Excerpts from the work

Uppermaking

Uppermaking for Bespoke & Orthopedic Shoemakers



The work is published in three volumes (in German and English)

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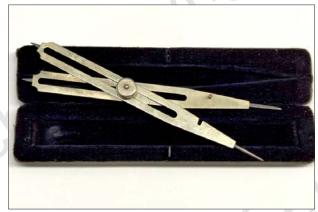
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Proportional Dividers - Reduction Dividers

In addition to the classic bow divider, there are also so-called »proportional dividers«. This divider differ from other dividers by two characteristics:

- 1. the two legs are not connected to each other at the upper end, but via a sliding carriage
- 2. as a result, these dividers do not have only two, but four ends



Proportional dividers made of white bronze from the patternmaking department of the former Lingel shoe factory in Erfurt.

Proportional dividers are not only very precise, but also easy to use because they are can be used with just one hand. Versions for uppermaking have a leg length of 15.5 cm to 20.5 cm and fine, filigree steel tips.

With a proportional divider one can divide a distance in a certain desired ratio. The distance of the reference measure is taken with a pair of tips, the opposite two tips then show the distance in the desired division ratio.



These dividers were widespread in the shoemaking trade up to the middle of the 20th century. With their help, stock patterns could be "graded by hand". Grading is the conversion of an existing reference pattern to larger or smaller shoe sizes, purely geometrically, without a last. Grading was explained in many specialist books from the early 20th century and made it possible to produce upper patterns for ready-made lasts very efficiently.

From the second half of the 20th century, however, there was hardly any demand for ready-made, manual shoe production. Grading machines were already being used in shoe factories at the beginning of the 20th century, which could convert a reference pattern into any desired size in a very short time. Today, this is done digitally using appropriate software.

So these beautiful, filigree tools gradually fell into oblivion and are only used in a few workshops.

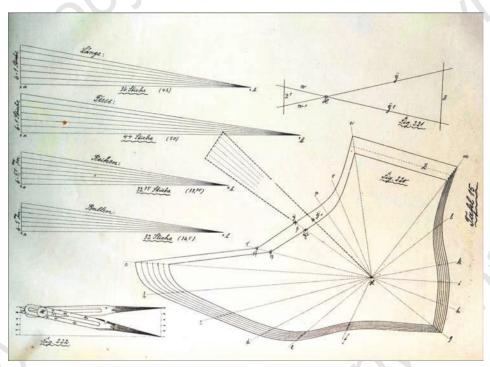
Proportional dividers/reduction dividers were already used in ancient times. A bronze proportional divider was found during excavations in Pompeii, dividing a line in a ratio of 1:2. The divider found in Pompeii was a fixed proportional divider. One could only trace a line with these in a predetermined ratio.¹

In the 16th century in Italy, these proportional dividers were further developed by several famous mathematicians and scientists. Works by Fabrizio Mordente, Federico Commandino and Galileo Galilei, among others, are documented. In the 17th century, the Swiss scientist and instrument inventor Jost Bürgi further improved the proportional divider.² Today's proportional dividers still largely correspond to his 17th-century design.

Now the legs were no longer fixed and of different lengths, but could be flexibly shifted against each other. Despite today's digital possibilities, these divideres are still used by patternmakers, designers, sculptors and instrument makers.

¹ SKD.

² ETHZ.





Drawings from the work »Triumph model cutting process for the shoe industry and uppermaking« portfolio by G.A. Köhler, director of the shoe factory in Wermelskirchen, around 1900, Wilhelm Bock Publishers/Gotha.

Gustav Anton Köhler explains the use of a proportional divider when grading upper patterns by hand. It is also possible to use a proportional divider to obtain proportions according to the golden section. However, this is more easily done by using a »Golden Mean Caliper«.

The Golden Mean Caliper

Around 1893, the doctor and painter Adalbert Goeringer developed another type of divider, the so-called »Golden Mean Caliper« (Latin: proportio divina or sectio aurea). This is a fixed proportional divider, but it has a third leg.³

A Golden Mean Caliper is only needed if one would like to divide a line into the »Golden Ratio«. Such a division ratio occurs when a line has been

divided in such a way that the ratio of the entire line to the larger of the two parts is the same as the larger part to the smaller part.

A Golden Mean Caliper has points only at the lower ends of the legs and divides one line in two parts.

This division is indicated by the third leg. The division ratio is always 1.618 - the division ratio of the »Golden Section«.



Functional replica model set by »Astro Media«.

It is possible to draw complete upper designs in the golden section, or use the golden ratio for just the hole patterns. The resulting proportions are usually considered aesthetically very appealing. (see page 80-86)

Golden ratio calipers are often used in facial cosmetics, but also in the field of design, in making musical instruments and drawing manga and comics.

3 SKD.

Distributing the Leg Circumference Measurements for Boot Uppers

If one works over a high leg last, one will have little trouble finding the correct upper position for boots. Care must be taken, however, because upper design systems for low lasts tend to transfer more volume over the front leg area. The result is a boot upper shaft that leans forward in position and is pushed backward by the calf when the boot is finished and worn. As a result, wrinkles are inevitably formed above the heel in the area of the back strap. These folds not only unsightly, but may also cause the upper to »sag« in this area.

If a high boot model is to be made over a narrow cone last (low shoe last), the leg circumference measurements can be distributed as described in the geometric patternmaking system under item 13 »Upper Closing Line« on (page 121). However, the geometric system provides for a distribution of the leg measurements only up to the height of the ankle line. For higher uppers, all measurements, as described in the geometric system under item 13 »Upper Midline«, are no longer evenly divided, but are transferred from a front fixed line to the rear.

If one works, as described subsequently, with a longer and higher upper midline, this is only sensible and unproblematic up to a height of approx. 16 cm, as this considered in the geometric system, for example. With higher boot uppers, on the other hand, the calf muscles are no longer sufficiently taken into account. As a result, the leg position is shifted too far forward.

Regardless of whether we work with the geometric system or with a last copy over a low shoe last, the following procedure is recommended for uppers 16 cm high and above:

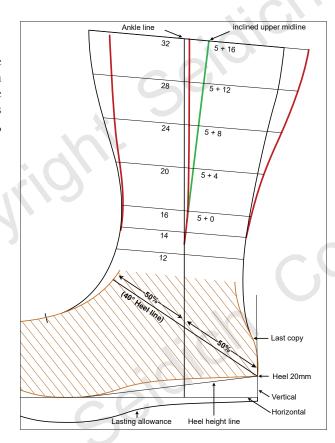
• We draw according to the geometric system up to point 18 - »Heel line« (page 118) and then follow the procedures explained below.

or:

• As explained on (pages 174-178), we transfer the outline of the last copy onto the angle of the base line and the vertical, draw in the heel line and then follow the procedures explained further on.

Example of a 32 cm high leg ladies' boot

The illustration on the right shows the difference between dividing the leg measurements along an extended vertical and uncorrected upper midline without modification and dividing the measurements using the new **»inclined upper midline**« (**line, green**) from 16 cm upper height.



We draw a leg position line (**black line**) at right angles to the baseline through the center of the heel line.

For boot uppers up to height 16 cm, we distribute the leg measurement in equal parts from this line:

Example:

Leg circumference 24 cm at height 14

- = 6 cm to both sides of the upper midline
- = $12 \text{ cm } \times 2 \text{ (for the inside & outside)} = 24 \text{ cm}$

However, from height 16 we distribute the leg circumference measurements more towards the heel. We start with an offset towards the heel of 5 mm at height 16. For each cm more in shaft height, we shift the new (green line) 1 mm further towards the heel.

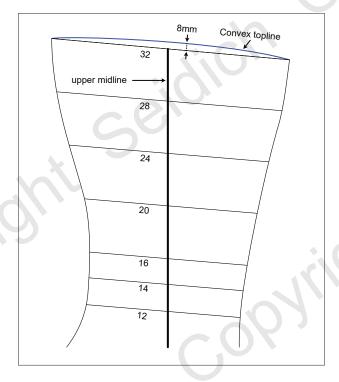
Example:

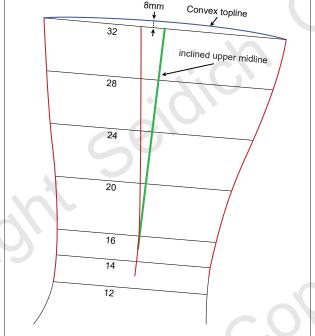
At height 16, we shift the upper midline 5 mm towards the heel.

At height 20 cm, we move the upper midline 9 mm towards the heel. Difference between height 20 and height 16 = 4 mm (5 mm + 4 mm = 9 mm).

We continue in this way. Marking in steps of 40mm is sufficient. We thus move the original mid line further towards the heel every 4 cm and obtain new points for heights 24, 28 and 32, which result in the new inclined upper midline.

For a shapely transition, we draw a soft, pleasing curve from the grey upper position line at height 13 to the new upper position line at height 16. From this new inclined upper midline, we transfer the respective leg circumference measurements in equal parts. The leg circumference measurements remain unchanged, but they shift progressively farther back, better accommodating the calf muscles according to their anatomical shape.





These two drawings also show the same construction, only individually. It can be clearly seen that in the left drawing, the calf dimension shifts

increasingly forward, while in the right drawing shifts more to the rear due to the inclined upper midline, to where the calf muscles are also located.

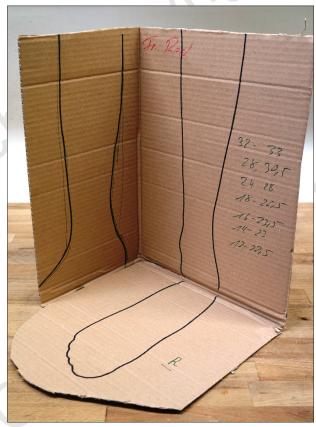
The Side Profile

If no leg last is available or if the procedure described above cannot be used due to a leg position that deviates greatly from the norm, the anatomical shape of the lower legs can be recorded by making a side profile. Even with this procedure, care should be taken to ensure that the leg position does not lean too far forward.

There are a number of ways to make a side profile. Here is a description of a method that is very simple to implement and highly efficient. For this purpose, the shoe wearer is asked to stand in a cardboard box cut to size before taking the measurements. In this way, not only can the foot be traced, but tracings are also taken from the front and the side.

When patternmaking, one can then distribute the leg girths according to these measurements and tracings.

The box can be folded flat and stored. If one has an A3 scanner, one can also scan the cardboard profile and archive it digitally. Such a side profile is also a great help when building calf-high boot trees.

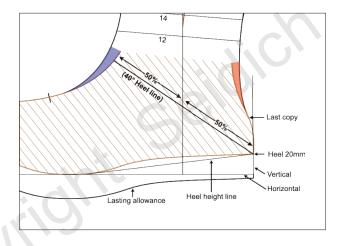


Vielen Dank für diesen Tipp an OSM Peter Noack

Addendum for the Passline of High Boot Uppers.

For high pull-on boot uppers, unlike models with lacing, we need a passline, an additional space on the upper instep and at the heel (blue area in the drawing). This is needed to ensure the easiest possible donning of the boots.

However, taking such additional volume into account only during patternmaking is not enough. Appropriate »shovers« made of leather or cork must also be placed on the lasts. It is also possible to purchase ready-made attachments made of synthetic material in order to make high boots over low shoe lasts. Without such attachments or stops on the last, there is a risk of not filling out the volume allowed for during patternmaking for better entry into the boot, and the shape of the finished boots will look misshapen.





Allowances and Reductions

Before we draw the design onto the standard forme, the need for allowances or reductions must be checked. The design specifications are always based on lasts with »normative« proportions. If these deviate far from the norm, this must be compensated for by adding to or subtracting from the standard forme. Such additions and subtractions can also be due to the cut and material. For thin, soft leather that stretches easily, an addition would lead

to overlapping eyelet facings at the lacing gap. A firm and strong boxcalf has more volume and significantly less stretch. If uppers are made from these two materials using the same last, according to the same patterns, the fit will be very different. The vamps would be of different lengths, since the boxcalf does not stretch as far forward when lasted, and the lacing gaps would be of different widths.



Oxford in English style with 0 mm gap.



Derby with a lacing gap of 18 mm.

Opening/lacing reserve

We can understand the lacing gap between the outer and inner quarter facings as »open space«. Whether to and to what extent we have to take the desired gap into account when patternmaking has already determined during the construction of the lasts. One can build lasts that are oversized (undersized?) and thus have already taken into account the desired gap. In this case, the quarter facings are basically touching each other when the uppers are lasted, but have the desired lacing gap when on the customer's foot. This requires a very precise last construction. It also precludes using these lasts to produce a cut in a different style that would require a different lacing gap. This is not uncommon in the field of made-to-measure shoes, especially since the shape of the last itself, especially the toe of the last, already sets a clear design direction. It is hardly possible to build a sneaker or distinctive boot using an elegant last with an extended and narrow toe.

The size of the lacing gap is also determined by the design/cut. With a closed lacing (Oxford/Balmoral) the gap is 0 mm. With an open lacing (derby/Weitoeffner?), the gap is between 0 mm and 20 mm, depending on the desired style. In the case of a sneaker with a wide and heavily padded tongue, the gap can be up to 100 mm.

The width of the lace opening is also referred to as the »lacing reserve«. If, for example, an orthopedic patient tends to swell up or down significantly in leg size, it is advisable to choose a slightly larger gap so that the shoes are still usable after a large shrinkage in volume. In this case, however, the tongue must be designed wider to ensure its function. This plays less of a role in low shoes than in boots, since swelling or shrinkage, e.g. due to water retention in the tissues, usually only occurs from the ankle upwards.

Circumference Measurements for High Uppers

When we make boot uppers, this is done either by using a leg last of the appropriate height or by using a narrow cone shoe last, taking into account the circumference measurements and the leg position, possibly based on a side profile tracing.

The »leg measurement« represents the circumference, measured with the tape measure at a certain height on the customer's leg, but at the same time it also represents the inner diameter of the upper at the respective height.

Depending on how far the circumference of the leg deviates from the norm, we have to work with allowances on the pattern during patternmaking. The last copy made of paper, tape or a thin plastic foil has less volume and therefore adds less than the later upper and lining material, plus the volume of a tongue. Assuming careful work (precise modeling, accurate cutting and well-fitted assembly), no further addition is necessary for: shoe sizes up to 43, »normal« proportions, supple (but not soft) leather of normal thickness and an unpadded tongue. The extra volume of material and tongue to the last copy is compensated for by the normal stretch of the leathers. The lacing gap would be about 15 mm.

Larger uppers and larger circumferences, on the other hand, require allowances. In most cases, it is sufficient to add a total of only about 2 - 3 mm to the upper leather quarters. Divided 50 % each in the area of the lacing and in the area of the heel seam/back strap (red lines in the drawing).



Important! The quarters should stretch as little as possible from the lacing to the heel (**red arrow**). Otherwise, the desired lacing gap is difficult to achieve. Daily lacing and the pressure on the lacing from the forward motion of the gait also lead to stretching of the quarters.

Whether and to what extent allowances are necessary depends on several factors:

- the circumference of the legs
- the thickness of the upper and lining materials
- the stretchiness of the upper materials
- the width of the tongues
- whether additional padding is installed

These variables result in a wealth of possible combinations, which is why it is impossible to establish fixed rules.

In addition, the effects of the variables multiply with increasing leg circumference. This is where experience and a trained eye play a big role.

Here is an experiment that illustrates the effects of padding the top of an upper. We have three lasts with three very different circumferences. Exactly according to the circumference of the lasts, we cut strips of upper and lining leather of normal thickness. In the lacing area, we applied a placeholder for a tongue made of lining and upper leather.





17,7 cm Circumference measurement 0,9 cm Opening

Left

3,0 cm with padding

Middle

32,1 cm Circumference measurement
1,6 cm Opening
3,8 cm with padding

Right

42,8 cm Circumference measurement
2,2 cm Opening
4,7 cm with padding

7.10 Clicking

Clicking

The parts of the uppers cut out of leather are called prices and the process of cutting is called clicking. A correctly crafted cut is important for the later fit of the uppers and errors in clicking can still be seen when wearing the finished shoes. The technique of manual clicking still largely corresponds to that of the 19th century. Even in shoe factories, clicking was done by hand until the invention of large swivel arm clicker presses.

In the meantime, in the shoe industry as well as with larger upper suppliers, cutting is carried out with various automated clicking machines. Even very fine contours can be achieved with high pressure water jets without actually getting the leather wet.

In the upper area, single-layer cutters are often used, which cut using a small, exchangeable knife.

Modern insole cutters cut with such precision that they are (almost) in no way inferior to cutting by hand with a sharp knife. Precise positioning of the patterns on a hide is also possible before the final cutting, so that directions of pull as well as defects in the leather can be considered. In the end, the quality of the cuts primarily depends on the expertise of the operator. Above all, these systems make economic sense if they are combined with a digital creation of the patterns. Material-related additions, e.g., for thick lining leathers such as lambskin, must be considered in the patterns as well as those for folded edges.

For most workshops, however, these techniques are unlikely to be an option due to their high costs and large space requirements. The price of the hardware, the cost of maintenance, repairs, software updates, and the amount of energy required are all issues that should be considered. Therefore, the following will pertain to handcrafted clicking.

The clicker bears a great deal of responsibility, because errors in the cut have significant financial consequences. If defects remain undetected, the finished uppers can, in the worst case, even be unusable.



Schoe factory H.Prenzler & Sohn 1927.



Inlay cutter from Bullmer GmbH. Photos: © Bullmer GmbH.



Cutting head from Bullmer GmbH. Photos: © Bullmer GmbH.

For a cutter to do this justice, he must have sufficient practical experience and should:

- know the differences between the individual types of leather and finishes
- know the natural properties, structure and lines of stretch in leather
- recognize the various errors/flaws

In addition to knowledge of the material, a clicker must be able to sharpen his knives to perfection, he must have a good sense of proportion, a »steady hand« for accurate knife guidance and spatial imagination.

There are always three important points to consider when cutting:

1. Quality

2. Stretch

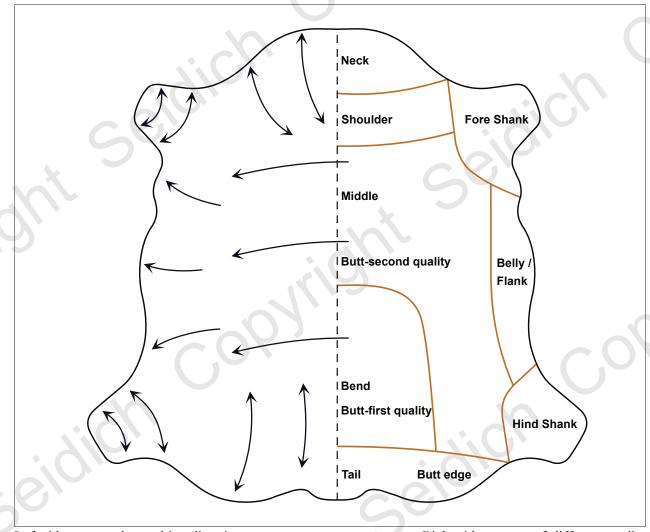
3. Pair Matching

Quality:

The quality and properties of the leather change within the skin. We find the highest quality along the back line, where the spine originally ran. From the back line, the quality gradually decreases towards the sides. This is lowest in the area of the shanks (the base of the legs).

The different properties of the parts in a hide are by no means a disadvantage, because the components of an upper also have different demands on the properties of the leather and are stressed to different degrees.

Cattle hide:

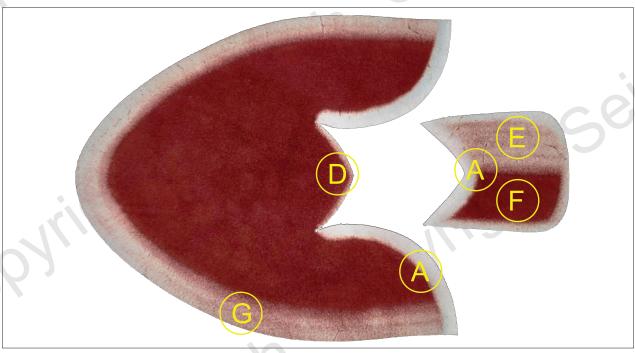


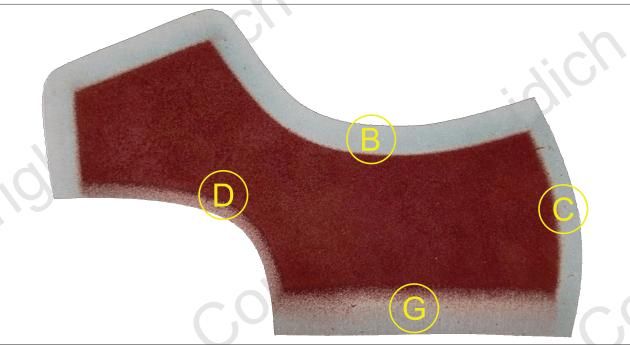
Left side = natural stretching directions

Right side = parts of different quality

Skives

We differentiate between several »skiving bevels« in upper construction, which are individually tailored to the thickness of the leather and the selected design. For example, a different skive is required for a folded edge than for beading with a tuck or piping.



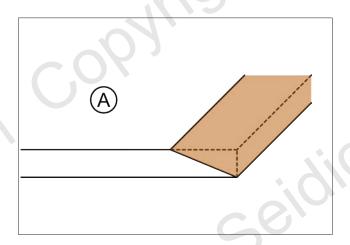


- **A** Lapped skive (seam allowance)
- **B** Folded edge
- C Closed seam/back seam
- **D** Chamfered edge
- **E** Bevelled skive
- **F** Full-surface splitting
- **G** Lasting allowance skive

Lapped Skive

Width: 12 - 15 mm

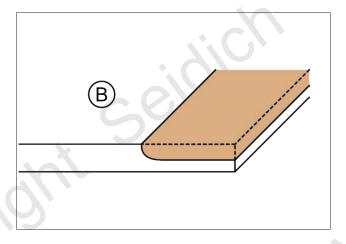
The most common of all skives is used when joining overlapping layers of material. The lapped skive significantly weakens the leather, so it is important that the underlap is wide enough that the subsequent sewn seams are placed in the full material thickness. In the case of very strong leather, the underlap must be correspondingly wider so that it can be softly tapered to »zero«. With strong leather, however, it is sufficient if the leather only has 2/3 of the original thickness along the sewing line. The underlying edge must be skived to absolute zero so that it does not show through the top piece. This is possible with a perfectly adjusted skiving machine. For this, however, the pressure foot must be lowered very close to the feed roller at the back edge, which means that there is a risk that the feed roller grinds against the presser foot. Depending on the skiving machine and the type of feed roller, a setting that requires fine manual re-skiving may be a good option.



Folded Edge Width: 10 - 12mm

Folding over is the most common treatment for upper edges. When clicking, the allowance for a fold is added to the net patterns. Therefore, when skiving, the skive is adjusted so that the width is twice the folding allowance. The depth of the skive must be selected in such a way that after folding, the finished upper piece has the previous thickness in this area since a folded area should not be thicker nor thinner than the rest of the material. If the folding skive is too deep or too long, there is a risk of the quarters tearing when lasted.

If the folding allowance skive is too deep or too wide, there is a risk that the quarters will tear while lasting.





Today the variety of these models is difficult to encompass, from classic pumps to Flamenco pumps, stilettos, platform heels and kitten heels, summery peep-toe heels, high heel strappy sandals and slingbacks. But also high wedges, high heel ankle boots and high heel clogs (mules).

We differentiate between pumps and high heels based on the height of the heel.

Pumps

= all models with a heel height from 30 to 85 mm

High Heels

= all models with a heel height above 85 mm

The French designer Laurence Dacade declared that the visually perfect heel is to be 8,5 cm high*. High enough for a graceful appearance, but still comfortable enough for longer walks.

Petite feet are also an ideal of beauty and another reason for high heels, because the higher the heel, the shorter the shoe appears. Both shoes in the photos are the same size and width, however the heel of the left shoe is 20 mm higher, which reduces the apparent length.





A Bit of Styling Advice

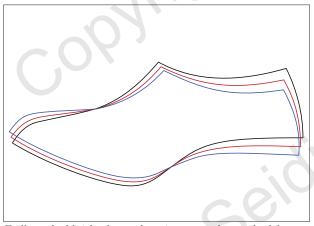
The basic rule is: pumps for a stylish appearance during the day, high heels for a spectacular appearance in the evening. Pumps with heels that are not too high harmonize with almost every outfit, whether with jeans, a suit, skirt or pantsuit. Block or wedge heels are particularly suitable for the office. They also give the legs more optical length and ensure a feminine gait. Still, they look appropriate and less sexy than very narrow heels, such as stilettos with a delicate spiked heel. How narrow a heel can be also depends on one's body weight. The lighter the shoe wearer, the narrower the heel can be, since

less body weight has to be distributed over the weight-bearing surface. This is often a very sensitive point when discussing custom-made pumps. Another principle that women do not like to hear is that smaller women with smaller feet should not wear heels that are too high. Shorter feet with high heels very quickly form a very steep angle, which means that the balls of the feet will be canted too steeply or even become vertical. In such cases, platform soles are a good compromise because they allow the wearer to gain more height without their feet being forced into too steep of an angle.

As a rule, the patterns can be created up to a heel height of 60 mm without springing the patterns. Up to a heel height of 90 mm, it is often sufficient if only one pivot point is set approximately at the end of the décolleté curve (**A**). In the case of very high heels, one or two more pivot points can be placed towards the heel.

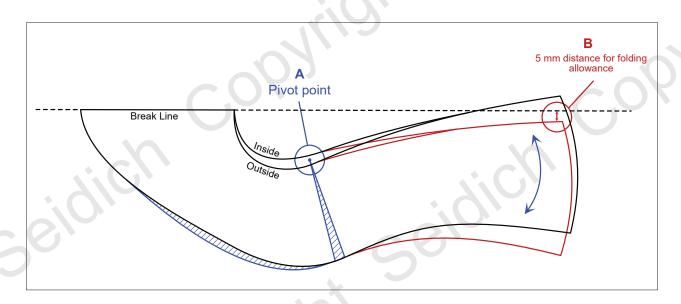
Springing

There are also different methods for springing patterns. The following is easy to implement and gives good results:



Different heel heights have a large impact on the standard forme. Outlines of last copies in size 39 with heel pitches of 50, 60 and 70 mm.

- We fold a piece of pattern paper to the appropriate size.
- We place the finished standard forme with the vamp break line on the folded edge.
- We outline the forefoot according to the standard forme and draw in the line of the décolleté up to the end of the curve.
- With an awl we select the pivot point. With this method, it is at the end of the décolleté curve, midway between the outer and inner lines (A)
- Before turning, we use the tracing wheel to mark a straight line from the pivot point down to the end of the lasting edge.
- We now turn the standard forme around the awl, lowering the heel until we reach a distance of approximately 5 mm below the fold line at the upper rear contact point (**B**). This is required to make room for a folded edge or other edge treatment.
- We transfer the contours and lines of the hindfoot from the standard forme.
- We run the tracing wheel again through the same line, starting from the pivot point.
- From the distance between the two backseam lines, we can see how much volume was lost at the last backline by springing the pattern. Depending on the result and the choice of material, this volume can be added back to the forefoot (blue hatched areas).



Working with Perforations

The punching of hole patterns should be done while standing, because the correct working height is just as important as a lip around the edge of the workbench, which prevents the punches from rolling off the edge and falling on the floor and being damaged. Punches should only be used on suitable surfaces. Under no circumstances should this be a hard material such as metal or marble. Often, punching pads made of polyethylene (PE-HMW / PE-HD) are used. It is important that the base has the right hardness. If this is too hard, punches wear out quickly. If this is too soft, the perforations will be less precise.

The tried-and-true blocks made of end-grain wood are ideal for fine perforations. The cutting edges of the punches hardly wear out on these, but they are still strong enough to achieve very clean perforations. If the surface has become too uneven after frequent use, it can be sanded flat again by a woodworker, whereas plastic pads must be disposed of as hazardous waste.



Punches (like all striking tools) are never used with a metal hammer or a shoemaker's hammer. The curved round mirror face (face = striking surface of a hammer) is used, among other things, to hammer down the leather caps and the curvature of the hammer fits into the concave curvature of the lasts. Punching into metal would damage the cutting edge so that you can no longer punch leather with it without damaging it.



To punch in decorative perforations, you either hit the punching tools with a wooden hammer (wooden mallet) or use a hammer with a plastic head. It is crucial that the hammer face be softer than the punch. On the one hand, this considerably reduces kickback, which makes work easier and prevents the formation of burrs on the impact surfaces of the punches. This mushroom-shaped, brittle burr made of sharp-edged metal (called a ...»beard« in German because it grows over time). These individual fragments can flake off while working and cause injuries. Therefore, such a beard (burr) must be sanded down (dressed) regularly.



Perforations are therefore mainly used in summer shoes and are also punched with larger holes. In the case of large-area perforation patterns, there is often a combination of decorative perforations and through-hole perforations in for use with heel foxing and toe caps.



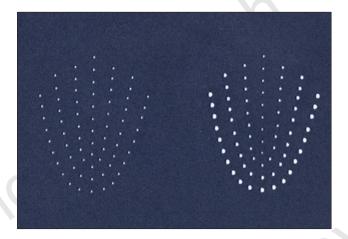
Example of an elaborate perforation in a summer boot. Here only the upper leather was perforated and backed in the areas of the heel counter and toe cap. The remaining area was perforated all the way through the lining.



The appearance of a perforation varies greatly due to the different diameter of the holes. Fine holes look elegant, large holes look casual.

Decorative perforations can be particularly appealing if several hole sizes are combined with one another. The photo on the right shows two holes using the same template.

Only a fine needle punch was used in the hole on the left, and four different sizes in the perforations on the right.



Perforation patterns with different hole sizes often look more interesting than those with only one hole size. This hole pattern in the wing cap of a Derby model consists exclusively of different hole sizes, which gives the shoe a special touch. Despite the seventeen different diameters, a harmonious overall effect is created.

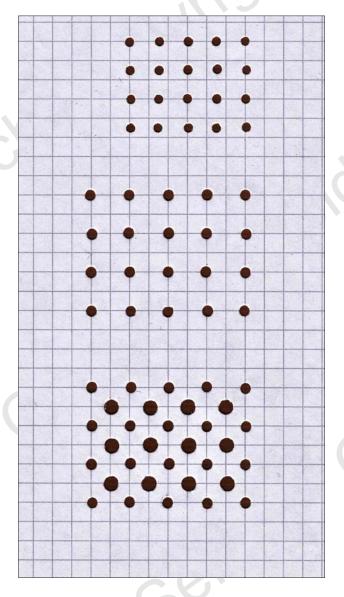


Perforation Templates

Perforation templates can be made in several ways. You can draw patterns free-hand or with French curves, etc. The holes are then placed along the lines. This is possible over a large area on vamps and quarters, but also in small areas ie Velcro or straps.

Perforation templates can be created very easily with the help of graph paper. Depending on the desired hole size, the distances can easily be determined using the existing grid. Pages with a checkered grid can be created with any edge length using software (MS Excel or similar).

It is best to first design perforation templates on paper. If you are satisfied with the result, you can transfer it to a sturdy board stock.



For perforation patterns that are often used, cardboard laminated with aluminum is ideal. We find this in some confectionery packaging. The aluminum lamination makes the stencil dimensionally stable and durable. Rubber cement can be removed from this again and again without damaging the template.



Once you are satisfied with the hole pattern, it is advisable to scan it and place it in a digital collection of such perforation templates. Printed out on paper, the hole pattern can then be attached to the respective upper models and reprinted if necessary. Another advantage of a digital image file is that it can be enlarged as well as reduced. For example, it is possible to use a perforation pattern that has been made for a shoe size 44 with correspondingly smaller holes for a shoe size 40.

The Derby stay stitch is of particular importance in uppermaking. It is the very last seam to be stitched, and »locks« together all four layers of a Derby upper – vamp upper, quarters, vamp lining and the quarter linings. The position of the stay stitch is of immense

importance, as it also determines the size of the opening into the shoe. The aim is for a patient with limited mobility in the upper ankle to be able to put on their shoes independently and without difficulty.



Elegant derby with closely spaced Derby stay stitches and a long vamp.

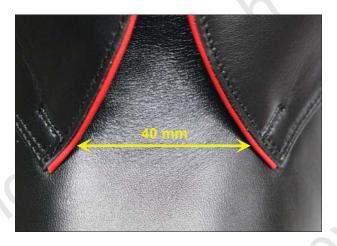
Work by the bespoke shoe manufacturer Carsten Moch/Bielefeld. Design: nexus product design.

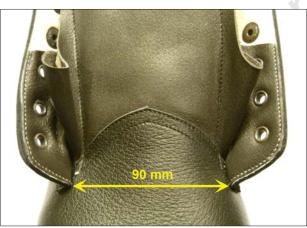
If there are no restrictions in the mobility of the foot, one can also place the Derby opening considerably further back towards the heel and also closer together. This presents a very elegant design. However, donning is just as difficult as with an Oxford design, which is why such designs are not an option for orthopedic shoe technology.

The position of the Derby corner is already defined in the standard forme and depends on:

- The type of footwear.
- Whether it is a model for a woman or a man.
- How flexible the shoe wearer is in the ankle.

For heavy footwear, such as work boots or mountaineering boots, the Derby corners must be spaced further apart to facilitate entry with thick stockings or to compensate for the effects of a bellows tongue while donnin.





The new Textbook »Uppermaking for Bespoke & Orthopedic Shoemakers«

Whether as preparation for the Master's Examination, for your own uppermaking or to be able to have more professional design discussions with your customers, you will find important help in this work.

Comprehensive but easy to understand, Volume I explains in detail patternmaking and design of uppers comprising 300 pages in A4 format with 400 photos, 200 drawings and 44 illustrations from historical technical books. With additional information on tools and many tips on special features for orthopedic fittings and execution of bespoke shoemaking.

Even those who buy uppers from outside suppliers will find a lot in this work that makes it easier to communicate with a contract uppermaker and discuss the design with the customer. The content also helps to competently discuss professional design during consultations.

Up-to-date literature on uppermaking has been scarce for decades and the contents of older literature are only partially valid. Above all, the special techniques for orthopedic shoe technology have been largely ignored.

The uppermaking firm Seidich located in Herne, Germany can look back on almost 100 years of tradition in uppermaking and therefore has well-grounded specialist knowledge, both in the production of uppers for difficult orthopedic fittings and in high-quality bespoke footwear.

The authors have been teaching uppermaking to Master students of Orthopedic Shoe Technology at the Düsseldorf Academy of Crafts for many years and deal with the knowledge relevant to the Master's Examination.

For a long time, Master students have been requesting up-to-date technical literature in preparation for the Orthopedic Shoe Technician Master examination, which was the trigger for initiating this work.

The authors have coordinated the contents of the three volumes with orthopedic shoemakers, bespoke shoemakers and master students. Since there is also a lack of current technical literature on uppermaking in other countries, the professional exchange extended to committed colleagues from six countries. Additional experts from other subject areas were consulted for individual chapters.

Therefore, the work not only deals with the content relevant to the OST master examination. Also taken into account were the requirements for the newly amended job description »Bespoke shoemaker specializing in uppermaking«.

The Book:

Book produced in Germany, by Medienhaus Blömeke in Herne (www.bloemeke-media.de). Durable premium paper (FSC-certified, from sustainable and controlled forests) with high opacity and brilliant color reproduction, climate-neutral printing. High-quality binding with a round spine.

Planned publication dates:

Volume I in German - was published October 2022 and is available.

Volume I / English - is scheduled for publication autumn/winter 2023.

Volume II & Volume III

are in progress. Dates for publication of these volumes will be announced on the website as soon as they are available. Website uppermaking.com / schaftbau.com

The English versions will follow approximately eight months after the publication of the German editions.

Subject to change

Volume I - Patternmaking

- Setting up a workplace for uppermaking
- Dress code
- Design
- Tools and aids for patternmaking
- Geometric system
- Different last copying methods
- Standard forme and detailed patterns
- Effects of thick inserts, upper padding and orthopedic counters
- Different shoe cuts
- And much more

Volume II - Material Science

- Tanning by Marc Lahnstein, Master Leather Technologist (LGR)
- Leather technology
- Cordovan with tips for further processing
- Synthetic materials
- Vegan materials
- Upcycling
- Padding materials
- Knife sharpening
- Clicking
- Skiving machine and bevelled edges
- And much more

Volume III - Technical elements

- Edge treatment (folding, beading, piping, binding)
- Sewing machines, needles and threads
- Closures (eyelets, hooks, velcro, zippers, etc.)
- Decorative perforations

Specifically for Orthopedic Shoe Technology:

- Uppers for diabetics
- Rigid rocker shoes
- Ankle foot orthosis fitting
- Severe edema

Especially for bespoke shoemaking:

- One Piece und Wholecut
- Single- und Double Monks
- Loafers
- Pumps
- And much more

For the first time, the craft of uppermaking is completely presented in these three volumes, which total approximately 600 pages, with hundreds of photos and graphics. Nevertheless, each of the three volumes is a standalone text and comprehensively covers its respective topics.

More than a book! - Online Bonusmaterial:

Further interesting content is provided exclusively for readers on the website: www.uppermaking.com. Parallel to the three volumes, a comprehensive glossary of uppermaking is being published there. Digitized historical specialist books are made accessible and other interesting topics related to uppermaking are offered.

Subject to change

"How To Make Cowboy Boots"

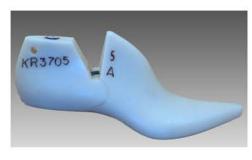
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Sorrell Notions & Findings

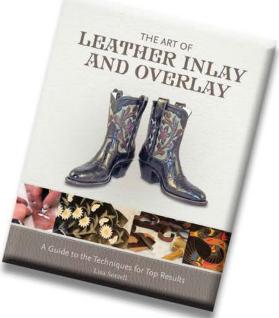
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