

TECHNOLOGY THAT BONDS

Mixing and dispensing technology for adhesives and sealants

t-s-i.de is a family-owned German manufacturer of modular mixing and dispensing systems for industrial adhesives and sealants. Founded in 1998 and led in the second generation, the company builds everything from manual workstations to fully automated robot and gantry systems — engineered, built and supported in Germany.

2,500+

SYSTEMS INSTALLED

25+

YEARS OF EXPERIENCE

50+

COUNTRIES WITH
INSTALLED SYSTEMS

100%

DEVELOPED AND
MANUFACTURED IN
GERMANY

OUR FLAGSHIP

mastermix gear drive

Continuous and repeatable 2K metering with servo-driven gear pumps. Both components are supplied from their original containers, metered by servo-driven gear pumps, combined at the 2K material valve and mixed in a static mixer.

Mixing ratio	1:1 to 100:2
Material flow	Continuous, virtually pulsation-free, volume-controlled
Integration	Manual application or semi- and fully automated processes
Control / electrics	Siemens S7-1500 control; all electrical components by Siemens
Pneumatics	Complete pneumatics by Festo
Design	Modular, maintenance-friendly



mastermix gear drive — 2K gear metering system

HOW THE TECHNOLOGY WORKS

STEP 1

Material feed

Piston pumps, driven by pneumatic cylinders, supply both components directly from the original containers.



STEP 2

Precision metering

Servo-driven gear pumps meter continuously at a controlled volumetric flow.



OPTIONAL

Flow monitoring

Sensors continuously check material flow, mixing ratio and dispense volume.



STEP 3

Application

The components are combined at the 2K material valve and mixed in a static mixer.

TRUSTED BY MANUFACTURERS WORLDWIDE



DAIMLER
TRUCK
Daimler Buses



ALSTOM
mobility by nature

HÖRMANN

SCHMITZ
CARGOBULL
The Trailer Company

US EQUIPMENT PARTNERS

t-s-i.de is evaluating a small number of established US equipment dealers and system integrators with experience in industrial adhesive and sealant applications. The objective: combine local market access and service capability with direct manufacturer engineering and support.

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