KOCH TECHNIK

Peripheral devices for the plastics industry

MIXING | DOSING | CONVEYING | DRYING

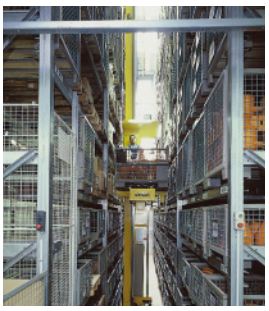
WERNER KOCH MASCHINENTECHNIK GMBH

For over 50 years, the KOCH-TECHNIK brand has been inseparably linked to the mixing, dosing, conveying and drying of plastic materials.

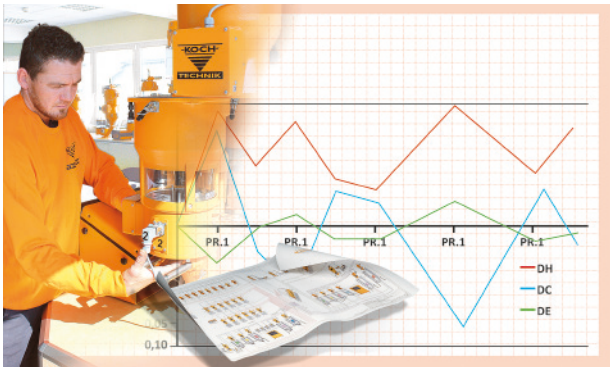
The headquarters are located in Ispringen, Baden-Württemberg, not far from Pforzheim. Besides worldwide representation, the company has its own offices in France, the United Kingdom, China, India and Mexico. Several thousand installations worldwide testify to the reliability and acceptance of KOCH systems in the plastics processing industry. The particularly high proportion of regular customers thanks to our R&D efforts, innovations and numerous patents, the offered services and the high degree of reliability of our technology, show we correctly understand market signals and that we are able to correctly implement these new solutions.

Factory I:
Company headquarters with administration and production facilities in Ispringen

Factory II:
Dryer construction facility in Göbrichen



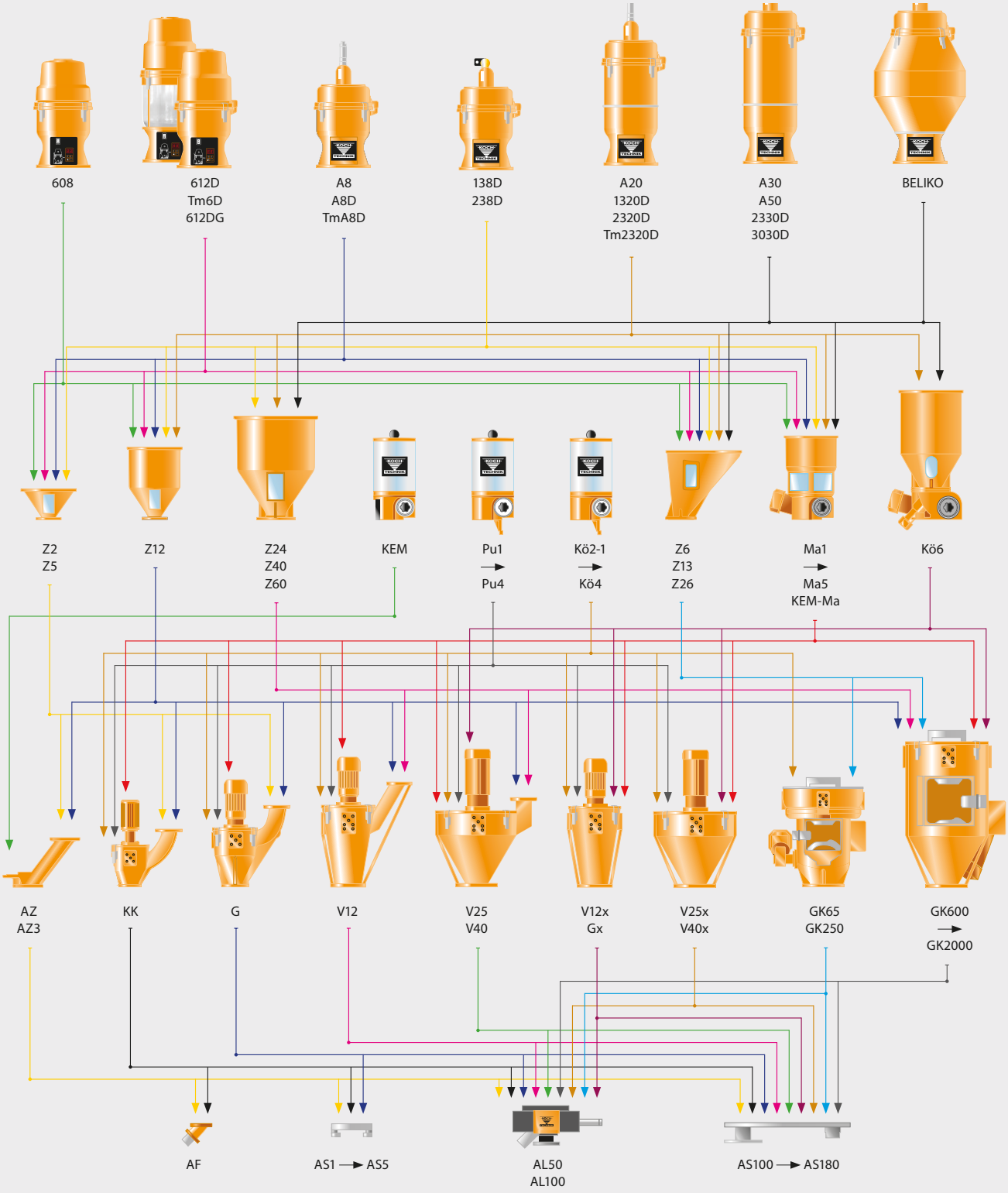
Spare and wear parts are available quickly thanks to our modern high-bay warehouse.



Optimal product quality through constant monitoring

SYSTEM CERTIFICATION
ISO 9001
SGS

KOCH-TECHNIK is a certified company



ONLY THOSE WHO FLEXIBLY ADAPT THEIR TECHNOLOGY TO MARKET REQUIREMENTS CAN TRULY BE SUCCESSFUL.

Reacting flexibly means assembling devices, omitting devices, modifying devices! The KOCH modular system is based on an idea of modularity: Everything fits together, each device complements another device in a well thought-out modular system.

THE SIMPLEST HANDLING AND EVERYTHING WITHOUT TOOLS:

- Foldable conveying hood
- Conveyor unit can be swivelled 360 °
- Moveable dosing station
- Devices and systems can still be combined with the latest technology after many years

KOCH MODULAR SYSTEM

SOPHISTICATED DOSING AND MIXING TECHNOLOGY

More than 5.000 companies worldwide use devices and systems from KOCH-TECHNIK. As many customers we have, so different are their requirements. We are able to meet these individual needs as machine technology specialists with our modular systems: In the KOCH modular system, devices can be combined, supplemented and arranged flexibly, allowing them to be adapted precisely to specific customer requirements.

At KOCH-TECHNIK, we combine the experience of more than five decades with state-of-the-art technology and field-tested newly developed solutions from recent years.

DOSING & COLOURING

Our thousandfold proven KEM-TOUCH direct colouring unit with chamber volume dosing is the simplest yet most effective solution for colouring plastic material with masterbatches.

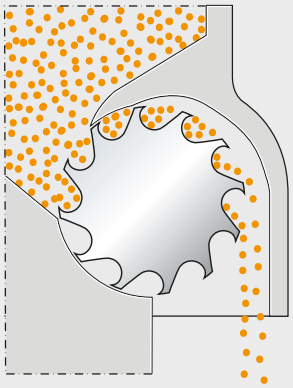
BENEFITS & FEATURES

- 5 programs (injection moulding & extrusion)
- 100 recipe memory
- Constant dosage through precise stepper motor
- 3.5 „ touch control screen

CHAMBER VOLUME DOSING

(KOCH patent) with ± 0.15% accuracy for pellets, powder & ground materials

Each chamber of the dosing roll is filled evenly before it is discharged. The constant speed guarantees a high dosing accuracy.



BENEFITS & FEATURES

- 5 dosing rollers for shot weights from 2g to 10,000g
- Easier role replacement
- High dosing accuracy

MIXING

VOLUMETRIC DOSING WITH PRE-MIXER

KOCH dosing unit types Kö (granules), Pu (powder) and Ma (ground materials) are able to dose with highest recipe accuracy. A large selection of pre-mixers with agitators guarantee a homogeneous premix. The modular dosing and mixing units for injection moulding, blow moulding and extrusion are designed to be adaptable and exchangeable with relevant KOCH system conveyors.

BENEFITS & FEATURES

- Up to 500 kg/h machine throughput
- Basic body made of GAL / So-HB 100 or V2A stainless steel
- Dosing via chamber volume

The new control units SLT and MCT for dosing stations and volumetric mixer stand out with a 7" colour touch display for easy and user friendly control.

BENEFITS & FEATURES

- Mobile & flexible control unit with vesa holder
- 7" colour touch panel for easy operation
- Alarm history & recipe management (up to 100 recipes)
- Password and user management
- Ethernet connection for remote maintenance for easier monitoring
- Fully integratable into the KOCH visualization software

G-mixer with two Kö dosing stations and the new SLT and MCT control units with 7 ,' colour touch display

GRAVIKO

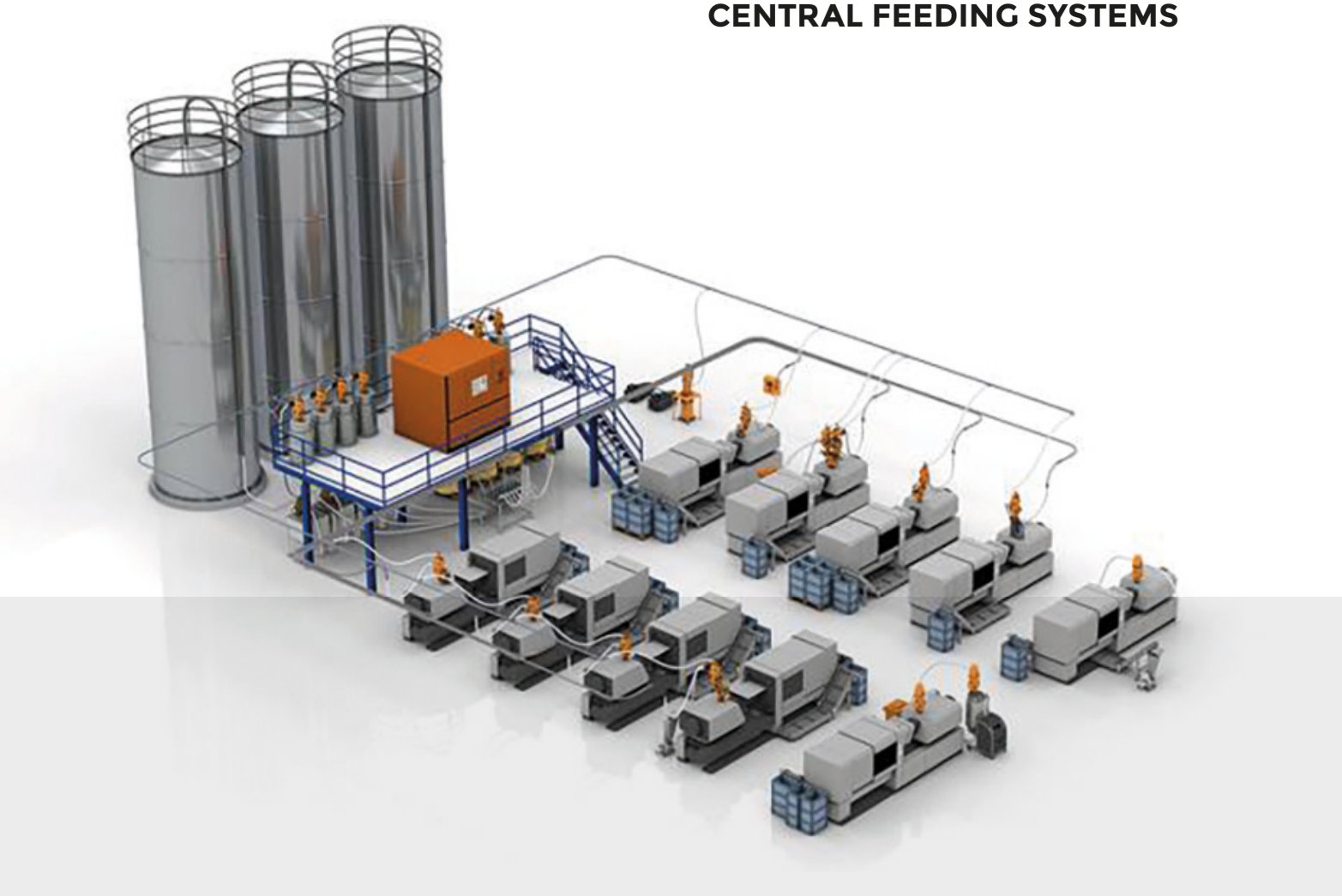
Patented gravimetric dosing and weighing system with mixer

The patented GRAVIKO system dispenses plastic materials reliably and with the highest repeatable accuracy using precision slides. You can choose from GRAVIKO units with throughputs of 80, 250, 600, 800, 1,000, 1,500 and 2,000 kg/h. The system allows the user to easily dose & weigh, check, modify and evaluate the material in a singleoperation. The controller recognizes external interference during weighing and compensates for it. A horizontal agitator ensures optimum pre-mixing.

BENEFITS & FEATURES

- Dosing using precision slides
- Precise dosing & weighing, checking, correcting and evaluating - in one operation
- Interferences are immediately recognized and compensated
- Easy material change through sliding and swivelling features

GRAVIKO type GK65 in a modular system with MCT control unit. Swing, fold and move - all without tools!



CONVEYOR SYSTEMS

Flexible material supply with Industry 4.0

KOCH-TECHNIK plans, manufactures and installs your central material supply system - a system designed according to your wishes and completely tailored to your plastics processing needs. The modularity of the KOCH conveyor systems makes the system expandable and future-proof.

From storage and material distribution through drying to mixing and the final conveying to the processing machines: The KOCH visualization software offers you an interface between the material supply and your production control system, simplifying the entire process and making it easier to operate and monitor production.

Central material supply system with direct colouring
Exemplary system for flexible material supply with Industry 4.0

DRY AIR DRYERS - CKT / EKO

Perfect drying results with low operating costs. The optimal drying of the plastic granulate is required for the production of perfect end products. This is why KOCH dry air dryers work with extremely dry air with a dew point of -55 °C and lower, saving energy and material.

With the patented ECO control system, you are not only able to ensure consistent quality, but also protect your granules from overdrying. Thanks to the overall low consumption, you can save up to 50% on energy costs. The dryers are tailored to your needs or specially adapted to your system.

BENEFITS & FEATURES

- 110 - 2.000 m³/h dry air volume
- From 500 m³/h drying capacity standardized with frequency-control. Patented ÖKO control up to 50%energy saving.

A central granulate dryer system with a total of three CKT type dry air dryers installed at Procter & Gamble Manufacturing GmbH 38 drying containers with a dry air volume of up to 1,600 m³/h

CKT 500 granule dryer with 12 drying containers

EKO 300 with 6 x 100 litre drying containers

THE MOBILE KKT UNIT WITH SWITCH TECHNOLOGY

Mobility as an important factor in your production. The KKT dryer series for hygroscopic materials is designed for a dry air volume of 55, 75 or 100 m3/h. In addition, these additional mobile dryers now have a patented switch control that adapts to material and throughput volumes. This makes it possible to save up to 20% of energy costs in ECO mode.

BENEFITS & FEATURES

- 7“ Touch-Panel-Control
- Mobile & flexible use
- Save up to 40% on energy costs through a patented switch control system
- Up to four drying containers

KKT – the mobile dry air dryer series with touch panel

EXPAND YOUR CAPABILITIES

MIXING AND DOSING

We are specialists in dosing, mixing and coloring of plastic materials! We provide you with precise, reliable technology - for injection moulding machines and extruders.

FEEDING

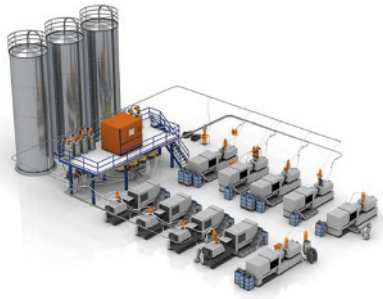
We offer peripheral equipment to supply your plastics processing machine with material. Our hopper loader transfer material save and clean to injection moulding machines and extruders.

DRYING

Our dryers for plastic materials are characterised by a high efficiency and cost effectiveness.

CENTRAL FEEDING SYSTEMS

We design, manufacture and install your centralised material feeding system. Specifically to your requirements and customised to your plastics processing needs.



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