YTM-LV Series Vibration Dampers



Vibration Dampers for Machines and Appliances

YTM-Industrial
INDUTRADE GROUP

Cutting-Edge Damper Technology



The YTM-LV series vibration dampers efficiently dampen vibration regardless of its direction. Static depression is just 0–5%, even after several years of service. The elasticity of the material remains unaffected for decades. The superiority of our YTM-LV series dampers is evidenced by measurements and decades of experience.

- Two resonance ranges, horizontal (c) and vertical (d) – both only around 4 Hz.
- The frequency range between the horizontal and vertical resonance ranges offers dampening which is just as efficient as the supercritical (1.5–4.5 Hz) frequency range.
- Full dampening is achieved immediately after the vertical resonance range.

This unique vibration dampening efficiency is made possible by the extraordinary natural rubber used in the LV series dampers.

The material is 95% natural rubber, made of fresh latex and practically no added chemicals or minerals that could cause degradation. The rubber is also treated to prevent static deformation.

The end result is a superbly homogeneous material that retains the elasticity and "soul" of natural rubber. We have several decades of experience of vibration dampening and damper manufacture.

Take advantage of our know-how today!

For more information, visit the products website:
www.ytm-lv.fi

APPLICATIONS

- The YTM-LV series dampers can be used to dampen vibration in all sorts of machines and equipment.
- The range of applications is extremely wide – the dampers are suitable for practically any machine or piece of equipment that requires vibration dampening.
- The galvanized steel plates protect the natural rubber from mechanical damage as well as against UV radiation and organic solvents, for example.

Damper Selection

LV 8 / LV 10

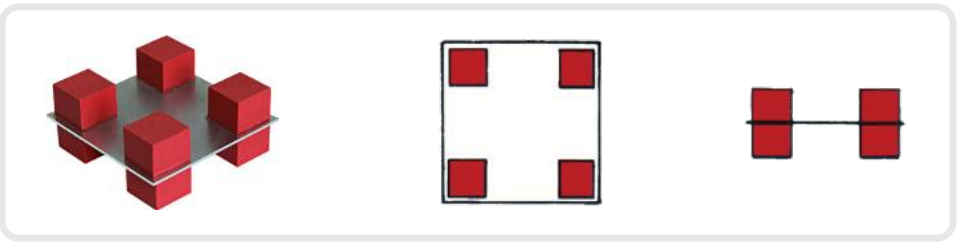
- Machine RPM over 700
- Suspension: Between the concrete slab/platform
- Not suitable for outdoors
- Not suitable for oils/grease



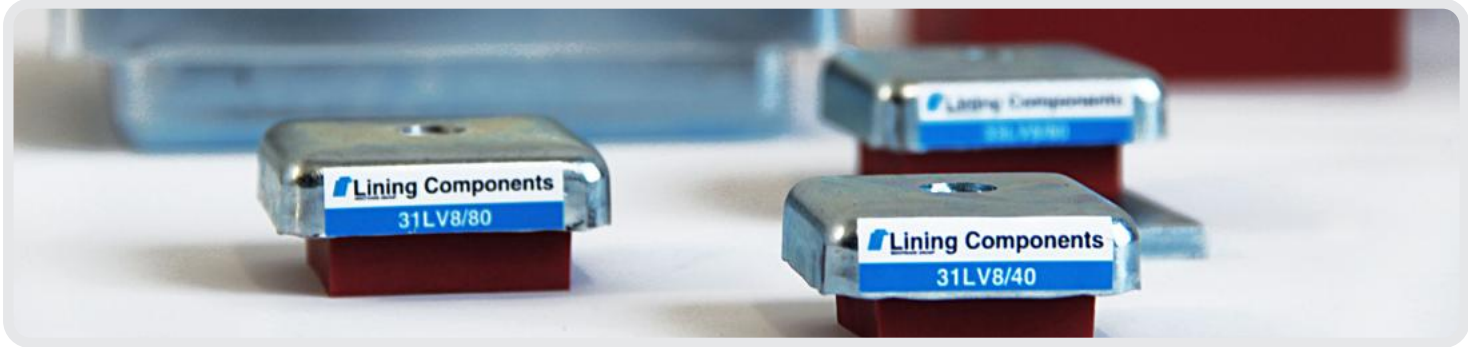
Malli	a x b (mm)	h (mm)	Paino (kg)
LV 8/40	30 x 30	20	0,015
LV 8/80	35 x 35	20	0,025
LV 10/120	46 x 46	40	0,075
LV 10/200	60 x 60	40	0,135
LV 10/300	70 x 70	40	0,185
LV 10/450	80 x 80	40	0,24
LV 10/600	90 x 90	40	0,29
LV 10/1200	90 x 200	40	0,63

LV 16

- Machine RPM under 700
- Suspension: Between the concrete slab/platform
- Not suitable for outdoors
- Not suitable for oils/grease

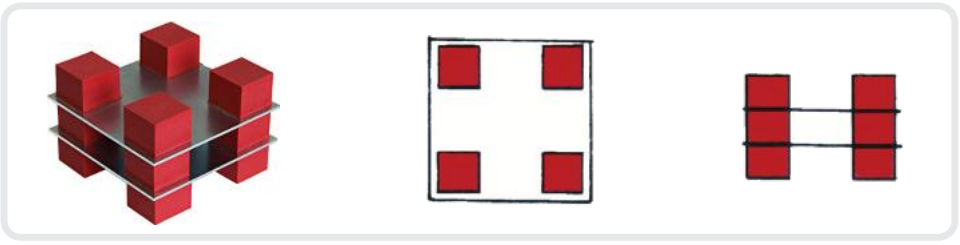


Malli	a x b (mm)	h (mm)	Paino (kg)
LV 16/200	150 x 150	63	0,72
LV 16/300	150 x 150	63	0,78
LV 16/400	150 x 150	63	0,9
LV 16/700	150 x 150	63	1,07
LV 16/1000	200 x 200	64	2,13
LV 16/1500	200 x 200	64	2,53



LV 24

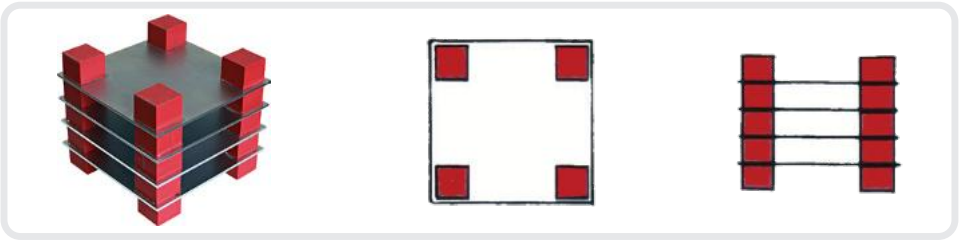
- Machine RPM under 700
- Suspension: Between the concrete slab/platform
- Not suitable for outdoors or oils/grease
- S3-classification



Malli	a x b (mm)	h (mm)	Paino (kg)
LV 24/200	150 x 150	96	1,25
LV 24/300	150 x 150	96	1,35
LV 24/400	150 x 150	96	1,6
LV 24/700	150 x 150	96	1,8
LV 24/1000	200 x 200	98	4,3
LV 24/1500	200 x 200	98	4,7

LV 40

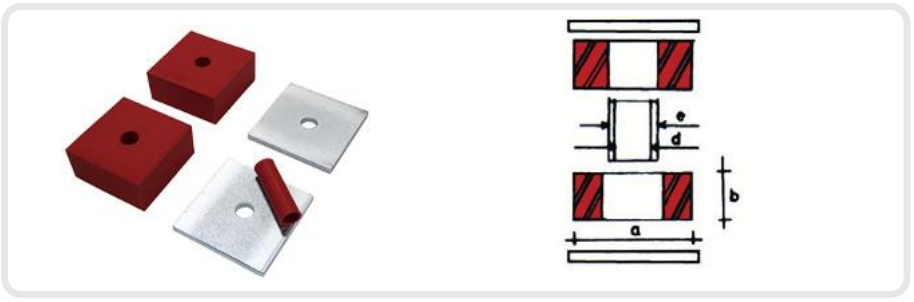
- Machine RPM under 700
- Suspension: Between the concrete slab/platform
- Not suitable for outdoors or oils/grease
- S3/S6-classification



Malli	a x b (mm)	h (mm)	Paino (kg)
LV 40/200	200 x 200	166	5,2
LV 40/300	200 x 200	166	5,7
LV 40/400	200 x 200	166	5,9
LV 40/700	200 x 200	166	6,4
LV 40/1000	200 x 200	166	7,1
LV 40/1500	200 x 200	166	8,2

4LV

- 4LV-series includes 2 pcs of rubber dampers, a rubber tube and 2 pcs of metal washers



Malli	a mm	b mm	d mm	e mm	kg /vaiment.	Paino (kg)
4LV 3/8	18	2 x 12	6	10	-3	0,010
4LV 3/10	20	2 x 10	6	10	2 - 6	0,010
4LV 3/20	25	2 x 12	6	10	3 - 10	0,017
4LV 4/30	30	2 x 16	8	12	5 - 15	0,030
4LV 8/40	30	2 x 20	10	16	7 - 20	0,055
4LV 8/80	35	2 x 20	10	16	20 - 60	0,075
4LV 10/120	46	2 x 40	12	18	50 - 100	0,245
4LV 10/200	60	2 x 40	12	18	100 - 200	0,440
4LV 10/300	70	2 x 40	16	20	150 - 300	0,640
4LV 10/600	90	2 x 40	16	20	300 - 600	1,190

4WLV

- 4WLV-series includes 2 pcs of rubber dampers, a rubber tube and 1 pc of metal washer





Malli	a mm	b mm	d mm	e mm	kg /vaiment.	Paino (kg)
4WLV 3/8	18	2 x 12	6	10	-3	0,010
4WLV 3/10	20	2 x 10	6	10	2 - 6	0,010
4WLV 3/20	25	2 x 12	6	10	3 - 10	0,017
4WLV 4/30	30	2 x 16	8	12	5 - 15	0,030
4WLV 8/40	30	2 x 20	10	16	7 - 20	0,055
4WLV 8/80	35	2 x 20	10	16	20 - 60	0,075
4WLV 10/120	46	2 x 40	12	18	50 - 100	0,245
4WLV 10/200	60	2 x 40	12	18	100 - 200	0,440
4WLV 10/300	70	2 x 40	16	20	150 - 300	0,640
4WLV 10/600	90	2 x 40	16	20	300 - 600	1,190

LVH 8

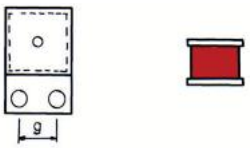


Malli	a mm	b mm	d mm	kg /vaiment.	Paino (kg)
LVH 8/40	30	20	16	7 - 20	0,013
LVH 8/80	35	20	16	20 - 60	0,023
LVH 10/120	46	40	18	50 - 100	0,07
LVH 10/200	60	40	18	100 - 200	0,13
LVH 10/300	70	40	20	150 - 300	0,18
LVH 10/600	90	40	20	300 - 600	0,28

3LV

- Machine RPM over 700
- Suspension: On the appliance/ platform from the side



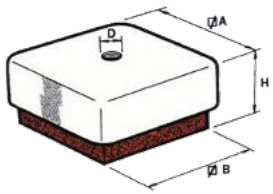


Malli	a x b mm	C	d	e	g	h	Paino (kg)
3LV 10/1200	100 x 220	260	M20	19	60	64	4,74

31LV 8

- Machine RPM over 700
- Suspension: On the appliance
- Not suitable for outdoors
- Not suitable for oils/grease



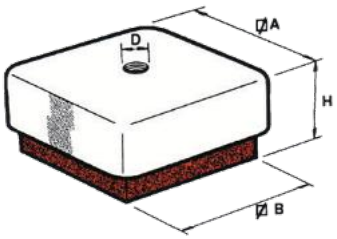


Malli	A mm	B mm	H mm	D	Paino kg
31LV8/40	44	30	23	M8	0,07
31LV8/80	49	35	23	M8	0,09

31LV 10

- Machine RPM over 700
- Suspension: On the appliance
- Not suitable for outdoors
- Not suitable for oils/grease



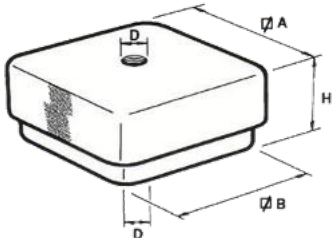


Malli	A mm	B mm	H mm	D	Paino kg
31LV 10/120	61	46	40	M10	0,2
31LV 10/200	79	60	40	M10	0,3
31LV 10/300	92	70	40	M12	0,4
31LV 10/450	124	90	40	M12	0,7
31LV 10/600 M12	124	90	40	M12	0,8

32LV 10

- Machine RPM over 700
- Suspension: On the appliance/ platform through the bottom



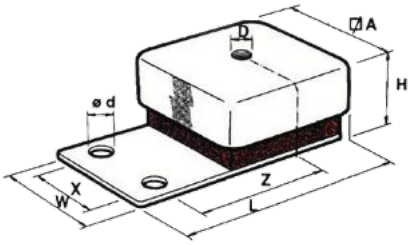


Malli	A mm	B mm	H mm	D	Paino kg
32LV 10/120	76	61	42	M10	0,4
32LV 10/200	92	79	42	M10	0,6
32LV 10/300	108	92	42	M12	0,8
32LV 10/450	144	124	42	M12	1,2
32LV 10/600 M12	144	124	42	M12	1,3

33LV 8

- Machine RPM over 700
- Suspension: On the appliance/ platform from the side



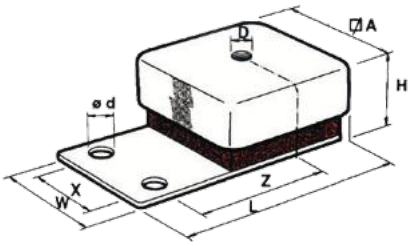


Malli	A mm	L mm	W mm	H mm	D	0 d mm	Z mm	X mm	Paino kg
33LV8/40	44	69	35	26	M8	10	35	1	0,12
33LV8/80	49	79	40	26	M8	10	44	1	0,15

33LV 10

- Machine RPM over 700
- Suspension: On the appliance/ platform from the side



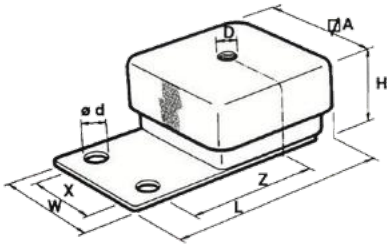


Malli	A mm	L mm	W mm	H mm	D	0 d mm	Z mm	X mm	Paino kg
33LV 10/120	61	96	50	43	M10	12	54	1)	0,3
33LV 10/200	79	118	64	43	M10	12	66	40	0,5
33LV 10/300	92	135	74	44	M12	14	75	45	0,7
33LV 10/450	124	175	94	44	M12	14	98	65	1
33LV 10/600 M12	124	175	94	44	M12	14	98	65	1,1

34LV 10

- Machine RPM over 700
- Suspension: On the appliance/ platform from the side



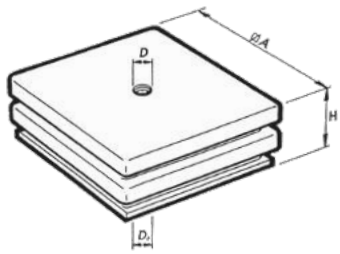


Malli	A mm	L mm	W mm	H mm	D	0 d mm	Z mm	X mm	Paino kg
34LV 10/120	76	105	50	45	M10	12	54	1)	0,5
34LV 10/200	92	124	64	45	M10	12	66	40	0,7
34LV 10/300	108	143	74	46	M12	14	75	45	1
34LV 10/450	144	185	94	46	M12	14	98	65	1,6
34LV 10/600 M12	144	185	94	46	M12	14	98	65	1,7

32LV 16

- Machine RPM under 700
- Suspension: On the appliance/ platform through the bottom



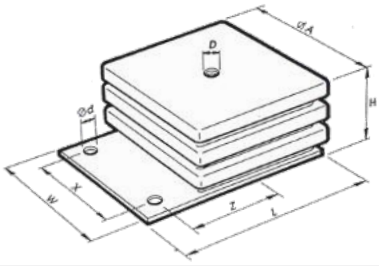


Malli	A mm	H mm	D	Paino kg
32LV 16/200	170	72	M12	3,1
32LV 16/300	170	72	M12	3,1
32LV 16/400	170	72	M12	3,2
32LV 16/700	170	72	M12	3,4
32LV 16/1000	220	76	M16	6,8
32LV 16/1500	220	76	M16	7,2

34LV 16

- Machine RPM over 700
- Suspension: On the appliance/ platform from the side



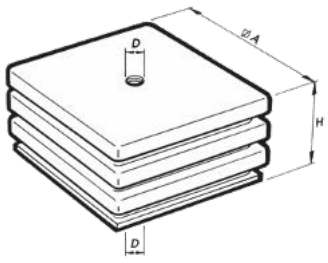


Malli	A mm	H mm	L mm	D	W mm	X mm	Z mm	Ød mm	Paino kg
34LV 16/200	170	72	215	M12	160	120	110	14	3,3
34LV 16/300	170	72	215	M12	160	120	110	14	3,3
34LV 16/400	170	72	215	M12	160	120	110	14	3,4
34LV 16/700	170	72	215	M12	160	120	110	14	3,6
34LV 16/1000	220	76	275	M16	210	160	140	18	7,1
34LV 16/1500	220	76	275	M16	210	160	140	18	7,5

32LV 24

- Machine RPM under 700
- Suspension: On the appliance/ platform through the bottom
- S3-classification



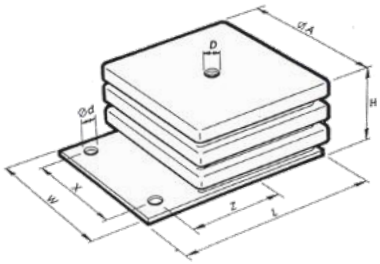


Malli	A mm	H mm	D	Paino kg
32LV 24/200	170	104	M12	4
32LV 24/300	170	104	M12	4,1
32LV 24/400	170	104	M12	4,2
32LV 24/700	170	104	M12	4,5
32LV 24/1000	220	109	M16	8,9
32LV 24/1500	220	109	M16	9,5

34LV 24

- Machine RPM under 700
- Suspension: On the appliance/ platform from the side
- S3-classification



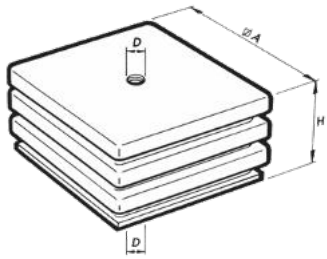


Malli	A mm	H mm	L mm	D	W mm	X mm	Z mm	Ød mm	Paino kg
34LV 24/200	170	104	215	M12	160	120	110	14	4,2
34LV 24/300	170	104	215	M12	160	120	110	14	4,3
34LV 24/400	170	104	215	M12	160	120	110	14	4,4
34LV 24/700	170	104	215	M12	160	120	110	14	4,7
34LV 24/1000	220	109	275	M16	210	160	140	18	9,2
34LV 24/1500	220	109	275	M16	210	160	140	18	9,8

32LV 40

- Machine RPM under 700
- Suspension: On the appliance/ platform through the bottom
- S3/S6-classification



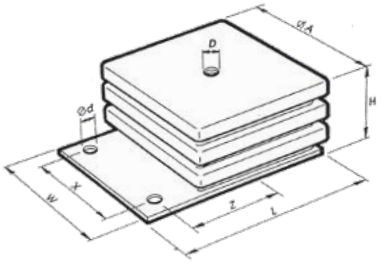


Malli	A mm	H mm	D	Paino kg
32LV 40/200	220	175	M16	11,5
32LV 40/300	220	175	M16	11,7
32LV 40/400	220	175	M16	11,9
32LV 40/700	220	175	M16	12,5
32LV 40/1000	220	175	M16	13,2
32LV 40/1500	220	175	M16	14,2

34LV 40

- Machine RPM under 700
- Suspension: On the appliance/ platform from the side
- S3/S6-classification





Malli	A mm	H mm	L mm	D	W mm	X mm	Z mm	Ød mm	Paino kg
34LV 40/200	220	175	275	M16	210	160	140	18	11,8
34LV 40/300	220	175	275	M16	210	160	140	18	12
34LV 40/400	220	175	275	M16	210	160	140	18	12,2
34LV 40/700	220	175	275	M16	210	160	140	18	12,8
34LV 40/1000	220	175	275	M16	210	160	140	18	13,5
34LV 40/1500	220	175	275	M16	210	160	140	18	14,5

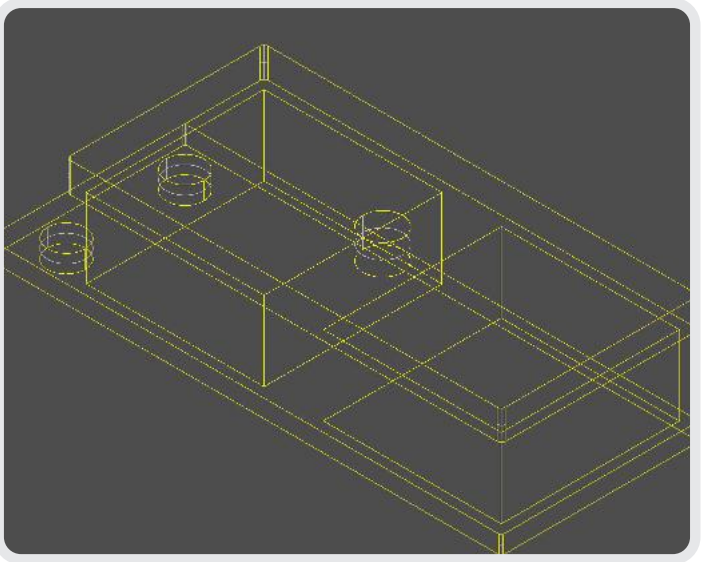
Instructions for installation

1. Check the weight of the load and make sure that the dampers you have available are suitable for dampening the load in question. Remember to factor in the weight distribution of the load.
2. E.g. The 34 LV 10/300 is designed for a load weighing between 180 and 270 kg (60–90% of 300 kg).
3. The LV series vibration dampers are designed for vertical compression loads. Make sure that the base and the bottom of the equipment are level.
4. When dampening vibration in machine aggregates, the actuator and the actuated equipment must stand on the same, solid base.
5. Check the ambient conditions:
6. The temperature should be between -35 and +65°C.
7. Models without casings should not be exposed to UV radiation.
8. Dampers should not be exposed to organic solvents.
9. The rubber used in the dampers should not be exposed to oils.
10. Any pipes or other similar structures should only be connected to the dampened equipment using flexible fasteners. This prevents them from interfering with the dampers, stops vibration from resonating along the pipes and protects the pipes against shearing forces.
11. Check the depression of the dampers after installation.
12. E.g. The 34 LV 10/300 should sag by about 6–9 mm under loading (60–90% of 10 mm).
13. Make sure to leave sufficient clearance all around the dampened equipment.
14. Should you have any queries, please do not hesitate to contact our vibration damper sales team.



CAD/Step-files

- We can provide you with CAD-drawings (.step) of our dampers if needed in your design process.



About Us

YTM-Industrial Oy has served the t Finnish industrial sector through the supply of technical components and equipment since 1977. We have over 80 professionals working in multiple locations throughout Finland.

Our company has been a part of the international Indutrade Group since the year 1987. Indutrade has over 200 subsidiaries in 28 different countries at four different continents. Indutrade employs globally over 5500 professionals.

Our business is not solely based on the importation. We offer our customers a complete service package which includes planning, supply, installation, commissioning, training, documentation, and where needed annual maintenance and supply of spare parts.



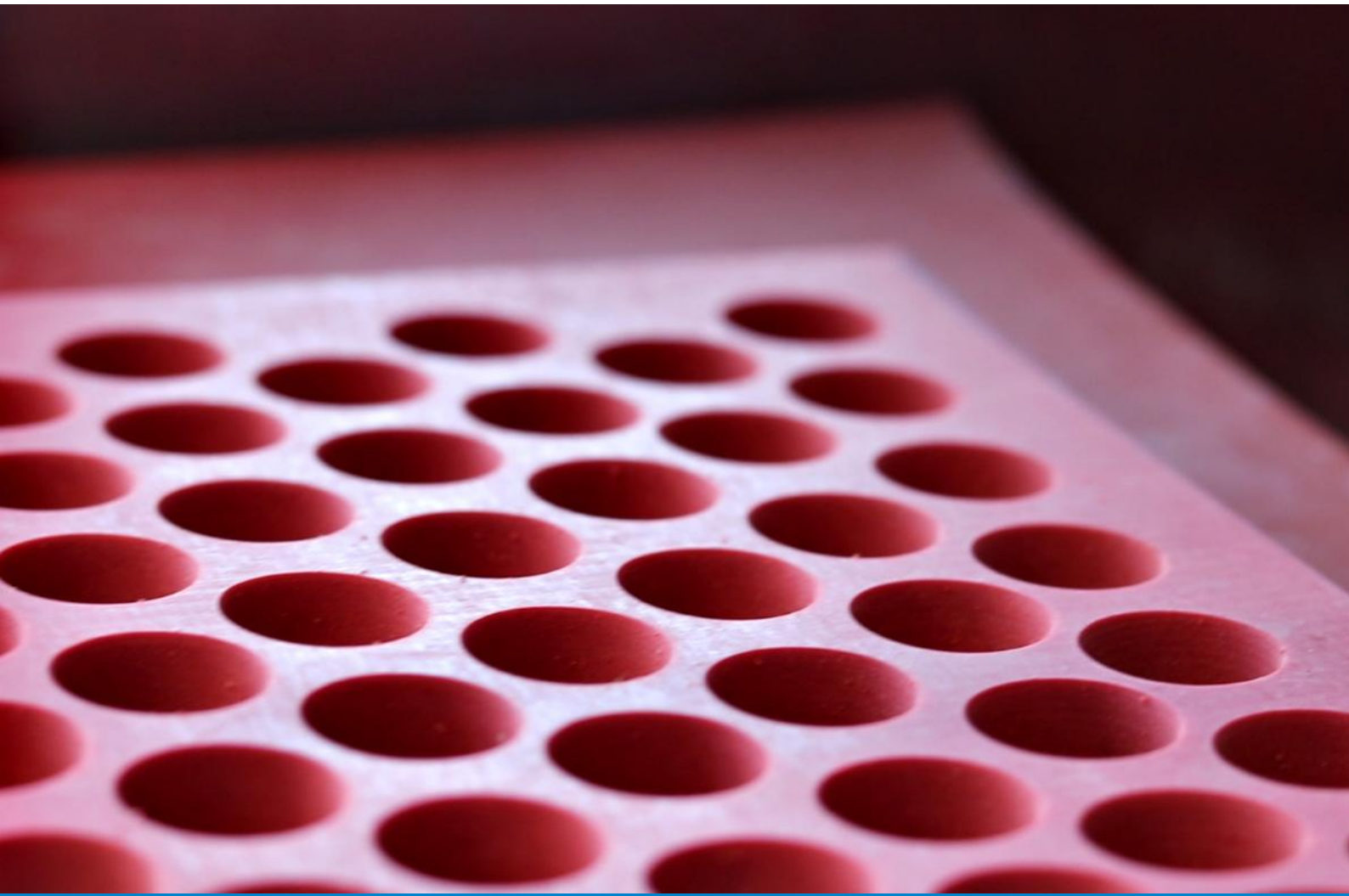
Identify customer needs

Provide a solution

Deliveries and installations

Technical support and maintenance

Our core mission is to ensure that our customers get the best possible added value to their operations from products and services we deliver.



YTM-Industrial
INDUTRADE GROUP

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Company website: www.ytm.fi
Webshop: www.ytmshop.fi

12/2019