

Enigma Production at Konski & Krüger, Berlin N 4, Chausseestr. 117										
Heeres Enigma				Commercial Enigma, Model A27			Naval Enigma, Models M1 – M4			
Delivery Month / Year	Serial Number Range	Numbers Delivered	Total Delivery	Serial Number Range	Numbers Delivered	Total Delivery	Serial Number Range	Model	Numbers Delivered	Total Delivery
1927	A 366 – A 765	400	400	A 766 – A 865	100	100				
1928	A 866 – A 867	2								
1928	A 897 – A 906	10	412							
1929	A 868 – A896	29								
1929	A 907 – A 929	23	464							
1930	A 930 – A 934	5		A 935	1	101				
1930	A 936 – A 1052	117	586							
1931	A 1053 – A 1212	160	746	A 1213 – A 1252	40	141				
1932	A 1253 – A 1352	100	846							
1933	A 1353 – A 2074	722	1568							
1934	A 2075 – A 2787	713	2281				M 501 – M 901	M1	401	401
1935	A 2788 – A 3787	1000	3281				M 902 – M 961	M1a	60	461
1936	A 3788 – A 5525	1738	5019							
1937	A 5526 – A 7974	2449	7468				M 962 – M 1111	M1a	150	611
1938	A 7975 – A 10154	2180	9648				M 1112 – M 1421	M2	310	921
1939	A 10155 – A 10678	534	10172				M 1422 – M 2001	M2a, M3	580	1501
1940	A 10679 – A 11438	760	10932				M 2002 – M 2801	M3	800	2301
1941	A 11439 – A 13324	1886	12818				M 2802 – M 3812	M4	1011	3312
1942	A 13325 – A 15098	1774	14592				M 3813 – M 5262	M4	1450	4762
1943	A 15099 – A 17445	2347	16939				M 5263 – M 7500	M4	2238	7000
Jan-44	A 17446 – A 17635	190	17129				M 7501 – M 7600	M4	100	7100
Feb-44	A 17636 – A 17779	144	17273				M 7601 – M 7705	M4	105	7205
Mar-44	A 17780 – A 17999	220	17493				M 7706 – M 7855	M4	150	7355
Apr-44	A 18000 – A18199	200	17693				M 7856 – M 7975	M4	120	7475
May-44	A 18200 – A 18399	200	17893				M 7976 – M 8095	M4	120	7595
Jun-44	A 18400 – A 18611	212	18105				M 8096 – M 8220	M4	125	7720
Jul-44	A 18612 – A 18902	291	18396				M 8221 – M 8310	M4	90	7810
Aug-44	A 18903 – A19101	199	18595				M 8311 – M 8450	M4	140	7950
Sep-44	A 19102 – A 19326	225	18820				M 8451 – M 8570	M4	120	8070
Oct-44	A 19327 – A 19593	267	19087				M 8571 – M 8670	M4	100	8170
Nov-44	A 19594 – A 19906	313	19400				M 8671 – M 8700	M4	30	8200
Dec-44	A 19907 – A 20215	309	19709							
	Total number in 1944 = 2770						Total number in 1944 = 1200			
Jan-45	A 20216 – A 20396	181	19890				In addition Konski & Krüger in Geyer produced 300 machines on a separate serial number series. Their monthly deliveries from May to Sep. 1944 was: 75, 65, 10, 100 and 50. K&K's total output of Naval Enigma was 8500 machines.			
Feb-45	A 20397 – A 20471	75	19965							
Mar-45	A 20472 – A 20732	261	20226							
Apr-45	A 20733 – A 20812	80	20306							

## Enigma Production Details

This compilation of Enigma production numbers is based mainly on the information given in the TICOM report M-13 entitled "Manufacture of Enigma Machines by Heimsoeth and Rinke, Berlin," however the data has been verified and corroborated with other information as far as possible. The Heeres Enigma serial numbers are exact only until the end of 1940, after that date the serial numbers have been extrapolated from the available production data. It is believed that the dates refer to the delivery date and not the exact production date that in most cases will be earlier. In total 20,306 Heeres Enigma machines were produced at Konski & Krüger (K&K) in Berlin; in addition, the TICOM report says that another approximately 3000 machines were produced by a firm named Geyer in Nuremberg. There was indeed a factory in Nuremberg with the name of Christian Geyer, Nürnberg-Süd, Nimrodstr. 10 doing production work for the Wehrmacht with the manufacturing code ajs. In June 2008 I sent a letter to the firm Geyer AG then still listed with the same address at Nimrodstr. 10, Nuremberg to hear if they would know anything about the firm's war time production, but I never received a reply. However, in the documents of Heimsoeth & Rinke there are references to Konski & Krüger's factory at Geyer in the district of Erzgebirge in Saxony. I therefore believe this is the production site referred to as Geyer and not the firm Geyer AG in Nuremberg.

The claim that 3000 machines were produced by Geyer on a separate block of serial numbers is both vague and odd. The report does not state if it refers to Heeres Enigma or Naval Enigma and seeing that the Naval Enigma machines produced at Konski & Krüger's Geyer factory is entered separately in the listing one gets the strong feeling that the TICOM people have got this wrong. It is indeed not the first time there are errors to be found in these reports. As we shall see the Geyer Naval Enigma machines were produced with the manufacturing code gvz, but no Heeres Enigma machines have been found with such a manufacturing code. Either the 3000 machines refer to the 300 naval Enigma machines produced by K&K at Geyer or the TICOM people possibly confused Geyer with either Olympia Büromaschinenwerke in Erfurt or the Ertel-Werk für Feinmechanik in Munich. Both firms produced approximately 3000 machines, Olympia delivered 3450<sup>1</sup> Naval Enigma while Ertel-Werk delivered 3360 Heeres Enigma machines on a special block of A-series serial numbers. These numbers use a fixed 5-digit format where the low numbers are padded with leading zeros such as A 00371/bac/43/E.

The Naval Enigma serial numbers are exact until the end of 1943, after that date the serial numbers have been extrapolated in the same way as for the Heeres Enigma. In total K&K in Berlin produced 8200 Naval Enigma machines with another 300 machines produced at Geyer. Nothing is known about the serial numbers from the Geyer production apart from the fact that they were on a separate block of serial numbers. The manufacturing codes for the Enigma production at K&K was usually jla, the code allocated to Heimsoeth & Rinke (H&R). However, there is one clue for the serial numbers of these 300 Naval Enigma machines produced at Geyer in May to September 1944. A few naval machines that survived the end of the war have serial numbers in the range M 10028/gvz/44 to M 10297/gvz/44 and the code gvz is the manufacturing code for Konski & Krüger. The range from M 10001 to M 10300 would fit nicely with these 300 Geyer machines. Fifteen of these machines, with serial numbers from M 10119/gvz/44 to M 10300/gvz/44, are known to have been used in Norway during the war. If this is correct then there should be a gap in the serial numbers of produced machines from

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<sup>1</sup> This value is an estimate based on the Enigma orders Olympia received. The orders were for 300 machines in 1943, 2870 in 1944, and finally 800 in 1945, for a total of 3970 machines. However, they did not manage to fulfil the 1945 order before the war ended and it is estimated that they only delivered about 280 machines from this last order, which gives a total of 3450 machines delivered.

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approximately M 8700 to M 10000; and this is indeed the case, no machine in this range has so far been discovered.

The other production site for the Naval Enigma was the factory of Olympia Büromaschinenwerke A.-G. in Erfurt allocated the manufacturing code aye. This factory, which started its naval Enigma production in 1943, produced 300 machines in 1943, 2870 machines in 1944 and finally 800 in 1945; a total of 3970 machines. If all machines were delivered is not known, however it is likely that both the 1943 and 1944 productions were completed with perhaps only a partial delivery in 1945. Again, looking at the machines that have been discovered after the war we find machines in the serial number range M 15118/aye/43 to M 18428/aye/45. It therefore seems that that the serial number block allocated to Olympia Büromaschinenwerke started at M 15001. This indicates that less than half of the 1945 production figure was reached and that only about 300 machines or so were delivered.

With this information it is now possible to get a better estimate of the total number of Enigma machines produced. For the Heeres Enigma we have 20,306 machines produced by K&K in Berlin. In addition to this the Ertel-Werk für Feinmechanik in Munich produced and delivered another 3360 machines, which gives a total of 23,666 Heeres Enigma machines. For the Naval Enigma K&K in Berlin produced 8200 machines with another 300 machines produced at Geyer, totalling 8500 machines. With the 3450 machines produced at Olympia Büromaschinenwerke we get a total of 11,950 Naval Enigma machines. These figures are conservative, the uncertainty is due to the exact number of machines that were produced and delivered at the very end of the war. When the Ertel-Werk firm was visited by the US Army they still had 80 Heeres Enigma machines at their factory that were completed and accepted, and another 70 machines completed but not yet accepted. Most likely similar situations existed at the other Enigma production sites.

Adding it all up we get a total of 35,616 Stecker Enigma machines of all types delivered to the Wehrmacht. As we can see it is less than half of the often-quoted number of 100,000 Enigma machines.