

Hardware

MTE Process technology

Hardware

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Tray hardware

MTE supplies hardware for trays and column internals in a variety of sizes and materials.

Our large stock of tray hardware and our in-house production enables us to construct and ensure maximum flexibility and short delivery times. All items are packed in 25 or 50 pieces per sealed bag.

Furthermore, our engineers are available to support you with the selection of the correct quantity and types.

Material 410, 304 and 316 are on stock, but we can also provide different kind of materials (316Ti, 321, and so on) on request.



Divisions

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Washers

Art. Nr.	Description	Size (mm)
MW-45-25-4	Manway Washer (sinking plate)	45 x 25 x 4
W-25-11-2	Washer	25 x 11 x 2
W-32-11-2	Washer	32 X 11 x 2
W-40-11-2	Washer	40 x 11 x 2
W-45-11-2	Washer	45 x 11 x 2
W-45-13-2	Washer	45 x 13 x 2
W-50-11-2	Washer	50 x 11 x 2
DW-25-11-2	Domed Washer	25 x 11 x 2
DW-32-11-2	Domed Washer	32 x 11 x 2
DW-38-11-2	Domed Washer	38 x 11 x 2
DW-45-11-2	Domed Washer	45 x 11 x 2
GW-32-11	Gasket Washer (fiberglass)	32 x 11
GW-38-11	Gasket Washer (fiberglass)	39 x 11
GW-45-11	Gasket Washer (fiberglass)	45 x 11
GW 50-11	Gasket Washer (fiberglass)	50 x 11



Nuts

Art. .Nr.	Description	Size
SN-38	Standard nut	3/8"
SN-10	Standard nut	M10
SN-12	Standard nut	M12
SN-16	Standard nut	M16



Standard materials (AISI 304/304S, AISI 316/316L, AISI 410/410S) available in stock.

Special materials: 1.4462, Titanium, Monel® alloy 400/625, AISI 904L on request.

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Bolts

Art. Nr	Description	Diameter	Length (mm)
SB-38-25	Standard Bolt	3/8"	25
SB-38-35	Standard Bolt	3/8"	35
SB-38-50	Standard Bolt	3/8"	50
SB-8-25	Standard Bolt	M8	25
SB-8-30	Standard Bolt	M8	30
SB-10-25	Standard Bolt	M10	25
SB-10-30	Standard Bolt	M10	30
SB-10-35	Standard Bolt	M10	35
SB-10-40	Standard Bolt	M10	40
SB-10-50	Standard Bolt	M10	50
SB-12-30	Standard Bolt	M12	30
SB-12-40	Standard Bolt	M12	40
SB-12-50	Standard Bolt	M12	50
SB-16-40	Standard Bolt	M16	40
SB-16-50	Standard Bolt	M16	50
SB-16-60	Standard Bolt	M16	60
DS-10-50	MANWAY D-Shape Stud (flatted 1 side)	M10	50
DS-38-50	MANWAY D-Shape Stud (flatted 1 side)	3/8"	50
DS-10-50	MANWAY D-Shape Stud (flatted 2 sides)	M10	50



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Clamps

Art. Nr.	Description	Detail
OC	One way universal clamp	
OC-10-50	One way universal clamp with welded bolt M10 x 50 mm	With round hole
TC-10-50	Two way universal clamp with welded bolt M10 x 50 mm	With D-hole
WC	Wedge clamp 1,4-2 mm	8,5 x 1,5 x1,5 mm



Valves

Description	Thickness (mm)	Leg length (mm)	Length (mm)
Snap in valve type 1	1,5	11,1	12,7
Snap in valve type 2	2,0	11,1	12,7
MV1 valve	1,5	11,1	12,7
MV1 valve	2,0	11,1	12,7
MV4 valve	1,5	14,3	on request
MV4 valve	2,0	14,3	on request



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Bubble caps

Description	Size
Bubble cap standard slot	2"
Bubble cap standard slot	4"
Bubble cap standard slot	6"
Bubble cap standard slot	various
Bubble cap customized slot	2"
Bubble cap customized slot	4"
Bubble cap customized slot	6"
Bubble cap customized slot	various



Specials

Art. Nr	Description	Size (mm)
W	Wedge M410	8,4 x 1,5 x 1
LT - 1,5	Lug type 102T	1,5
JB	J- Bolts	various
BP-2	Beam Plate	2,0
SP	Seal Plate	80 x 20 x 1,5
HC	Hinge Clamp	Unique design

Materials hardware

Standard materials (AISI 304/304S, AISI 316/316L, AISI 410/410S) available in stock.
Special materials: 1.4462, Titanium, Monel® alloy 400/625, AISI 904L on request.

To order and for additional information, support or (special) requests, please contact our sales department: sales@mte-bv.com.

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Troubleshooting

Many column failures are caused by malfunctioning of the column internals or trays. Due to our broad experience in a variety of applications, MTE is able to analyse your column failure.

We can provide you with a solution, either just in the form of an advice or a turn-key solution.

On site hardware

MTE supplies hardware for trays and column internals in a variety of sizes and materials. This can be packed and delivered by our own logistics, or, for more convenience during turnarounds, we can place a fully loaded hardware trailer, stacked with items preferred by the end user. We assist in handling storage and can refill items on a very short period.

MTE's engineers have the long-time experience to support you with your selection of the correct quantity and types. Almost all hardware is produced in the factory of MTE to ensure maximum flexibility and short delivery times.

Site- and turnaround services

Deciding to work with MTE means you can rely on a very high service level, technical competence and broad application knowledge. The mass transfer equipment factory is situated in the Netherlands, which guarantees short delivery times and excellent quality. We have a very open approach towards our customers. You are always welcome to inspect the progress in our factory during production at any time.

Replacement

MTE produces mass transfer equipment in a variety of materials. MTE has a one-stop-shop with up to date machinery dedicated for production of mass transfer equipment. We are able to produce most column internal or tray type currently on the market. Both can be built from scratch or replicated from customer supplied drawings.

During turnarounds MTE can act as a partner for any urgent repair or troubleshoot action related to mass transfer equipment. With MTE's in-house test facility, functionality tests can be executed to ensure whether the equipment is up to its task.



OPTIMIZING MASS TRANSFER

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TRAYS AND INTERNALS

Column internals and tray repairs

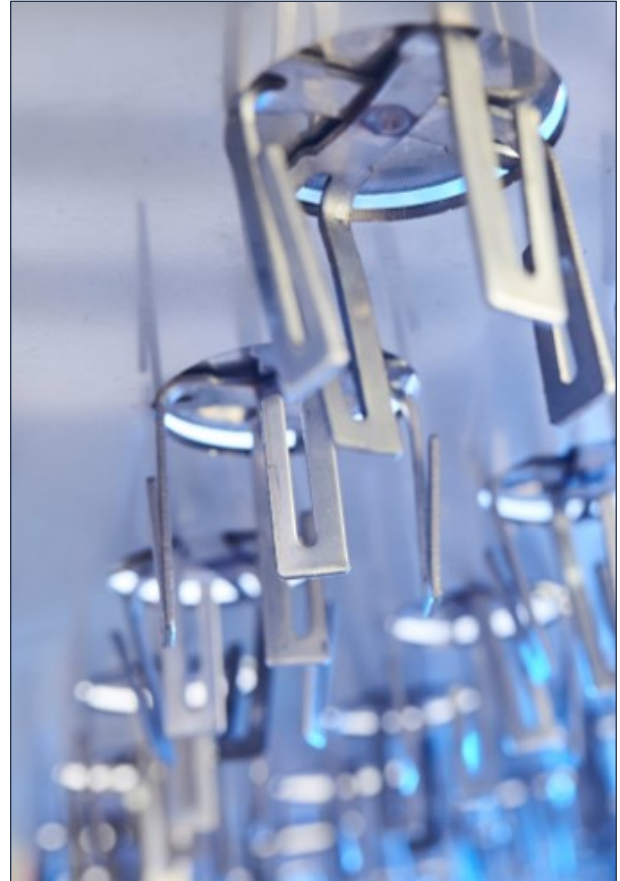
Finding damaged trays during turnarounds is always an unpleasant surprise. MTE is completely equipped to handle urgent equipment deliveries.

MTE has dedicated machinery to produce tray deck parts, such as:

- Manway panels for sieve trays;
- Valves trays;
- Fixed valve trays, etc.

Raw materials are kept in stock in a variety of material and thickness. MTE can keep this for you in stock if special materials are required.

Trays and internals can be produced as a like-for-like replacement item or as an optimized or revised design, based on MTE's experience and simulation software.



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