

Printing pads



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Pad shapes and hardnesses
Pad holders

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General information

The printing pad is one of the deciding factors for producing excellent print results. Teca-Print manufactures high-quality printing pads tailored to the needs of pad printers and backed by a qualified team for support. With a commitment to excellence, silicone qualities and pad shapes are continuously evaluated and improved.

Printing pads are made of silicone and are available in different qualities, shapes and hardnesses.

Pad families, silicone qualities and hardnesses (i.e. durometer)

The pad's ink transfer performance varies depending on the properties of the silicone.

There is a wide range of silicone types to choose from in order to find the ideal pad for each application and to optimize the print quality.

The hardness of the pads is measured in Shore. Teca-Print uses the scale according to the system 00 Si. The production tolerance is ± 2 Shore 00 Si. Generally speaking, pad durometers range from 39 Shore 00 Si (very soft) to 68 Shore 00 Si (very hard). In addition to the quality of the surface and shape of the part to be printed, the printing force of the machine and the size of the print image must also be taken into consideration when choosing the proper pad durometer.

Cleaning

The dust and ink residue left on the pad surface should be cleaned with adhesive tape only.

Activation

New printing pads must be de-oiled before using them for the first time, so that the pad is activated for printing. Great care is required during the activation. Use soft paper towels, soaked with ink thinner (e.g. VD, VM) to wash down the pad surface. Important: dry rubbing or scrubbing can create an eraser effect and damage the pad surface. Once the surface is matt and the thinner evaporated, the pad can be used to print.

Storage

Store pads in an area without sunlight and keep them away from direct contact with other parts (including other pads).

Pad bases and fastening

Both wood and aluminum are used as pad bases. All Teca-Print printing pads with a wooden base have a M6 thread in the middle (if size and form allow). Printing pads with this pad base can easily be mounted to the corresponding pad holder containing a M6 threaded pin.

You can find an overview on pages 32 and 33.

The golden rule of pad selection

The rule below should be followed when choosing a printing pad:

Always choose the hardest, most pointed and largest pad possible.

The hardness of the pad helps to print sharp contours and ensures perfect prints on structured surfaces.

The steeper the pad is, the better the air can escape (i.e. during ink pick up and transfer).

The largest pad volume possible minimizes image distortion, as larger pads deform less.

Printing pad qualities



universal application

widest range of shapes

excellent fine-image transfer

very good resistance to mechanical abrasion



highest level of ink transfer,
suitable for the finest print images

highest edge precision

very good mechanical properties

Standard

Our "Standard" silicone range of printing pads covers a very broad spectrum of applications. They are available in a large variety of shapes and three different hardnesses.

Best transfer properties enable the printing of very fine detailed images. The silicone has a high level of resistance to mechanical abrasion and is therefore universal in application, even when used over a longer period the swell resistance is excellent. The good anti-static properties round off the benefits of the "Standard" pads.

In general we recommend our standard pads in the hardness "red" (medium-hard, 54 Shore 00 Si) as the first test option for a large variety of applications as long as no special silicone properties are required. This universal printing pad has an excellent price-performance ratio.

For special applications several shapes of the quality "Standard" are available with a cavity or with a net.

Printing pad qualities



excellent anti-static properties

high resistance to mechanical abrasion

swell resistant and easy to clean

long lifetime

StarX

The high-performance printing pads "StarX" are ideal for a large variety of applications. They are available in different hardnesses from 39 - 64 Shore and can be ordered in various shapes. The field of application ranges from single-colour line prints to multi-colour halftone printing.

Only a very short activation time is required for new StarX pads compared to standard silicones. The anti-static properties of this unique silicone offer unrivalled and splash free ink transfer.

The extremely high swell resistance of "StarX" printing pads can be used continuously even with alternating print images. Resistance to mechanical abrasion is also very high. Where pads may be over-compressed around curves or have continual contact with a tooling fixture, StarX pads will outlast standard silicones in the most demanding production situations.



superdry

no marks on glossy surfaces

highly tear-resistant

very good mechanical abrasion properties

BriX

"BriX" printing pads contain only encapsulated oil which makes them "superdry". Due to this encapsulation the printing pads quality "BriX" stand out from all other silicone qualities. No unwanted marks remain on the printing surface, not even on glossy substrates.

Thanks to the special components used in "BriX" printing pads the mechanical resistance and hardness are especially high. They score excellently in terms of abrasion and anti-swelling.

"BriX" printing pads are available in various shapes and two different hardnesses (medium hard and hard). After a short activation time they are ready to use.

Printing pad qualities



transfer of pad printing ink
as well as watchmaker's ink

relief-effect possible

best fine-image transfer



ideal for full-surface prints

long lifetime

very good anti-swelling properties



"FDA"-conform

supplied with a certification

particularly suitable for medical
technology sectors

Dual

The quality "Dual" combines two different silicone types and offers exceptional printing pads for special applications. Best fine-image transfer and the possibility to transmit not only pad printing inks but also other media such as watchmaker's ink, make the printing pads "Dual" so special. In the watch industry "Dual" printing pads combined with watchmaker's ink demonstrate the desired relief-effect particularly well.

"Dual" printing pads are limited to smaller, mostly round pad shapes and are available with coloured anodized aluminum bases. They are produced in durometer 64 Shore 00 Si (hard).

Long-Life

Printing pads quality "Long-Life" are produced in a great shape diversity and in two hardnesses (soft and medium hard).

Apart from their good resistance to mechanical abrasion the printing pads "Long-Life" are ideal for full-surface prints. The printed ink film of full-surface prints shows outstanding homogeneity.

These printing pads are also often used in the watch industry.

FDA

"FDA" printing pads meet the stringent requirements of the American Food- and Drug Administration. Due to its characteristics "FDA" printing pads are mainly used in the sector medical technology and in the food industry.

The printing pads quality "FDA" always have an aluminum base and an airtight packaging.

"FDA" printing pads are available in two hardnesses (medium hard and hard) and convince with a high mechanical resistance.

Overview printing pad qualities

silicone type	hardness	description	appearance	example
Standard	39 Shore 00 Si	W	white	
	44 Shore 00 Si	G	green	
	54 Shore 00 Si	R	red	
MaxX	50 Shore 00 Si	-X50	grey	
	62 Shore 00 Si	-X62	blue	
	68 Shore 00 Si	-X68	blue	
StarX	39 Shore 00 Si	-39	grey	
	44 Shore 00 Si	-44		
	54 Shore 00 Si	-54		
	64 Shore 00 Si	-64		
BriX	54 Shore 00 Si	-B54	brick red	
	64 Shore 00 Si	-B64		
Dual	64 Shore 00 Si	-DL64	transparent/ grey	
Long-Life	44 Shore 00 Si	O	white	
	54 Shore 00 Si	M		
FDA	54 Shore 00 Si	-54-MT-FDA	brick red	
	64 Shore 00 Si	-64-MT-FDA		

OrbiX - inspired by nature

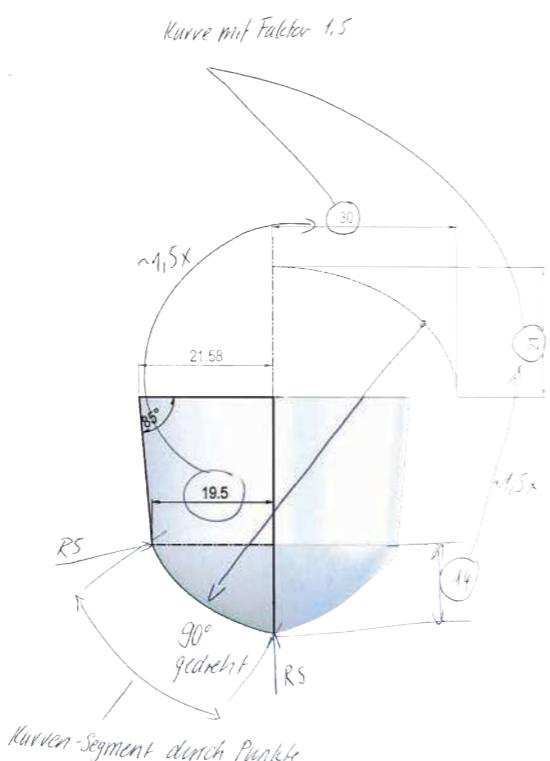
The perfect pad shape

Apart from the silicone that is used to make the pad, the shape is the decisive factor for optimal printing results. Nature provides the geometry to calculate the ideal pad shapes. The surface structures of the OrbiX printing pads are derived from shapes, similar to that of a parabola, which are often found in nature.

This unique combination of experience and inspiration from nature provides the basis of design for the perfect printing pad. With all printing pads of the OrbiX series this formula has been applied to the surface structure. The special pad surface design provides even pad compression during the ink transfer, which results in the visible improvement of print quality.

The results include:

- even pad pressure
- optimized unroll properties
- significant improvement in ink transfer
- improved print accuracy



green
44 Shore 00



MaxX
50 Shore 00
62 Shore 00
68 Shore 00



StarX
39 Shore 00
44 Shore 00
54 Shore 00
64 Shore 00



red
54 Shore 00



Long-Life
44 Shore 00
54 Shore 00

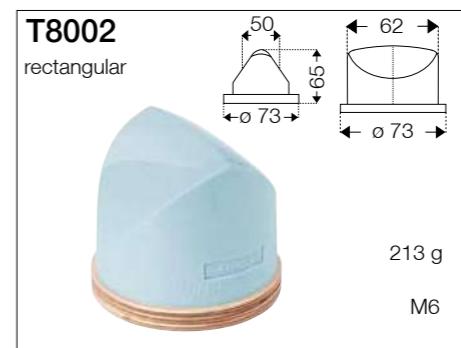


BriX
54-58 Shore 00
54-68 Shore 00

OrbiX - shapes



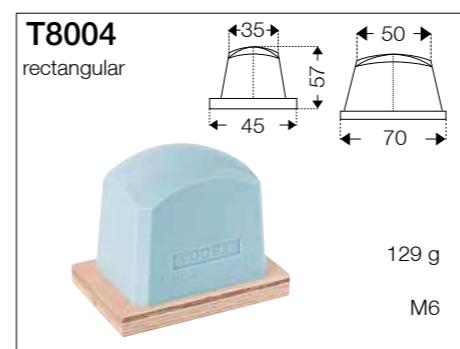
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round



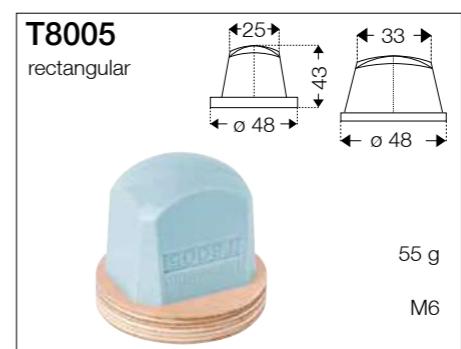
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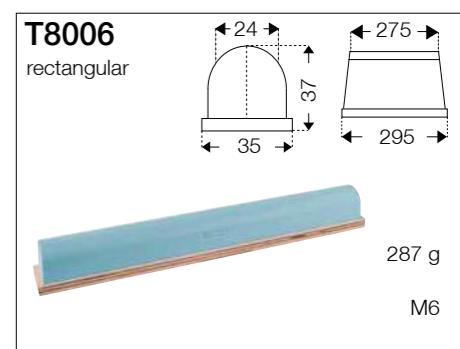
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round



T8004
rectangular



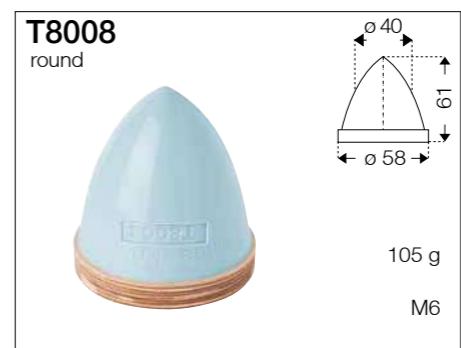
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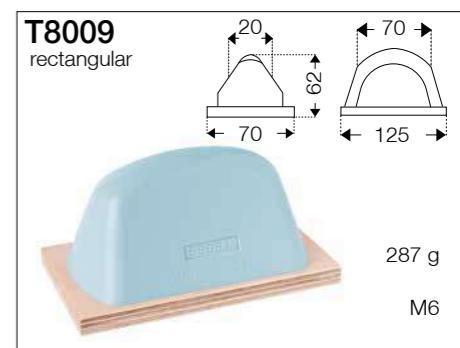
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rectangular



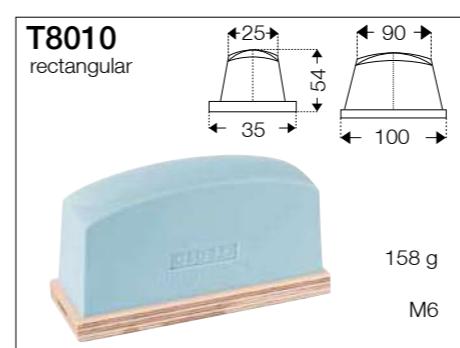
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round



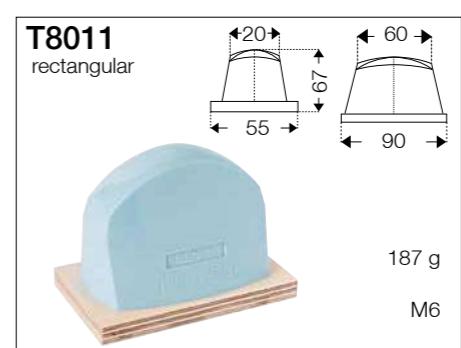
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round



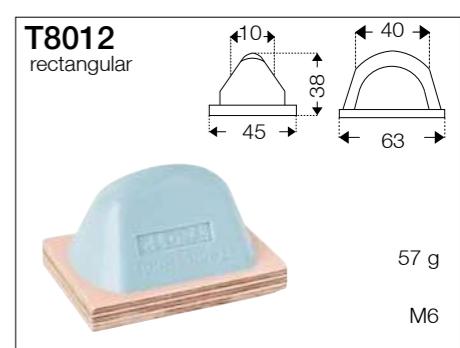
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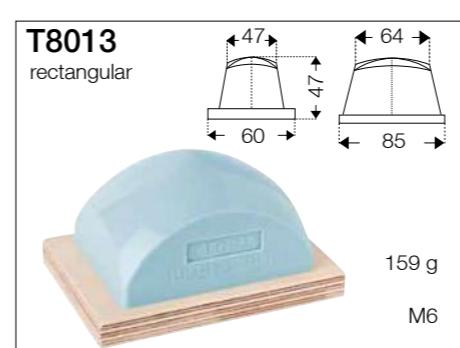
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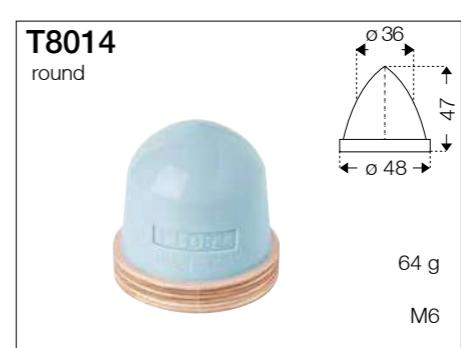
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rectangular



T8012
rectangular



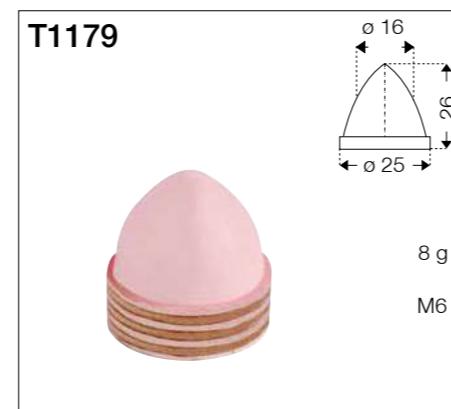
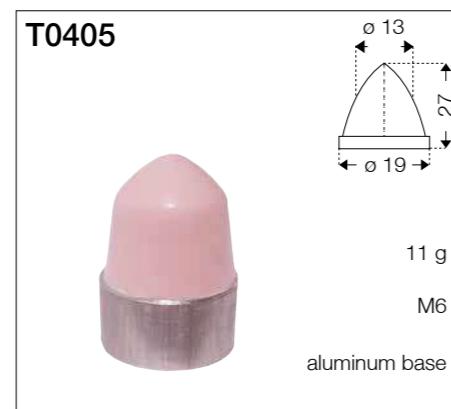
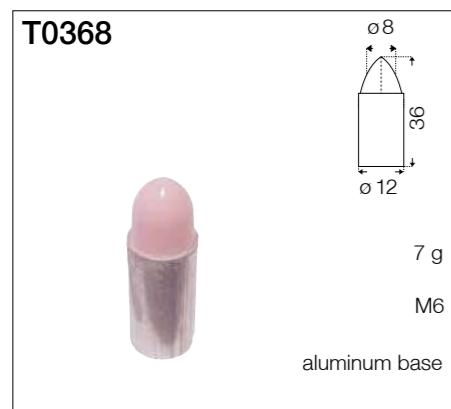
T8013
rectangular



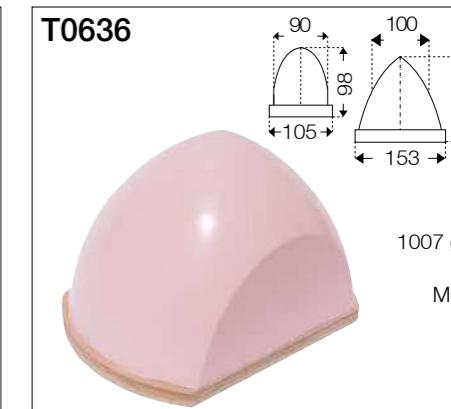
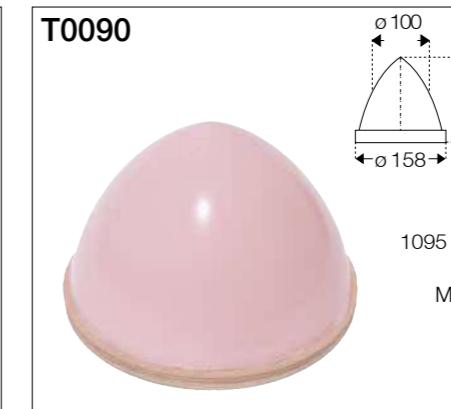
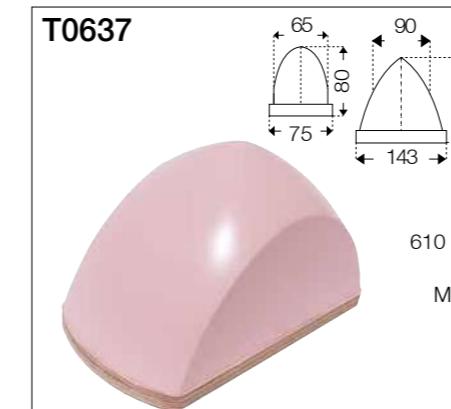
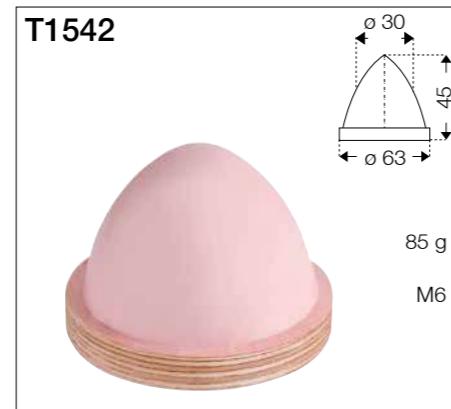
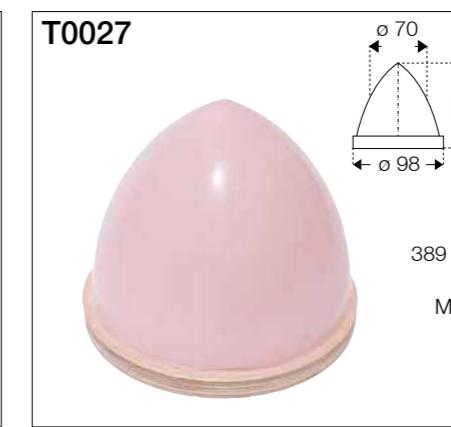
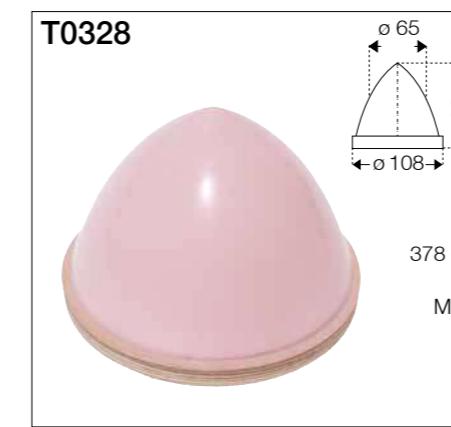
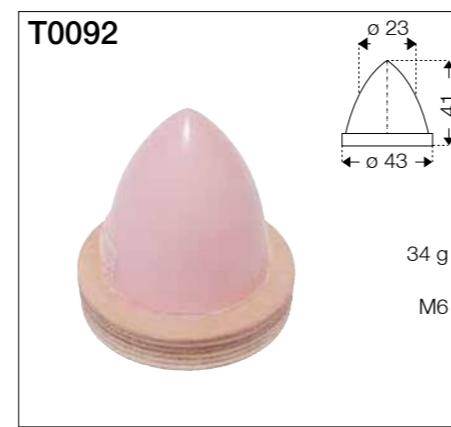
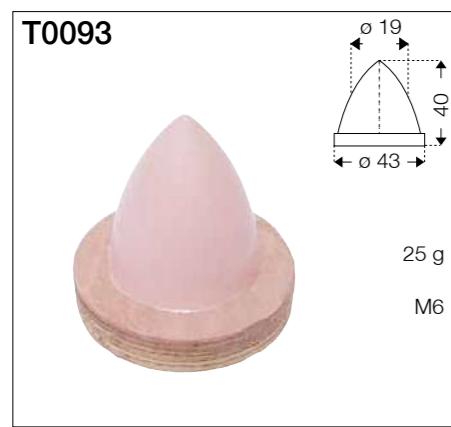
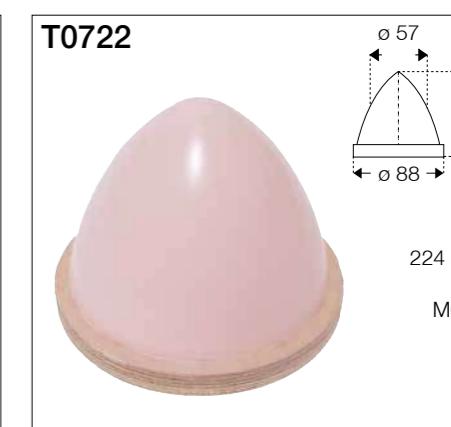
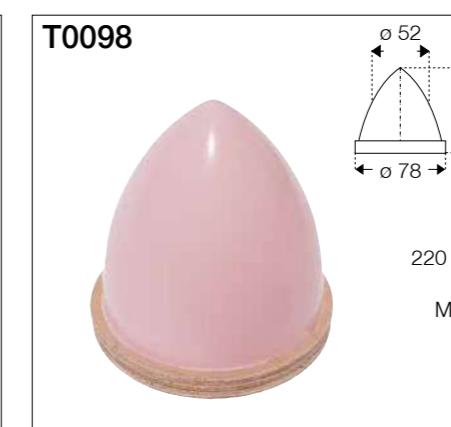
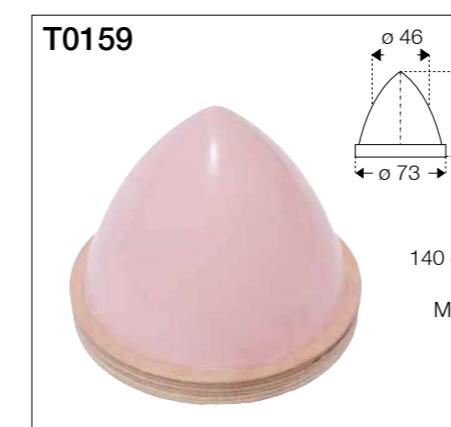
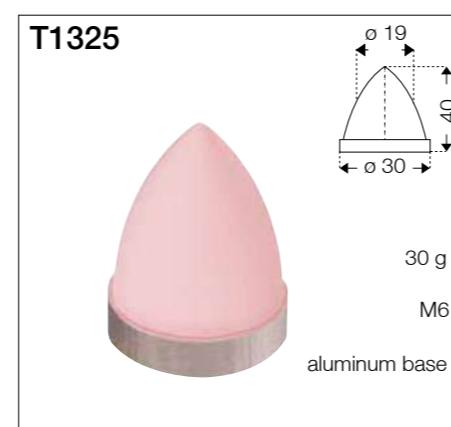
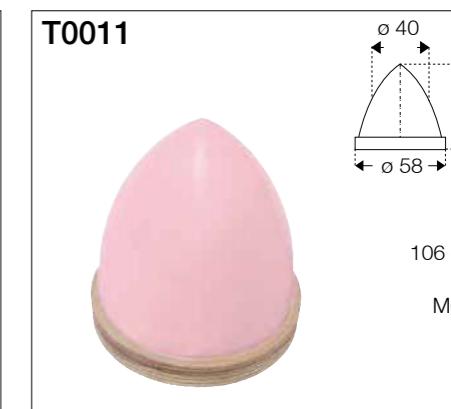
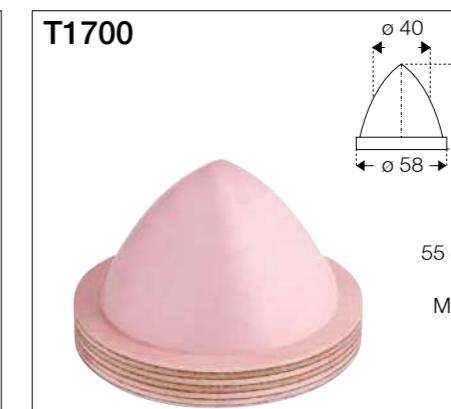
T8014
round

The print surfaces of these pads can be found in a separate brochure.

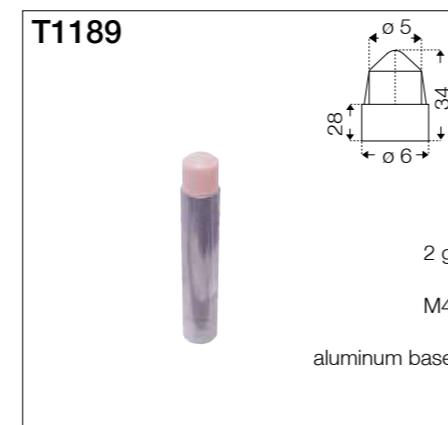
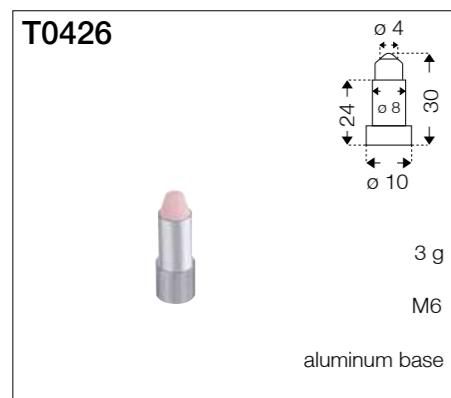
ROUND conical



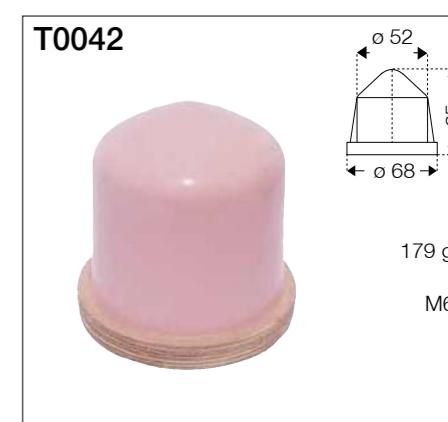
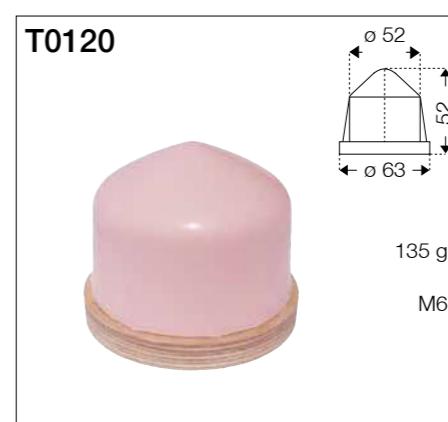
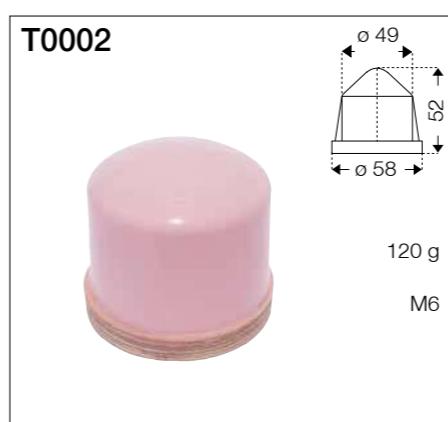
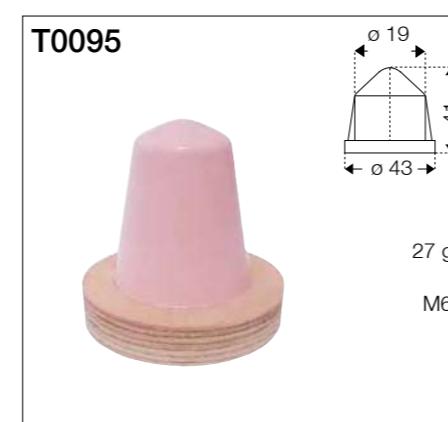
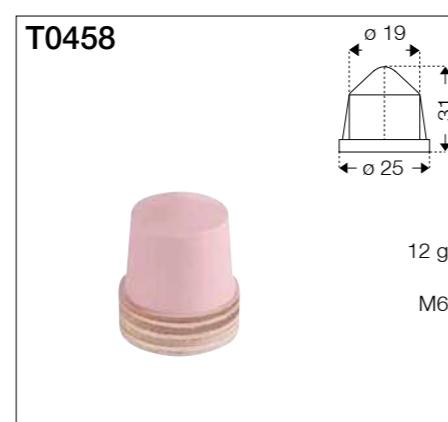
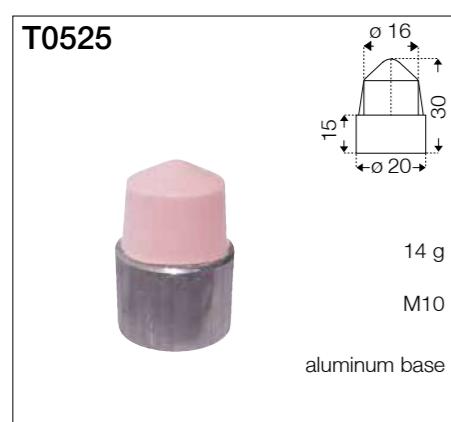
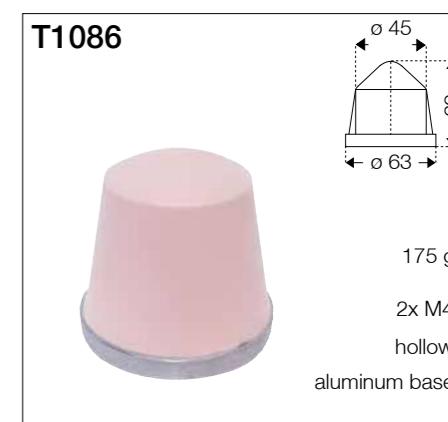
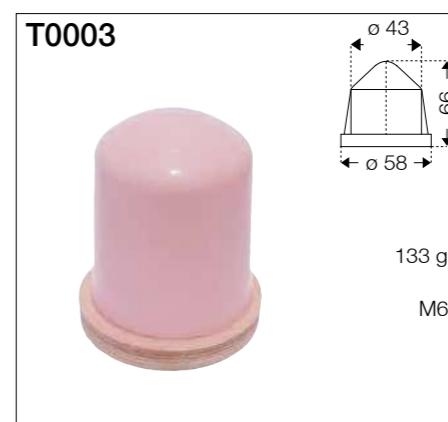
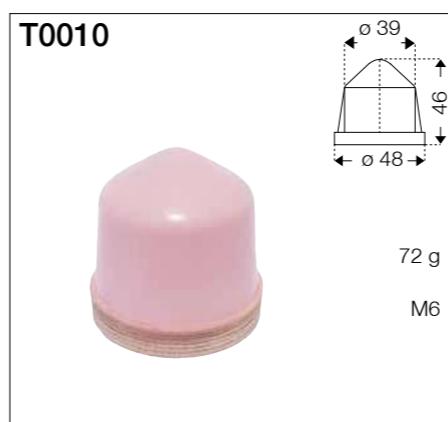
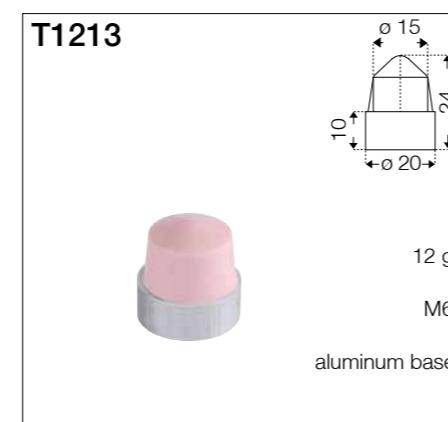
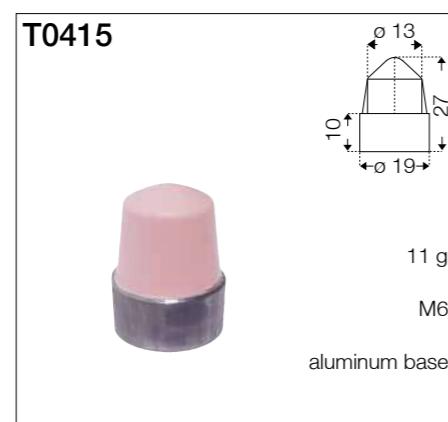
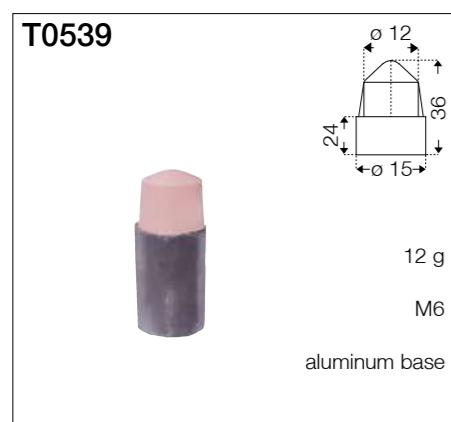
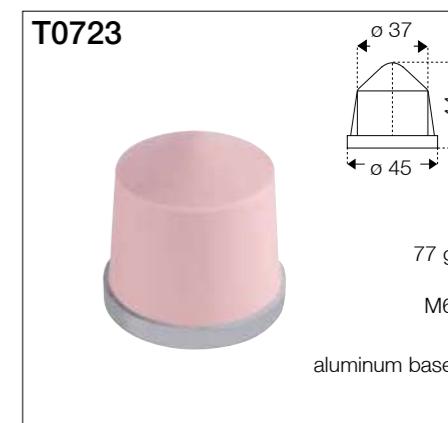
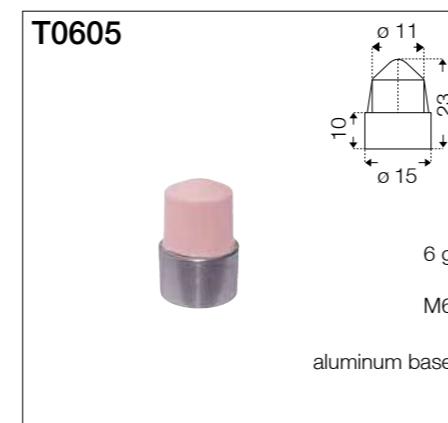
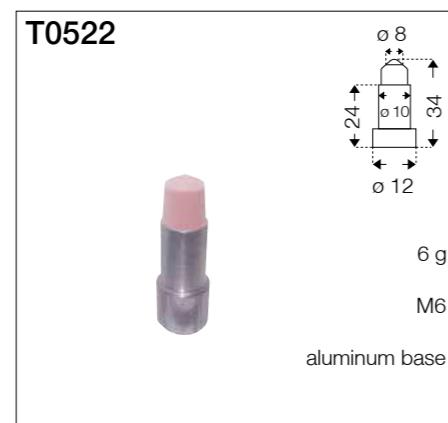
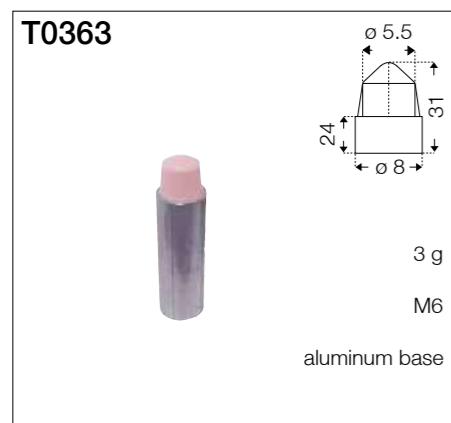
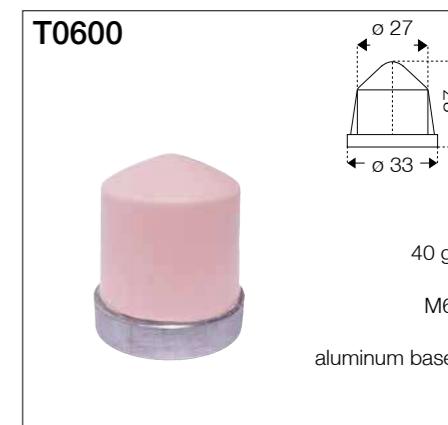
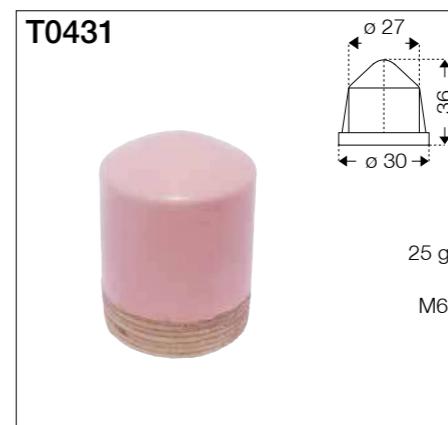
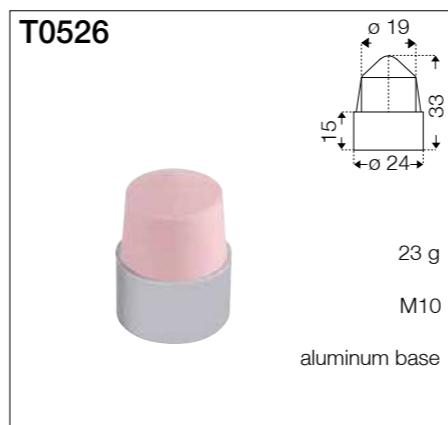
ROUND conical



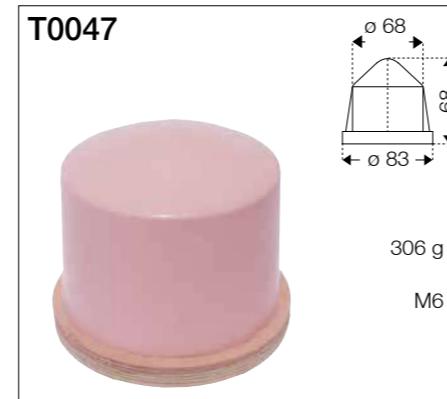
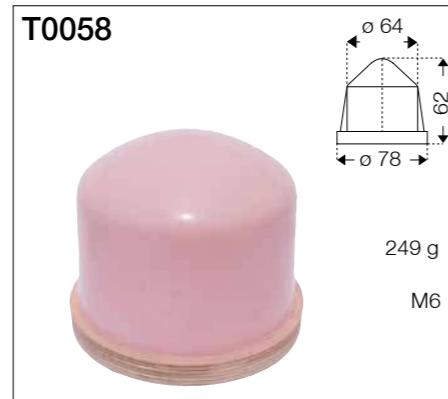
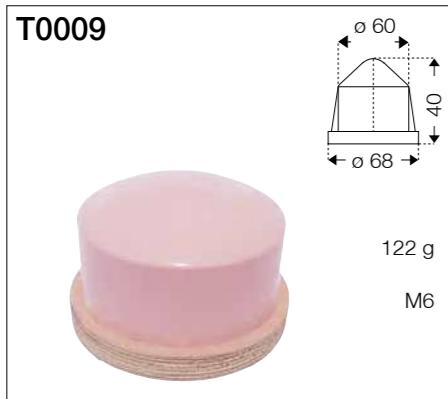
ROUND cylindrical with conical print surface



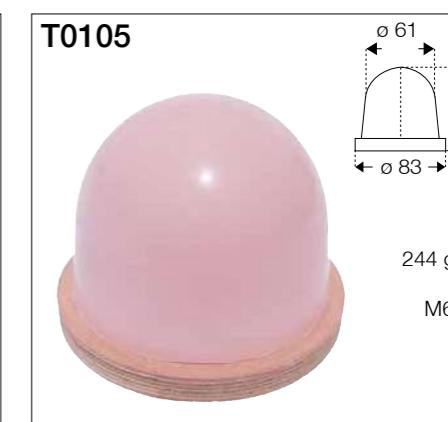
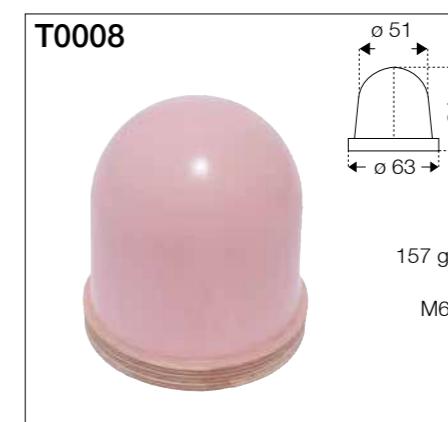
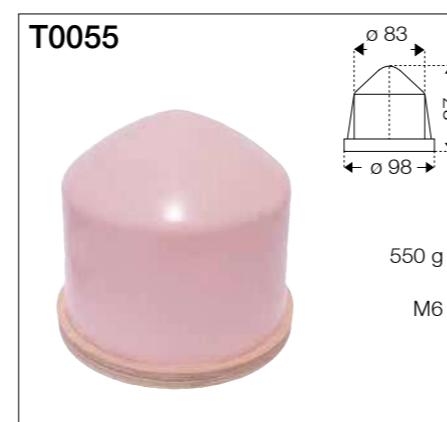
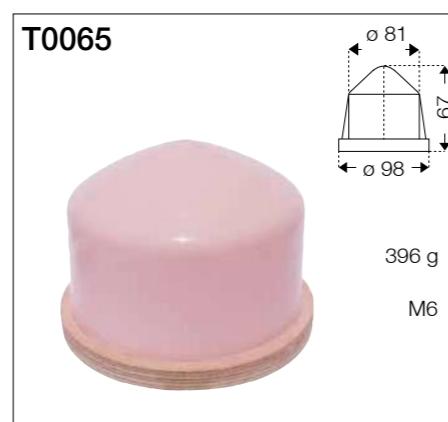
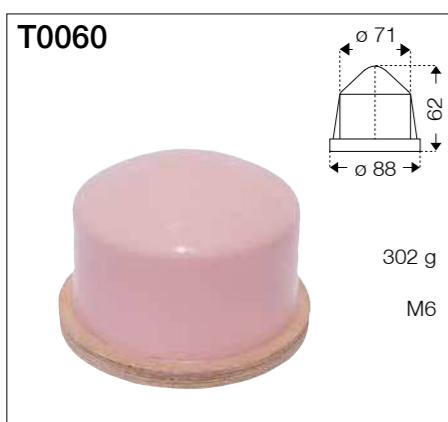
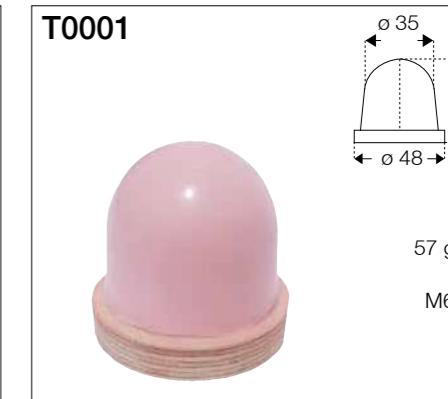
ROUND cylindrical with conical print surface



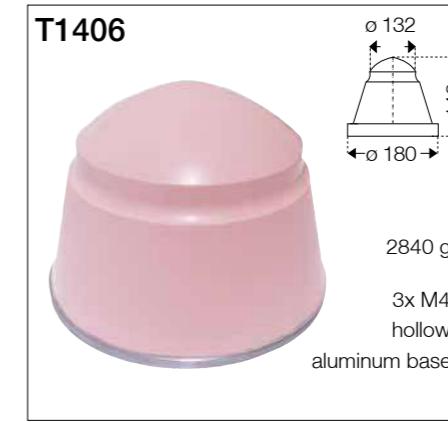
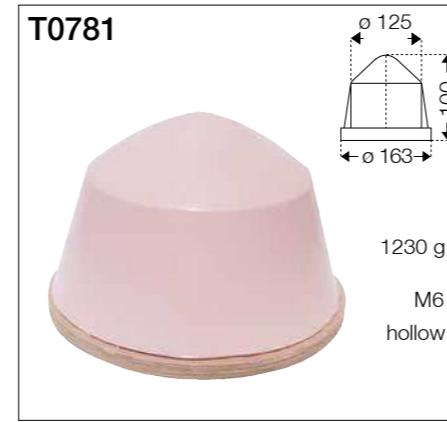
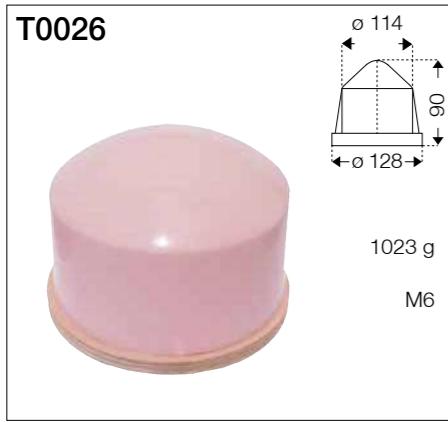
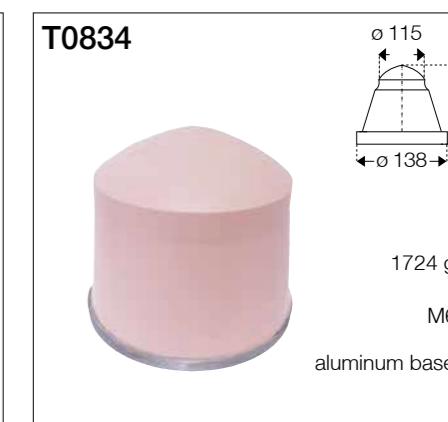
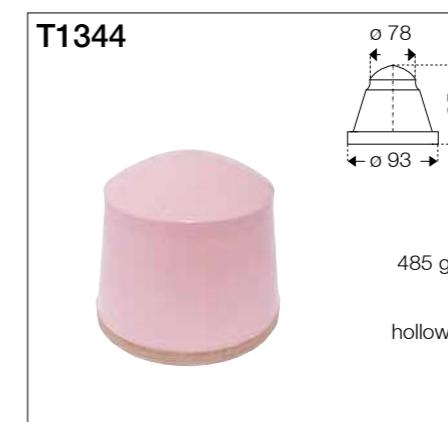
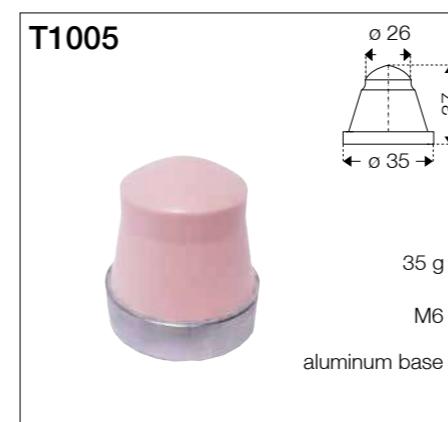
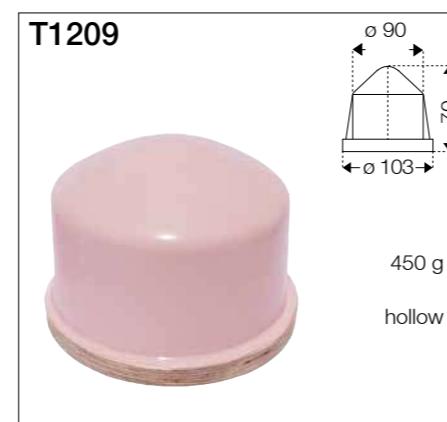
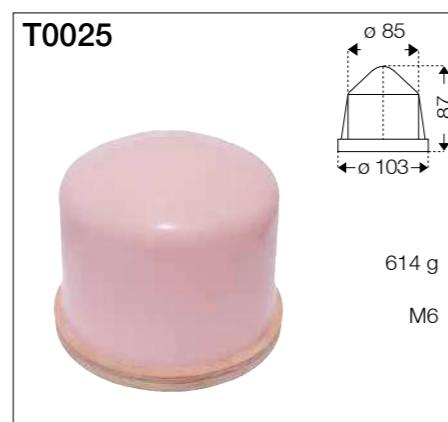
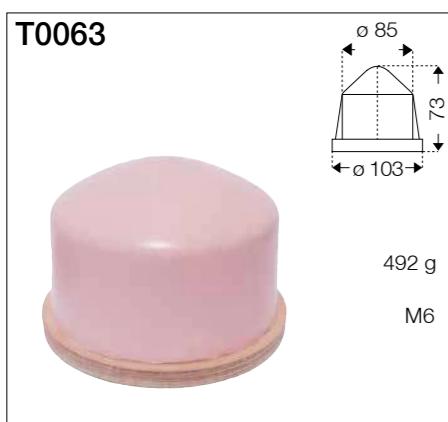
ROUND cylindrical with conical print surface



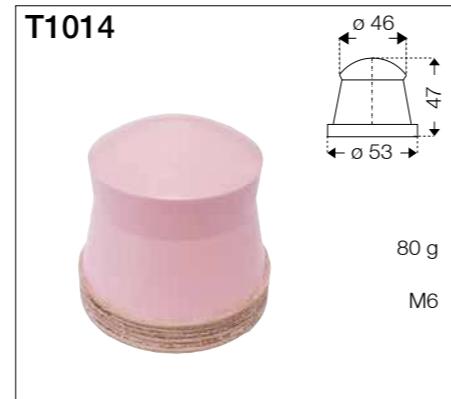
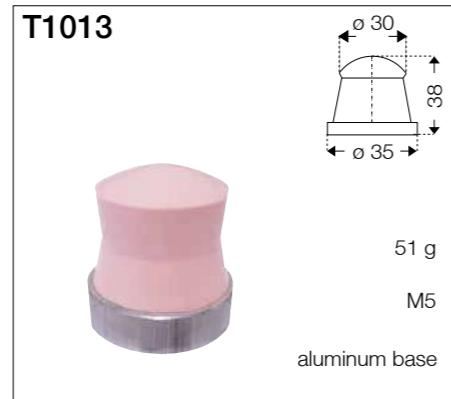
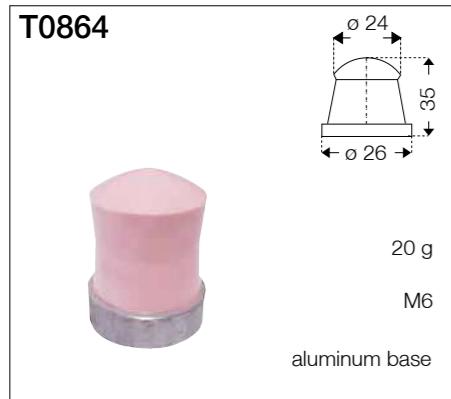
ROUND spherical



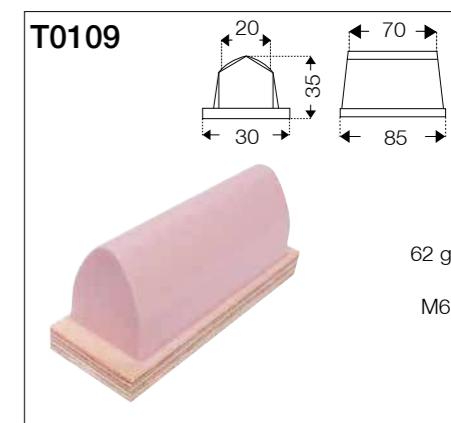
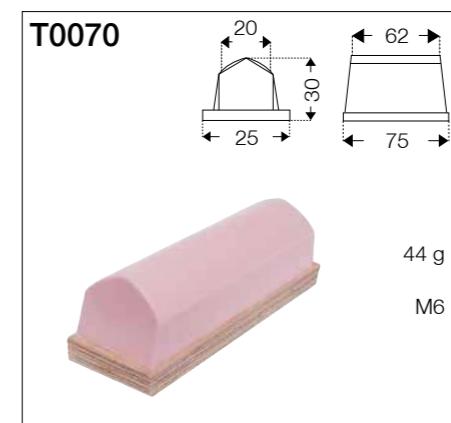
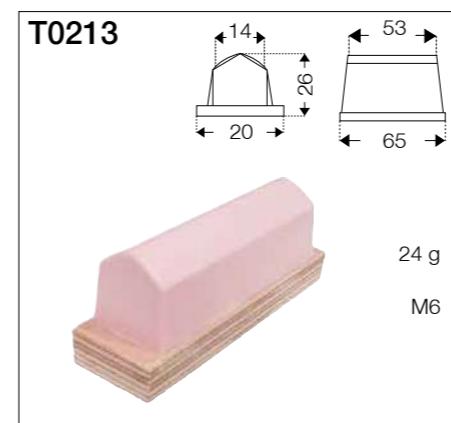
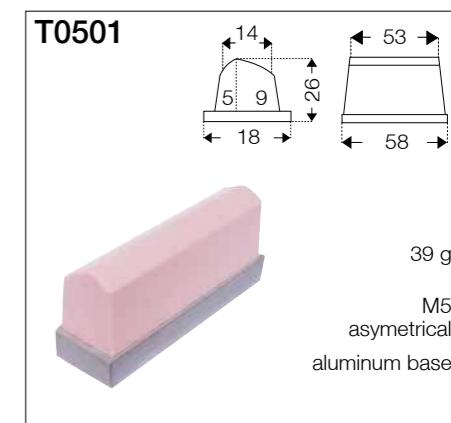
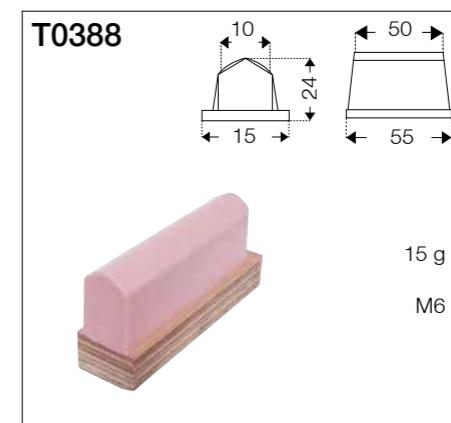
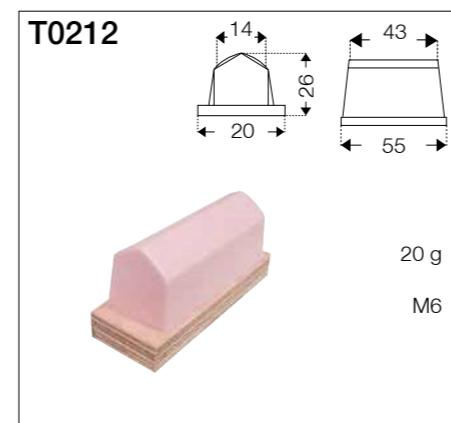
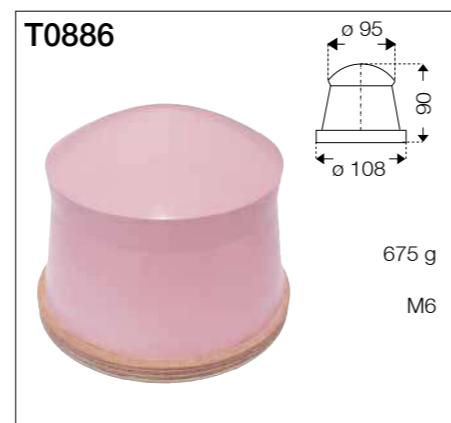
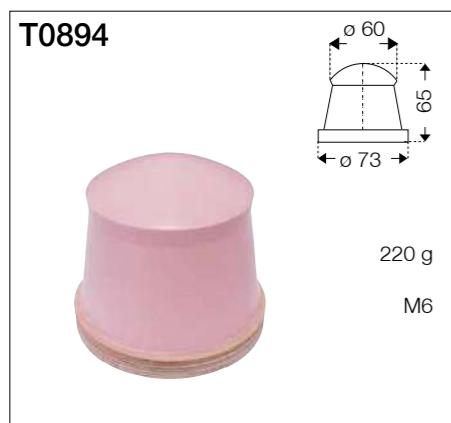
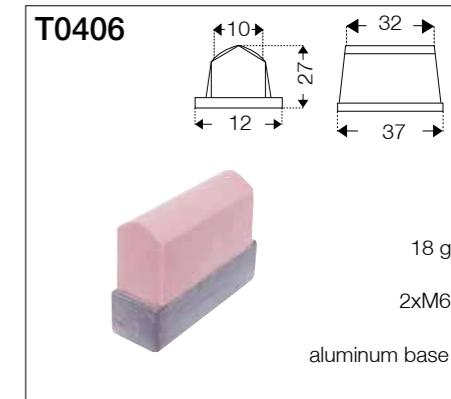
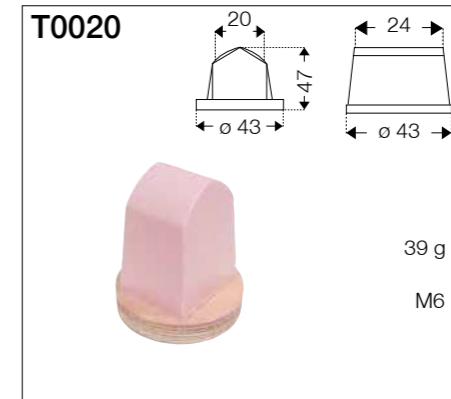
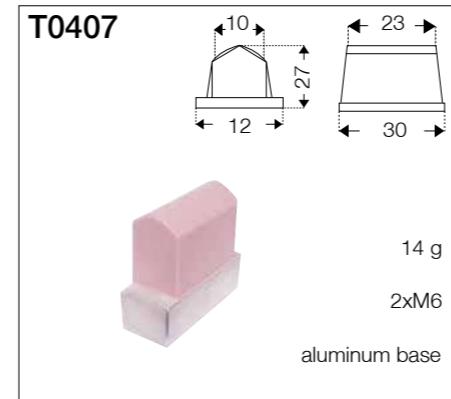
ROUND with a lip



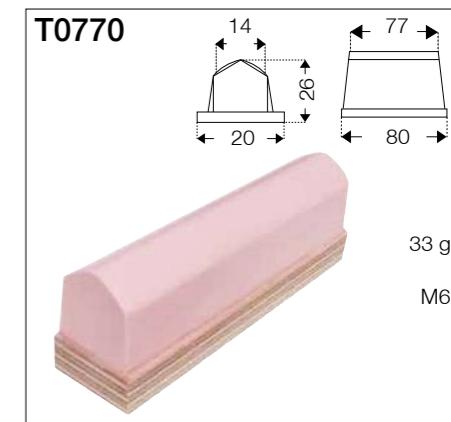
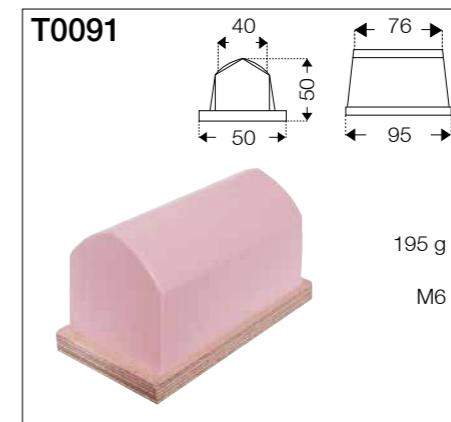
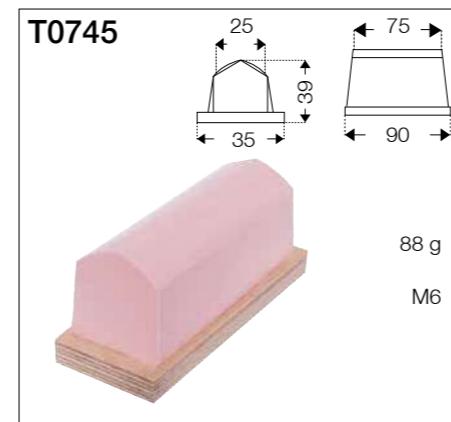
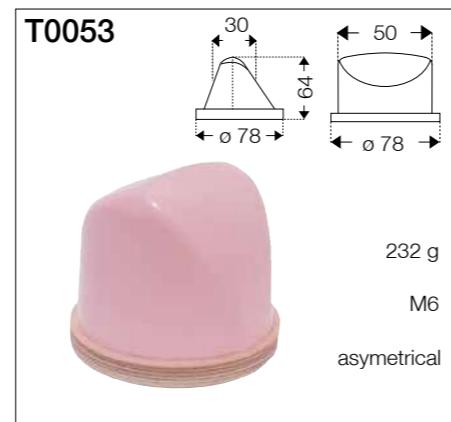
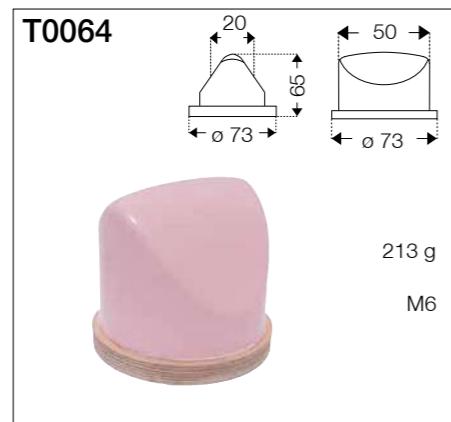
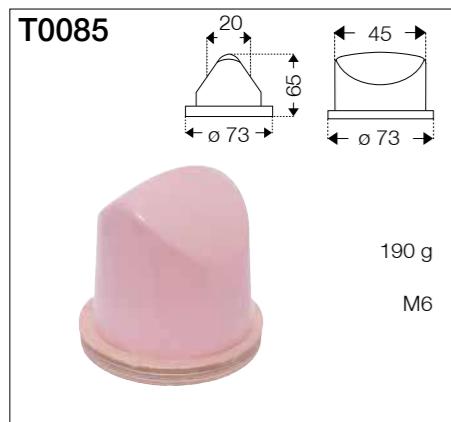
ROUND with a waist



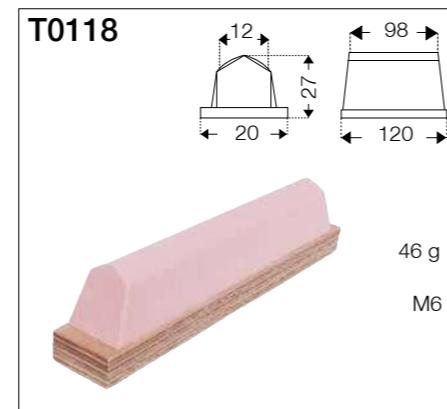
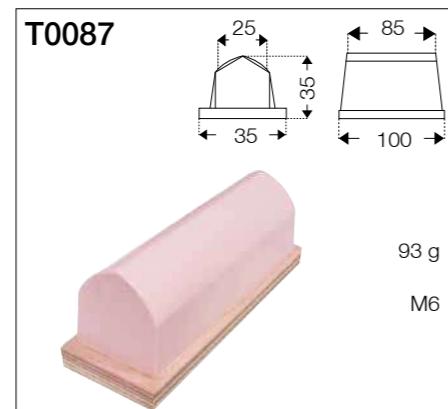
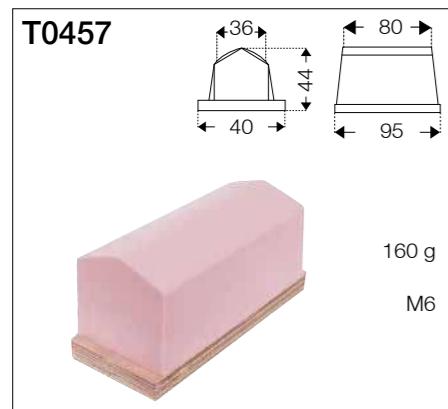
RECTANGULAR roofed



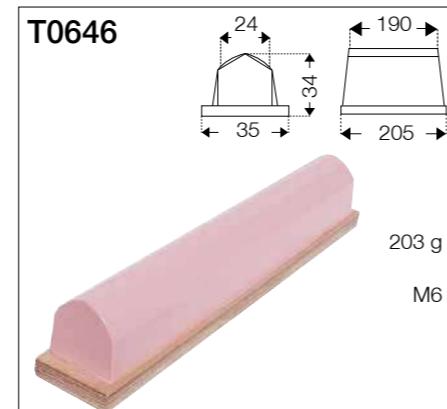
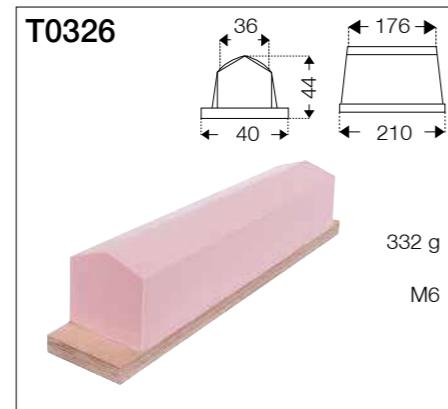
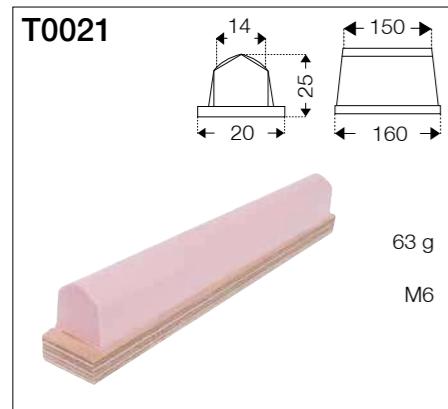
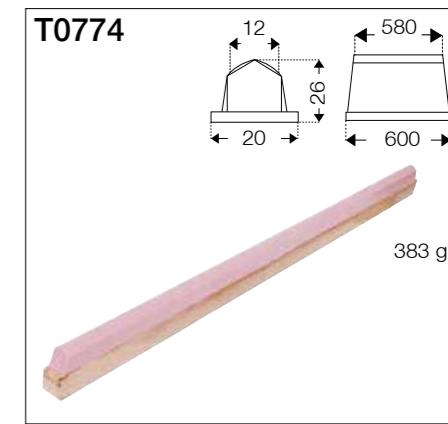
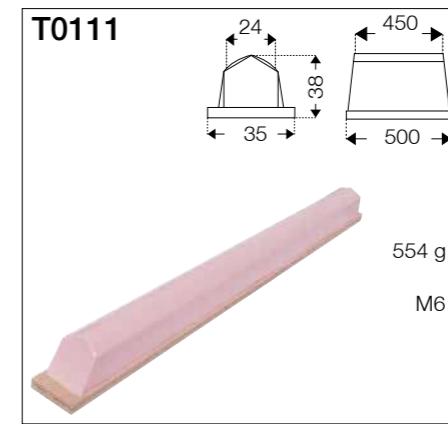
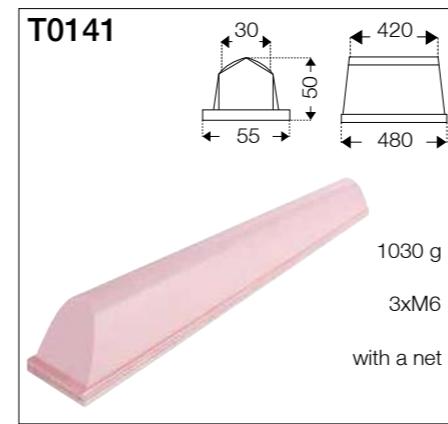
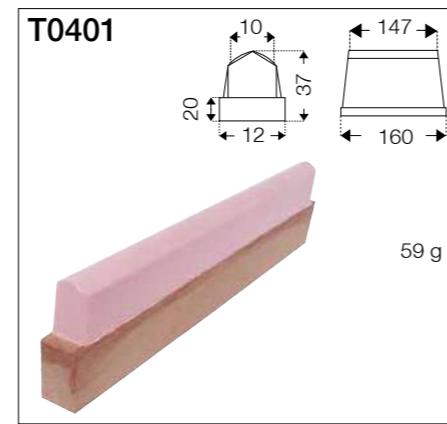
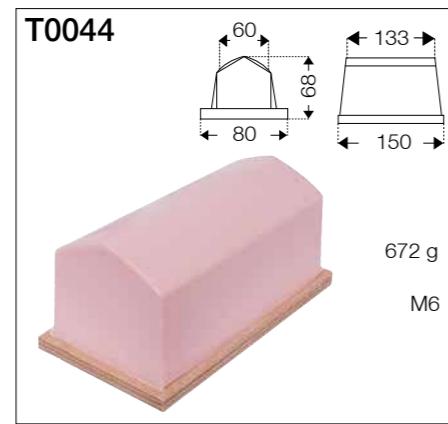
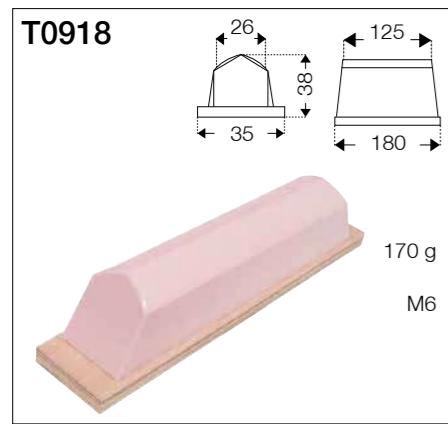
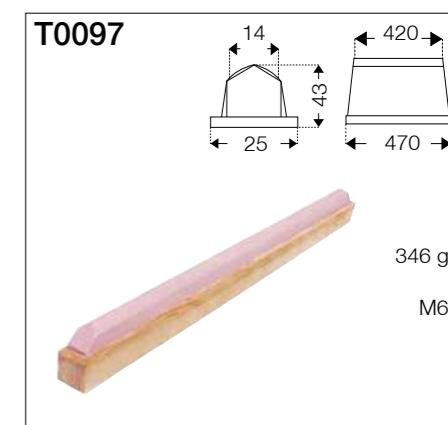
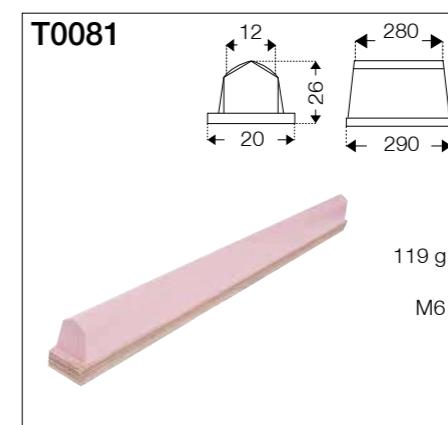
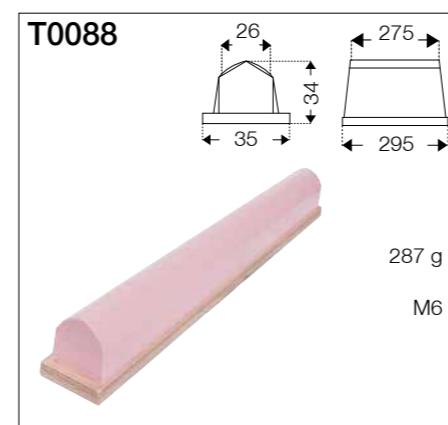
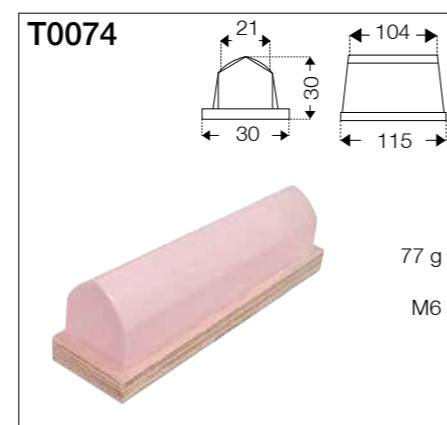
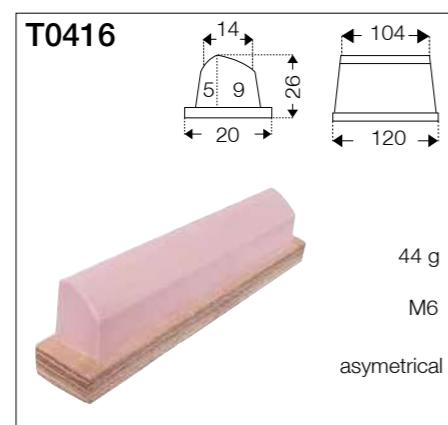
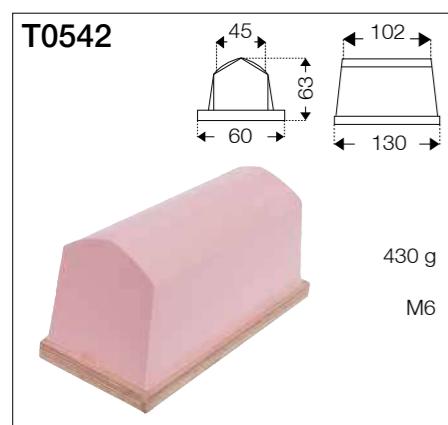
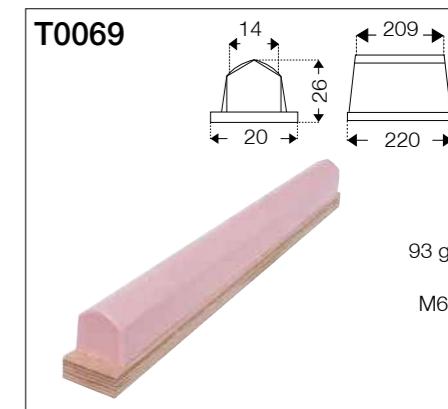
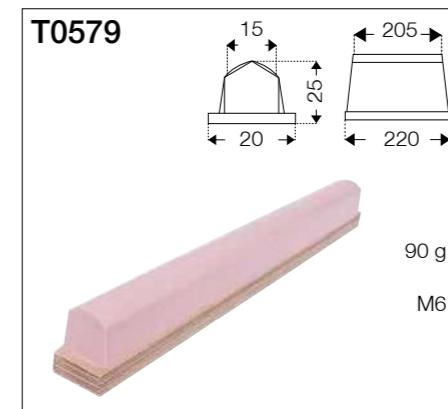
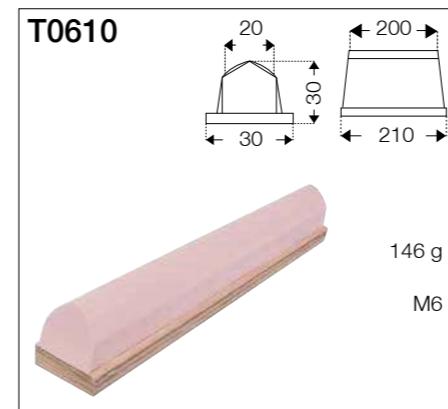
RECTANGULAR saddle



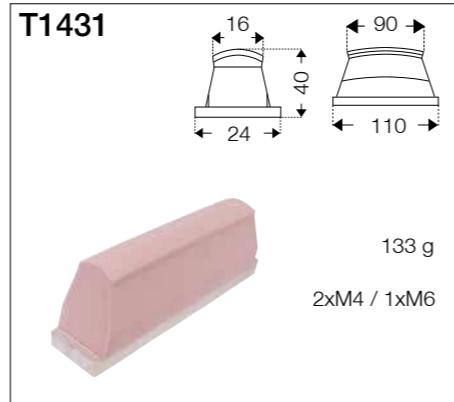
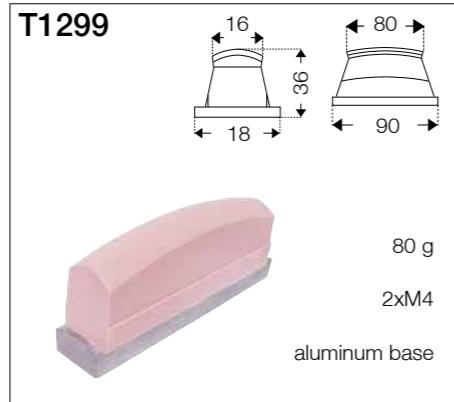
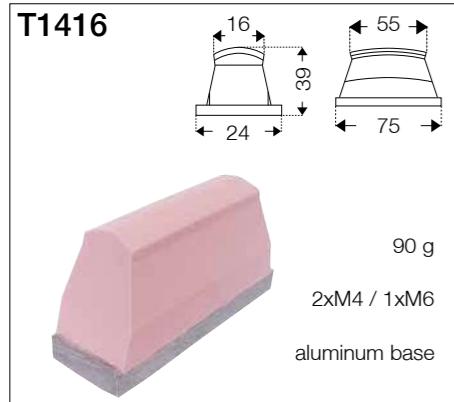
RECTANGULAR roofed



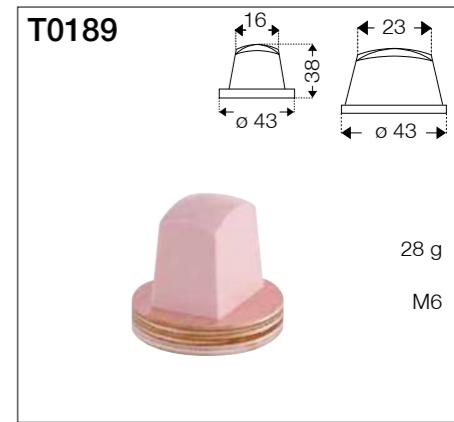
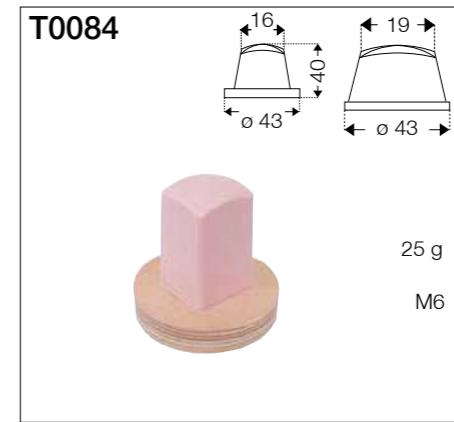
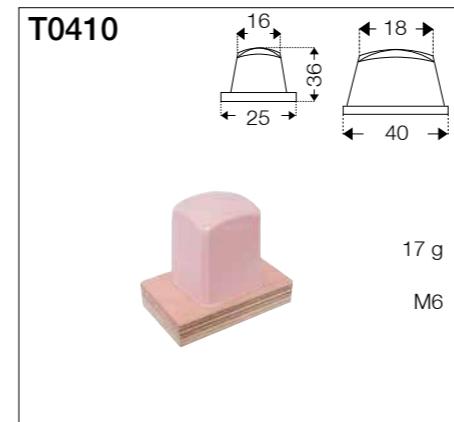
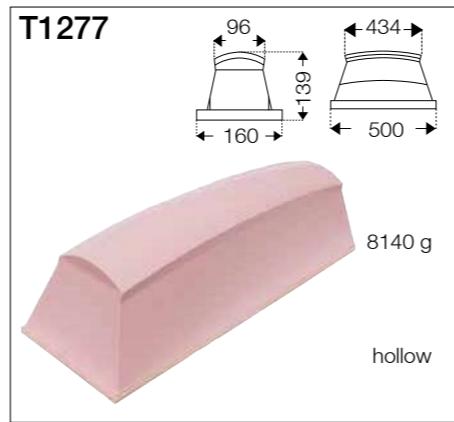
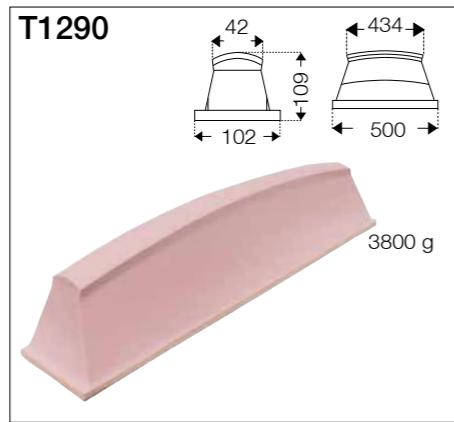
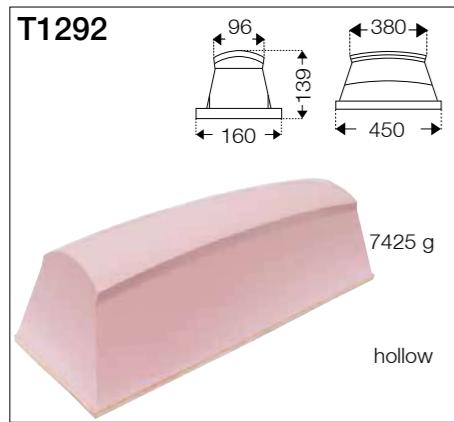
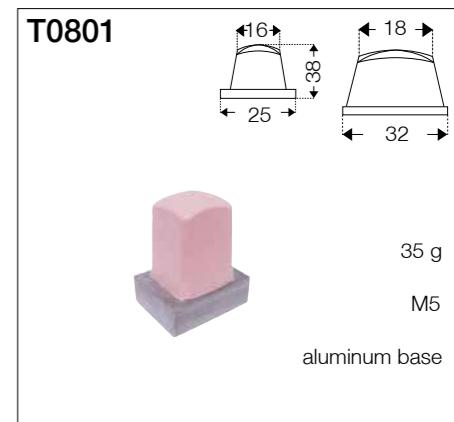
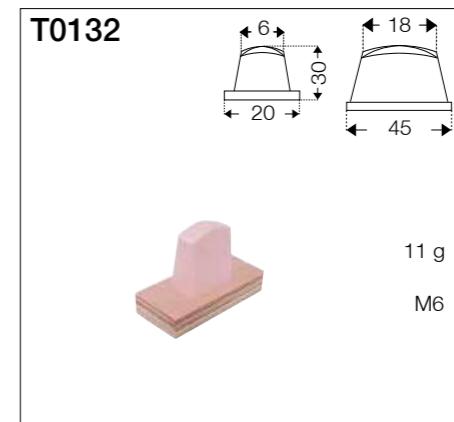
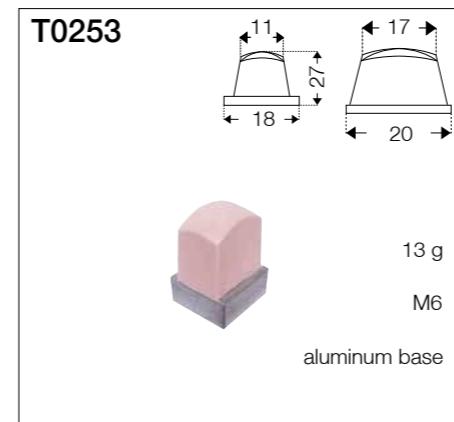
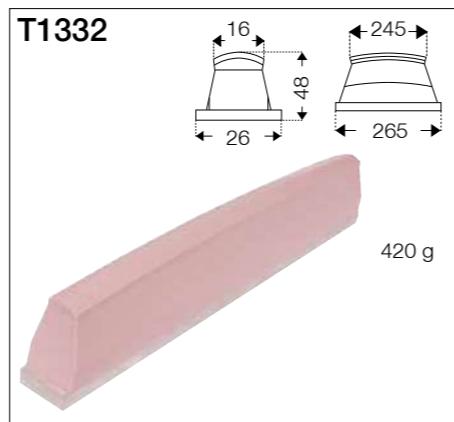
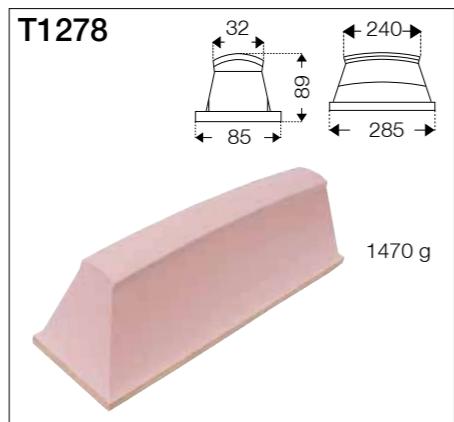
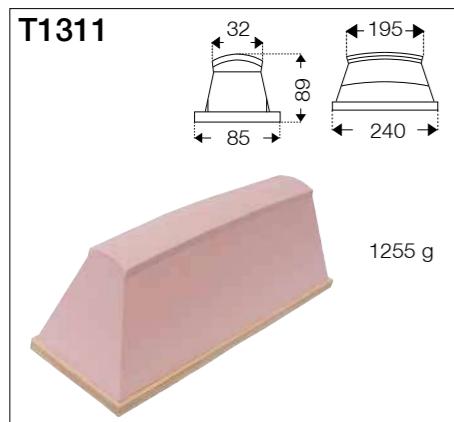
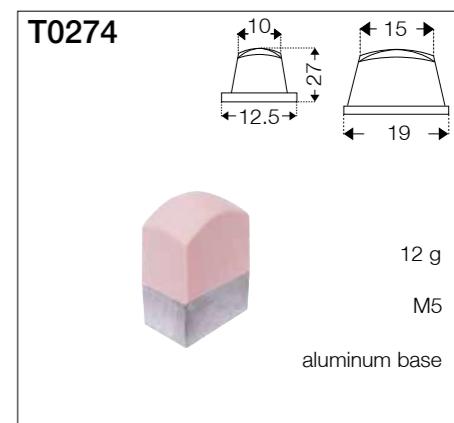
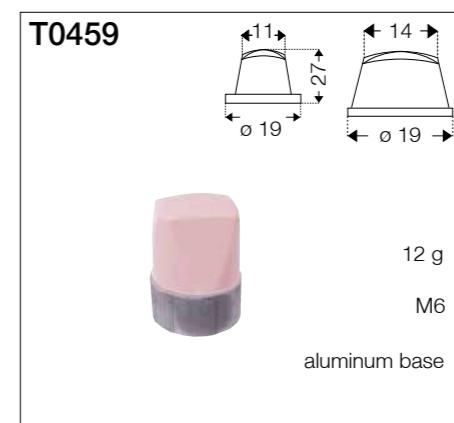
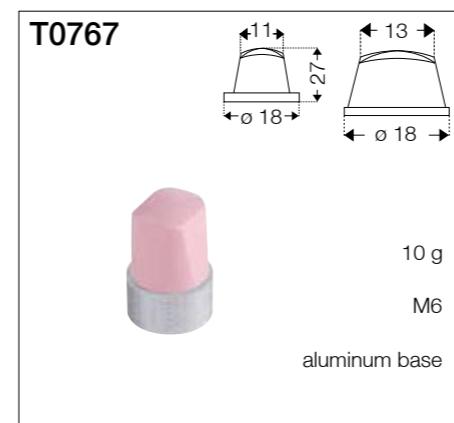
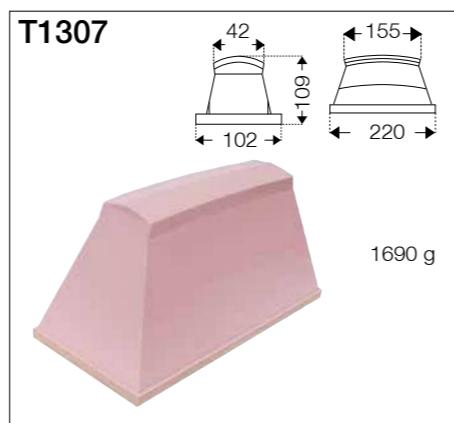
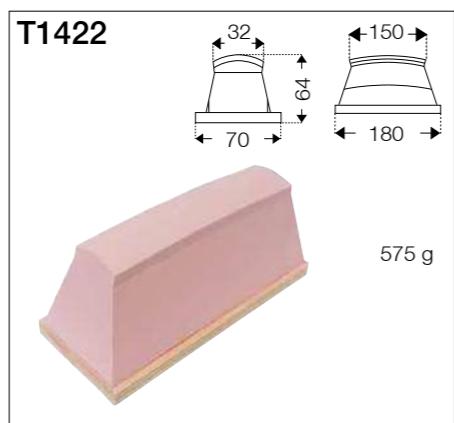
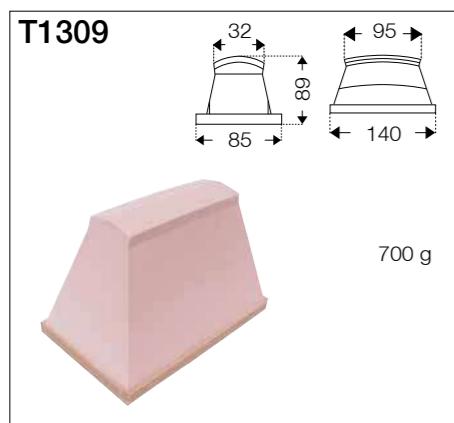
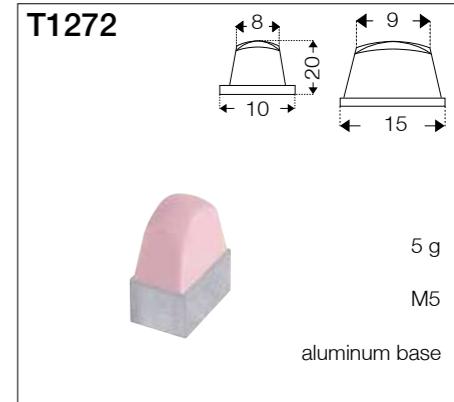
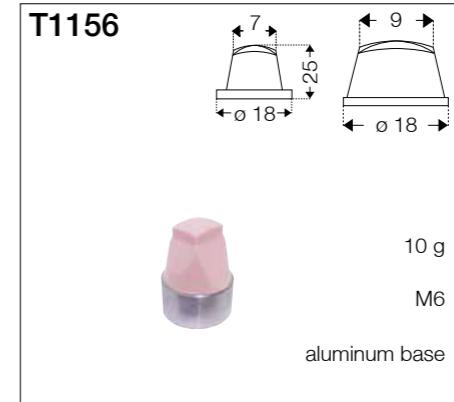
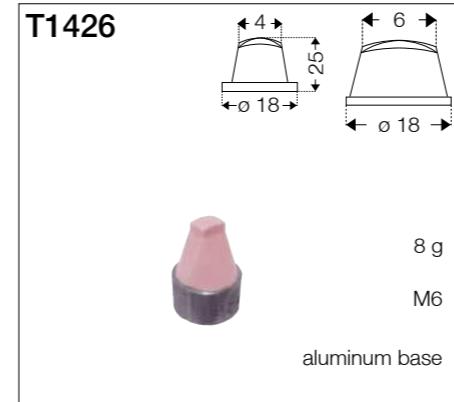
RECTANGULAR roofed



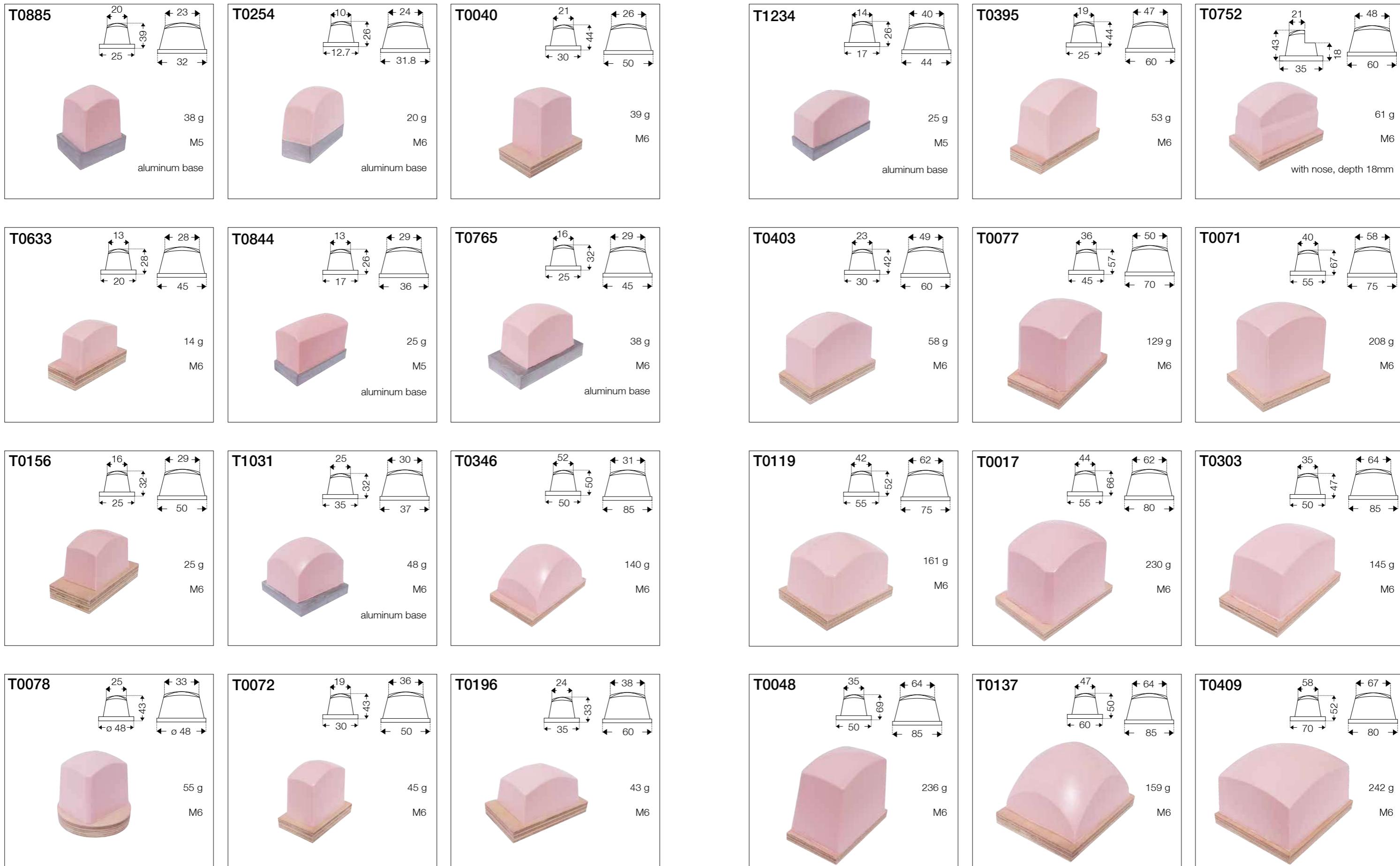
RECTANGULAR curved roof ridge



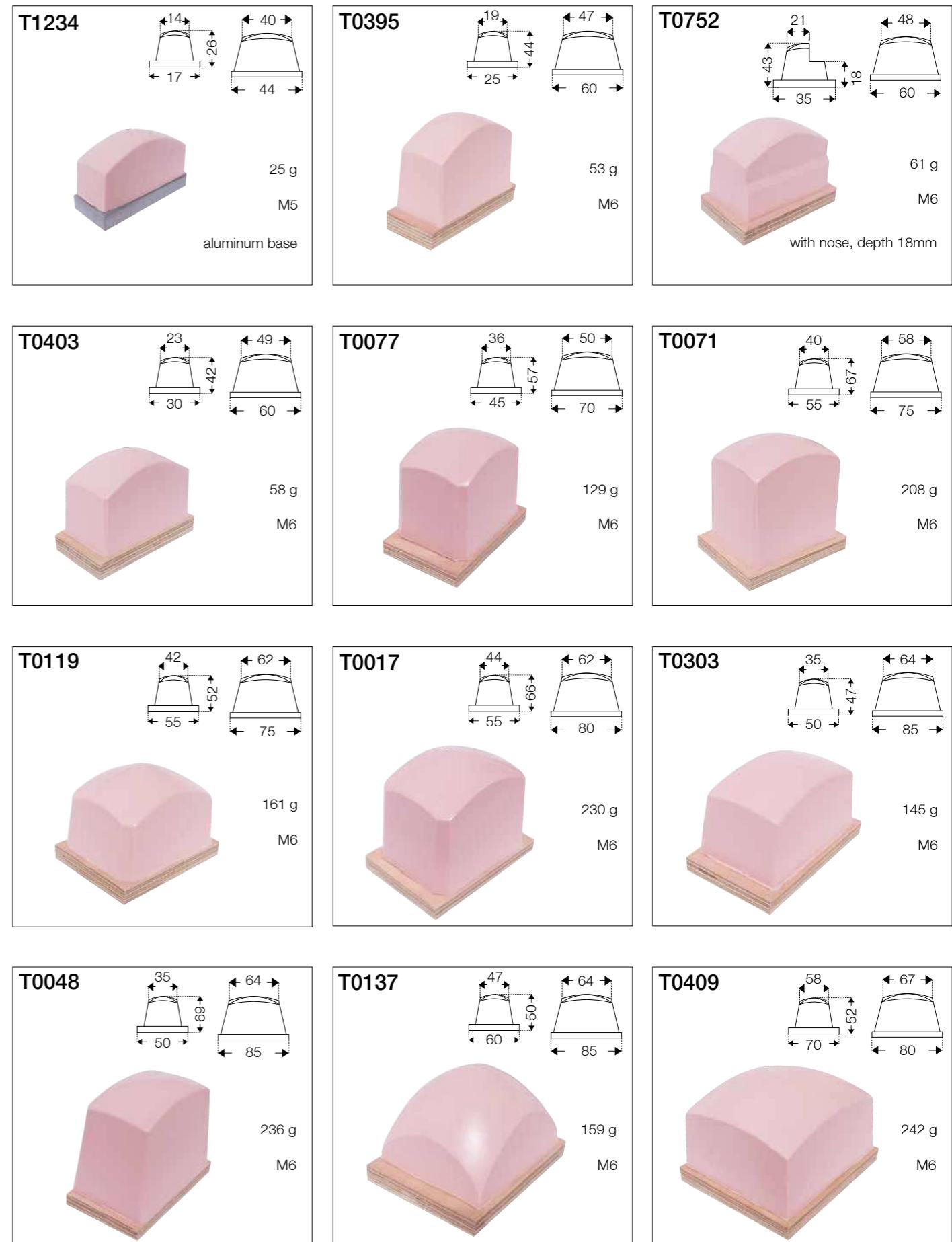
RECTANGULAR standard



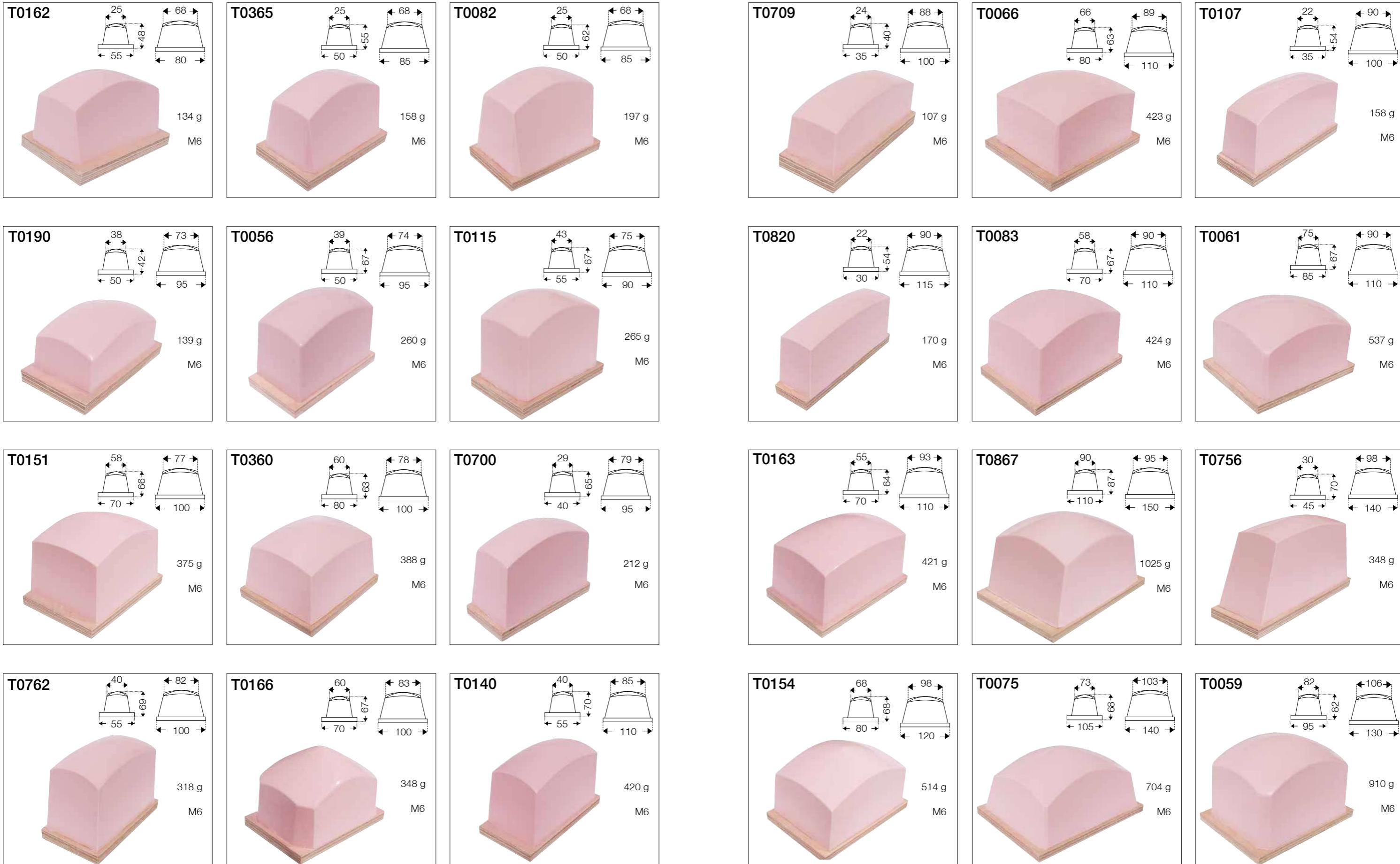
RECTANGULAR standard



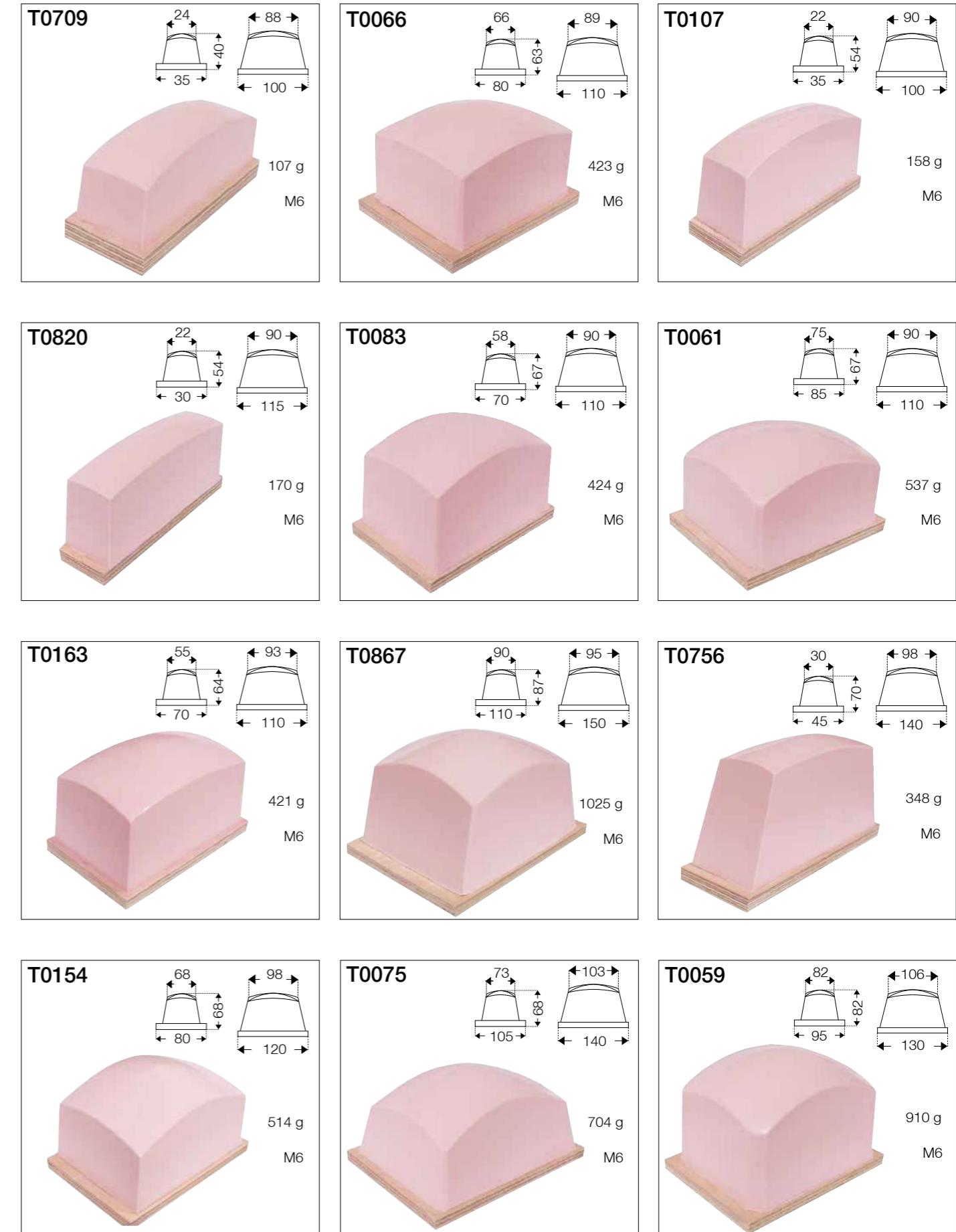
RECTANGULAR standard



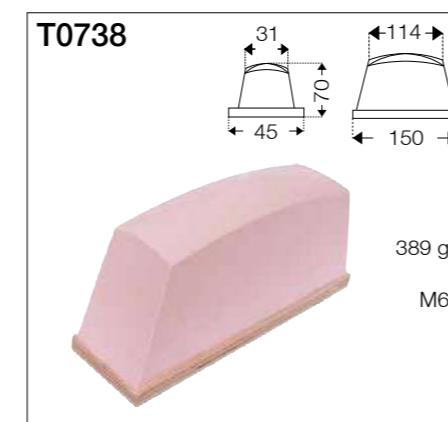
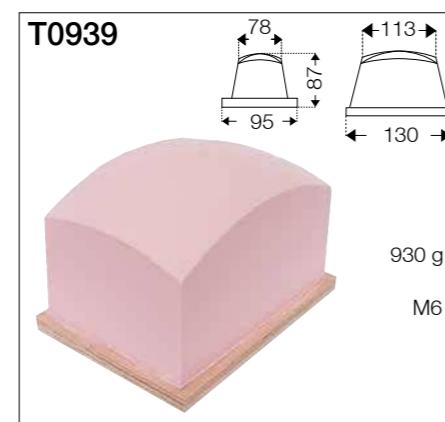
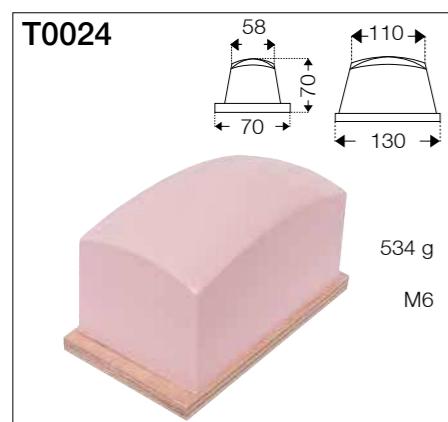
RECTANGULAR standard



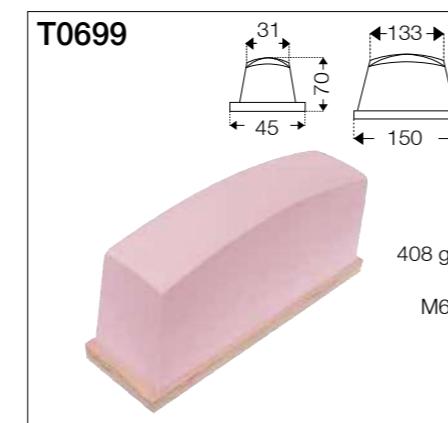
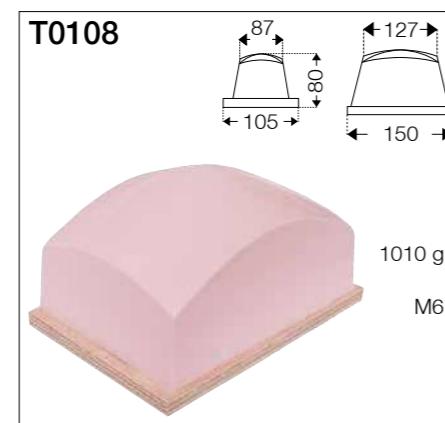
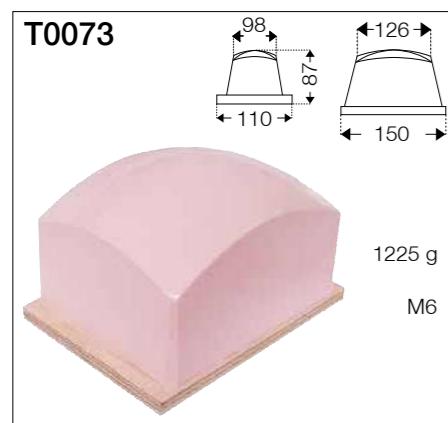
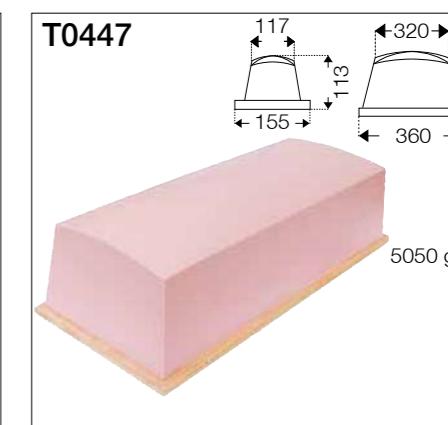
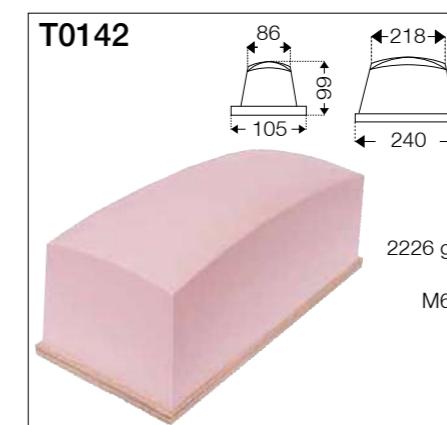
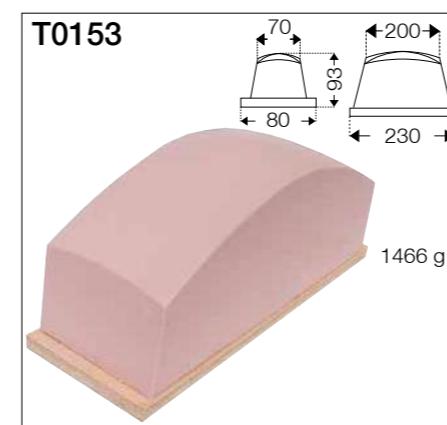
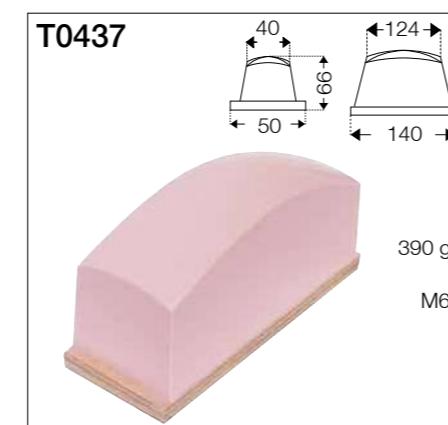
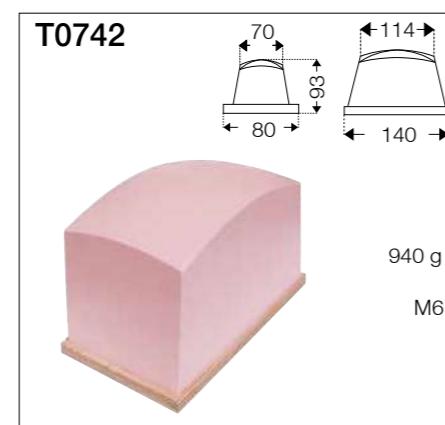
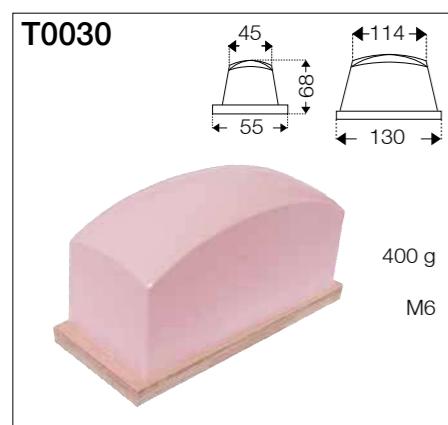
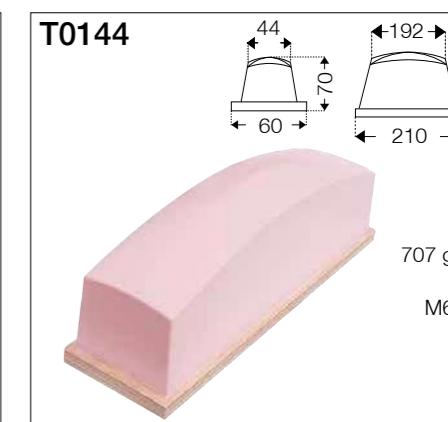
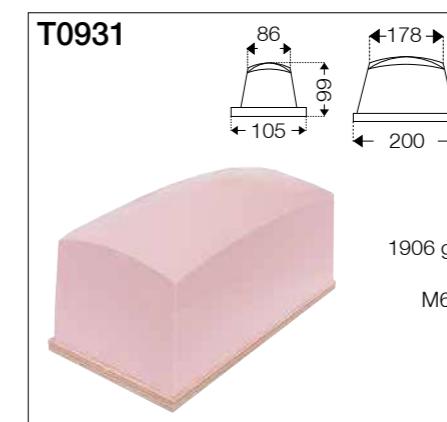
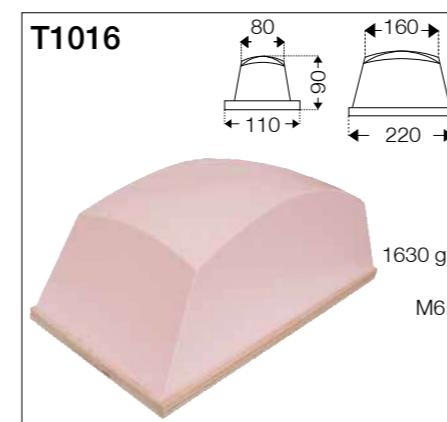
RECTANGULAR standard



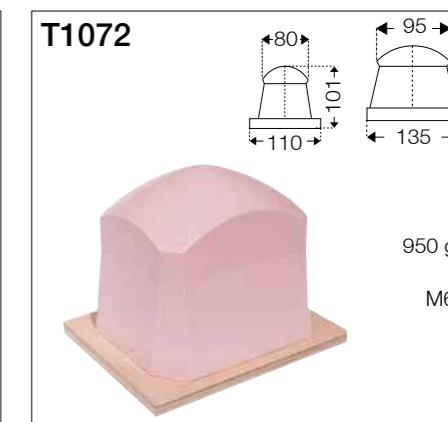
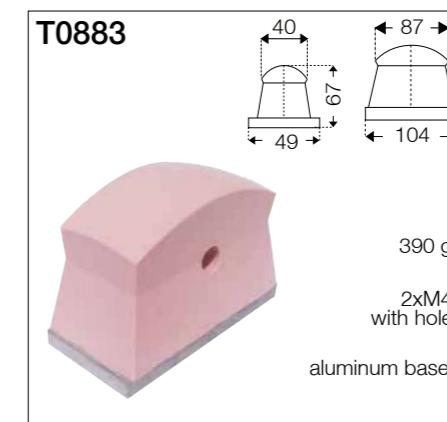
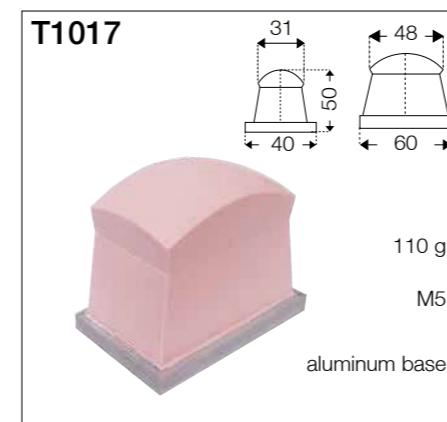
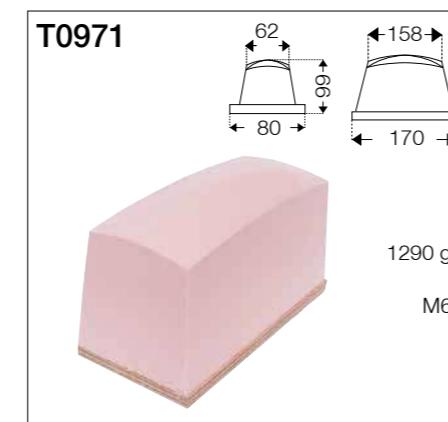
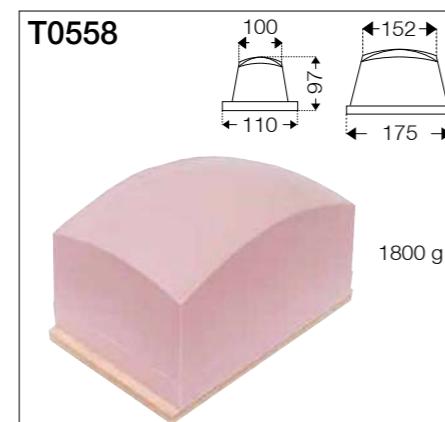
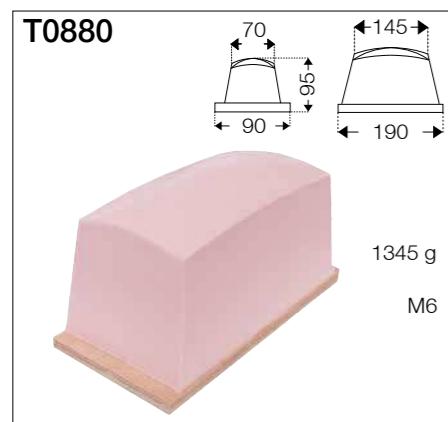
RECTANGULAR standard



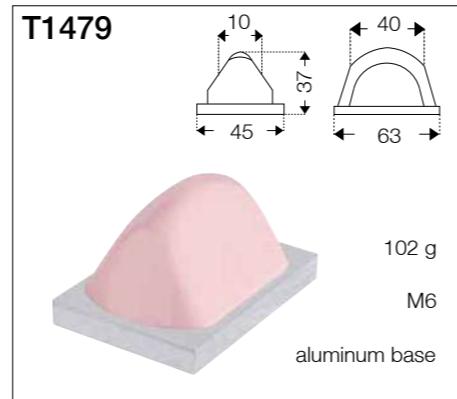
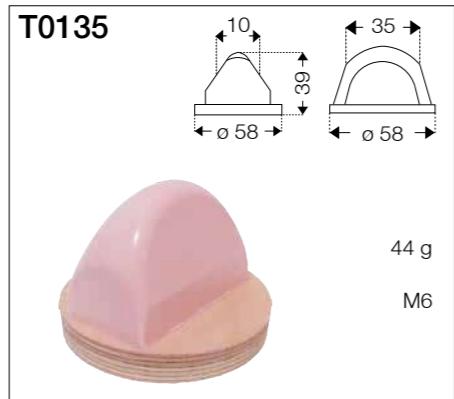
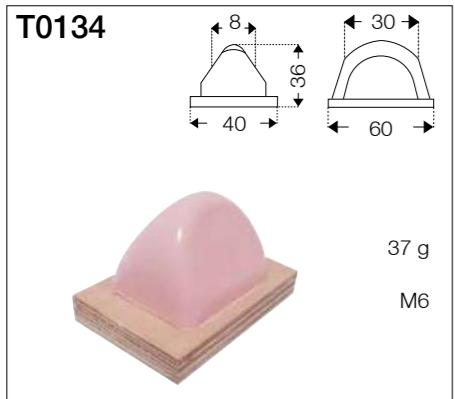
RECTANGULAR standard



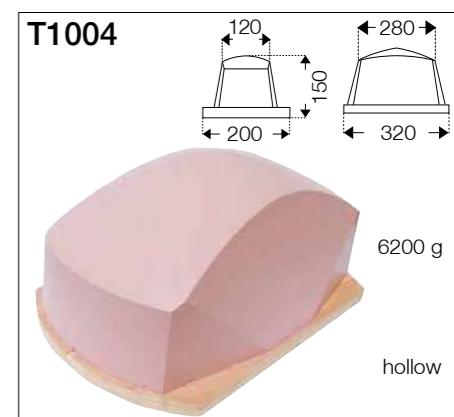
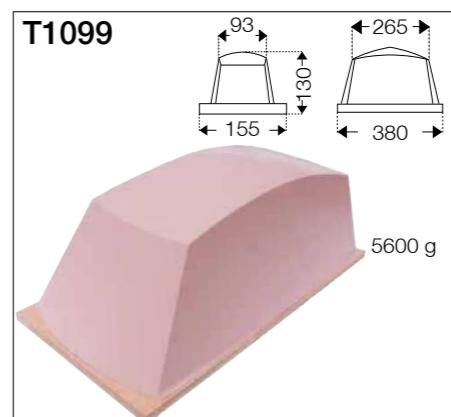
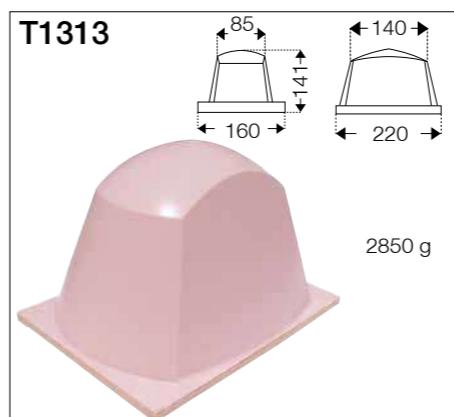
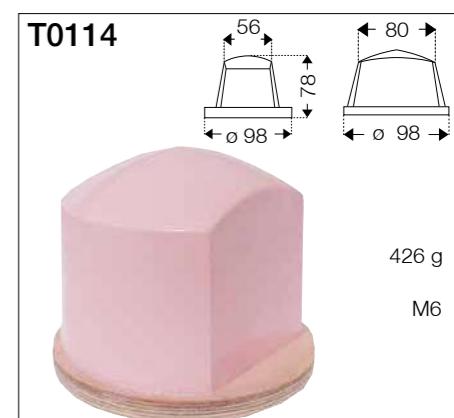
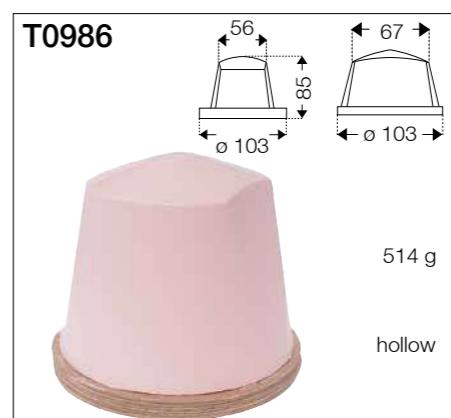
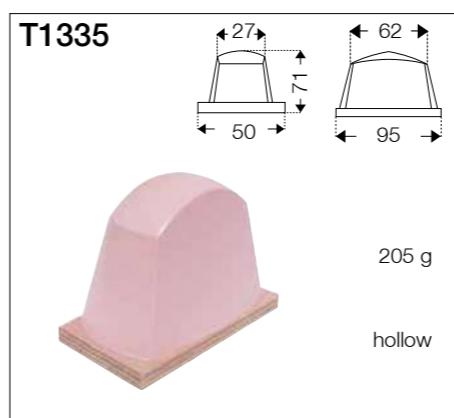
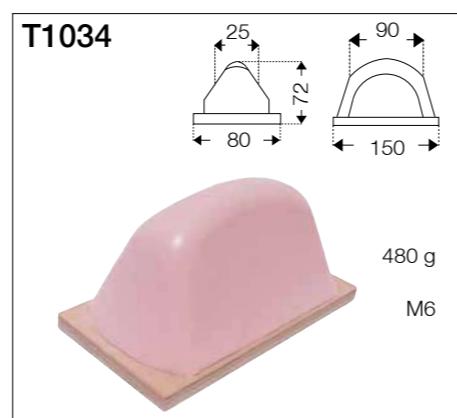
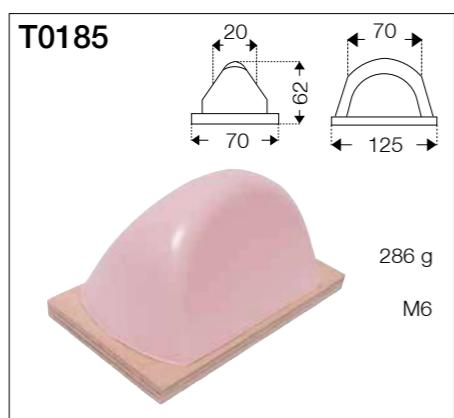
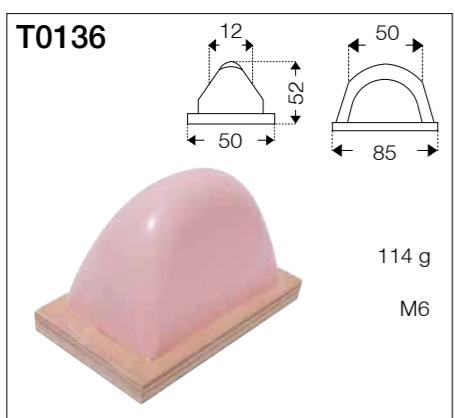
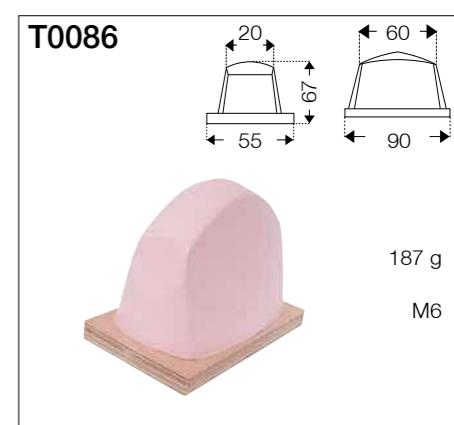
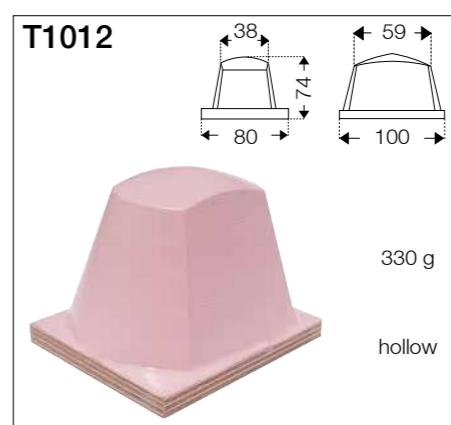
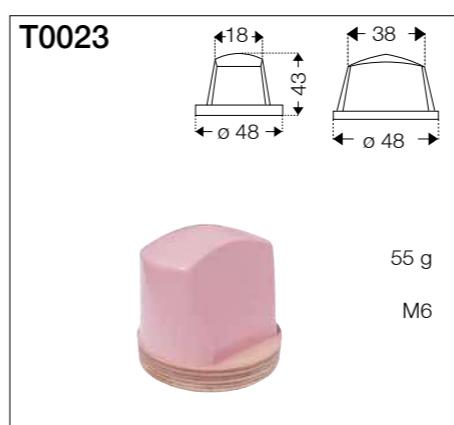
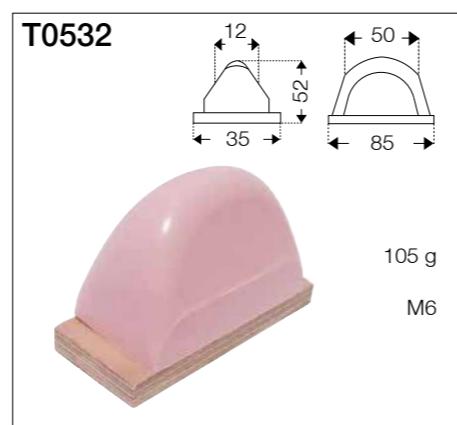
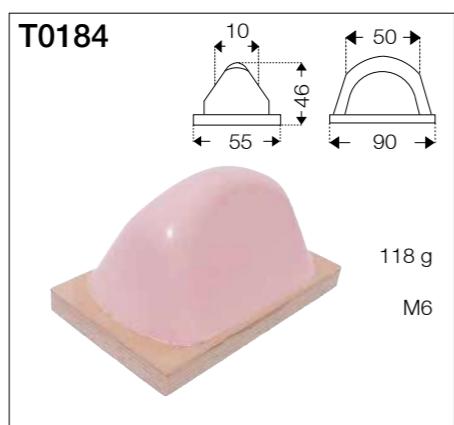
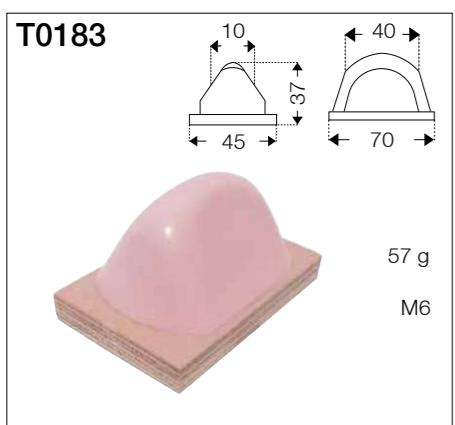
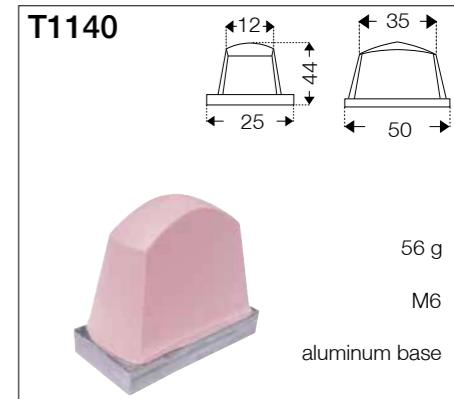
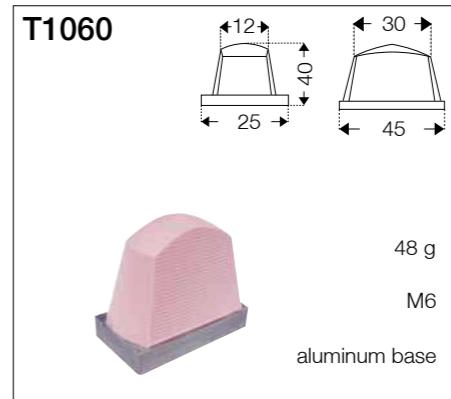
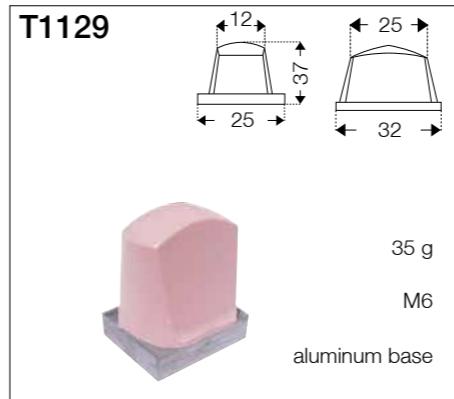
RECTANGULAR with a waist



RECTANGULAR fish belly



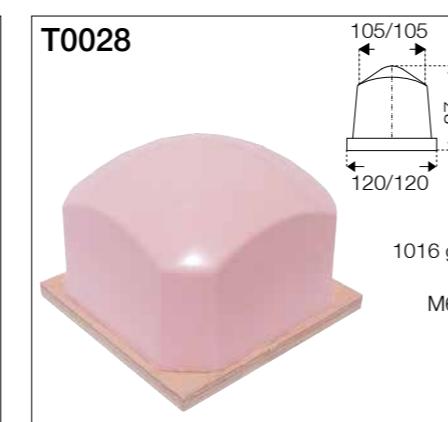
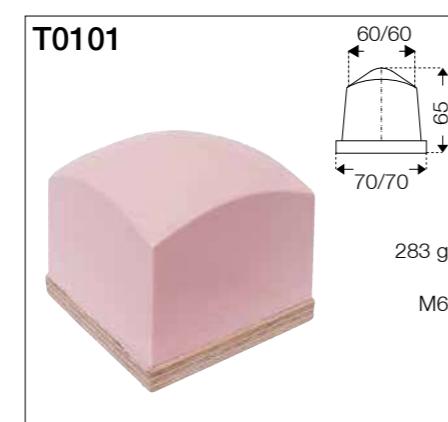
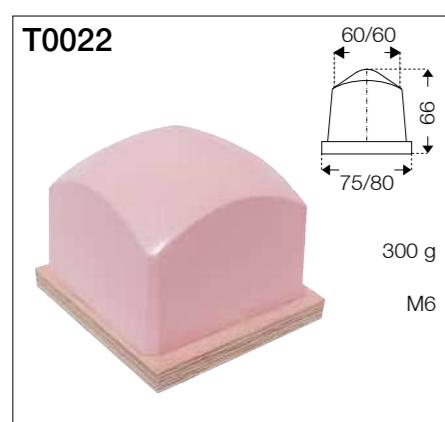
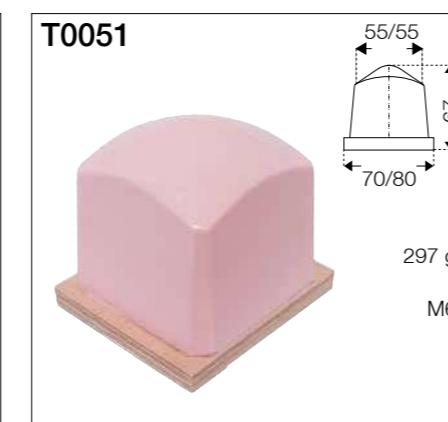
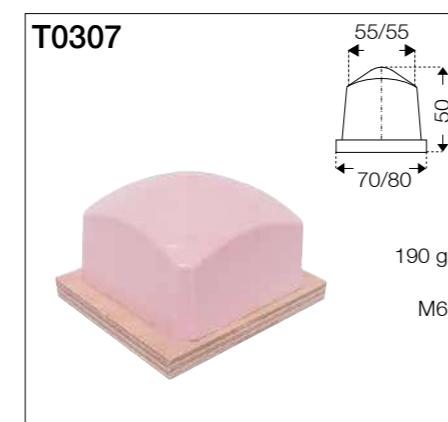
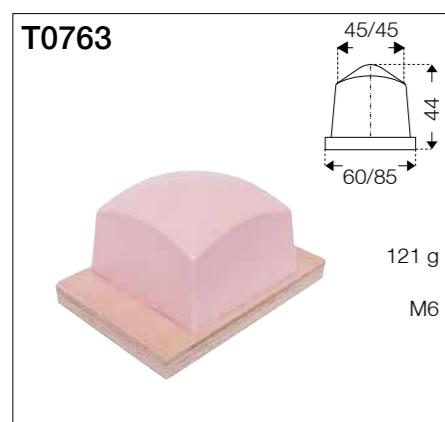
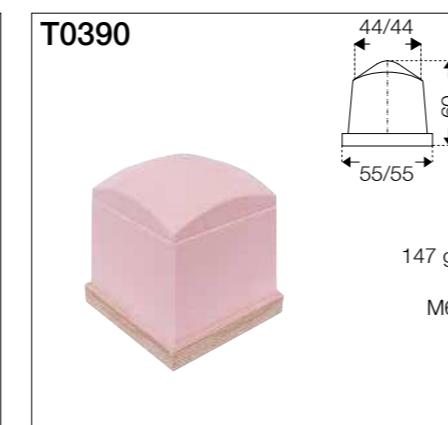
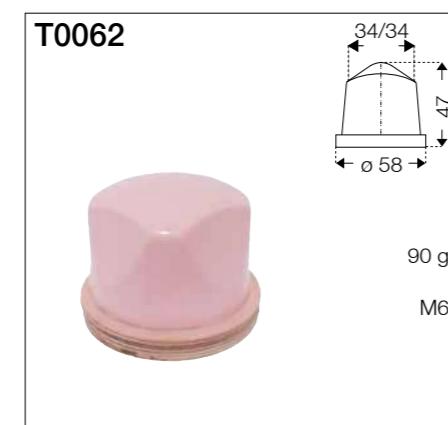
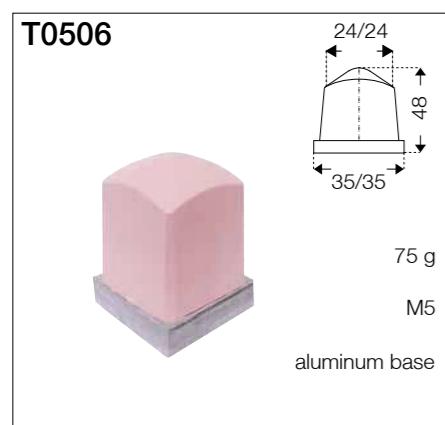
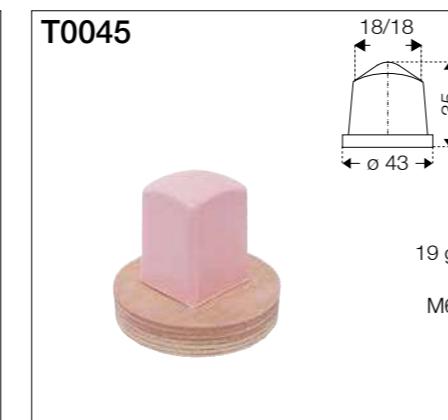
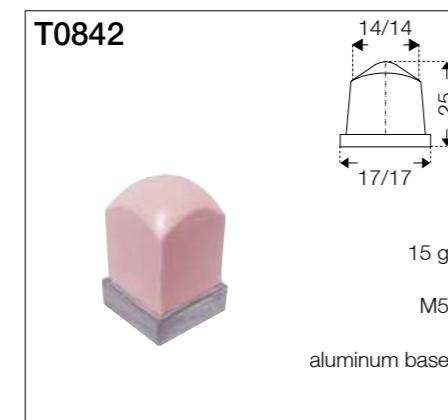
RECTANGULAR with domed print surface



SQUARE



SPECIAL PADS



Some applications place special demands to the printing pad. Different factors are responsible for this: e.g. the form of the to be printed part and the location for the print image. An uneven surface near the print image usually calls for a specially designed printing pad. Also the clustering of smaller pads to a pad combination can be useful.

For the development of special pads printing trials must be done in close collaboration between the application engineers, the film office and the construction team.

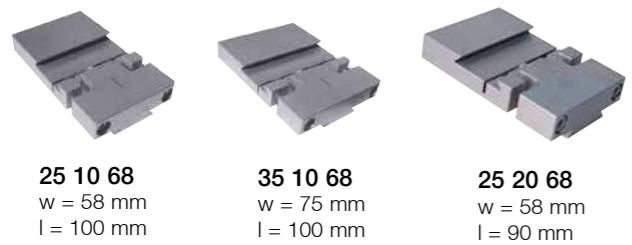
If none of the more than 2'000 available printing pads fits your needs, we are happy to develop, test and produce a pad specially for your application.



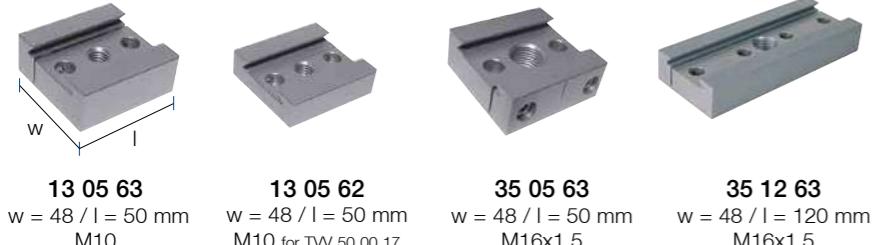
Pad holders slide supports, clamps, pad cones



Slide supports



Clamps



Pad cones



Stop clamps



Intermediary disc



Pad holders pluggable or with thread

Pad holder extra small



Pad holders narrow with thread



Pad holder centrical with thread



Pad holder narrow



Pad holder centrical



Pad holder eccentrical



Double pad holder

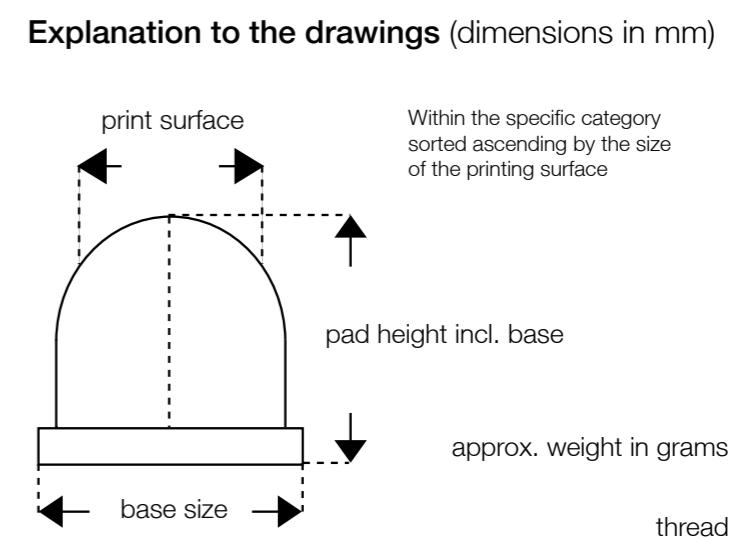


Index of pad numbers

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0007	15	0082	24	0189	21
0008	15	0083	25	0190	24
0009	14	0084	21	0196	22
0010	13	0085	16	0198	10
0011	11	0086	29	0199	10
0017	23	0087	18	0212	17
0020	17	0088	19	0213	17
0021	18	0090	11	0253	21
0022	30	0091	17	0254	22
0023	29	0092	10	0274	21
0024	26	0093	10	0303	23
0025	14	0095	12	0307	30
0026	14	0097	19	0326	18
0027	11	0098	11	0328	11
0028	30	0101	30	0346	22
0030	26	0105	15	0360	24
0040	22	0107	25	0363	12
0042	13	0108	26	0365	24
0044	18	0109	17	0368	10
0045	30	0111	19	0383	12
0047	14	0114	29	0388	17
0048	23	0115	24	0390	30
0051	30	0118	18	0395	23
0053	16	0119	23	0401	18
0055	14	0120	13	0403	23
0056	24	0132	21	0405	10
0058	14	0134	28	0406	17
0059	25	0135	26	0407	17
0060	14	0136	28	0409	23
0061	25	0137	23	0410	21
0062	30	0140	24	0415	12
0063	14	0141	19	0416	18
0064	16	0142	27	0426	12
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0066	25	0151	24	0437	26
0069	19	0153	27	0447	26
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0522	12	0886	16	1209	14		
0525	12	0894	16	1213	12		
0526	13	0918	18	1234	23		
0532	28	0931	27	1242	30		
0539	12	0939	26	1272	21		
0542	18	0971	26	1277	20		
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0570	16	1005	15	1299	20		
0579	19	1012	29	1307	20		
0600	13	1013	16	1309	20		
0605	12	1014	16	1311	20		
0610	19	1016	27	1313	29		
0628	11	1017	27	1325	10		
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