



Impregnation Plants

From the idea to commissioning

Development, design and production of impregnation systems from small manually operated units to fully automated lines.

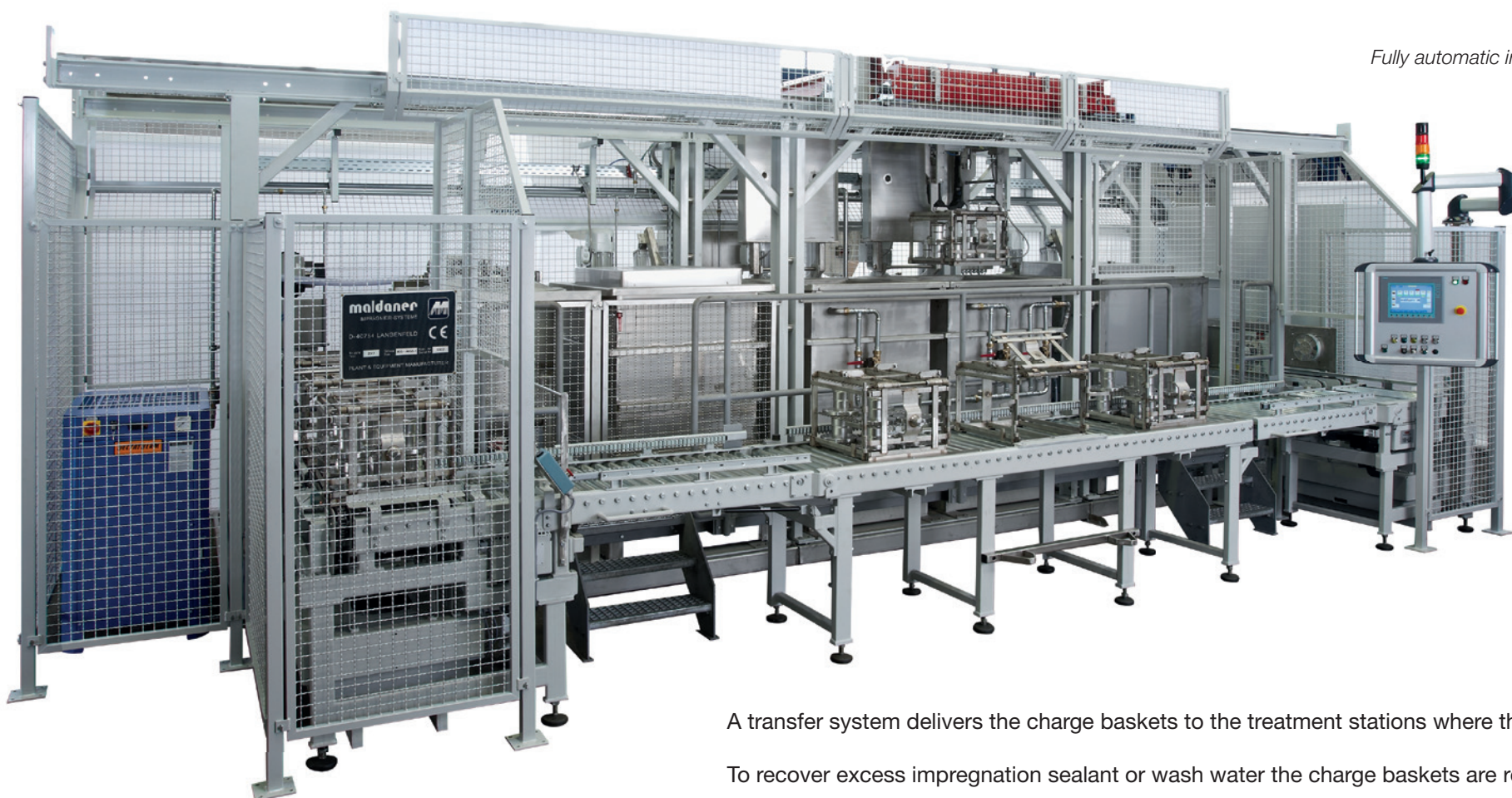
Over 50 years of experience in impregnation technology enable the best engineering in our impregnation systems.

If you have large quantities of leaking castings, purchasing an impregnation system could be the most cost effective option.

At our German production site, we manufacture complete systems for metal impregnation. In addition to semi or fully automated standard systems, we offer custom-built equipment to suite individual needs.

The experience from our job-shops is included in new equipment.

Fully automated systems



Fully automatic impregnation line

A transfer system delivers the charge baskets to the treatment stations where they are processed.

To recover excess impregnation sealant or wash water the charge baskets are rotated after each process step.

After removal from the polymerisation bath, the parts flash dry due to their residual heat. Formation of corrosion by moisture is thus prevented. A vacuum dryer can be added optionally.

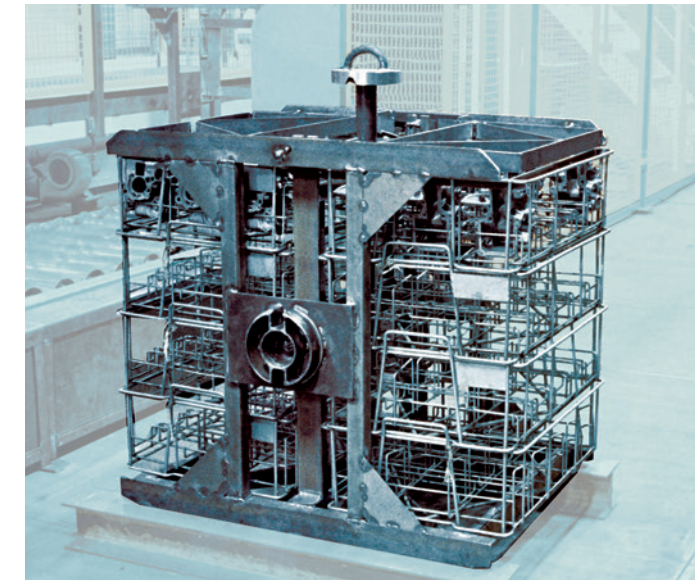
Mini-System Type M



- Small turn key system with crane track, installed on a frame
- Semi-automatic system with washing device (work direction of the displayed system from right to left at customer-request)
- Expandable according to individual demand

Special Equipment

We deliver any desired special device for the impregnation systems. Our designers develop the solution that corresponds to customer's demand; it is then optimised by impregnation tests in one of our job-shops with the customer's own castings.



Special frame to take up customer's own washing and transport baskets – work pieces do not need to be repacked, which reduces handling costs and risk of damage.

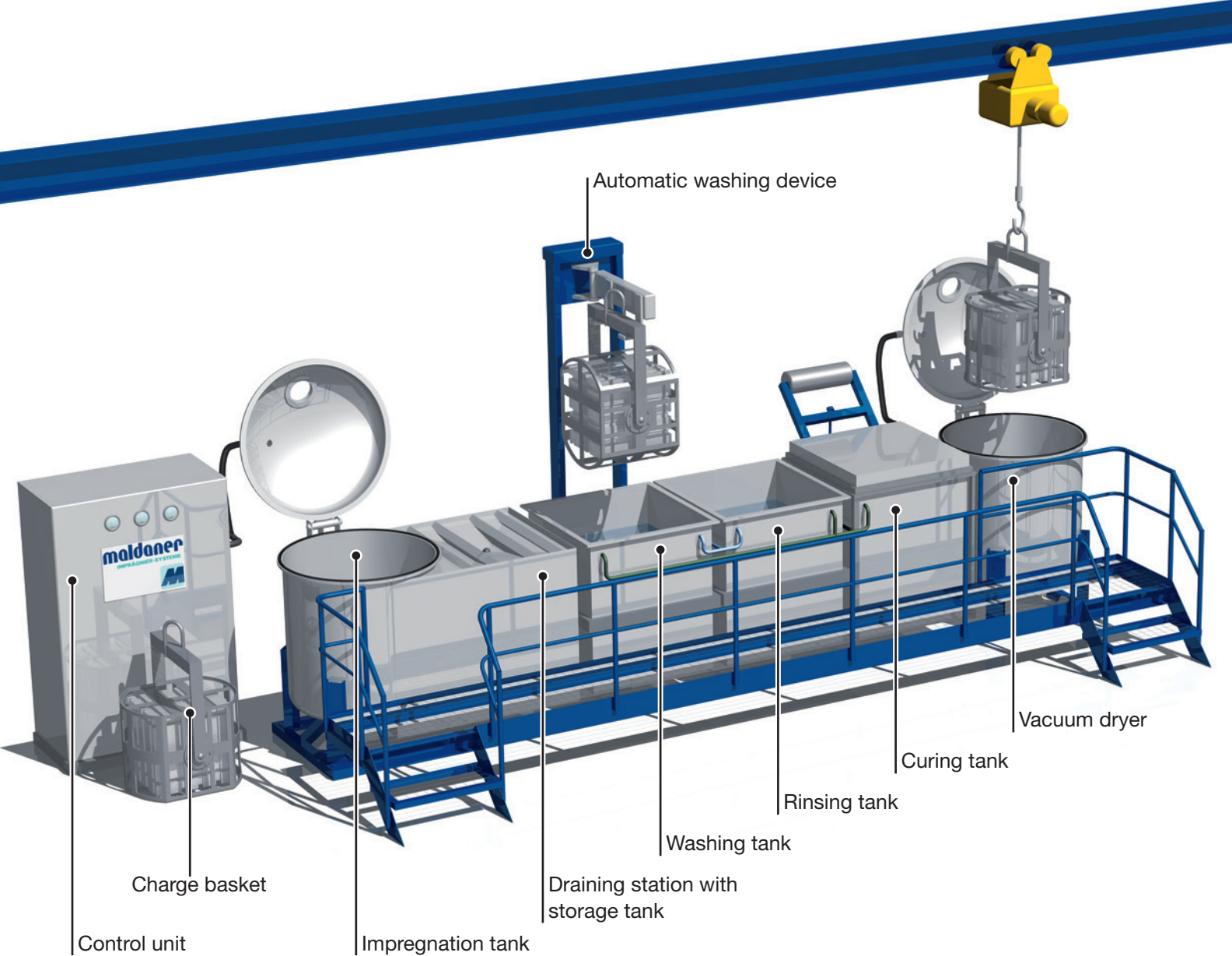
To rationalise the impregnation process, we have developed a number of additional devices:

We recommend **rotating baskets** for complicated parts with bores, threads and blind holes. The closed basket can be rotated around its central axis when hanging from the crane. Excess impregnation sealant is recovered by various drain processes. The parts exit the wash and hot cure processes perfectly clean.

Special fixtures suitable for holding large, machined castings like gear housings or motor blocks are used. Such parts are firmly clamped to prevent any damage. Using these frames helps to enhance sealant recovery.

Washing devices help to improve washing and draining of complicated parts.

Vacuum dryers after hot cure provide completely dry work pieces and thus help to prevent corrosion by residual moisture.



Dimensions – standard impregnating installations

	System Type	Charge basket dimensions mm	Charge basket capacity dm ³	Overall length mm	Overall width mm	Required hook height mm	Fill volume (sealant) dm ³
Hand operated Installations	M (550-Hand)	Ø450 x 400	52	5.800	1.800	1.900	240
	A (600-Hand)	Ø560 x 510	100	6.800	2.200	2.200	320
	AB (800-Hand)	Ø700 x 700	220	8.300	3.500	2.700	600
	B (950-Hand)	Ø870 x 700	360	9.000	3.600	2.900	950
Automatic Installations	800-Auto	Ø720 x 700	200	10.800	4.000	4.200 *	900
	1000-Auto	Ø920 x 860	450	13.200	4.500	4.400 *	1.200
	1200-Auto	Ø1.100 x 930	720	15.000	5.000	4.600 *	1.600

* = Overall height incl. autom. transfer system

All dimensions depending on configuration.

Maldaner GmbH

Max-Planck-Ring 3
40764 Langenfeld
Germany

Tel.: +49 2173 984 99 0

Fax: +49 2173 740 12

E-Mail: mail@maldaner.de

Internet: www.maldaner.de



Porosity? No problem – we use Maldaner!

maldaner
IMPREGNATING-SYSTEMS



Impregnating Plants
Impregnating Materials
Impregnating Services