measures, as well as automatic and process control equipment. Furthermore, the scope of services includes basic feasibility studies, new material testing, financial concepts, erection and commissioning, personnel training, pre- and after-sales services.

MAIN EQUIPMENT:
- bataC® Jig
- romJig®
- pneuFlot® pneumatic flotation
- Jones® Wet High-intensity magnetic separators (WHIMS)
- permos® medium-intensity magnetic separators (MIMS)
- palla® Vibrating mill
- Vibrating Screens
- Calibrator® Cone crusher
- Laboratory equipments

PROCESSING OF:
- Coal
- All kinds of ferrous & non-ferrous materials
- Silica
- Magnesite
- Phosphorus rock
- Talcum
- Bauxite
- Bauxite
- Penasite
- Salt
- Metallurgical slag
- etc.
A new name and a new colour. Change is a process which we have been through several times during our 150-year history. We have restructured, renamed, sold business activities and invested in new ventures. Always, we have strived to grow and adapt to the market, but it is a company whose focus remains on its key competence – facility construction and mechanical engineering. Change is a process which we have been through several times during our 150-year history. We have restructured, renamed, sold business activities and invested in new ventures. Essentially we are what we have always been and that is a company whose focus remains on its key competence – facility construction and mechanical engineering. Essentially we are what we have always been and that is a company whose focus remains on its key competence – facility construction and mechanical engineering.

MBE Coal & Minerals Technology GmbH is one of the leading suppliers in the fields of mineral processing and coal beneficiation technology, offering basic and detail engineering, components for complete plants and systems including modernisation and capacity or process measures, as well as automated and process control equipment. Furthermore, the company provides consulting services to the equipment industries, raw material testing, financing concepts, erection and commissioning, personnel training, pre- and after-sales services.

**MAIN EQUIPMENT:**
- **bataC® Jig**
- **romJig®**
- **pneuFlot® pneumatic flotation**
- **Jones® Wet High-intensity magnetic separators (WHIMS)**
- **permos® medium-intensity magnetic separators (MIMS)**
- **palla® Vibrating mill**
- **Vibrating screens**
- **Calibrator® Cone crusher**
- **Laboratory equipment**

**TYPES OF MATERIALS PROCESSED:**
- Coal
- All kinds of ferrous and non-ferrous ores
- Silica
- Magnesite
- Phosphor rock
- Talc
- Bentonite
- Basis
- Glass
- Metallurgical slags
- Etc.
EXPERTS IN COAL & MINERALS PROCESSING

The globally challenging energy situation, increasing energy demand, rising raw material prices, and new environmental regulations are driving the market for coal and minerals processing. These market changes are continuously leading to new and improved technologies, which offer higher efficiencies, better product quality, and lower operational costs.

The increasing demand for high-quality coal and minerals as raw materials is leading to a rising demand in coal and minerals processing, particularly in coal Beneficiation. This is leading to a rising demand in coal Beneficiation, which offers higher product quality, better machine availability, and lower operational costs.

COAL AND IRON ORE

TREASURES OF THE WORLD

BATA® JIG

Jig for processing all kinds of coal, iron ores, ferroalloy slags as well as many other minerals

Feed sizes 0 – 150 mm

Throughput rates max. 500 t/h

Effective jiggling width 1,5 m

Worldwide, more than 150 BATA® Jigs are in operation for coal preparation, processing of iron, tin and manganese ore and recovery of metal losses from open cast mining. The main advantage of BATA® Jigs comparing conventional jigging and heavy media plants (BMR) is higher efficiency, huge economical benefits, better product quality, better machine availability and higher throughput rates.

ROM®

Romex screens for primary separation of refuse from the coarse raw coal. By means of a movable screen rocker arm the grains are separated from each other and heavy fractions are separated in a light and heavy fraction that are separated using low specific operating costs and very high efficiency.

Feed size 30 – 140 mm

Throughput rates max. 400 t/h

Worldwide, up to 45 machines for the decanting raw coal are already in operation, more than 50 of them are in China.

PNEUFLOT®

Pneumatic flotation for beneficiation of coal and minerals.

Solids feed size 0 – 8 mm

Throughput rates max. 400 t/h dry solids for each machine

Pulp throughput max. 1200 m³/h

Tank size up to 6 m diameter

Throughput rates max. 600 t/h dry solids for each machine

PNEUFLOT® is an innovative and environmentally friendly technology for processing of low grade ores of medium susceptibility at high throughput rates. The PNEUFLOT® offers advantages such as low fines, low water consumption, and low operating costs. It is also applicable to high-grade ores with high magnetic susceptibility.

Wet High-intensity Magnetic Separators (WHIMS) for dry and wet separation of ferromagnetic and paramagnetic ores and minerals.

Solids feed size 0 – 4 mm

Throughput rates max. 180 t/h

WHIMS are used worldwide to separate minerals that are highly magnetic and magnetic minerals from non-magnetic minerals. They are used in various industries such as iron, steel, and non-ferrous metals. WHIMS have been installed worldwide, and the majority of them are in China.

PALL®

PALL® filter presses are used for separation of fine-grained solids and primary separation of raw coal. They are also used in various industries such as iron, steel, and non-ferrous metals.

Screen Width 1.0 – 4.5 m

Throughput rates max. 20 – 1200 t/h

Screen widths 1.0 – 4.5 m

The PALL® Calibrator is an ideal size reduction application for the deshaling of raw coal. Worldwide, up to 65 machines for the deshaling of raw coal are already in operation, more than 50 of them are in China.

VIbrATING SCREENS WiTH liNEAr OR CiRCULAR MOTiON

For wet and dry classifications, as well as for dewatering and depulping of solids.

Screen widths 1.0 – 6.0 m

Screen lengths 2.25 – 6.0 m

The vibrators can be supplied with a variety of screening media and drive motors, depending on customer requirements.

CALIBRATOR®

Crude separator for concentration of fine/submicron to extremely hard rock, different ores, stage, refractory materials and abrasives.

Screen diameters 760 – 1250 mm

Throughput rates 15 – 800 m³/h

The CALIBRATOR® is highlighted by smooth and compact construction and low overall height. With its outstanding reliability and low operational and maintenance costs, the CALIBRATOR® is an ideal size reduction application for coarse concentrate processes.
A new name and a new colour. Change is a process which we have been through several times during our 150-year history. We have restructured, renamed, sold business activities and invested in new ventures. Generally, a process which we have always been and that is a company whose focus remains on its key competence – facility construction and mechanical engineering. Despite the brand changes in our market sector through continuous research and development rather than taking second place anywhere. We simply want to build the best machines on the market, for your company’s process requirements. That is why we place so much emphasis on the people and technology that have stood behind our name in the past and will continue to do so in the future.

MBE Coal & Minerals Technology GmbH is one of the leading suppliers in the fields of mineral processing and coal beneficiation technology, offering basic and detail engineering, components for complete plants and systems including modernisation and capacity on point measures, as well as automated and process control equipment. Furthermore, the scope of services includes life cycle studies, raw material testing, financing concepts, erection and commissioning, personnel training, pre- and after sales services.

**MAIN EQUIPMENT:**

- bataC® Jig
- romJig®
- pneuFlot® pneumatic flotation
- Jones® Wet High-intensity magnetic separators (WHiMs)
- permos® medium-intensity magnetic separators (mHiMs)
- palla® Vibrating mill
- Vibrating Screens
- Calibrator® Cone crusher

**LABORATORY EQUIPMENT**

**PROCESSING OF:**

- Coal
- All kinds of ferrous & non-ferrous ores
- Silica
- Magnesite
- Phosphor rock
- Talc
- Bentonite
- Barite
- Peninsular salt
- Metallurgical slags
- etc.