

MAG



ZERO ENERGY
MAXIMUM OUTPUT





zero

RECOVERY OF EXHAUST ENERGY

INNOVATIONS BY MAG

The energy loss by the exhaust air, which is blown out into the environment, is 45% of the total energy loss. By the recycling of hot air from the exhaust gas via appropriate by-pass lines, 70% of the exhaust energy may be recovered.





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PREVENTION OF WIRE HEAT LOSS

INNOVATIONS BY MAG

The heat loss of the wire along the free air zones is 12% of the total energy loss. By the installation of a thermally insulated chamber, which is equipped with a blower system to counteract drag effects of the wire, 87% of the wire heat loss may be saved.



A dynamic splash of water in shades of blue, centered behind the word 'zero'.

zero

REDUCTION OF OVEN WALL HEAT LOSS

INNOVATIONS BY MAG

The heat loss across the oven walls is 14% of the total energy loss. By the employment of a highly efficient multi-layer insulation of the oven chamber the wall heat loss may be reduced by 51%





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REGULATION OF WIRE TEMPERATURE

INNOVATIONS BY MAG

The wire heat loss caused by a non-controlled cooling process usually is 21% of the total energy loss. Since the speed-controlled cooling system is coupled with the wire temperature measurement at the oven entry, the unneeded wire heat loss may be reduced by 46%. Automated wire cooling provides constant drying conditions and, in turn, most efficient enamelling at high quality without blistering, save and failure-free long-term operation.



A large, stylized graphic of a water splash in shades of blue, positioned behind the word 'zero'. The splash is dynamic and fluid, with various droplets and streams of water.

RECYCLING OF COOLING AIR

INNOVATIONS BY MAG

The energy loss during the cooling process of the wire is 8% of the total energy loss. By recycling the warmed-up cooling air into the system, 28% of the heat loss may be re-extracted.





energy

STOP WASTING ENERGY

INNOVATIONS BY MAG

These five radical measures as mentioned lead to a substantial increase in the reduction of energy loss of the system. For the production process using polyesterimide (PEI) as well as polyamidimide (PAI), the required heat energy for drying and curing is only brought up by the chemical conversion of the solvent vapour in the catalyst without any additional input of electrical energy by the heating elements.

Zero energy → Mozart zero.



The logo for MAG, consisting of the letters 'MAG' in a bold, italicized, sans-serif font, set against a dark blue background.

**MAKE MONEY
FROM ZERO**

INNOVATIONS BY MAG

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