Truly great darts players always get their darts right on target. To do this they need the right technology, plenty of expertise, discipline and the ability to adapt to the conditions.

KROENERT is also on target. Worldwide, no machine requirements go unfulfilled. The company is not regarded as world leaders in the field of specialized machinery for coating and lamination without reason.

All components for coating and laminating machinery share a common source. Development and construction, as well as assembly, installation and service are offered by our own plants in Germany.

KROENERT in Hamburg has been developing and building innovative, specialized coating and laminating machinery since 1903, and is the oldest company in this field worldwide. More than a century of experience definitely pays off!
DRYTEC dryers and humidifiers round off the KROENERT offer. Dryers and humidifiers of excellent quality and with exceptional performance levels have been manufactured here since 1995. Together, KROENERT and DRYTEC strive to achieve the highest levels of customer satisfaction. After all, the result depends on the sum of all darts.
The literal definition of the concept “Philosophy” is the love of wisdom. Wisdom is acquired over years, and should in turn be passed on. KROENERT has laid down its values and norms in a corporate philosophy intended not only to keep the company functioning for decades, but to preserve its identity. The customer benefit proposition remains in the foreground. All lines are the result of expertise, inventiveness and knowledge.

Quality and reliability are understood; the highest levels of efficiency and a long service life in production with minimal maintenance costs are guaranteed. Commercial efficiency and ecology are just as important, and only components with a minimal impact on resources are used. In this, KROENERT aligns itself to the most recent technical standards and the ISO 9001 quality management system. Further education and training in technical and commercial
professions ensure high quality for generations. As always, people remain the most important element. Only as a team can we develop and put good ideas into practice; for this reason KROENERT places great emphasis on treating all people with respect and with appreciation for every individual. This is the only way to complete the circle: an efficient team delivers good work to satisfied customers. And, this is how we turn our philosophy into practice.
The next milestone is always the goal on which we’re focused. KROENERT has achieved many milestones without losing sight of those still to come. Improving efficiency, conserving energy and material and increasing product and operational reliability and security remain our goals.

1903  Founding of Maschinenfabrik Max Kroenert
1922  First coating and laminating machine for wax and paraffin
1936  First aluminum/paper laminating machine
1945  Founding of Bachofen + Meier (BMB)
1958  First RECO™ for dry laminating
1968  First self-adhesive label hotmelt machine
1974  Construction of first floating dryer
1978  Development of multi-roller coating processes for solvent-free siliconizing
1984  Development of PAK 400 EP for epoxy resin coating
1994  Development of the Doctor Chamber Blade MPG 600 CI
1995  Founding of DRYTEC
Coating process for one layer, multi-layer and simultaneous coating on front and back

1999 First machine with curtain technology
2003 Dispersion adhesive coating using curtain technology
2003 Integration of Bachofen + Meier in KROENERT
2004 Bringing into service the world’s widest (1,300 mm) and fastest (1,610 m/min) testing facility
2005 Patent: edge suction for curtain technology
2008 Development of sleeve technology for gravure roller coating
2009 Technical world record, solvent-free laminating at 800 m/min
2010 Market launch LabCo narrow web machine
2011 Development Bead Coat Process
2012 Market launch MCO 5000 modular machine
2012 Patent: intermittent coating with slot die
KROENERT has never given up on finding the optimal technical and commercial solution. Even when the route is sometimes more complicated, in the end the result counts.

Many solutions to building the best machines have been found. Whether in the supermarket, at work, in the bank or in the pharmacy, KROENERT has played its part by supplying the required technology – in coating, drying and winding.

Everyday products, such as packaging for food and medication, self-adhesive labels, adhesive tapes and graphic films, mobile phone screens, lithium batteries, composite materials and many more, are based on materials manufactured by our machines. KROENERT lines coat paper, cardboard, all types of artificial films, aluminum, copper and non-wovens with aqueous or solvent-based adhesives, lacquer, PVDC, silicon, wax, hotmelts or similar coating materials.
Flexible Packaging

- Duplex and triplex dry lamination
- Wet lamination
- Wax and hotmelt for coating and lamination
- Lacquering and coloring
- Inline lacquering and lamination
- Pharmaceutical packaging
- PVDC coating
- Cold seal
- Hot seal coating
- and many more

Technical Products

Clean Technologies

- Self-adhesive labels
- Single and double-sided adhesive tapes
- Medical test strips
- Medicated plasters and wafer systems
- Medical disposables
- Siliconized paper and film
- Graphic film
- Protective film
- Anti-corrosive paper
- Household and cleaning products
- Thermographic paper
- Thermographic transfer film
- Photo and inkjet paper
- Inkjet printer paper
- Sticky-note pads
- Office tapes for color coding and correction
- Lacquering of decor papers and film
- Hot stamping foil
- Security film
- Specialized film
- and many more

- Epoxy resin coating and impregnation for light construction materials
- Prepregs for glass, carbon and synthetic fiber composite materials
- Anodes, cathodes and separator film coatings for lithium ionic batteries
- Coating of anode, cathode and membranes for fuel cells
- Lamination for backsheets and flexible solar cells
- Organic and printed electronics
- Nano layers ≤ 100 nm on flexible materials (nanotechnology)
- Membranes, e.g. for separators, gas and water filtration
All machines consist of individually assembled modules. Each machine is unique and tailored to meet the requirements of the customer and their product. This combination of quality, efficiency and environmental compatibility leads to the optimum solution.
Nature sets impressive benchmarks. Each individual facet of a fly’s eye is, at 25 μm, inconceivably small. From the KROENERT point of view this is still very big – the thinnest coating applied by one of our machines is only 0,2 μm.

The machines are just as capable of applying thick layers. With applications of up to 2.000 g/m², we can meet every need, especially since KROENERT disposes of a broad range of self-developed coating systems for different applications. Besides exceptionally thin or thick coatings, the necessary components for dealing with Newtonian flow characteristics and viscosities of up to 1.000 Pas are available. Naturally these are also available for web widths ranging from 500 to 3.500 mm and operating speeds from 0,1 to 1.610 m/min. Our coating stations have only one thing in common; they all enable very uniform and consistent coatings with minimal application weight tolerances, and operate efficiently to conserve resources. Depending on requirements, coating stations can be fitted with
gravure roller technology, smooth or multi-roller processes, comma blades, nozzles or curtain applicators with single or multiple slide-slot technology or other precision coating processes. All dryers, winders and web guiding products – already developed and built – meet these requirements. And, thanks to our team’s many years of experience, we will always find the correct application technology – even for special coating weights. We have something for every criterion.
A juggler must focus on all his balls at the same time to prevent any from falling. Apart from a lot of practice, this requires accuracy and skill, since when one ball falls to the ground, everything loses its balance. Optimal coating is the same: a balance between quality, technical requirements, speed and commercial viability must be found. If we lose sight of one of these aspects it impacts on the result. The Technology Center in Hamburg, Germany, is available to test the interaction of various components for KROENERT.

One of the pilot lines has more than 60 different coating systems available, allowing the processing of material web widths of up to 1,300 mm in production test runs. Besides the worldwide most efficient multi-functional pilot machine, the RECO 800 A, PAK 610 for melttable products such as waxes, hotmelts or epoxy resins is available. The narrow web machine,
LabCo, is available for smaller coating volumes. This allows the testing of the required machine with the customer’s choice of materials – before the sale. The team, with its many years of experience, ensures that all important criteria remain in focus – just as a good juggler watches every ball. This guarantees success.
The bee is a diligent, busy worker. Each of these creatures collects up to four million grains of pollen and in so doing works for the community. KROENERT would like to see this and many other natural wonders preserved. This is why, for us, environmental protection plays such an important role.

KROENERT designs the conversion of aqueous and solvent-based coating materials to 100%-systems such as chemically reactive laminating adhesive, UV cured lacquers and acrylic adhesives, thermally reactive or UV cured silicones and meltable materials, whether by the development of suitable application systems, efficient nozzle and convection dryers or other resource-conserving components. KROENERT already offers the harmonization of efficiency and environmental protection with systems offering minimal coating tolerances or intermittent operation,
winding systems for materials with surface weights of less than 6 μm and web tensions of only 5 N with web widths of more than one meter. The fact is that only the development of efficient production processes makes this ecological progress possible.

Environmentally-friendly alternatives to previous standards can be tested for product suitability in the Technology Center, so that only proven processes are offered to customers. We want our environment to be as beautiful tomorrow as it is today.