MonTech Laboratory curing moulds for rubber, plastics, foam, wires and trial moulding

MonTech Precision Curing moulds - General Overview and Introduction

In our inhouse mould-making shop MonTech manufactures a comprehensive range of precise and durable sample curing moulds according to ISO, DIN, ASTM and GB standards in various different versions. MonTech curing moulds guarantee easy handling and accurate moulding results.

The molds are available with single or multiple cavities, hardened or polished stainless steel. Every type of sample preparation for any kind of material can be covered with more than 500 different types of standard curing mould designs, over 20 different material types, and more than 20 different surface finishings and coatings. Of course moulds can also be engineered, designed and machined per customer individual requirements and specifications.

Advanced curing mould design

Every MonTech curing mould system is a precise toolset to ensure the highest sample preparation precision and optimal results.

All MonTech mould and cover plates are exclusively made from high strength stainless steel, withstanding even highly aggressive compounds and materials. The fabrication of every mould plate includes tempering to relieve all strains from the material, coplanar grinding for highest parallelism, machining with a dimensional precision of up to 0.002 mm, polishing, final inspection and quality control.

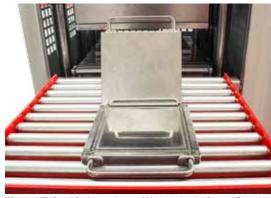
In addition to this, moulds can optionally be fitted with sensors for force, flow and temperature distribution measurement, allowing simple sample preparation, production trials and simultaneous data acquisition for tests like cure simulation.

MonTech moulds are

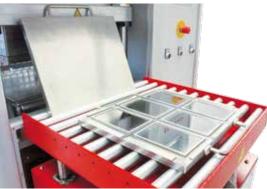
- · Precisely FEM engineered and modelled
- Designed with advanced 3D solid modeling;
- CNC 5axis machined
- · Precision ground
- · Expertly honed
- Finely polished
- Made from High carbon content A2 mold steel
- thick, tempered mould plates resist warping, distribute heat and pressure evenly
- machined with deep overflow recesses (flash pockets) reduce overfill problems
- feature precision locator pins & receivers that assure precise mould plate alignment
- equipped with High strength fasteners which resist the effects of strain and stress and thermal fatigue

Standard surface finishes:

- Precision ground and fine-finished (<Ra 0,4) [STANDARD]
- · Nitriding and black oxidizing
- · Precision ground and mirror polished
- Tack reducing PTFE (Teflon) coating
- Wear-resistant TiN (Titanium Nitride) coating
- · Chrome plating
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ISO 2393 / ASTM D 3182 Single cavity sheet mould (150x150x2mm) Part no.: MT 218-02000



Six cavity sheet mould (6x 150x80x2mm)

Part no.: MT 218-0100





Two cavity sheet mould (2x 200x95x2mm)

Part no.: MT 218-05004

CURING MOULDS

MonTech standard laboratory curing moulds

MonTech stocks standard curing moulds for immediate delivery as well as - due to extensive in-house machining capabilities as well as a own mould making shop - can produce required curing moulds within a few days after technical clarification and drawing approval.

With over 800 moulds - solely for rubber lab applications - produced annually and wether moulds according to standards, customer adapted or individually designed moulds, MonTech is your competent partner for any sort of curing mould and mould fixture requirement.

Mould type / class	Application	No. of cavities	Cavity dimensions mm	Overall dimensions mm + cover	Remark	Part - No
Sheet mould 6 Cav		6	120x80x2	346x300x17 + 12		MT 218-01000
Sheet mould 4 Cav		4	150x150x2	396x396x17 + 12		MT 218-03000
Sheet mould 4 Cav		4	150x150x2	396x396x17 + 10	Hinged	MT 218-13000
Sheet mould 2 Cav	Flat sheet	2	95x180x2	246x246x17 + 12		MT 218-05000
Sheet mould 2 Cav	moulding	2	95x200x2	246x246x17 + 12		MT 218-05004
Sheet mould 2 Cav	according	2	150x150x2	346x196x17 + 12		MT 218-05005
Sheet mould 2 Cav	ISO 2393 /	2	105x105x2	158x296x17 + 12		MT 218-05007
Sheet mould 1 Cav	ASTM D 3182	1	150x150x2	196x196x17 + 12		MT 218-02000
Sheet mould 1 Cav	A31111 D 3102	1	150x150x6	196x196x17 + 12		MT 218-02009
Sheet mould 1 Cav		1	250x250x2	296x296x17 + 12		MT 218-02005
Sheet mould 1 Cav		1	200x200x2	246x246x17 + 12		MT 218-02008
Sheet mould 80x40+40x20		4+3	80x30x2, 40x40x2	196x196x17 + 12		MT 218-24001
Multi cavity mould Small 1 Multi cavity mould Small 2	various e.g. Hardness,	6/6/8/1 6/6/8/1	Ø29x12.5 / Ø16x8 / Ø13x6.3 / 25x70x6 Ø40x6 / Ø29x12.5 / Ø13x6.3 / 96x82x6	246x246x22 + 12 246x246x22 + 12		MT 218-06000 MT 218-06003
Multi cavity mould 3	Density,	12 / 24 / 14 / 24	Ø44x6 / Ø29x12 / Ø16x8 / Ø13x6.3	396x396x22 + 12		MT 218-06007
Multi cavity mould 4	Abrasion,	24 / 16 / 1	Ø40x4 / Ø8x4 / 72x208x4	396x396x17 + 12		MT 218-06010
Multi cavity mould 5	Rebound,	24 / 16 / 1	Ø40x6 / Ø8x6 / 72x208x6	396x396x17 + 12		MT 218-06011
Multi cavity mould 6	Compr. set,	11 / 18 / 18	Ø42x6 / Ø16x6 / Ø13x6	296x296x17 + 12		MT 218-06012
Multi cavity mould 7	Dispersion,	5/2	Ø43x6 / 150x150x2	346x260x17 + 12		MT 218-06017
Multi cavity mould 8		4/8	150x150x2 / Ø43x6	446x446x17 + 12		MT 218-06019
Circular button mould 2 plate	Rebound	9	Ø29x12.7	196x196x17 + 12		MT 218-06008
Circular button mould 2 plate	Rebound	16	Ø29x12.7	246x246x22 + 12		MT 218-10004
Circular button mould 2 plate	Hardness / SG	16	Ø40x6	246x246x17 + 12		MT 218-11000
Circular button mould 2 plate	Hardness / SG	9	Ø42x6	196x196x17 + 12		MT 218-11003
Circular button mould 2 plate	Ring cutting	9	Ø60x6	246x246x17 + 12		MT 218-11002
Circular button mould 2 plate	Ring cutting	20	Ø65x4	396x396x17 + 12		MT 218-06015
Circular button mould 3 plate	Compr. set	16	Ø10x10	230x160x10 + 2x10		MT 218-14004
Circular button mould 3 plate	Abrasion	16	Ø16x10	230x160x10 + 2x10		MT 218-14001
Circular button mould 3 plate Circular button mould 3 plate	Flexometry Rebound small	9 16	Ø18x25.4 Ø29x12.7	156x156x25.4 + 2x12 246x246x12.7 + 2x12		MT 218-15013 MT 218-10000
Circular button mould 3 plate	Hardness / SG	10	Ø39x6	0108x6 + 2x10		MT 218-10000
Circular button mould 3 plate	Hardness / SG	33	Ø42x6	396x396x6 + 2x10		MT 218-07001
Circular button mould 3 plate	Hardness / SG	36	Ø43x6	396x396x8 + 2x12		MT 218-15000
Circular button mould 3 plate	Hardness / SG	12	Ø50x6	346x296x6 + 2x12	fixed handles	MT 218-15015
Circular button mould 3 plate	Rebound large	9	Ø50x20	246x246x20 + 2x12		MT 218-09000
Circular button mould 3 plate	Rebound large	9	Ø50x12	246x246x12 + 2x12		MT 218-15011
Square button mould 2 plate	Hard / SG / Abr	20 / 18	51x51x6 / Ø16x6	396x296x17 + 12		MT 218-24003
Square button mould 2 plate		4	120x60x6.5	346x196x17 + 12		MT 218-03014
Square button mould 2 plate	DMA	9	70x70x0.85	310x310x21 + 11	Grid mould	MT 218-25000
Square button mould 2 plate		6/3	130x175x2x6 / 130x30x8	446x446x17 + 17	Mould rail	MT 218-16001
Square button mould 3 plate	Dispersion	24	30x8x6	296x296x6 + 2x10	fixed handles	MT 218-22015
Square button mould 3 plate	Dispersion	24	50x12x6	296x296x6 + 2x10		MT 218-22000
Square button mould 3 plate	Plastics sheets	4	100x100x0.5-4.5	296x296x0.5-4.5 + 2x17		MT 218-22011
Square button mould 3 plate	Foam / Sponge	1	130x130x20 conical	196x196x20 + 2x12	conical cavity	MT 218-22017
De-Mattia Fatigue	ISO 132	5	25x150x6.3 with kink	346x206x17 + 17		MT 218-04000
Fatigue to failure FTFT	ASTM D 4482	2	Strips with flanges and marks	296x346x17 + 17		MT 218-08000
Positive mould Ø50	Plastics	1	Ø200x2 / 4 / 10	246x246x27 + 17-27		MT 218-23005
Positive mould 150x150	Fabric adhesion	1	150x150x4	196x196x15 + 15		MT 218-17015
Cord adhesion H-Test 2B	ASTM D 4776 2B	10	177.8x6.4x9.52 Slot width 1.17	~450x196.8x25.4 + 12	incl. weights	MT 218-18006
Cord adhesion H-Test 2A	ASTM D 4776 2A	10	177.8x6.4x6.35 Slot width 1.17	~430x196.8x25.4 + 12	incl. weights	MT 218-18009
Cord and wire adhesion 25	ASTM D 1871	1	200x25x12.5 with 12 slots 1.15	246x146x12.5 + 12+10		MT 218-21001
Cord and wire adhesion 12.5	ASTM D 1871	1	200x12.5x12.5 with 12 slots 1.15	246x146x12.5 + 12+10		MT 218-21002
Cord and wire adhesion 50	ASTM D 1871	1	200x50x12.5 with 12 slots 1.15	246x146x12.5 + 12+10		MT 218-21003
Beadwire adhesion 50	ASTM D 1871	1	200x50x12.5 with 12 slots 1.20	246x146x12.5 + 12+10		MT 218-21004
Steel cord adhesion	ASTM D 2229	4 0	200x12.5x12.5 with 15 slots 1.80	300x300x12.5 +2x10	incl waights	MT 218-21020
Cord adhesion H-Test ISO	ISO 4647	8	100x6.4x3.2 with 4 slots 1.2x3 (opt. 0.8x3)	~400x145x15 + 12	incl. weights	MT 218-21061