DESMATEC

MEETING THE NEEDS OF HIGH-TECH PU INDUSTRIES

MACHINERY



SUSTAINABLE POLYURETHANE

MANUFACTURING SOLUTIONS

MARTEN BEIERSDORF | CHRISTIAN DECKER

AUTHORISED OFFICER & SALES DIRECTOR MANAGING DIRECTOR

We believe in a policy of uncompromising quality in the fields of design, manufacturing, distribution and maintenance.





DESMA TEC – Your reliable industrial partner

Dear Customer,

DESMA is known in the industry for reliable and highest quality manufacturing equipment with the integration of latest technologies. Our target is a product portfolio which extends the manufacturer's profitability combined with the fulfillment of the requirements of the market demands.

For decades, sustainability has been a red line in the development of new DESMA products. Durable, material-saving processing technology, effective automation solutions, weight- and energy-optimized hardware support every current trend.

DESMA teams are highly qualified and more than motivated to generate the best solutions in the world.

Highest quality has its price but the long-term total cost of ownership calculation always proves: the investment in a DESMA machine is an investment in the manufacturer's future.

Let us support your future success as your long-term partner!

Yours,

MARTEN BEIERSDORF

CHRISTIAN DECKER

FILLER METERING TECHNOLOGY FOR VIBRATION DAMPING AND ACOUSTIC INSULATION

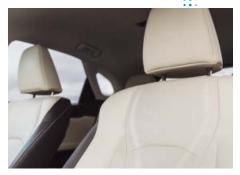




NOISE GENERATION INSIDE THE VEHICLE



NOISE GENERATION DUE TO EXTERNAL INFLUENCES



DESMA FILLER METERING TECHNOLOGY FOR HIGH COMFORT



AIRCRAFT CABIN



VEHICLE INTERIOR



CHAIR COMPONENTS

APPLICATION AREAS FOR ACOUSTIC INSULATION AND VIBRATION DAMPING | > ENGINE AREA | > BACKING OF CARPETS | > DASHBOARDS | > TOP MOUNTS | > BUMPER | > SPRING AIDS | > SEAT DAMPING

LOW PRESSURE MIXING TECHNOLOGY WITH FILLER METERING

THE TECHNOLOGY

Mixing screw drive

- > FREQUENCY CONTROLLED DRIVE
- > POWER DRIVE MIXING GAP ADJUSTMENT
- > PRECISE MIXING PARAMETERS

Filler screw drive

- > FREQUENCY CONTROLLED DRIVE
- > HIGHEST DOSING PRECISION
- > VARIABLE RATIO FROM SHOT TO SHOT

Processing of sensitive fillers

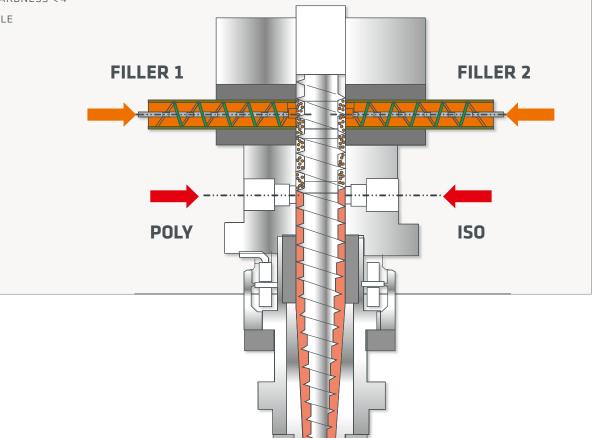
- > CALCIUM SULFATE
- > cork
- > MICROSPHERES
- > EXPANDABLE GRAPHITE

Customer benefits

- > NO PRE-BATCH OF FILLER IN POLYOL NECESSARY
- > NO DENSITY PROBLEMS
- > NO SEDIMENTATION EFFECTS IN THE TANK
- > NO ABRASION IN PUMPS, VALVES OR ORIFICES

Filler characteristics

- > FROM POWDER UP TO MAX. 4 MM
- > MOHS HARDNESS < 4
- > FLOWABLE



FILLERS INCREASE QUALITY

Increase in

- STABILITY AND STRENGTH
- INSULATING QUALITIES
- TEMPERATURE STABILITY
- WEIGHT/DENSITY
- ABRASION RESISTANCE
- DESIGN POSSIBILITIES
- "LOOK AND FEEL"

Reduction in

- NOISE
- VIBRATION
- FLAMMABILITY
- WEIGHT/DENSITY
- RAW MATERIALS
- WASTE COSTS
- PRODUCT COSTS



EXAMPLES OF SUITABLE AND TESTED FILLERS

Recycling goods

- > POWDER OR GRANULATE
- > GRINDED RUBBER
- > EVA GRANULATE
- > PET GRANULATE

Natural materials

- > cork
- > CHERRY PITS
- > WALNUT SHELLS

Raw materials

- > BARIUM SULPHATE
- > ALUMINIUM HYDROXIDE ATH
- > CALCIUM CARBONATE
- > CALCIUM SULPHATE
- > IRON OXIDE

Functional additives

- > EXPANDABLE GRAPHITE
- > FLAME RETARDANTS
- > NANOFIBRES AND -TUBES
- > MICROSPHERES



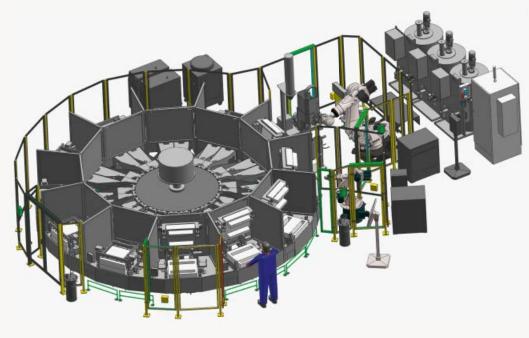


ACOUSTIC PART FILLED WITH EXPANDABLE GRAPHITE

LOW PRESSURE MIXING TECHNOLOGY AT THE HIGHEST LEVEL



- > MECHANICAL SELF-CLEANING MIXING HEAD
- > NO FLUSHING AGENTS REQUIRED
- > MECHANICAL COMPONENT VALVE SYNCHRONISATION FOR HIGHEST PRECISION AND PERFECT COMPONENT BALANCE
- > CONTINUOUS RECIRCULATION OF ALL LIQUIDS
- > COMPONENT CHANGE SHOT BY SHOT
- > PRECISE ADDITIVE DOSING (UP TO 6 ADDITIVES IN ADDITION TO BASIC COMPONENTS)
- > PRECISE FILLER METERING (PARTICLE SIZE UP TO 4 MM)
- > FAST SCREW CHANGE (MANUAL OR AUTOMATIC)
- > SENSITIVE PROCESSING OF MDI AND NDI PU SYSTEMS



FIELDS OF USE









About DESMA TEC

DESMA TEC: Your leading technological partner in the areas of

Polyurethane mixing technology

> Manual, automatic and robot guided polyurethane mixing heads – self-cleaning – are characterised by convenient operation and high reliability.



Automation technology

> DESMA: robot specialists for decades. Industrial robots are especially suitable in PU processing in the areas of release agent application, handling and complex contour work.



Mould shop

> DESMA has always placed especial emphasis on a highly professional mould shop; our customers receive complete solutions.



Rotary tables

> Since 1960 DESMA has been successfully producing rotary tables for the technical industry. The programme ranges from 6 station to 60 station rotary tables for the processing of Rubber, PU, TPU and other thermoplastics.



Technikum

> DESMA TEC engineers work in closest co-operation with customers and materials suppliers to achieve the best solutions.



SAFE IN DESMA'S HANDS

Worldwide service

> DESMA supplies efficient and economical production systems of highest quality to manufacturers worldwide. Global service is ensured not only by our HQ in Germany but also by DESMA agents all over the world.

Highest quality

> All DESMA machines are made in Germany.

Longlife products

> DESMA products are characterised by a long lifetime: an investment into your future.

Spare parts

> DESMA guarantees our customers a fast spare parts service worldwide: Our principle: Short ways – short reaction times.



DESMA TEC IS A DIVISION OF DESMA SCHUHMASCHINEN GMBH

QR CODE FOR MORE INFO

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