

## Overview Prussian Pickelhaube-Dimensions

Prussian Enlisted Men Helmets (also Wurttemberg & Baden since 1870)	M1842	M1857	M1860	M1867	M1871	M1887	M1891 [Values in square brackets since 1894]	M1895	M1895 - Changes in 1903	M1915 -Missing Issue-
Helmet Height	34,0 - 38,0 cm	28,0 - 34,0 cm	26,0 - 28,0 cm	23,0 - 26,0 cm	23,0 - 26,0 cm	21,5 - 22,5 cm	21,5 - 22,5 cm	21,0 - 21,3 cm	21,0 - 21,3 cm	21,0 - 21,3 cm
Shell Height	17,0 - 19,0 cm	14,0 - 16,0 cm	12,0 - 14,0 cm	11,0 - 13,0 cm	11,0 - 13,0 cm	9,5 - 11,5 cm	9,5 - 11,5 cm	9,0 - 10,5 cm	9,0 - 10,5 cm	9,0 - 10,5 cm
Spike Height	13,0 - 14,0 cm	10,5 - 12,5 cm	10,5 - 12,5 cm	10,5 - 11,5 cm	10,5 - 11,5 cm	8,5 cm; Ball: 7,5 cm	8,5 cm; Ball: 7,5 cm; [Dragoons: 9,5 cm]	8,7 cm; Ball: 8,0 cm; Dragoons: 9,5 cm	8,7 cm; Ball: 8,0 cm; Dragoons: 9,5 cm	8,2 cm; Ball: 7,5 cm; Dragoons: 9,0 cm
Wappen Height	12,5 - 13,0 cm	12,5 - 13,0 cm	12,0 - 12,5 cm	12,0 - 12,5 cm	12,0 - 12,5 cm	11,0 - 11,5 cm	11,0 - 11,5 cm	11,0 cm	11,0 cm; Guards: 12,7 cm	11,0 cm; Guards: 12,7 cm
Chin scale width (flat - foot troops)	-	2,5 - 2,6 cm / 1,5 - 1,6 cm / Rosette: 2,7 - 2,8 cm	2,5 - 2,6 cm / 1,5 - 1,6 cm / Rosette: 2,7 - 2,8 cm	2,5 - 2,6 cm / 1,5 - 1,6 cm / Rosette: 2,7 - 2,8 cm	2,5 - 2,6 cm / 1,5 - 1,6 cm / Rosette: 2,7 - 2,8 cm	2,0 / 1,2 cm / Rosette: Hooks (Eyelet on the chinscale)	2,0 / 1,2 cm / M91 rosette: 1,3 cm	2,0 / 1,2 cm / M91 rosette: 1,3 cm	2,0 / 1,2 cm / M91 rosette: 1,4 cm	2,0 / 1,2 cm / M91 rosette: 1,4 cm
Chin scale width (curved - mounted troops)	3,8 / 1,6 - 1,8 cm / Rosette (oval) 3,5 x 4,0 cm	3,8 / 1,6 - 1,8 cm / Rosette (oval) 3,5 x 4,0 cm	2,8 / 1,5 cm / Rosette (oval): 3,0 x 3,5 cm Dragoons: 3,5 / 1,5 cm / Rosette (oval) 3,5 x 4,0 cm	-	-	-	[2,8 / 1,5 cm / M91 rosette: 1,3 cm] [Dragoner: 3,5 / 1,5 cm / M91 rosette: 1,3 cm]	2,6 / 1,5 cm / M91 rosette: 1,3 cm	2,6 / 1,5 cm / M91 rosette: 1,4 cm	2,6 / 1,5 cm / M91 rosette: 1,4 cm
Chinstrap width	-	-	-	-	-	1,8 cm / Rosette: Hooks (Eyelet on the chinstrap)	1,5 cm / M91 rosette: 1,3 cm	1,6 cm / M91 rosette: 1,3 cm	1,6 cm / M91 rosette: 1,4 cm	1,6 cm / M91 rosette: 1,4 cm
Front-Visor Height	6,0 - 8,0 cm	5,0 - 6,5 cm	5,0 - 6,5 cm	5,0 - 5,5 cm	5,0 - 5,5 cm	4,5 - 5,0 cm	4,5 - 5,0 cm	4,1 cm	4,1 cm	4,1 cm
Rear-Visor Height	6,0 - 8,0 cm	5,0 - 6,5 cm	5,0 - 6,5 cm	5,0 - 6,5 cm	5,0 - 6,5 cm	4,5 - 5,0 cm	4,5 - 5,0 cm	4,5 cm	4,5 cm	4,5 cm
Cockades	Leather, 7,0 - 7,5 cm	Metal, 7,0 - 7,5 cm	Metal, 7,0 - 7,5 cm	Metal, 5,0 cm; Dragoons: 6,5 cm	Metal, 5,0 cm	Metal, 5,0 cm	Metal, 5,0 cm; [Dragoons: 6,5 cm]	Metal, 4,8 cm; Dragoons: 5,0 cm	Metal, 4,8 cm	Metal, 4,8 cm
Helmet Weight	900 - 1000 g	750 - 900 g	700 - 800 g	500 - 700 g	500 - 700 g	440 - 550 g	440 - 550 g	360 - 445 g	360 - 455 g	360 - 455 g
Guardstar-Diameter	7,3 cm	7,3 cm	7,3 cm	7,3 cm	7,3 cm	7,3 cm	7,3 cm	7,3 cm	9,0 cm	9,0 cm

Prussian Officer Helmets (also Wurttemberg & Baden since 1870)	M1842	M1857	M1860	M1867	M1871	M1895 (DRAFT)	M1895	M1895 - Changes in 1899	M1915 -Missing Issue-
Helmet Height	34,0 - 38,0 cm	28,0 - 34,0 cm	26,0 - 28,0 cm	23,0 - 27,5 cm	23,0 - 27,5 cm	24,0 - 26,5 cm	23,0 - 25,5 cm	23,0 - 25,5 cm	23,0 - 25,5 cm
Shell Height	17,0 - 19,0 cm	14,0 - 16,0 cm	12,0 - 14,0 cm	11,0 - 13,0 cm	11,0 - 13,0 cm	10,5 - 12,5 cm	10,5 - 12,5 cm	10,5 - 12,5 cm	10,5 - 12,5 cm
Spike Height	12,5 - 14,0 cm	10,5 - 12,5 cm	10,5 - 12,5 cm	10,5 - 11,5 cm	10,5 - 11,5 cm	10,5 - 11,5 cm	9,5 cm; Ball: 7,0 cm	9,5 cm; Ball: 7,0 cm	9,5 cm; Ball: 7,0 cm
Wappen Height	12,5 - 13,0 cm	12,5 - 13,0 cm	12,0 - 12,5 cm	12,0 - 12,5 cm	12,0 - 12,5 cm	11,0 cm	11,0 cm	11,0 cm; Guards: 12,7 cm	11,0 cm; Guards: 12,7 cm
Chin scale width (flat - foot troops)	-	2,5 - 2,6 cm / 1,5 - 1,6 cm / Rosette: 2,7 - 2,8 cm	2,5 - 2,6 cm / 1,5 - 1,6 cm / Rosette: 2,7 - 2,8 cm	2,5 - 2,6 cm / 1,5 - 1,6 cm / Rosette: 2,7 - 2,8 cm	2,5 - 2,6 cm / 1,5 - 1,6 cm / Rosette: 2,7 - 2,8 cm	2,3 / 1,3 cm / Rosette: 2,5 cm	2,3 / 1,3 cm / Rosette: 2,5 cm	2,3 / 1,3 cm / Rosette: 2,5 cm	2,3 (Fake rosette) / 1,3 cm / M91 rosette: 1,4 cm
Chin scale width (curved - mounted troops)	3,8 / 1,6 - 1,8 cm / Rosette (oval) 3,5 x 4,0 cm	3,8 / 1,6 - 1,8 cm / Rosette (oval) 3,5 x 4,0 cm	2,8 cm / 1,5 cm / Rosette (oval): 3,0 x 3,5 cm	-	2,8 cm / 1,5 cm / Rosette (oval): 3,0 x 3,5 cm	2,6 / 1,4 cm / Rosette (oval): 2,7 x 3,2 cm	2,6 / 1,4 cm / Rosette: 2,7 x 3,2 cm	2,6 / 1,4 cm / Rosette: 2,7 x 3,2 cm	2,6 (Fake rosette) / 1,4 cm / M91 rosette: 1,4 cm
Chinstrap width	-	-	-	-	-	-	-	-	1,6 cm / M91 rosette: 1,4 cm
Front-Visor Height	6,0 - 8,0 cm	5,0 - 6,5 cm	4,5 - 5,5 cm	4,5 - 5,5 cm	4,5 - 5,5 cm	4,0 cm; Dragoons: 3,8 cm	4,0 cm; Dragoons: 3,8 cm	4,0 cm; Dragoons: 3,8 cm	4,0 cm; Dragoons: 3,8 cm
Rear-Visor Height	6,0 - 8,0 cm	5,0 - 6,5 cm	4,5 - 5,5 cm	4,5 - 5,5 cm	4,5 - 5,5 cm	4,3 cm	4,3 cm	4,3 cm	4,3 cm
Cockades	Leather, 7,0 - 7,5 cm	Metal, 7,0 - 7,5 cm	Metal, 7,0 - 7,5 cm	Metal, 5,5 cm	Metal, 5,5 cm	Metal, 5,5 cm	Metal, 5,5 cm	Metal, 5,5 cm	Metal, 5,5 cm
Helmet Weight	800 - 900 g	600 - 850 g	500 - 750 g	450 - 600 g	450 - 600 g	370 - 460 g	370 - 460 g	370 - 470 g	370 - 470 g
Guardstar-Diameter	7,3 cm	7,3 cm	7,3 cm	7,3 cm	7,3 cm	7,3 cm	7,3 cm	9,0	9,0 cm

### LEGEND

VALUE IS BASED ON ORIGINAL SOURCES AND UNCHANGED TO PREVIOUS MODEL

VALUE UNCHANGED TO PREVIOUS MODEL AND BASED ON MEASUREMENTS

VALUE IS AN ASSUMPTION. BUT UNCHANGED TO PREVIOUS MODEL

VALUE IS BASED ON ORIGINAL SOURCES AND CHANGED TO PREVIOUS MODEL

VALUE CHANGED TO PREVIOUS MODEL. IT IS BASED ON MEASUREMENTS

VALUE CHANGED TO PREVIOUS MODEL, BUT IT IS AN ASSUMPTION

# Kommentare

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## Prussia

- Sandy Michael Heinemann**  
27. Oktober 2022 um 18:48:01  
Only for enlisted men of the foot troops.  
The clothing regulations 2. Part of 1888 seems to be lost due to the 2. World War. But the M1887 and M1891 helmets were identical except for the front visor, the chin strap and the chin strap attachment.
- Sandy Michael Heinemann**  
27. Oktober 2022 um 18:49:04  
Only for enlisted men of the foot troops. From 1894, the M91 rosette was also introduced to the remaining units.  
Source: Bekleidungsordnung - 2. Teil - Vorschriften für die Beschaffenheit und Unterscheidungszeichen der Bekleidung und Ausrüstung der Mannschaften aller Waffen sowie der Ausrüstung der Reitpferde der Kavallerie - from April 11, 1893
- Sandy Michael Heinemann**  
30. November 2022 um 20:57:07  
Source: „Bekleidungsordnung II. Teil - Vorschriften für die Beschaffenheit und Unterscheidungszeichen der Bekleidung und Ausrüstung der Mannschaften aller Waffen sowie der Ausrüstung der Reitpferde der Kavallerie“ from December 12, 1895.
- Sandy Michael Heinemann**  
30. November 2022 um 20:57:56  
Source: „Bekleidungsordnung, 2. Teil: Vorschriften für die Beschaffenheit und Unterscheidungszeichen der Bekleidung und Ausrüstung der Mannschaften aller Waffen sowie der Ausrüstung der Reitpferde der Kavallerie“ from April 11, 1903.
- Sandy Michael Heinemann**  
5. Dezember 2022 um 06:16:25  
The clothing regulation from 1915 is missing from my library and unfortunately I couldn't find a copy to look it up. However, the dimensions should correspond to those from 1903.
- Sandy Michael Heinemann**  
27. Oktober 2022 um 16:16:53  
Shell is no longer so parabolic, but rather half-spherical.
- Sandy Michael Heinemann**  
27. Oktober 2022 um 16:16:43  
Shell is again slightly more half-spherical than the previous model. Due to the missing rear spine, the seam of the helmet shell, if it wasn't pressed from one piece, was hidden under the eagle plate.  
Sometimes a reinforcing disc made of black painted sheet metal was installed inside the helmet, below the spike base.
- Sandy Michael Heinemann**  
29. November 2022 um 16:05:21  
9 cm in the middle of the shell at the cockades, and 10.5 cm at the front and backside of the shell.
- Sandy Michael Heinemann**  
2. März 2025 um 05:05:08  
Source: „Dienst-Vorschriften der königlich preußischen Armee“ - Volume 2, Part 1; Spikebase disc diameter: 8,0 cm; spikebase height: 2,5 cm; spike height: 8 cm - 10 cm
- Sandy Michael Heinemann**  
10. Dezember 2022 um 12:04:41  
Source: „Dienst-Vorschriften der königlich preußischen Armee“ - Volume 2, Part 1; Spikebase disc diameter: 8,0 cm; spikebase height: 2,5 cm; spike height: 8 cm - 9 cm.
- Sandy Michael Heinemann**  
18. Mai 2023 um 13:14:55  
Identical to the M1891 -  
Spikebase diameter: 8.0 cm; height of the spikebase: 2.5 cm; height of the spike: 6.0 cm.
- Sandy Michael Heinemann**  
14. März 2025 um 03:25:10  
Spikebase diameter: 8.0 cm; height of the spikebase: 2.5 cm; height of the spike: 6.0 cm (Dragoons: 7.0 cm).
- Sandy Michael Heinemann**  
30. November 2022 um 20:42:11  
Spikebase diameter: 7,6 cm.  
Inside the helmet a black painted metal disc with diameter 9,5 cm was requested. For Dragoons the metal disc was diameter 13 cm.
- Sandy Michael Heinemann**  
1. Februar 2023 um 13:07:02  
New spike with bayonet lock.  
Dimensions come from the file „BayHStA MKr 5103“ (Helme, Bund XVI) - „Änderungen an der preussischen Bekleidungsordnung für Mannschaften, II. Teil“ from 28.6.1915, page 270/271 - Bayerisches Hauptstadtarchiv.
- Sandy Michael Heinemann**  
28. April 2023 um 07:39:47  
Attachment concept changed to wire loops and leather wedges.
- Sandy Michael Heinemann**  
14. März 2025 um 03:31:22  
My measurements have shown that the dimensions of the helmet eagles were identical for enlisted men and officers. And since a larger guard eagle was introduced among the officers in 1899, I assume that this also happened for the enlisted men at the same time.
- Sandy Michael Heinemann**  
21. April 2023 um 08:27:37  
The chin scales were attached to the helmet by means of a screw/threaded bush when the flat variant was introduced.  
Measured at the height of the hole for the rosette at the back and at the height of the hook/eye fastening at the front.
- Sandy Michael Heinemann**  
27. Februar 2025 um 13:23:44  
The chinscales on the M1887 had probably identical dimensions as on the M1891, but another connection system to the helmet.
- Sandy Michael Heinemann**  
21. April 2023 um 07:17:49  
M91 rosette most likely as described in 1895.
- Sandy Michael Heinemann**  
26. März 2025 um 15:08:51  
M91 rosette with a diameter of 1.3 cm. The wedge-shaped nose directed obliquely to the rear has a length of 5.0 mm. Attached to the helmet with a 4-fold splitted pin. The number of pins for twist protection was not yet regulated, but usually only 1 pin was used.
- Sandy Michael Heinemann**  
23. Februar 2025 um 14:15:41  
M91 rosette with a diameter of 1.4 cm. The wedge-shaped nose directed obliquely back has a length of 5.0 mm and a thickness of 1.4 mm. Attached to the helmet with a 4-fold splitted pin, but now with 2 pins as a twist protection.  
The rearmost scale of the chinscales should be 2.0 mm thick for the foot troops and 3.0 mm for mounted troops. The metal eyelet on the chinstrap should be 2.0 mm thick. The addition for the diameter of the bore in the chinscales and in the metal eyelets on the chinstrap, for the M91 rosettes, was 0.1 mm.
- Sandy Michael Heinemann**  
21. April 2023 um 07:29:53  
With the introduction of the M1915, chinscales were only used by the officers, the 1. Guard Regiment worn on foot and on the metal helmets to the helmet WITHOUT cover.  
The M91 rosettes are now attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
21. April 2023 um 07:26:20  
Measured at the height of the hole for the rosette at the back and at the height of the hook/eye fastening at the front. The chin scales were attached to the helmet by means of a screw and an elongated decorative nut.
- Sandy Michael Heinemann**  
13. März 2025 um 13:13:43  
Dimensions come from the clothing regulation 2. Part of 1893. My measurements showed similar dimensions, which is why I assume that these measurements were in the regulations.
- Sandy Michael Heinemann**  
26. März 2025 um 15:41:50  
In 1894, the M91 rosette was also introduced to the remaining units.
- Sandy Michael Heinemann**  
2. März 2025 um 07:31:16  
Source: „Der preußische Mannschaftshelm Modell 1887“ (Article from the magazine „Zeitschrift für Heereskunde“).
- Sandy Michael Heinemann**  
22. Januar 2026 um 19:25:18  
With the introduction of the M1915, the chinstrap was also used for the officers, the 1. Guard regiment on foot and ordered on the metal helmets to the helmet WITH cover. The rest of the enlisted men should wear the chinstrap throughout.  
The M91 rosettes have now been attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
2. März 2025 um 05:22:30  
Front visor with a thick leather bead at the lower edge, instead of the metal trimm.
- Sandy Michael Heinemann**  
26. Mai 2023 um 10:04:44  
Front visor with a 0.7 cm wide metal trim around the lower edge.
- Sandy Michael Heinemann**  
14. März 2025 um 03:29:24  
Front visor with a 0.8 cm wide metal trim around the lower edge.
- Sandy Michael Heinemann**  
27. Oktober 2022 um 18:39:59  
The rear visor is reduced in height so that it does not clash with the knapsack in prone shooting.
- Sandy Michael Heinemann**  
7. Dezember 2022 um 18:57:46  
In 1846 the cockade of wool (for officers and enlisted men) or silk (only for officers) were allowed to wear on Prussian helmets, the paint on the leather cockades was not very durable.
- Sandy Michael Heinemann**  
2. März 2025 um 05:16:16  
Source: „Dienst-Vorschriften der königlich preußischen Armee“ - Volume 2, Part 1.  
Even though the dragons did not wear this helmet model, a smaller cockade with a diameter of 6.5 cm in diameter was probably introduced for them around 1867.
- Sandy Michael Heinemann**  
10. Dezember 2022 um 11:40:51  
Source: Vorschrift über den Gebrauch der Infanterie-Ausrüstung M/87.
- Sandy Michael Heinemann**  
8. Dezember 2022 um 16:49:10  
Source: „Dienstvorschriften für die Bekleidungsämter“, published in 1897:  
360g +/- 35g for Line-Infantry  
425g +/- 35g for Line-Grenadiers  
445g +/- 35g for Guard-Infantry
- Sandy Michael Heinemann**  
2. März 2025 um 06:06:49  
Because of the increased guard eagle, the weight should also be increased a little bit.
- Sandy Michael Heinemann**  
2. März 2025 um 05:46:15  
My measurements showed that the dimensions of the enlisted men's helmets matched those of the officers. This probably also applies to the guard star.
- Sandy Michael Heinemann**  
10. Dezember 2022 um 11:49:52  
Source: DRAFT „Bekleidungs Vorschrift II. Teil - für Offiziere, Sanitätsoffiziere und Veterinäroffiziere des Königlich Preußischen Heeres“ from January 26, 1895.
- Sandy Michael Heinemann**  
10. Dezember 2022 um 11:49:52  
Source: „Bekleidungs Vorschrift II. Teil - für Offiziere, Sanitätsoffiziere und Veterinäroffiziere des Königlich Preußischen Heeres“ from May 28, 1896.
- Sandy Michael Heinemann**  
10. Dezember 2022 um 11:51:12  
Source: „Bekleidungs Vorschrift für Offiziere, Sanitätsoffiziere und Veterinäroffiziere des Königlich Preußischen Heeres“ - from May 15, 1899.
- Sandy Michael Heinemann**  
5. Dezember 2022 um 06:16:08  
The clothing regulation from 1915 is missing from my library and unfortunately I couldn't find a copy to look it up. However, the dimensions should correspond to those from 1899 or 1911.
- Sandy Michael Heinemann**  
10. Dezember 2022 um 11:48:58  
Shell is again slightly more half-spherical than the previous model.  
Because of the missing backspine the stitching of the cutted shell were to be placed at the front and covered by the eagle plate.  
Sometimes a reinforcing disc made of black painted sheet metal was installed inside the helmet, below the spike base.
- Sandy Michael Heinemann**  
2. März 2025 um 05:53:02  
Source: „Dienst-Vorschriften der königlich preußischen Armee“ - Volume 2, Part 1; Spikebase disc diameter: 8,0 cm; spikebase height: 2,5 cm; spike height: 8 cm - 10 cm.
- Sandy Michael Heinemann**  
10. Dezember 2022 um 12:04:35  
Source: „Dienst-Vorschriften der königlich preußischen Armee“ - Volume 2, Part 1; Spikebase disc diameter: 8,0 cm; spikebase height: 2,5 cm; spike height: 8 cm - 9 cm.
- Sandy Michael Heinemann**  
13. Dezember 2022 um 09:41:17  
Spikebase disc diameter: 8,0 cm; spikebase height: 2,5 cm; spike height: 7,0 cm (Ball: 4,5 cm)
- Sandy Michael Heinemann**  
1. Februar 2023 um 13:07:09  
Removable spike!
- Sandy Michael Heinemann**  
21. April 2023 um 08:27:37  
The chin scales were attached to the helmet by means of a screw/threaded bush when the flat variant was introduced.
- Sandy Michael Heinemann**  
7. Mai 2023 um 11:41:26  
The officers' chin scales were attached to the helmet by means of a split pin rosette from about 1871 onwards.
- Sandy Michael Heinemann**  
27. Februar 2025 um 13:42:44  
Measured at the height of the hole for the rosette at the back and at the height of the hook/eye fastening at the front.
- Sandy Michael Heinemann**  
27. Februar 2025 um 13:43:11  
Measured at the height of the hole for the rosette at the back and at the height of the hook/eye fastening at the front.
- Sandy Michael Heinemann**  
21. April 2023 um 08:26:44  
With the introduction of the M1915, chinscales were only used by the officers, the 1. Guard Regiment worn on foot and on the metal helmets to the helmet WITHOUT cover. However, the M91 rosettes on the officer's helmets were hidden almost invisibly by rosette covers integrated into the chinscales.  
The M91 rosettes are now attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
21. April 2023 um 07:26:20  
Measured at the height of the hole for the rosette at the back and at the height of the hook/eye fastening at the front. The chin scales were attached to the helmet by means of a screw and an elongated decorative nut.
- Sandy Michael Heinemann**  
14. März 2025 um 03:45:27  
At that time, the dimensions of the chinscales of enlisted men and officers were similar.
- Sandy Michael Heinemann**  
23. Februar 2025 um 14:52:59  
With the introduction of the M1915, the chinstrap was also used for the officers, the 1. Guard regiment on foot and ordered on the metal helmets to the helmet WITH cover. The rest of the enlisted men should wear the chinstrap throughout.  
The M91 rosettes have now been attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
13. Dezember 2022 um 09:42:43  
Visor-Trim for officers 0,6 cm wide.
- Sandy Michael Heinemann**  
28. November 2022 um 20:52:12  
In 1846 the cockade of wool (for officers and enlisted men) or silk (only for officers) were allowed to wear on Prussian helmets, the paint on the leather cockades was not very durable.
- Sandy Michael Heinemann**  
1. Februar 2023 um 17:14:09  
New officer's cockade with large drilling for fastening to the M1891 rosette, which is now also prescribed for officers.
- Sandy Michael Heinemann**  
17. Januar 2024 um 10:00:40  
Because the Guard Eagle and Guard star has been increased, the weight has to be increased too.

# Overview Saxon Pickelhaube-Dimensions

Saxon Enlisted Men Helmets	M1867 <sup>[1]</sup>	M1872 <sup>[2]</sup>	M1887 <sup>[3]</sup>	M1891 [Values in square brackets since 1894] <sup>[4]</sup>	M1895 <sup>[5]</sup>	M1895 - Changes in 1904 <sup>[6]</sup>	M1915 -Missing Issue- <sup>[7]</sup>
Helmet Height	23,0 - 27,5 cm	23,0 - 27,5 cm	21,5 - 22,5 cm	21,5 - 22,5 cm	21,0 - 21,3 cm	21,0 - 21,3 cm	21,0 - 21,3 cm
Shell Height	11,0 - 13,5 cm <sup>[8]</sup>	11,0 - 13,5 cm	9,5 cm	9,5 cm	9,0 - 10,5 cm	9,0 - 10,5 cm	9,0 - 10,5 cm
Spike Height	8,4 cm (2,5" + Spikebase) <sup>[9]</sup>	8,5 cm <sup>[10]</sup>	8,5 cm; Ball: 7,1 cm <sup>[11]</sup>	8,5 cm; Ball: 7,1 cm	8,3 cm; Ball: 8,0 cm <sup>[12]</sup>	8,7 cm; Ball: 8,0 cm <sup>[13]</sup>	8,2 cm; Ball: 7,5 cm <sup>[14]</sup>
Wappen Height	10,5 cm	10,5 cm	10,5 cm	10,5 cm	10,5 cm <sup>[15]</sup>	12,0 cm <sup>[16]</sup>	12,0 cm
Chin scale width (flat - foot troops)	2,15 / 1,2 cm / Rosette: 2,6 cm <sup>[17]</sup>	2,15 / 1,2 cm / Rosette: 2,6 cm	2,0 / 1,2 cm / Rosette: Hooks (Eyelet on the chinscale) <sup>[18]</sup>	2,0 / 1,2 cm / M91 rosette: 1,3 cm - 1,4 cm <sup>[19]</sup>	2,0 / 1,2 cm / M91 rosette: 1,3 cm - 1,4 cm <sup>[20]</sup>	2,15 / 1,2 cm / M91 rosette: 1,41 cm <sup>[21]</sup>	2,15 / 1,2 cm / M91 rosette: 1,41 cm <sup>[22]</sup>
Chin scale width (curved - mounted troops)	2,65 / 1,5 cm / Rosette (oval): 2,7 x 3,2 cm <sup>[23]</sup>	2,65 / 1,5 cm / Rosette (oval): 2,7 x 3,2 cm	-	[2,5 / 1,5 cm / M91 rosette: 1,3 cm - 1,4 cm] <sup>[24]</sup>	2,5 / 1,5 cm / M91 rosette: 1,3 cm - 1,4 cm	2,65 / 1,5 cm / M91 rosette: 1,41 cm	2,65 / 1,5 cm / M91 rosette: 1,41 cm
Chinstrap width	-	-	1,8 cm / Rosette: Hooks (Eyelet on the chinstrap)	1,5 cm / M91 rosette: 1,3 cm - 1,4 cm	1,6 cm / M91 rosette: 1,3 cm - 1,4 cm	1,6 cm / M91 rosette: 1,41 cm <sup>[25]</sup>	1,6 cm / M91 rosette: 1,41 cm <sup>[26]</sup>
Front-Visor Height	6,8 - 7,1 cm (2 7/8" - 3") <sup>[27]</sup>	6,5 - 7,0 cm	5,0 cm <sup>[28]</sup>	5,0 cm <sup>[29]</sup>	4,1 cm <sup>[30]</sup>	4,1 cm	4,1 cm
Rear-Visor Height	6,8 - 7,1 cm (2 7/8" - 3") <sup>[31]</sup>	6,5 - 7,0 cm	5,0 cm <sup>[32]</sup>	5,0 cm	4,5 cm <sup>[33]</sup>	4,5 cm	4,5 cm
Cockades	Metal, 4,7 cm (2")	Metal, 4,7 cm	Metal, 4,7 cm	Metal, 4,7 cm	Metall, 4,7 cm <sup>[34]</sup>	Metal, 4,7 cm	Metal, 4,7 cm
Helmet Weight	500 - 700 g	500 - 700 g	440 - 550 g	440 - 550 g	360 - 445 g <sup>[35]</sup>	360 - 445 g	360 - 445 g

Saxon Officer Helmets	M1867 <sup>[36]</sup>	M1872 <sup>[37]</sup>	M???? (1894) <sup>[38]</sup>	M1895 <sup>[39]</sup>	M1915 -Missing Issue- <sup>[40]</sup>
Helmet Height	23,0 - 27,5 cm	23,0 - 27,5 cm	22,5 - 25,0 cm	23,0 - 26,0 cm	23,0 - 26,0 cm
Shell Height	11,0 - 13,5 cm <sup>[41]</sup>	11,0 - 13,5 cm	9,5 - 10,0 cm <sup>[42]</sup>	10,5 - 12,5 cm	10,5 - 12,5 cm
Spike Height	8,4 cm (2,5" + Spikebase) <sup>[43]</sup>	8,5 cm <sup>[44]</sup>	9,7 - 10,2 cm; Ball: 6,2 - 6,7 cm <sup>[45]</sup>	9,5 cm; Ball: 7,0 cm <sup>[46]</sup>	9,5 cm; Ball: 7,0 cm <sup>[47]</sup>
Wappen Height	12,0 cm	12,0 cm	12,0 cm; Generals: 13,5 cm	12,0 cm; Generals: 13,5 cm	12,0 cm; Generals: 13,5 cm
Chin scale width (flat - foot troops)	2,15 / 1,2 cm / Rosette: 2,6 cm <sup>[48]</sup>	2,15 / 1,2 cm / Rosette: 2,6 cm <sup>[49]</sup>	2,15 / 1,2 cm / Rosette: 2,6 cm	2,15 / 1,2 cm / Rosette: 2,6 cm	2,15 (Fake rosette) / 1,2 cm / M91 rosette: 1,41 cm <sup>[50]</sup>
Chin scale width (curved - mounted troops)	2,65 / 1,5 cm / Rosette (oval): 2,7 x 3,2 cm	2,65 / 1,5 cm / Rosette (oval): 2,7 x 3,2 cm	2,65 / 1,5 cm / Rosette (oval): 2,7 x 3,2 cm	2,65 / 1,5 cm / Rosette (oval): 2,7 x 3,2 cm	2,65 (Fake rosette) / 1,5 cm / M91 rosette: 1,41 cm
Chinstrap width	-	-	-	-	1,6 cm / M91 rosette: 1,41 cm <sup>[51]</sup>
Front-Visor Height	6,8 - 7,1 cm (2 7/8" - 3") <sup>[52]</sup>	6,5 - 7,0 cm	4,0 cm <sup>[53]</sup>	4,0 cm; Generals: 3,8 cm	4,0 cm; Generals: 3,8 cm
Rear-Visor Height	6,8 - 7,1 cm (2 7/8" - 3") <sup>[54]</sup>	6,5 - 7,0 cm	4,5 cm <sup>[55]</sup>	4,3 cm	4,3 cm
Cockades	Metal, 4,7 cm (2")	Metal, 4,7 cm	Metal, 4,7 cm <sup>[56]</sup>	Metal, 5,5 cm	Metal, 5,5 cm <sup>[57]</sup>
Helmet Weight	450 - 600 g	450 - 600 g	370 - 460 g	370 - 460 g	370 - 460 g

## LEGEND

VALUE IS BASED ON ORIGINAL SOURCES AND UNCHANGED TO PREVIOUS MODEL

VALUE UNCHANGED TO PREVIOUS MODEL AND BASED ON MEASUREMENTS

VALUE IS AN ASSUMPTION, BUT UNCHANGED TO PREVIOUS MODEL

VALUE IS BASED ON ORIGINAL SOURCES AND CHANGED TO PREVIOUS MODEL

VALUE CHANGED TO PREVIOUS MODEL, IT IS BASED ON MEASUREMENTS

VALUE CHANGED TO PREVIOUS MODEL, BUT IT IS AN ASSUMPTION

# Kommentare

## Saxony

- Sandy Michael Heinemann**  
1. Dezember 2022 um 12:24:03  
Source: „Vorschriften über die Bekleidung und Offiziers-Pferde-Equipage der Königlich Sächsischen Armee“ from 1867. Enlisted men helmets were similar.  
Dimensions converted according to the Law and Ordinance Gazette for the Kingdom of Saxony from 1869 (pages 150-152):  
1 feet = 28,319 cm  
1 inch = 2,3599 cm  
1 line = 1,9666 cm
- Sandy Michael Heinemann**  
27. Oktober 2022 um 18:47:01  
Source: „Vorschriften über die Bekleidung und Offiziers-Pferde-Equipage für das XII. Königl. Sächs. Armeekorps“ from July 1, 1872; Enlisted men helmets were similar.
- Sandy Michael Heinemann**  
4. Dezember 2022 um 20:30:12  
Only for enlisted men of the foot troops.  
The helmet M1887 was identical to the M1891, except for the chin strap attachment and the front visor.
- Sandy Michael Heinemann**  
3. Dezember 2022 um 10:04:34  
Only for enlisted men of the foot troops. From 1894, the M91 rosette was also introduced to the remaining units.  
Source: „Bekleidungsordnung II. Teil - Vorschriften für die Beschaffenheit und Unterscheidungszeichen der Bekleidung und Ausrüstung der Mannschaften aller Waffen sowie der Ausrüstung der Reitpferde der Kavallerie“ (S.D.V.455) - October 20, 1893.
- Sandy Michael Heinemann**  
9. Mai 2023 um 15:51:22  
Most likely almost identical to the clothing regulations (2. Part) of 1904.  
Source: Bekleidungsordnung (Bkl. O.) - 2. Teil - Vorschriften für die Beschaffenheit und Unterscheidungszeichen der Bekleidung und Ausrüstung der Mannschaften aller Waffen sowie der Ausrüstung der Reitpferde der Kavallerie (Bkl. O. II S. A.) - from July 12, 1897.
- Sandy Michael Heinemann**  
27. Januar 2023 um 13:16:44  
Source: Bekleidungsordnung - 2. Teil - Vorschriften für die Beschaffenheit und Unterscheidungszeichen der Bekleidung und Ausrüstung der Mannschaften aller Waffen sowie der Ausrüstung der Reitpferde der Kavallerie (S.D.V.32) - June 17, 1904.
- Sandy Michael Heinemann**  
5. Dezember 2022 um 06:14:55  
The clothing regulation from 1915 is missing from my library and unfortunately I couldn't find a copy to look it up. However, the dimensions should correspond to those from 1904.
- Sandy Michael Heinemann**  
19. November 2022 um 11:57:26  
Height of the complete leather helmet without metal parts: 16,5 - 18,9 cm (7 to 8") - This is the dimensions according to the clothing regulations for Saxony officers from 1867.  
To calculate the height of the helmet shell, I subtracted about 1 cm from the 7 cm long visors for the overlap at the helmet shell. In addition, a small reduction of 0.5 cm, because the visors were attached at a slight angle and that is why the full length can not be considered for the determination of the helmet height.  
This means that about 5.5 cm is subtracted from the helmet height for the visors, resulting in a leather shell height of 11 cm to 13.5 cm.
- Sandy Michael Heinemann**  
19. November 2022 um 11:57:31  
5,9 cm Spike + around 2,5 cm Spikebase
- Sandy Michael Heinemann**  
19. November 2022 um 20:27:49  
6 cm Spike + around 2,5 cm Spikebase
- Sandy Michael Heinemann**  
19. November 2022 um 12:15:59  
Spikebase disk diameter 8 cm, neck with 5 ventilationholes and a height of 2,2 cm. On top a smooth spike with a height of 6,3 cm (Ball: 4,9 cm). From inside a metal disk with diameter 10 cm for reinforcement.
- Sandy Michael Heinemann**  
1. Februar 2023 um 08:43:29  
Spikebase diameter: 7.6 cm; height of the spikebase: 2.5 cm; height of the spike: 5.8 cm, diameter at the widest point: 4.9 cm. Inside the helmet, under the spikebase, a black metal disc of 9.8 cm in diameter was prescribed to reinforce the helmet.  
Hair bush funnel is 11 cm high. Field artillery attachment without ventilation device.
- Sandy Michael Heinemann**  
26. März 2025 um 16:55:53  
Spikebase diameter: 7.6 cm; height of the spikebase: 2.5 cm; height of the spike: 6.0 cm, diameter at the widest point: 4.9 cm. Inside the helmet, under the spikebase, a black metal disc of 9.5 cm in diameter was prescribed to reinforce the helmet.  
Hair bush funnel is 11 cm high. Field artillery attachment without ventilation device.  
For Jäger zu Pferd (hunters on horseback) and Stabsordonnanzen (staff ordinances), the spike is 7.8 cm high (with attachment: 11.3 cm)
- Sandy Michael Heinemann**  
1. Februar 2023 um 13:07:14  
New spike with bayonet lock. Most likely with the same dimensions as in Prussia and Bavaria.
- Sandy Michael Heinemann**  
1. Februar 2023 um 08:57:19  
For shako, chapka and Hussar busby: 9.0 cm.  
For metal helmet: 12.7 cm.
- Sandy Michael Heinemann**  
26. März 2025 um 16:51:09  
For Jäger zu Pferd (hunters on horseback) and Stabsordonnanzen (staff ordinances), the star is 12.7 cm high.  
For shako, chapka and Hussar busby: 9.2 cm.  
For metal helmet: 13.0 cm.
- Sandy Michael Heinemann**  
27. Februar 2025 um 13:43:22  
Measured at the height of the hole for the rosette at the back and at the height of the hook/eye fastening at the front.
- Sandy Michael Heinemann**  
27. Februar 2025 um 13:23:44  
The chinscales on the M1887 had probably identical dimensions as on the M1891, but another connection system.
- Sandy Michael Heinemann**  
7. Mai 2023 um 14:41:57  
M91 rosette most likely as described in 1895.
- Sandy Michael Heinemann**  
26. März 2025 um 14:04:01  
M91 rosette with 1.3 cm to 1.4 cm diameter. The base of the rosette attached to the helmet has a diameter of 1.9 cm. The wedge-shaped nose directed obliquely to the back has a length of 4.0 mm. Attached to the helmet with a 4-fold splitted pin, the number of pins for twist protection was not yet regulated, but usually only 1 pin was used.
- Sandy Michael Heinemann**  
23. Februar 2025 um 15:33:36  
M91 rosette with a diameter of 1.41 cm. The base of the rosette attached to the helmet has a diameter of 2.0 cm. Still attached to the helmet with a 4-fold splitted pin, but now with 2 pins to prevent twisting. The wedge-shaped nose was only 4.5 mm long and 1.4 mm thick.  
The rearmost scale of the chinscales should be 2.0 mm thick for the foot troops and mounted troops. The metal eyelet on the chinstrap should also be 2.0 mm thick. The addition for the diameter of the bore in the chinscales and in the metal eyelets on the chinstrap, for the M91 rosettes, was 0.3 mm.
- Sandy Michael Heinemann**  
23. Februar 2025 um 15:11:03  
With the introduction of the M1915, chinscales were only worn by the officers to the helmet WITHOUT cover. The M91 rosettes are now attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
14. März 2025 um 14:59:33  
Probably similar to the officers' chinscales.
- Sandy Michael Heinemann**  
7. Mai 2023 um 13:40:50  
In 1894, the M91 rosette was also introduced to the remaining units. Until 1895, however, the curved chinscale was used for the Saxon foot artillery (see Saxon clothing regulations of 1893).
- Sandy Michael Heinemann**  
9. Juni 2025 um 06:55:55  
The addition to the cutout for the M91 rosettes was 0.4 mm in Saxony, while it was only 0.1 mm in the other German states.
- Sandy Michael Heinemann**  
22. Januar 2026 um 19:31:23  
With the introduction of the M1915, the chinstrap was also used for the officers to the helmet WITH cover. The enlisted men should wear the chinstrap throughout.  
The M91 rosettes have now been attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
19. November 2022 um 11:57:40  
Front visor rounded with a 1 cm wide metal trim around the lower edge of the front visor.
- Sandy Michael Heinemann**  
19. November 2022 um 12:16:08  
Front visor with strongly rounded corners and a pressed leather bulg on the lower edge of the front visor.
- Sandy Michael Heinemann**  
8. Januar 2023 um 12:33:21  
Front visor rounded with a 0,7 cm wide metal trim around the lower edge of the front visor.
- Sandy Michael Heinemann**  
1. Februar 2023 um 08:51:43  
Front visor with a 0.8 cm wide metal trim around the lower edge.  
For „Jäger zu Pferd“ and „Stabsordonnanzen“ a squared front visor of 4,7 cm width.
- Sandy Michael Heinemann**  
19. November 2022 um 11:57:47  
Rear visor with slightly rounded corners.
- Sandy Michael Heinemann**  
19. November 2022 um 12:16:13  
Rear visor with slightly rounded corners.
- Sandy Michael Heinemann**  
1. Februar 2023 um 08:53:03  
For „Jäger zu Pferd“ and „Stabsordonnanzen“ a little rounded rear visor with a width of 5.1 cm.
- Sandy Michael Heinemann**  
1. Februar 2023 um 08:47:26  
According to clothing regulations: 4.7 cm with smooth edge. Inside painted white and at the hole is a small triangular cutout for the nose of the M91 button.
- Sandy Michael Heinemann**  
5. Dezember 2022 um 06:20:28  
Source: „Dienstanzweisung für die Bekleidungsämter“, published in 1897. Since the Prussian M95 is pretty much identical to the Saxon M95, the weight can be assumed here as well.
- Sandy Michael Heinemann**  
1. Dezember 2022 um 12:24:03  
Source: „Vorschriften über die Bekleidung und Offiziers-Pferde-Equipage der Königlich Sächsischen Armee“ from 1867. Enlisted men helmets were similar.  
Dimensions converted according to the Law and Ordinance Gazette for the Kingdom of Saxony from 1869 (pages 150-152):  
1 feet = 28,319 cm  
1 inch = 2,3599 cm  
1 line = 1,9666 cm
- Sandy Michael Heinemann**  
27. Oktober 2022 um 18:47:01  
Source: „Vorschriften über die Bekleidung und Offiziers-Pferde-Equipage für das XII. Königl. Sächs. Armeekorps“ from July 1, 1872; Enlisted men helmets were similar.
- Sandy Michael Heinemann**  
5. Dezember 2022 um 09:58:25  
This is a bit special, because the values from the Clothing Regulation from 1894 are different from those from the clothing regulations for Saxon officers from 1872. As far as I know there was no official new helmet introduced for officers in this period, but the dimensions are significantly different.  
The question is, when this new helmet pattern for Saxony officers was introduced?
- Sandy Michael Heinemann**  
17. Dezember 2022 um 08:54:27  
Presumably identical with the Prussian M95 for officer's and with the Saxon clothing regulations for officers of 1904.  
Source: Bekleidungsordnung - 2. Teil - für die Offiziere, Sanitätsoffiziere und Beamten der königlich sächsischen Armee (S. O. Bkl. O.) - from July 12, 1897 and 1904
- Sandy Michael Heinemann**  
5. Dezember 2022 um 06:15:58  
The clothing regulation from 1915 is missing from my library and unfortunately I couldn't find a copy to look it up. However, the dimensions should correspond to those from 1904.
- Sandy Michael Heinemann**  
19. November 2022 um 11:57:26  
Height of the complete leather helmet without metal parts: 16,5 - 18,9 cm (7 to 8") - This is the dimensions according to the clothing regulations for Saxony officers from 1867.  
To calculate the height of the helmet shell, I subtracted about 1 cm from the 7 cm long visors for the overlap at the helmet shell. In addition, a small reduction of 0.5 cm, because the visors were attached at a slight angle and that is why the full length can not be considered for the determination of the helmet height.  
This means that about 5.5 cm is subtracted from the helmet height for the visors, resulting in a leather shell height of 11 cm to 13.5 cm.
- Sandy Michael Heinemann**  
19. November 2022 um 11:56:54  
9 cm in the middle of the shell at the cockades, and 10,0 cm at the front and backside of the shell.
- Sandy Michael Heinemann**  
19. November 2022 um 11:57:31  
5,9 cm Spike + around 2,5 cm Spikebase
- Sandy Michael Heinemann**  
19. November 2022 um 20:27:49  
6 cm Spike + around 2,5 cm Spikebase
- Sandy Michael Heinemann**  
19. November 2022 um 11:57:01  
Spikebase disk diameter 8 cm, neck with 2 ventilationholes and a height of 2,2 cm. On top a smooth spike with a height of 7,5 - 8,0 cm (Ball: 4,0 - 4,5 cm). For Generals a 6 times fluted spike.
- Sandy Michael Heinemann**  
12. Dezember 2022 um 13:02:26  
Spikebase disk-diameter: 8 cm, height: 2,5 cm; Spike height: 7 cm (Ball: 4,5 cm).
- Sandy Michael Heinemann**  
1. Februar 2023 um 13:07:18  
Removable spike!
- Sandy Michael Heinemann**  
27. Februar 2025 um 13:43:27  
Measured at the height of the hole for the rosette at the back and at the height of the hook/eye fastening at the front.
- Sandy Michael Heinemann**  
7. Mai 2023 um 11:41:26  
The officers' chin scales were attached to the helmet by means of a split pin rosette from about 1871 onwards.
- Sandy Michael Heinemann**  
7. Mai 2023 um 14:18:44  
With the introduction of the M1915, chinscales were only used by the officers to the helmet WITHOUT cover. However, the M91 rosettes on the officer's helmets were hidden almost invisibly by rosette covers integrated into the chinscales.  
The M91 rosettes are now attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
23. Februar 2025 um 14:55:17  
With the introduction of the M1915, the chinstrap was also used for the officers to the helmet WITH cover. The enlisted men should wear the chinstrap throughout.  
The M91 rosettes have now been attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
19. November 2022 um 11:57:40  
Front visor rounded with a 0,6 cm wide metal trim around the lower edge of the front visor.
- Sandy Michael Heinemann**  
19. November 2022 um 11:57:05  
Front visor rounded with a 0,6 cm wide metal trim around the lower edge of the front visor.
- Sandy Michael Heinemann**  
19. November 2022 um 11:57:47  
Rear visor with slightly rounded corners.
- Sandy Michael Heinemann**  
19. November 2022 um 11:57:10  
Back visor with slightly rounded corners.
- Sandy Michael Heinemann**  
3. Dezember 2022 um 19:12:56  
According to the clothing regulations for Saxon officer's from 1894: Officer's cockade was silver-colored with deepened green enamel ring; anything else like the cockade for enlisted men (which was still 4.7 cm in
- Sandy Michael Heinemann**  
1. Februar 2023 um 17:16:27  
New officer's cockade with large drilling for fastening to the M1891 rosette, which is now also prescribed for officers.

## Overview Bavarian Pickelhaube-Dimensions

Bavarian Enlisted Men Helmets	M1848 (Landwehr) <sup>11</sup>	M1856 (Gendarmerie) <sup>2</sup>	M1873 (Mounted Gendarmerie) <sup>3</sup>	M1878 (Heavy cavalry) <sup>4</sup>	M1886 <sup>5</sup>	M1887 <sup>6</sup>	M1891 [Values in square brackets since 1894] <sup>7</sup>	M1896 <sup>8</sup>	M1896 - Changes in 1904 <sup>9</sup>	M1914 <sup>10</sup>	M1916 -Missing Issue- <sup>11</sup>
Helmet Height	30,0 - 32,0 cm	30,0 - 32,0 cm	22,5 cm	22,5 cm	22,5 - 26,5 cm	22,5 - 26,5 cm	22,5 - 26,5 cm	21,0 - 21,3 cm	21,0 - 21,3 cm	21,0 - 21,3 cm	21,0 - 21,3 cm
Shell Height	15,8 cm (6,5")	15,8 cm (6,5")	12,1 cm	12,1 cm	10,5 - 12,5 cm	10,0 - 12,5 cm	10,0 - 12,5 cm	9,0 - 10,5 cm <sup>12</sup>	9,0 - 10,5 cm	9,0 - 10,5 cm	9,0 - 10,5 cm
Spike Height	13,8 cm <sup>13</sup>	13,8 cm	10,3 cm <sup>14</sup>	10,3 cm	11,0 cm <sup>15</sup>	11,0 cm	11,0 cm	8,7 cm; Mounted: 8,4 cm <sup>16</sup>	8,7 cm; Mounted: 8,4 cm	Mounted troops: 8,4 cm <sup>17</sup>	8,2 cm; Ball: 7,5 cm; Mounted troops: 8,4 cm <sup>18</sup>
Wappen Height	11 cm <sup>19</sup>	8,9 cm (3" 8") <sup>20</sup>	11,1 cm <sup>21</sup>	9,3 cm <sup>22</sup>	13,0 cm <sup>23</sup>	13,0 cm	13,0 cm	9,0 cm <sup>24</sup>	9,0 cm	Mounted troops: 11,0 cm <sup>25</sup>	9,0 cm
Chin scale width (flat, foot troops)	4,5 / 1,3 cm / Rosette: Lion head 4,5 cm	4,5 / 1,3 cm / Rosette: Lion head 4,5 cm	2,6 - 3,0 / 1,3 - 1,4 cm / Rosette: Lion head 4,5 cm	2,6 - 3,0 / 1,3 - 1,4 cm / Rosette: Lion head 4,5 cm	2,3 / 1,3 cm / Rosette: 2,5 cm <sup>26</sup>	2,0 / 1,2 cm / Rosette: Hooks (Eyelet on the chinscale) <sup>27</sup>	2,0 / 1,2 cm / M91 rosette: 1,3 cm <sup>28</sup>	2,0 / 1,2 cm / M91 rosette: 1,3 cm <sup>29</sup>	2,0 / 1,2 cm / M91 rosette: 1,4 cm <sup>30</sup>	2,0 / 1,2 cm / M91 rosette: 1,4 cm <sup>31</sup>	- <sup>32</sup>
Chin scale width (curved, mounted troops)	4,5 / 1,3 cm / Rosette: Lion head 4,5 cm	4,5 / 1,3 cm / Rosette: Lion head 4,5 cm	2,6 - 3,0 / 1,3 - 1,4 cm / Rosette: Lion head 4,5 cm	2,6 - 3,0 / 1,3 - 1,4 cm / Rosette: Lion head 4,5 cm	2,6 / 1,4 cm / Rosette: 2,5 cm	-	[2,4 / 1,5 cm / M91 rosette: 1,3 cm] <sup>33</sup>	2,4 / 1,4 cm / M91 rosette: 1,3 cm	2,4 / 1,4 cm / M91 rosette: 1,4 cm	2,4 / 1,4 cm / M91-Rosette: 1,4 cm	-
Chinstrap width	-	-	-	-	-	1,8 cm / Rosette: Hooks (Eyelet on the chinstrap)	1,5 cm / M91 rosette: 1,3 cm	1,6 cm / für M91 rosette: 1,3 cm	1,6 cm / M91 rosette: 1,4 cm	1,6 cm / M91 rosette: 1,4 cm <sup>34</sup>	1,6 cm / M91 rosette: 1,4 cm <sup>35</sup>
Front-Visor Height	7,9 cm (3" 3")	7,9 cm (3" 3")	5,7 cm	5,7 cm	3,8 cm <sup>36</sup>	3,8 cm	3,8 cm	4,1 cm	4,1 cm	4,1 cm	4,1 cm
Rear-Visor Height	6,3 cm (2" 7")	6,3 cm (2" 7")	4,3 cm	4,3 cm	4,3 cm	4,3 cm	4,3 cm	4,5 cm	4,5 cm	4,5 cm	4,5 cm
Cockades	Metall, 4,2 cm	Metall, 4,2 cm	Metall, 3,8 cm	Metall, 3,8 cm	Metal, 4,7 cm <sup>37</sup>	Metal, 4,7 cm	Metal, 4,7 cm	Metal, 4,8 cm <sup>38</sup>	Metal, 4,8 cm	Metal, 4,8 cm	Metal, 4,8 cm
Helmet Weight	560 g	560 g	480 g	480 g	490 g <sup>39</sup>	490 g	490 g	360 - 410 g <sup>40</sup>	360 - 410 g	360 - 410 g	360 - 410 g

Bavarian Officer Helmets	M1848 (Landwehr) <sup>41</sup>	M1856 (Gendarmerie) <sup>42</sup>	M1873 (Officers Gendarmerie) <sup>43</sup>	M1878 (Heavy cavalry) <sup>44</sup>	M1886 <sup>45</sup>	M1914 <sup>46</sup>	M1916 -Missing Issue- <sup>47</sup>
Helmet Height	30,0 - 32,0 cm	30,0 - 32,0 cm	22,5 cm	22,5 cm	23,0 - 25,0 cm	23,0 - 25,0 cm	23,0 - 25,0 cm
Shell Height	15,8 cm (6,5")	15,8 cm (6,5")	12,1 cm	12,1 cm	10,5 - 12,5 cm	10,5 - 12,5 cm	10,5 - 12,5 cm
Spike Height	13,8 cm <sup>48</sup>	13,8 cm	10,3 cm <sup>49</sup>	10,3 cm	11,0 cm <sup>50</sup>	11,0 cm	11,0 cm; Ball: 7,5 cm <sup>51</sup>
Wappen Height	11 cm <sup>52</sup>	8,9 cm (3" 8") <sup>53</sup>	11,1 cm <sup>54</sup>	9,3 cm <sup>55</sup>	15,0 cm <sup>56</sup>	11,0 cm <sup>57</sup>	11,0 cm
Chin scale width (flat, foot troops)	4,5 / 1,3 cm / Rosette: Lion head 4,5 cm	4,5 / 1,3 cm / Rosette: Lion head 4,5 cm	2,6 - 3,0 / 1,3 - 1,4 cm / Rosette: Lion head 4,5 cm	2,6 - 3,0 / 1,3 - 1,4 cm / Rosette: Lion head 4,5 cm	2,3 / 1,3 cm / Rosette: 2,5 cm <sup>58</sup>	-	-
Chin scale width (curved, mounted troops)	4,5 / 1,3 cm / Rosette: Lion head 4,5 cm	4,5 / 1,3 cm / Rosette: Lion head 4,5 cm	2,6 - 3,0 / 1,3 - 1,4 cm / Rosette: Lion head 4,5 cm	2,6 - 3,0 / 1,3 - 1,4 cm / Rosette: Lion head 4,5 cm	2,6 / 1,4 cm / Rosette: 2,5 cm	2,6 / 1,4 cm / Rosette: 2,5 cm <sup>59</sup>	2,6 (Fake rosette) / 1,4 cm / M91 rosette: 1,4 cm <sup>60</sup>
Chinstrap width	-	-	-	-	-	-	1,6 cm / M91 rosette: 1,4 cm <sup>61</sup>
Front-Visor Height	7,9 cm (3" 3")	7,9 cm (3" 3")	5,7 cm	5,7 cm	3,8 cm <sup>62</sup>	3,8 cm	3,8 cm
Rear-Visor Height	6,3 cm (2" 7")	6,3 cm (2" 7")	4,3 cm	4,3 cm	4,3 cm	4,3 cm	4,3 cm
Cockades	Metall, 4,2 cm	Metall, 4,2 cm	Metall, 4,2 cm	Metall, 4,2 cm	Metal, 5,5 cm	Metall, 5,5 cm	Metal, 5,5 cm <sup>63</sup>
Helmet Weight	560 g	560 g	480 g	480 g	490 g <sup>64</sup>	490 g	490 g

### LEGEND

VALUE IS BASED ON ORIGINAL SOURCES AND UNCHANGED TO PREVIOUS MODEL

VALUE UNCHANGED TO PREVIOUS MODEL AND BASED ON MEASUREMENTS

VALUE IS AN ASSUMPTION, BUT UNCHANGED TO PREVIOUS MODEL

VALUE IS BASED ON ORIGINAL SOURCES AND CHANGED TO PREVIOUS MODEL

VALUE CHANGED TO PREVIOUS MODEL, IT IS BASED ON MEASUREMENTS

VALUE CHANGED TO PREVIOUS MODEL, BUT IT IS AN ASSUMPTION

## Kommentare

### Bavarian

- Sandy Michael Heinemann**  
27. Februar 2025 um 12:04:48  
Helmet shell based on the caterpillar helmet M1845.  
Source: Die Helme der königlich bayerischen Armee 1806-1918  
Dimensions converted according to the Prussian Army Ordinance Sheet of 1871, page 359:  
1 foot = 29,2 cm  
1 inch = 2,432 cm  
1 line = 0.203 cm
- Sandy Michael Heinemann**  
10. Dezember 2022 um 12:18:25  
Source: Bavarian Army Ordinance Gazette of 1856.  
Dimensions converted according to the Prussian Army Ordinance Sheet of 1871, page 359:  
1 foot = 29,2 cm  
1 inch = 2,432 cm  
1 line = 0.203 cm
- Sandy Michael Heinemann**  
10. Dezember 2022 um 12:19:34  
Source: Bavarian Army Ordinance Gazette from 1873 and „Die Helme der königlich bayerischen Armee 1806-1918“.
- Sandy Michael Heinemann**  
19. November 2022 um 17:33:03  
The helmet M1878 was identical to the M1873 but with the actual royal cypher (now a crowned gothic „L“).  
Source: Bavarian Army Ordinance Gazette from 1878 and „Die Helme der königlich bayerischen Armee 1806-1918“.
- Sandy Michael Heinemann**  
3. Dezember 2022 um 08:48:58  
The M1886 helmets were quite identical for enlisted men and officers. Only the emblems were different sizes.
- Sandy Michael Heinemann**  
19. November 2022 um 17:21:37  
Only for enlisted men of the foot troops.  
Unfortunately, all editions of the Bavarian >>Bekleidungsordnung 2. Teil<< from 1888 seem to have been lost during the Second World War. However, the Bavarians retained the M1886 helmet with the M1886 cross-fitting, the fluted spike and the square front visor for the M1887. They only adopted the Prussian M/87 chinstrap.
- Sandy Michael Heinemann**  
19. November 2022 um 17:24:02  
Only for enlisted men of the foot troops. From 1894, the M91 rosette was also introduced to the remaining units. It was still the leather helmet M86, but with a new chin strap attachment.
- Sandy Michael Heinemann**  
9. Mai 2023 um 15:22:43  
Only for enlisted men of the foot troops. The enlisted men of the foot troops now wore the round plate fitting (the mounted troops kept the cross fitting (cloverleaf) until the end).  
Source: „Bekleidungsordnung - 2. Teil - Vorschriften für die Beschaffenheit und Unterscheidungszeichen der Bekleidung und Ausrüstung der Mannschaften“ from September 30, 1898.
- Sandy Michael Heinemann**  
19. November 2022 um 17:24:39  
Only for enlisted men of the foot troops. The enlisted men of the foot troops now wore the round plate fitting (the mounted troops kept the cross fitting (cloverleaf) until the end).  
Source: „Bekleidungsordnung - 2. Teil - Vorschriften für die Beschaffenheit und Unterscheidungszeichen der Bekleidung und Ausrüstung der Mannschaften“ from January 21, 1904.
- Sandy Michael Heinemann**  
16. November 2022 um 15:09:54  
Only for officers and enlisted men of the mounted troops.  
Sources: Bavarian „Armee-Verordnungsblatt“ from 1914 and „Die Organisation, Bekleidung, Ausrüstung und Bewaffung der Königlich Bayerischen Armee von 1806 bis 1906“ - Part I (Text).
- Sandy Michael Heinemann**  
3. Dezember 2022 um 19:34:34  
Sources: Bavarian Army Ordinance Sheet of 1916, „BayHStA MKr 5103“ (Helme, Bund XVI) - „Änderungen an der bayerischen Bekleidungsordnung für Mannschaften, II. Teil“ from 11. November 1915 - and „Die Organisation, Bekleidung, Ausrüstung und Bewaffung der Königlich Bayerischen Armee von 1806 bis 1906 - Part I“ - Textbook, page 851.
- Sandy Michael Heinemann**  
19. November 2022 um 11:47:55  
9 cm in the middle of the shell at the cockades, and 10.5 cm at the front and backside of the shell.
- Sandy Michael Heinemann**  
14. März 2025 um 17:57:40  
The spike is 9.3 cm high (3 inches, 10 lines) + fitting height of 4.5 cm (1 inch, 10 lines) = 13.8 cm.
- Sandy Michael Heinemann**  
14. März 2025 um 16:44:38  
Height: 3.3 cm + Spike: 7.0 cm; Hair bush funnel height: 9.0 cm.
- Sandy Michael Heinemann**  
23. Februar 2025 um 10:05:13  
Spikebase 2,5 cm + Spike 8,5 cm. The height on helmets M1886 was identical for officers and enlisted men.
- Sandy Michael Heinemann**  
20. November 2022 um 10:42:14  
Only the spike: 6.0 cm (incl. spike base: 8.7 cm or 8.4 for mounted units). Diameter of the round spike base: 7.6 cm. The diameter of the black metal disc inside the helmet was 9,5 cm.  
The enlisted men of the foot troops wore a round spike base, those of the mounted troops kept the cross fitting (clover).
- Sandy Michael Heinemann**  
21. Januar 2026 um 14:19:04  
The enlisted men of the mounted troops kept the cross fitting (cloverleaf).
- Sandy Michael Heinemann**  
23. Februar 2025 um 15:02:28  
New spike and ball top with bayonet attachment. In Bavaria the ball top for the artillery fittings only introduced with the M1916.  
The enlisted men of the field artillery and the Train now also wore the helmet M1896. The Chevaulegers and the heavy riders kept the cross fitting (cloverleaf).
- Sandy Michael Heinemann**  
19. November 2022 um 12:24:06  
Shield with the Bavarian coat of arms, crowned by the Bavarian royal crown. It is framed by a lorberrry and a palm branch.
- Sandy Michael Heinemann**  
19. November 2022 um 12:24:06  
Royal cypher (a crowned Gothic „M“).
- Sandy Michael Heinemann**  
26. Februar 2025 um 17:38:36  
Emblem similar to that of the later introduced emblem of the helmet M1886.
- Sandy Michael Heinemann**  
10. Dezember 2022 um 12:34:32  
Royal cypher (a crowned Gothic „L“).
- Sandy Michael Heinemann**  
19. November 2022 um 11:37:34  
Emblem height: 13 cm (with cross of the crown) x Width: 18 cm (Source: Die Organisation, Bekleidung, Ausrüstung und Bewaffung der Königlich Bayerischen Armee von 1806 bis 1906 - Part I).  
But the specified values for Bavarian emblems were only poorly met, since measurements of various M86 emblem showed large deviations:  
M86 emblem 1 (Enlisted men): 183mm X 130mm  
M86 emblem 2 (Enlisted men): 163mm X 125mm  
M86 emblem 3 (Enlisted men): 155mm X 120mm  
M86 emblem 4 (Officer): 170mm X 125mm  
M86 emblem 5 (Officer): 160mm X 133mm
- Sandy Michael Heinemann**  
19. November 2022 um 12:55:32  
9 cm height x 12 cm width. Measured with tape measure, following the curve of the plate:  
M96 Measurement 1: 9 x 12 cm  
M96 Measurement 2: 9 x 12 cm  
M96 Measurement 3: 9 x 12 cm  
M96 Measurement 4: 9 x 12 cm  
M16 Measurement 1: 9,5 x 12 cm
- Sandy Michael Heinemann**  
19. November 2022 um 13:28:20  
11 cm hoch und 14,5 cm breit. Mit Maßband gemessen, der gebogenen Kontur folgend:  
M1914 Offiziers Tschapka: 11 x 14,5 cm  
M1914 Offiziers-Helm: 11 x 14,5 cm
- Sandy Michael Heinemann**  
14. März 2025 um 04:55:51  
Measured at the height of the hole for the rosette at the back and at the height of the hook/eye fastening at the front.
- Sandy Michael Heinemann**  
27. Februar 2025 um 13:23:44  
The chinscales on the M1887 had probably identical dimensions as on the M1891, but another connection system to the helmet.
- Sandy Michael Heinemann**  
21. April 2023 um 07:17:49  
M91 rosette most likely as described in 1896.
- Sandy Michael Heinemann**  
26. März 2025 um 15:22:02  
M91 rosette with a diameter of 1.3 cm. The wedge-shaped nose directed obliquely to the rear has a length of 5.0 mm. Attached to the helmet with a 4-fold splitted pin. The number of pins for twist protection was not yet regulated, but usually only 1 pin was used.
- Sandy Michael Heinemann**  
22. Februar 2025 um 10:30:53  
M91 rosette with a diameter of 1.4 cm. The wedge-shaped nose directed obliquely back has a length of 5.0 mm and a thickness of 1.4 mm. Attached to the helmet with a 4-fold splitted pin, but now with 2 pins as a twist protection.  
The rear-most scale of the chinscales should be 2.4 mm thick for the foot troops and 3.8 mm for mounted troops. The metal eyelet on the chinstrap should be 1.6 mm thick. The addition for the diameter of the bore in the chinscales and in the metal eyelets on the chinstrap, for the M91 rosettes, was 0.1 mm.
- Sandy Michael Heinemann**  
21. Januar 2025 um 16:59:32  
The flat chinscales were only worn by the enlisted men of the foot artillery.
- Sandy Michael Heinemann**  
22. Januar 2026 um 19:32:56  
With the introduction of the M1916, chinscales were only worn by the officers to the helmet WITHOUT cover. The M91 rosettes have now been attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
26. März 2025 um 15:42:13  
In 1894, the M91 rosette was also introduced to the remaining units.
- Sandy Michael Heinemann**  
21. Januar 2026 um 17:02:17  
Except for the mounted troops and the foot artillery, the enlisted men now wore the chin strap throughout.
- Sandy Michael Heinemann**  
21. Januar 2026 um 14:36:25  
In general, with the introduction of the M1916, the enlisted men should only wear the chinstrap on the helmet. The officers should wear the chinstrap to the helmet WITH cover.  
The M91 rosettes are now attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
14. März 2025 um 10:53:37  
Front visor with a 0.8 cm wide metal trim around the lower edge.
- Sandy Michael Heinemann**  
27. Februar 2025 um 16:15:27  
Source: Die Helme der königlich bayerischen Armee 1806-1918
- Sandy Michael Heinemann**  
23. Februar 2025 um 14:23:41  
Cockades since 1897 with diam. 4.8 cm and a black painted backside.
- Sandy Michael Heinemann**  
2. März 2025 um 07:07:33  
Source: Die Helme der königlich bayerischen Armee 1806-1918.
- Sandy Michael Heinemann**  
19. November 2022 um 11:48:22  
Source: „Vorschrift über den Gebrauch der Infanterie-Ausrüstung M/96“ and „Die Helme der königlich bayerischen Armee 1806-1918“.
- Sandy Michael Heinemann**  
27. Februar 2025 um 12:05:16  
Helmet shell based on the caterpillar helmet M1845.  
Source: Die Helme der königlich bayerischen Armee 1806-1918  
Dimensions converted according to the Prussian Army Ordinance Sheet of 1871, page 359:  
1 foot = 29,2 cm  
1 inch = 2,432 cm  
1 line = 0.203 cm
- Sandy Michael Heinemann**  
10. Dezember 2022 um 12:30:17  
Source: Bavarian Army Ordinance Gazette of 1856.  
Dimensions converted according to the Prussian Army Ordinance Sheet of 1871, page 359:  
1 foot = 29,2 cm  
1 inch = 2,432 cm  
1 line = 0.203 cm
- Sandy Michael Heinemann**  
10. Dezember 2022 um 12:31:13  
Source: Bavarian Army Ordinance Gazette from 1873 and „Die Helme der königlich bayerischen Armee 1806-1918“.
- Sandy Michael Heinemann**  
19. November 2022 um 17:33:55  
The helmet M1878 was identical to the M1873 but with the actual royal cypher (now a crowned gothic „L“).  
Source: Bavarian Army Ordinance Gazette from 1878 and „Die Helme der königlich bayerischen Armee 1806-1918“.
- Sandy Michael Heinemann**  
3. Dezember 2022 um 08:53:04  
Source: „Bekleidungsvorschrift II. Teil - für Offiziere, Sanitätsoffiziere und Veterinäroffiziere des Königlich Bayerischen Heeres“ from 1904; But Bavarian officer helmets were unchanged between 1886 and 1914.
- Sandy Michael Heinemann**  
16. November 2022 um 15:09:54  
Only for officers and enlisted men of the mounted troops.  
Source: Bavarian „Armee-Verordnungsblatt“ from 1914 and „Die Organisation, Bekleidung, Ausrüstung und Bewaffung der Königlich Bayerischen Armee von 1806 bis 1906“ - Part I (Text).
- Sandy Michael Heinemann**  
3. Dezember 2022 um 19:34:25  
The helmet M1914 or M1936 was the same leather helmet, only the fittings were slightly changed.  
Sources: Bavarian „Armee-Verordnungsblatt“ from 1916; „Die Organisation, Bekleidung, Ausrüstung und Bewaffung der Königlich Bayerischen Armee von 1806 bis 1906“ - Part I (Text); „Änderungen an den Anzugsbestimmungen zur Bekleidungs Vorschrift für Offiziere, Sanitätsoffiziere und Veterinäroffiziere des königlich preussischen Heeres“ from April 1916 (BayHStA, MKr 5013, page 437 - Bekleidung und Ausrüstung der Offiziere 1915-1918 - Allgemeine Bekleidungs Vorschrift der Offiziere, Anzugsvorschriften bei verschiedenen Gelegenheiten, Bund IV) - Bavarian Capital Archive
- Sandy Michael Heinemann**  
14. März 2025 um 17:57:40  
The spike is 9.3 cm high (3 inches, 10 lines) + fitting height of 4.5 cm (1 inch, 10 lines) = 13.8 cm.
- Sandy Michael Heinemann**  
14. März 2025 um 16:43:42  
Height: 3.3 cm + Spike: 7.0 cm; Hair bush funnel height: 9.0 cm.
- Sandy Michael Heinemann**  
16. November 2022 um 15:08:17  
Spikebase 2,5 cm + Spike 8,5 cm
- Sandy Michael Heinemann**  
1. Februar 2023 um 13:07:27  
Removable spike!
- Sandy Michael Heinemann**  
19. November 2022 um 12:24:06  
Shield with the Bavarian coat of arms, crowned by the Bavarian royal crown. It is framed by a lorberrry and a palm branch.
- Sandy Michael Heinemann**  
10. Dezember 2022 um 12:30:51  
Royal cypher (a crowned Gothic „M“).
- Sandy Michael Heinemann**  
26. Februar 2025 um 17:39:54  
Emblem similar to that of the later introduced emblem of the helmet M1886.
- Sandy Michael Heinemann**  
19. November 2022 um 12:23:29  
Royal cypher (a crowned Gothic „L“).
- Sandy Michael Heinemann**  
16. November 2022 um 15:08:53  
Emblem height: 15 cm (with cross of the crown) x Width: 18 cm (Source: Die Organisation, Bekleidung, Ausrüstung und Bewaffung der Königlich Bayerischen Armee von 1806 bis 1906 - Part I).  
But the specified values for Bavarian emblems were only poorly met, since measurements of various M86 emblem showed large deviations:  
M86 emblem 1 (Enlisted men): 183mm X 130mm  
M86 emblem 2 (Enlisted men): 163mm X 125mm  
M86 emblem 3 (Enlisted men): 155mm X 120mm  
M86 emblem 4 (Officer): 170mm X 125mm  
M86 emblem 5 (Officer): 160mm X 133mm
- Sandy Michael Heinemann**  
19. November 2022 um 13:28:20  
11 cm high and 14.5 cm wide. Measured with tape measure, following the curved contour:  
M1914 officer's chapka: 11 x 14,5 cm  
M1914 officer's helmet: 11 x 14,5 cm
- Sandy Michael Heinemann**  
14. März 2025 um 04:55:43  
Measured at the height of the hole for the rosette at the back and at the height of the hook/eye fastening at the front.
- Sandy Michael Heinemann**  
21. Januar 2026 um 16:46:35  
Officers of all weapons wore only curved chinscales on their helmets.
- Sandy Michael Heinemann**  
21. Januar 2026 um 14:33:25  
With the M1916, the M91 rosette was also introduced for officers. Officers were now the only ones allowed to wear chinscales, but only with the helmet WITHOUT cover. However, with chinscales the M91 rosettes on the officer's helmets were almost invisible hidden by rosette covers integrated into the chinscales.  
The M91 rosettes are now attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
23. Februar 2025 um 14:55:55  
With the introduction of the M1916, the chinstrap was now also worn by the officers to the helmet WITH cover. The M91 rosettes are now attached to the helmet by means of 2 rectangular tabs.
- Sandy Michael Heinemann**  
14. März 2025 um 10:54:07  
Front visor for officers with a 0.6 cm wide metal trim around the lower edge.
- Sandy Michael Heinemann**  
1. Februar 2023 um 17:16:39  
New officer's cokade with large drilling for fastening to the M1891 rosette, which is now also prescribed for officers.
- Sandy Michael Heinemann**  
2. März 2025 um 07:07:45  
Source: Die Helme der königlich bayerischen Armee 1806-1918.