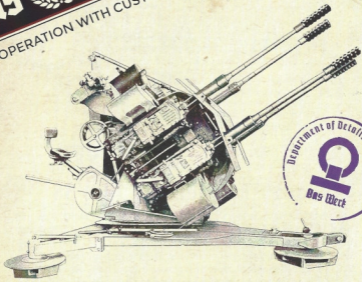


DW35004

**Das Werk**



IN COOPERATION WITH CUSTOMSCALE



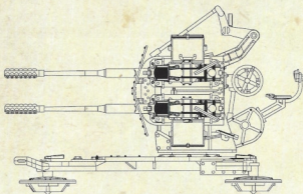
# 3cm Flakvierling 103/38

3cm Flugabwehrkanone

....., den ..... 19..

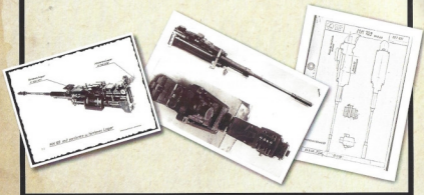
*Meyer*

Druck und Verlag des Reichsministeriums für Rüstung und Kriegsproduktion



## 3cm Flakvierling 103/38

The Mk103/38 was a late-war, four-gun installation of the Mk103 3cm gun from Rheinmetall Borsig. The Mk103 was an electrically fired, recoil and gas-operated automatic cannon designed to be used as a dual-purpose weapon against air and ground targets. The Mk103 had a rate of fire of 280 rounds per minute using high explosive (HE) rounds, and 420 rounds per minute when firing Armor Piercing rounds. The experimental Mk103/38 four-gun installation proved troublesome due to fact that the mount was originally designed for the smaller 2cm Flak 38, and heavy vibration took its toll on both the equipment and the crew aiming the weapon.



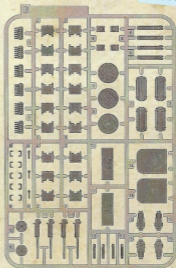
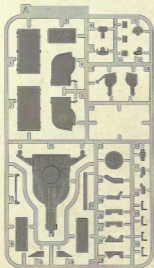


**Warning:** Choking hazard. Keep small bits and pieces away from toddlers. Use paint and glue in well-ventilated areas only, away from open flame. Wear protective gear while working with knives and while sanding. Protect your lungs from dust and fumes. Beware of sharp edges.

**Assembly:** read the instructions carefully before starting assembly. Dry-fit parts and subassemblies before installing them.

**Painting:** Always run a paint test bed parallel to the project. Test chemical reactions and products from different brands for compatibility before combining different products on your model. Use the test bed to experiment with weathering effects as well. A test bed can also help with adjusting airbrush settings before turning the airbrush on the model.

**Decals:** Soak decals in warm water until they become loosened from the carrier film. Consider using softeners and selfing solutions. Avoid trapping air bubbles under the decal. Seal decals with a clear coat after they have thoroughly dried.



USE CA GLUE



NO GLUE



REPEAT



DECALS



CAUTION

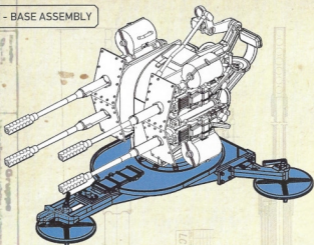


OPTION

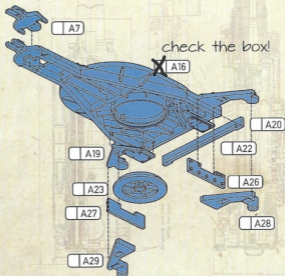


HOT RIVET

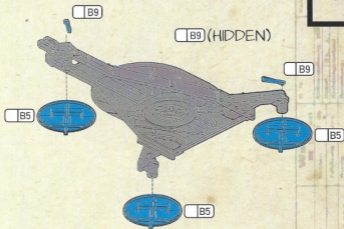
STEP 1 - BASE ASSEMBLY



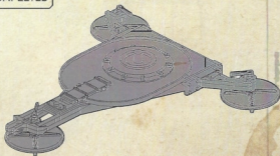
STEP 1.1



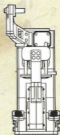
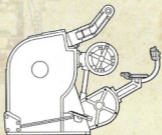
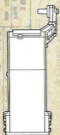
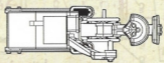
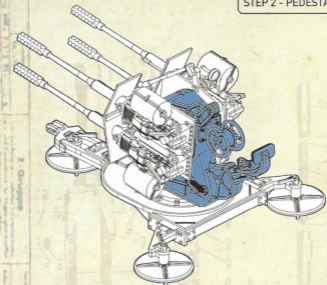
STEP 1.2



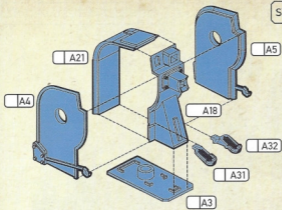
STEP 1 COMPLETED



STEP 2 - PEDESTAL



STEP 2.1



STEP 2.2



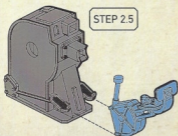
STEP 2.3



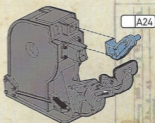
STEP 2.4



STEP 2.5

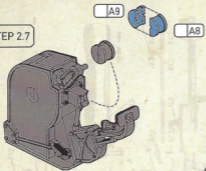


STEP 2.6

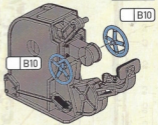


STEP 2 - PEDESTAL - CONT.

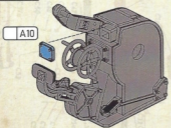
STEP 2.7



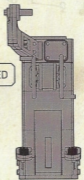
STEP 2.8



STEP 2.9



STEP 2 COMPLETED

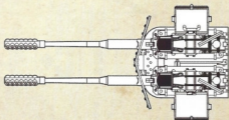
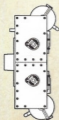
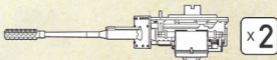
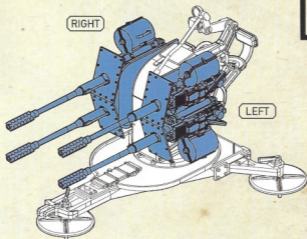


Name: Adresse: Telefon: Postfach: PLZ: Ort:		Datum: Uhrzeit: Unterschrift: Name: Funktion:	
Material: Zeichnung: Maßstab: Blatt: Stückzahl:		Zeichnungs-Nr.: 106.8103 Blatt 6 Stückzahl:	
LC		MK 103 Pz. und Fl.	

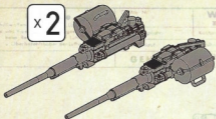


STEP 3 - Mk103 CANNON ASSEMBLIES

8



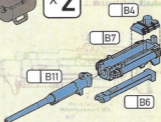
x2



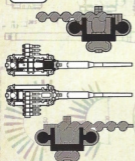
Waffe:

STEP 3.1

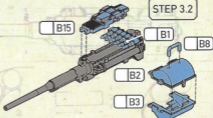
x2



ROUND PLACEMENT!



STEP 3.2



ROUND PLACEMENT!

STEP 3.3



A33 X2

A33 X2

STEP 3.4



REMOVE

KEEP



STEP 3.5

(RIGHT)

(LEFT)

B14

STEP 3.6

B14

x2

STEP 3.7

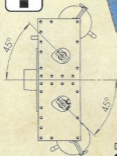
B12



STEP 3.8

B13

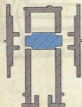
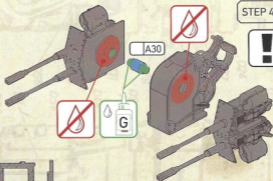
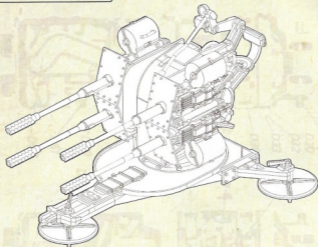
B13



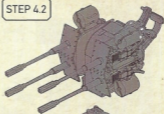
1mm  
DRILL  
OPTION

<p>1:25</p> <p>20</p>	<p>X16B103 Blatt 6</p> <p>MK 103 Pz. und Fl.</p>
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STEP 4 - FINAL ASSEMBLY



STEP 4.2

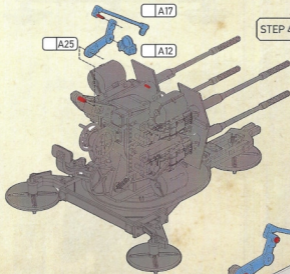


A17

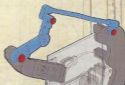
STEP 4.3

A25

A12



HOT RIVET



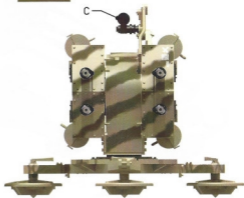
	COLOR	RAL	Tamiya	Mr Hobby H-series	AMMO of MIG	Vallejo	Humbrol	Mission Models
C	Black	9011	XF1	H012	46	70.950	33	MMP-047
D	Leather	/	XF10	H463	133	70.871	62	MMP-002
H	Gun Metal	/	X10	H028	45	70.863	63	MMM-001
I	Silver	9006	X11	H008	195	70.997	11	MMC-001
J	Dark Yellow	7028	XF60	H403	902	70.821	83	MMM-011
K	Olive Green	6003	XF58	H405	1	70.890	86	MMP-009
L	Satin Black	8017	X18	/	32	/	065	/
O	Dunkelbraun Nr.45	7017	XF10+XF68 80/20%	H037	7	70.875	251	MMP-060
P	Resedigrün	6011	/	/	3	70.857	88	MMP-018
Q	Schokoladenbraun	8017	/	H406	15	70.872	98	/



Dunkelgelb RAL7028



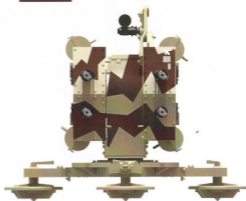
OliveGrün RAL6003



Dunkelgelb RAL7028

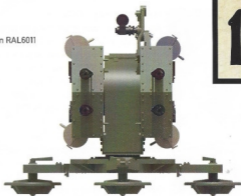


Schokoladenbraun RAL8017

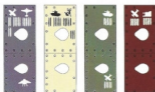
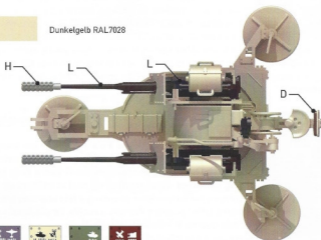




Resedagrün RAL6011



Dunkelgelb RAL7028



An assortment of decals are provided to allow you to depict a wide variety of fictitious examples of this experimental weapon. Few reference photos exist.

## 3cm Flak Project Team



Harald Bauske ~ CEO

As the owner and managing director of Modellbau König GmbH & Co KG! Harald assembled a team of creative professionals and provided the budgets to pursue one of his dreams: releasing a plastic model kit under his own brand. Now, in late 2018, his dream has come true. Back in 1999, when he made the first steps with his company, he did not imagine that this dream would ever become a reality.



Michael Baldeweg ~ Owner of CUSTOMSCALE

Modeling as a hobby has fascinated Michael since childhood. His earliest memories include building a ship together with his father. The "modeling bug" really took hold as he discovered his talent for painting lexan car bodies, which expanded his abilities in scale modeling. Then, as an ambitious scale modeler, he entered several competitions, like the Tamiya Cup, and scored several Gold medals. In 2003 he became particularly interested in resin models. The dynamics of his personality soon led to the formation of CUSTOMSCALE, a brand specializing in very interesting and unique vehicles. After seeing several of his catalog items released in plastic by other brands, he decided to partner with others to release his own designs directly to plastic. The co-operation of DAS WERK and CUSTOMSCALE is the result of this decision.



Pete Hamann ~ 3D designer, CAD modeler, Research, Graphic Design

Born and raised in California, Pete worked on his design chops as an aerospace designer in Seattle, Washington before packing up and relocating to Spain. He developed a deep interest in flying machines while growing up next to military air bases in Southern California. After spending a few years as a machinist, making other people's designs a reality, he obtained a bachelor of arts degree in industrial design.

Pete can be reached at [Peterjhamann@gmail.com](mailto:Peterjhamann@gmail.com)

A DAS WERK & Custom Scale production  
2019

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Nordenhamer Str. 177  
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