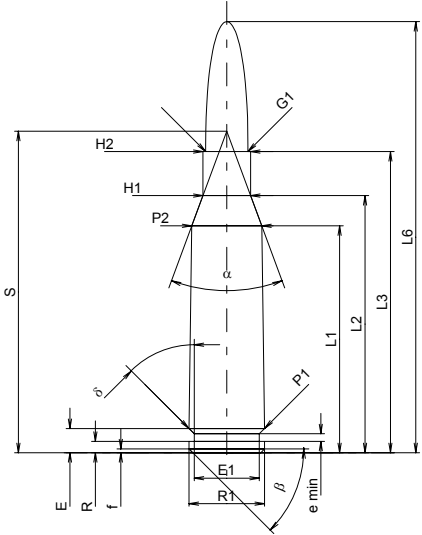
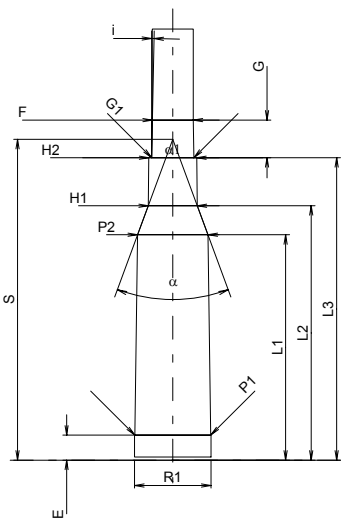


C.I.P.	5,45 x 39	TAB.	I
		Date	92-07-23
		Revision	02-05-15
Country of Origin: SU			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ * = 30.00 -0.20 L2 ¹⁾ * = 34.00 -0.20 L3 ¹⁾ = 39.82 L4 = L5 = L6 = 57.00 Case Head R = 1.50 R1 = 10.00 R3 = E = 3.20 E1 = 8.60 e min = 1.00 delta = 45° f = 0.50 beta = 45° Powder Chamber P1 = 10.00 P2 ¹⁾ * = 9.25 -0.20 Junction Cone alpha = 40°36'32" S = 42.50 r1 min = r2 = Collar H1 * = 6.29 H2 ¹⁾ = 6.29 Projectile G1 ¹⁾ = 5.60 G2 = F = L3+G ¹⁾ = 44.79 Pressures (Energies) Method Transducer Pmax = 3800 bar PK = 4370 bar PE = 4750 bar M = 17.50 EE = 1505 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	Lengths L1 * = 29.80 L2 * = 33.65 L3 ¹⁾ = 40.00 Breech R = 1.50 R1 = 10.10 R2 = R3 = r = Powder Chamber E = 3.30 P1 ¹⁾ = 10.05 P2 * = 9.30 Junction Cone alpha ¹⁾ = 40°29'27" S = 42.41 r1 max = r2 = Collar H1 * = 6.46 H2 ¹⁾ = 6.32 Commencement of Rifling G1 ¹⁾ * = 5.60 G ¹⁾ * = 4.97 alpha l = 180° h = s = i ¹⁾ = 1°09'10" w = Barrel F ¹⁾ * = 5.40 Z ¹⁾ = 5.60 Grooves b = 2.60 N = 4 u = 255.00 Q = 23.99 mm²	
	Notes: 1) Check for safety reasons * Basic dimensions		
Scale 1:1			
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.

5,6 x 39

Country of Origin: RU

TAB.

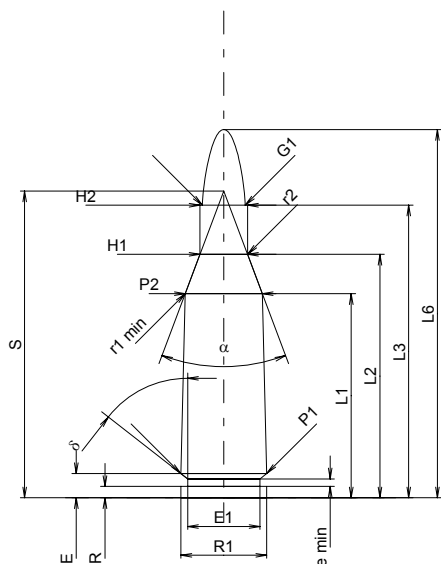
I

Date

00-02-15

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	27.00	-0.20
L2 ¹⁾ *	=	32.20	-0.20
L3 ¹⁾	=	38.70	
L4	=		
L5	=		
L6	=	48.70	

Case Head

R	=	1.50	
R1	=	11.35	
R3	=		
E	=	3.20	
E1	=	9.56	
e min	=	1.00	
δ	=	51°58'13"	
f	=		
β	=		

Powder Chamber

P1	=	11.35	
P2 ¹⁾ *	=	10.20	-0.20

Junction Cone

α	=	41°12'31"	
S	=	40.57	
r1 min	=	0.50	
r2	=	2.00	

Collar

H1 *	=	6.29	
H2 ¹⁾	=	6.29	

Projectile

G1 ¹⁾	=	5.67	
G2	=		
F	=		
L3+G ¹⁾	=	49.01	

Pressures (Energies)

Method Transducer

Pmax	=	3500 bar	
PK	=	4025 bar	
PE	=	4375 bar	
M	=	17.50	
EE	=	2100 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	26.88	
L2 *	=	32.22	
L3 ¹⁾	=	38.70	

Breech

R	=	1.50	
R1	=	11.40	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.50	
P1 ¹⁾	=	11.34	
P2 *	=	10.24	

Junction Cone

α ¹⁾	=	39°55'55"	
S	=	40.97	
r1 max	=	0.50	
r2	=	2.50	

Collar

H1 *	=	6.39	
H2 ¹⁾	=	6.29	

Commencement of Rifling

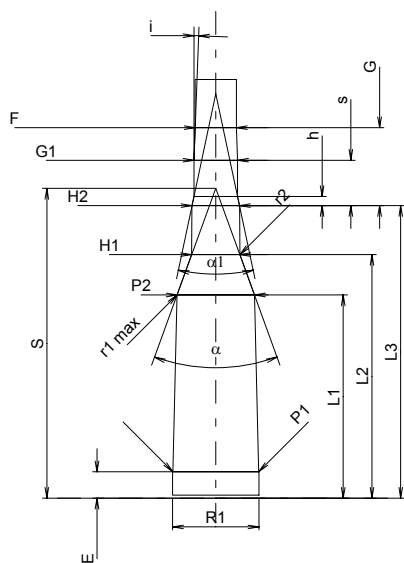
G1 ¹⁾ *	=	5.78	
G ¹⁾ *	=	10.31	
α1	=	23°59'38"	
h	=	1.20	
s *	=	6.00	
i ¹⁾	=	2°11'33"	
w	=		

Barrel

F ¹⁾ *	=	5.45	
Z ¹⁾	=	5.59	

Grooves

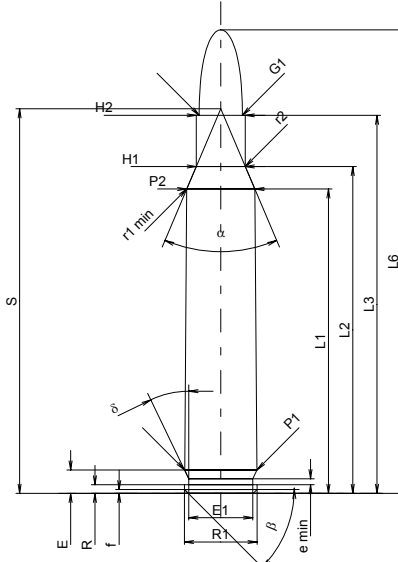
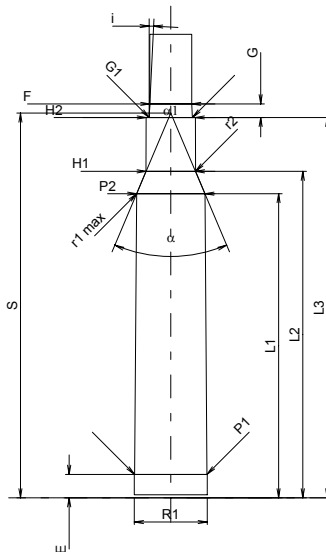
b	=	2.00	
N	=	6	
u	=	420.00	
Q	=	24.19	mm ²



Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	5,6 x 50 Mag. Country of Origin: DE	TAB.	I
		Date	84-06-14
		Revision	02-05-15
	CARTRIDGE MAXI Lengths L1 ¹⁾ * = 40.26 -0.20 L2 ¹⁾ * = 43.23 -0.20 L3 ¹⁾ = 50.00 L4 = L5 = L6 = 61.30 Case Head R = 1.14 R1 = 9.60 R3 = E = 3.10 E1 = 8.44 e min = 0.80 δ = 25°45' f = 0.50 β = 45° Powder Chamber P1 = 9.56 P2 ¹⁾ * = 9.00 -0.20 Junction Cone α = 45°58'38" S = 50.87 r1 min = 0.50 r2 = 0.50 Collar H1 [*] = 6.48 H2 ¹⁾ = 6.48 Projectile G1 ¹⁾ = 5.70 G2 = F = L3+G ¹⁾ = 51.80 Pressures (Energies) Method Transducer Pmax = 3800 bar PK = 4370 bar PE = 4750 bar M = 25.00 EE = 1915 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	CHAMBER MINI Lengths L1 [*] = 40.22 L2 [*] = 43.17 L3 ¹⁾ = 50.30 Breech R = 1.14 R1 = 9.64 R2 = R3 = r = Powder Chamber E = 3.10 P1 ¹⁾ = 9.59 P2 [*] = 9.03 Junction Cone α ¹⁾ = 45°55'40" S = 50.88 r1 max = 0.50 r2 = 0.50 Collar H1 [*] = 6.53 H2 ¹⁾ = 6.51 Commencement of Rifling G1 ¹⁾ * = 5.74 G ¹⁾ * = 1.80 α 1 = 180° h = s = i ¹⁾ = 2°51'45" w = Barrel F ¹⁾ * = 5.56 Z ¹⁾ = 5.69 Grooves b = 2.00 N = 6 u = 350.00 Q = 25.08 mm ²	
			
Scale 1:1	Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.	Notes: 1) Check for safety reasons * Basic dimensions	

C.I.P.

5,6 x 57

Country of Origin: DE

TAB.

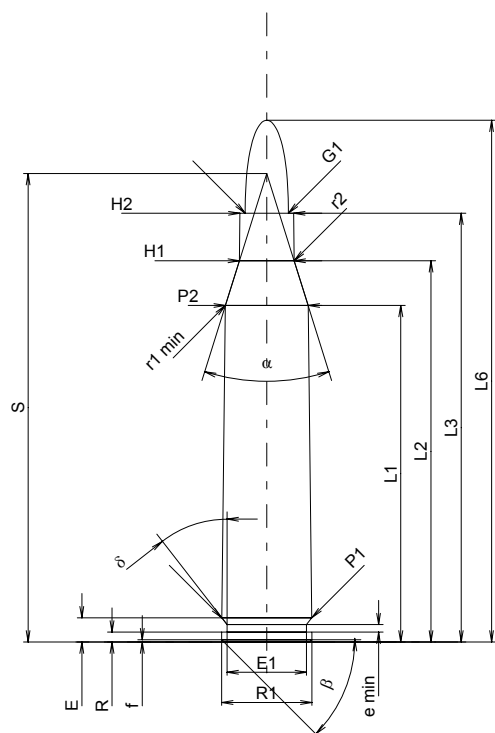
I

Date

84-06-14

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	44.51	-0.20
L2 ¹⁾ *	=	50.41	-0.20
L3 ¹⁾	=	56.70	
L4	=		
L5	=		
L6	=	69.00	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.20	
E1	=	10.50	
e min	=	1.00	
δ	=	37°52'48"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.90	
P2 ¹⁾ *	=	10.94	-0.20

Junction Cone

α	=	34°49'05"	
S	=	61.95	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.24	
H2 ¹⁾	=	7.10	

Projectile

G1 ¹⁾	=	5.70	
G2	=		
F	=		
L3+G ¹⁾	=	67.50	

Pressures (Energies)

Method Transducer

Pmax	=	4400 bar	
PK	=	5060 bar	
PE	=	5500 bar	
M	=	25.00	
EE	=	2725 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	44.46	
L2 *	=	50.38	
L3 ¹⁾	=	57.00	

Breech

R	=	1.30	
R1	=	12.00	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	11.93	
P2 *	=	10.97	

Junction Cone

α ¹⁾	=	34°47'45"	
S	=	61.96	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.26	
H2 ¹⁾	=	7.12	

Commencement of Rifling

G1 ¹⁾ *	=	5.72	
G ¹⁾ *	=	10.80	
α1	=	180°	
h	=		
s	=		
i ¹⁾	=	0°28'39"	
w	=		

Barrel

F ¹⁾ *	=	5.54	
Z ¹⁾	=	5.69	

Grooves

b	=	2.00	
N	=	6	
u	=	250.00	
Q	=	25.03	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	5,6 x 61 SE.v.H. Country of Origin: DE	TAB.	I
		Date	84-06-14
		Revision	02-05-15
	CARTRIDGE MAXI Lengths L1 ¹⁾ * = 44.01 -0.20 L2 ¹⁾ * = 53.06 -0.20 L3 ¹⁾ = 61.00 L4 = L5 = L6 = 80.00 Case Head R = 1.50 R1 = 12.20 R3 = E = 3.00 E1 = 10.50 e min = 1.00 δ = 59°31'48" f = 0.30 β = 45° Powder Chamber P1 = 12.20 P2 ¹⁾ * = 11.60 -0.20 Junction Cone α = 30°00'02" S = 65.66 r1 min = 0.50 r2 = 0.50 Collar H1* = 6.75 H2 ¹⁾ = 6.68 Projectile G1 ¹⁾ = 5.79 G2 = F = L3+G ¹⁾ = 75.50 Pressures (Energies) Method Transducer Pmax = 4550 bar PK = 5233 bar PE = 5690 bar M = 25.00 EE = 3005 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =		CHAMBER MINI Lengths L1* = 43.96 L2* = 53.01 L3 ¹⁾ = 61.30 Breech R = 1.50 R1 = 12.25 R2 = R3 = r = Powder Chamber E = 3.00 P1 ¹⁾ = 12.23 P2* = 11.63 Junction Cone α ¹⁾ = 30°00'03" S = 65.66 r1 max = 0.50 r2 = 0.50 Collar H1* = 6.78 H2 ¹⁾ = 6.71 Commencement of Rifling G1 ¹⁾ * = 5.87 G ¹⁾ * = 14.50 α1 = 180° h = s = i ¹⁾ = 0°34'22" w = Barrel F ¹⁾ * = 5.58 Z ¹⁾ = 5.76 Grooves b = 2.00 N = 6 u = 220.00 Q = 25.56 mm ²
Scale 1:1 Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.	Notes: 1) Check for safety reasons * Basic dimensions		

C.I.P.

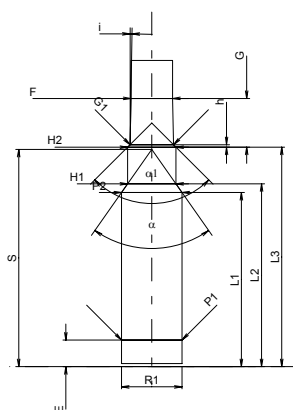
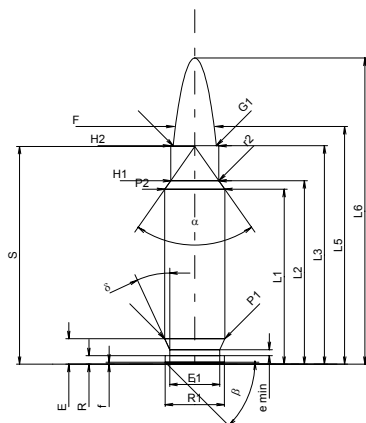
5,7 x 28

Country of Origin: BE

TAB. I

Date 93-10-19

Revision 02-05-15



Scale 1:1

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	23.15	-0.20
L2 ¹⁾ *	=	24.27	-0.20
L3 ¹⁾	=	28.90	
L4	=		
L5	=	31.44	
L6	=	40.50	

Case Head

R	=	1.14	
R1	=	7.80	
R3	=		
E	=	3.38	
E1	=	6.60	
e min	=	0.79	
delta	=	25°	
f	=	0.28	
beta	=	45°	

Powder Chamber

P1	=	7.95	
P2 ¹⁾ *	=	7.95	-0.20

Junction Cone

alpha	=	70°03'10"	
S	=	28.82	
r1 min	=		
r2	=	1.00	

Collar

H1 *	=	6.38	
H2 ¹⁾	=	6.38	

Projectile

G1 ¹⁾	=	5.70	
G2	=	5.26	
F	=		
L3+G ¹⁾	=	35.35	

Pressures (Energies)

Method Transducer

Pmax	=	3450 bar	
PK	=	3968 bar	
PE	=	4313 bar	
M	=	12.00	
EE	=	1500 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	23.03	
L2 *	=	24.18	
L3 ¹⁾	=	29.03	

Breech

R	=	3.02	
R1	=	8.00	
R2	=	2.90	
R3	=		
r	=		

Powder Chamber

E	=	3.52	
P1 ¹⁾	=	8.00	
P2 *	=	8.00	

Junction Cone

alpha ¹⁾	=	69°59'02"	
S	=	28.74	
r1 max	=		
r2	=		

Collar

H1 *	=	6.39	
H2 ¹⁾	=	6.39	

Commencement of Rifling

G1 ¹⁾ *	=	5.75	
G ¹⁾ *	=	6.45	
alpha l	=	90°	
h *	=	0.32	
s	=		
i ¹⁾	=	1°01'41"	
w	=		

Barrel

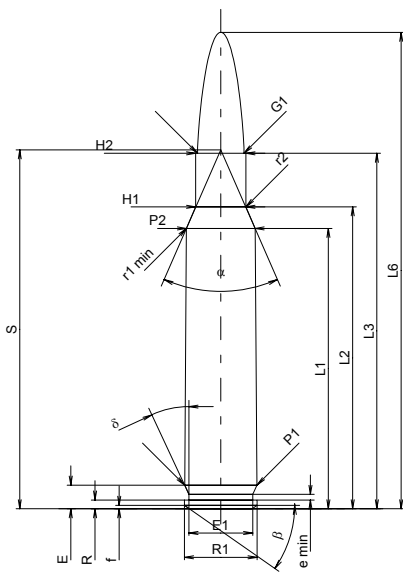
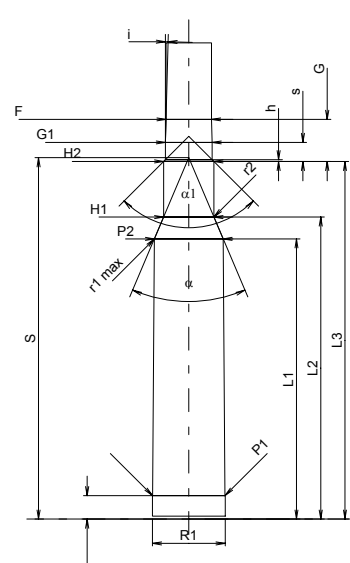
F ¹⁾ *	=	5.53	
Z ¹⁾	=	5.62	

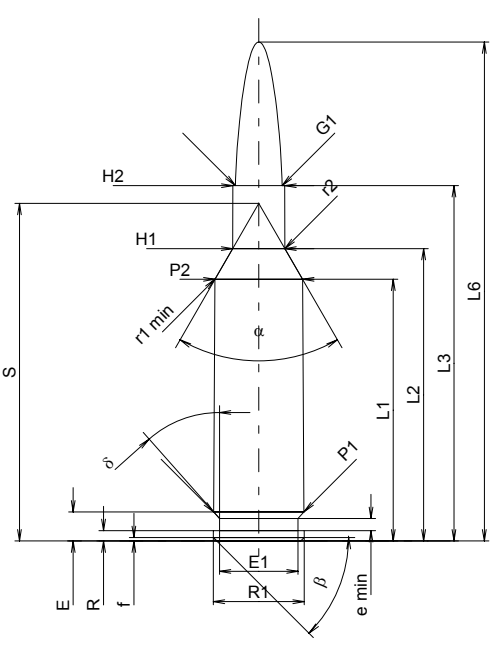
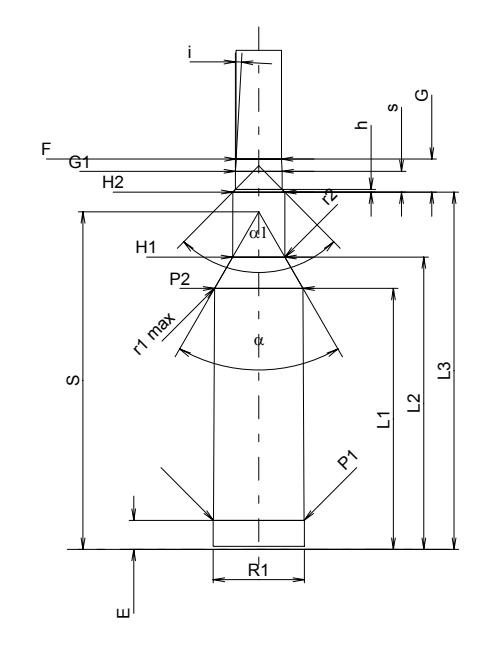
Grooves

b	=	1.63	
N	=	8	
u	=	228.60	
Q	=	24.61	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.	6 x 47 ATZL	TAB.	I
		Date	97-11-05
		Revision	02-05-15
Country of Origin: AT			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ^{1)*} = 37.08 -0.20 L2 ^{1)*} = 39.93 -0.20 L3 ¹⁾ = 47.00 L4 = L5 = L6 = 63.00 Case Head R = 1.14 R1 = 9.60 R3 = E = 3.11 E1 = 8.43 e min = 0.76 δ = 25° f = 0.45 β = 35° Powder Chamber P1 = 9.56 P2 ^{1)*} = 9.07 -0.20 Junction Cone α [*] = 46°00'29" S [*] = 47.46 r1 min = 0.64 r2 = 2.54 Collar H1 [*] = 6.65 H2 ¹⁾ = 6.65 Projectile G1 ¹⁾ = 6.17 G2 = F = L3+G ¹⁾ = 52.57 Pressures (Energies) Method Transducer Pmax = 4050 bar PK = 4660 bar PE = 5060 bar M = 25.00 EE = 2100 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	Lengths L1 [*] = 37.07 L2 [*] = 39.95 L3 ¹⁾ = 47.30 Breech R = R1 = 9.63 R2 = R3 = r = Powder Chamber E = 3.11 P1 ¹⁾ = 9.59 P2 [*] = 9.09 Junction Cone α ¹⁾ = 45°54'57" S = 47.80 r1 max = 0.64 r2 = 3.18 Collar H1 [*] = 6.65 H2 ¹⁾ = 6.65 Commencement of Rifling G1 ^{1)*} = 6.18 G ^{1)*} = 5.57 α1 = 90° h = 0.24 s [*] = 2.52 i ¹⁾ = 1°30'09" w = Barrel F ^{1)*} = 6.02 Z ¹⁾ = 6.17 Grooves b = 2.29 N = 6 u = 356.00 Q = 29.52 mm ²	
			
Scale 1:1			
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		Notes: 1) Check for safety reasons * Basic dimensions	

C.I.P.	6 x 47 SM	TAB.	I
		Date	02-01-22
		Revision	02-05-15
Country of Origin: CH			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ = 34.61 -0.20 L2 ¹⁾ = 38.67 -0.20 L3 ¹⁾ = 47.00 L4 = L5 = L6 = 66.00 Case Head R = 1.37 R1 = 12.01 R3 = E = 3.85 E1 = 10.39 e min = 1.60 δ = 34° f = 0.45 β = 45° Powder Chamber P1 = 11.95 P2 ¹⁾ * = 11.59 -0.20 Junction Cone α [*] = 60° S [*] = 44.65 r1 min = 1.50 r2 = 1.50 Collar H1 [*] = 6.90 H2 ¹⁾ = 6.87 Projectile G1 ¹⁾ = 6.19 G2 = F = L3+G ¹⁾ = 51.36 Pressures (Energies) Method Transducer Pmax = 3900 bar PK = 4485 bar PE = 4875 bar M = 25.00 EE = 2730 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	Lengths L1 = 34.51 L2 = 38.66 L3 ¹⁾ = 47.26 Breech R = R1 = 12.04 R2 = R3 = r = Powder Chamber E = 3.85 P1 ¹⁾ = 11.99 P2 [*] = 11.70 Junction Cone α ¹⁾ * = 60° S [*] = 44.64 r1 max = 0.64 r2 = 1.91 Collar H1 [*] = 6.91 H2 ¹⁾ = 6.88 Commencement of Rifling G1 ¹⁾ * = 6.19 G ¹⁾ = 4.36 α1 = 89°10'32" h = 0.35 s [*] = 2.74 i ¹⁾ * = 3°10'48" w = Barrel F ¹⁾ * = 6.01 Z ¹⁾ = 6.17 Grooves b = 2.15 N = 6 u = 205.00 Q = 29.42 mm ²	
	Notes: 1) Check for safety reasons * Basic dimensions		
Scale 1:1			
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.

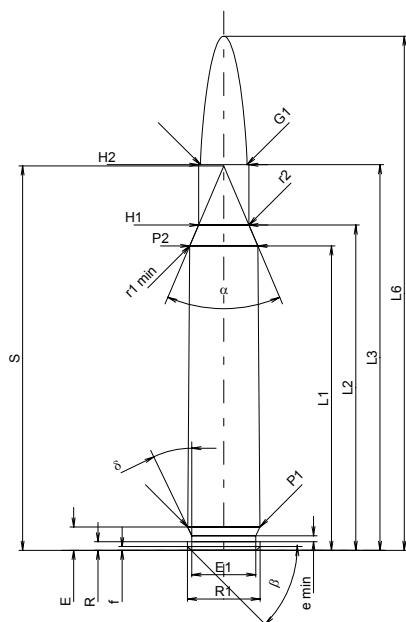
6 x 51 ATZL

TAB. I

Date 97-11-05

Revision 02-05-15

Country of Origin: AT



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	40.27	-0.20
L2 ¹⁾ *	=	43.03	-0.20
L3 ¹⁾	=	51.00	
L4	=		
L5	=		
L6	=	68.00	

Case Head

R	=	1.14	
R1	=	9.60	
R3	=		
E	=	3.10	
E1	=	8.44	
e min	=	0.80	
delta	=	25°46'09"	
f	=	0.50	
beta	=	45°	

Powder Chamber

P1	=	9.56	
P2 ¹⁾ *	=	9.00	-0.20

Junction Cone

alpha	=	46°07'17"	
S	=	50.84	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	6.65	
H2 ¹⁾	=	6.65	

Projectile

G1 ¹⁾	=	6.17	
G2	=		
F	=		
L3+G ¹⁾	=	56.57	

Pressures (Energies)

Method Transducer

Pmax	=	4050 bar	
PK	=	4658 bar	
PE	=	5060 bar	
M	=	25.00	
EE	=	2100 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	40.22	
L2 *	=	43.02	
L3 ¹⁾	=	51.30	

Breech

R	=	1.14	
R1	=	9.64	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.11	
P1 ¹⁾	=	9.59	
P2 *	=	9.03	

Junction Cone

alpha ¹⁾	=	46°03'03"	
S	=	50.84	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	6.65	
H2 ¹⁾	=	6.65	

Commencement of Rifling

G1 ¹⁾ *	=	6.18	
G ¹⁾ *	=	5.57	
alpha 1	=	90°	
h	=	0.23	
s	=	2.52	
i ¹⁾	=	1°30'09"	
w	=		

Barrel

F ¹⁾ *	=	6.02	
Z ¹⁾	=	6.17	

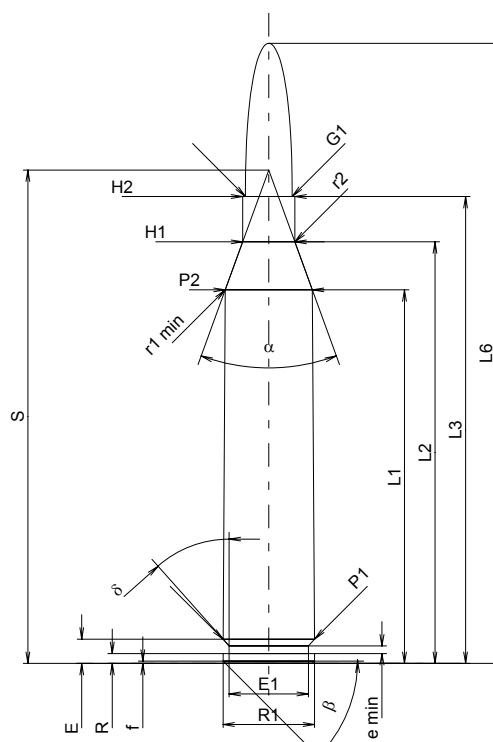
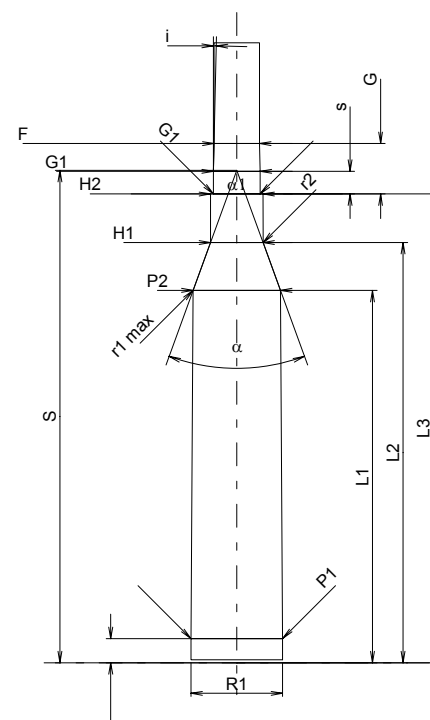
Grooves

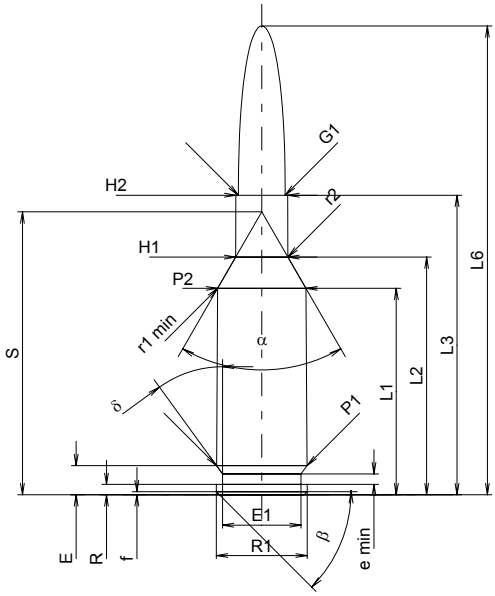
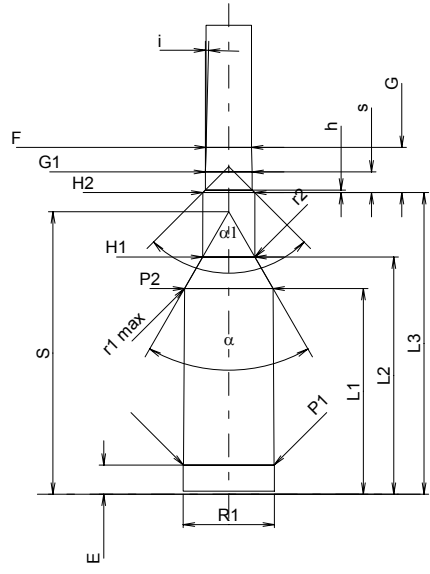
b	=	2.29	
N	=	6	
u	=	356.00	
Q	=	29.52	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	6 x 62 Freres	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: DE			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ^{1)*} = 49.40 -0.20 L2 ^{1)*} = 55.75 -0.20 L3 ¹⁾ = 61.75 L4 = L5 = L6 = 82.00 Case Head R = 1.30 R1 = 12.10 R3 = E = 3.20 E1 = 10.50 e min = 1.00 δ = 41°37'48" f = 0.30 β = 45° Powder Chamber P1 = 12.10 P2 ^{1)*} = 11.53 -0.20 Junction Cone α = 39°58'50" S = 65.25 r1 min = 0.50 r2 = 0.50 Collar H1 [*] = 6.91 H2 ¹⁾ = 6.91 Projectile G1 ¹⁾ = 6.18 G2 = F = L3+G ¹⁾ = 68.42 Pressures (Energies) Method Transducer Pmax = 4300 bar PK = 4945 bar PE = 5375 bar M = 25.00 EE = 3300 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	Lengths L1 [*] = 49.26 L2 [*] = 55.58 L3 ¹⁾ = 62.00 Breech R = 1.30 R1 = 12.12 R2 = R3 = r = Powder Chamber E = 3.20 P1 ¹⁾ = 12.12 P2 [*] = 11.55 Junction Cone α ¹⁾ = 39°59'42" S = 65.13 r1 max = 0.50 r2 = 0.50 Collar H1 [*] = 6.95 H2 ¹⁾ = 6.93 Commencement of Rifling G1 ^{1)*} = 6.19 G ^{1)*} = 6.67 α1 = 180° h = s [*] = 3.00 i ¹⁾ = 1°19' w = Barrel F ^{1)*} = 6.02 Z ¹⁾ = 6.17 Grooves b = 1.73 N = 6 u = 260.00 Q = 29.25 mm²	
	Scale 1:1		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		Notes: 1) Check for safety reasons * Basic dimensions	

C.I.P.	6mm BR Norma	TAB.	I
		Date	95-12-20
		Revision	02-05-15
Country of Origin: SE			
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 27.30 -0.20 L2 ¹⁾ = 31.44 -0.20 L3 ¹⁾ = 39.62 L4 = L5 = L6 = 62.00 Case Head R = 1.37 R1 = 12.01 R3 = E = 3.85 E1 = 10.39 e min = 1.40 δ = 36° f = 0.40 β = 45° Powder Chamber P1 = 11.96 P2 ¹⁾ * = 11.68 -0.20 Junction Cone α [*] = 60° S [*] = 37.42 r1 min = 0.64 r2 = 1.50 Collar H1 [*] = 6.90 H2 ¹⁾ = 6.87 Projectile G1 ¹⁾ = 6.18 G2 = F = L3+G ¹⁾ = 45.61 Pressures (Energies) Method Transducer Pmax = 4050 bar PK = 4658 bar PE = 5060 bar M = 17.50 EE = 2545 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	CHAMBER MINI Lengths L1 = 27.20 L2 = 31.36 L3 ¹⁾ = 39.88 Breech R = R1 = 12.04 R2 = R3 = r = Powder Chamber E = 3.85 P1 ¹⁾ = 11.99 P2 [*] = 11.71 Junction Cone α ¹⁾ * = 60° S [*] = 37.34 r1 max = 0.64 r2 = 1.91 Collar H1 [*] = 6.91 H2 ¹⁾ = 6.88 Commencement of Rifling G1 ¹⁾ * = 6.19 G ¹⁾ = 5.98 α1 = 90° h = 0.35 s [*] = 2.74 i ¹⁾ * = 1°30' w = Barrel F ¹⁾ * = 6.02 Z ¹⁾ = 6.17 Grooves b = 2.29 N = 6 u = 203.20 Q = 29.52 mm ²	
			
Scale 1:1			
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		Notes: 1) Check for safety reasons * Basic dimensions	

C.I.P.

6,5 x 52 Carcano

Country of Origin: IT

TAB.

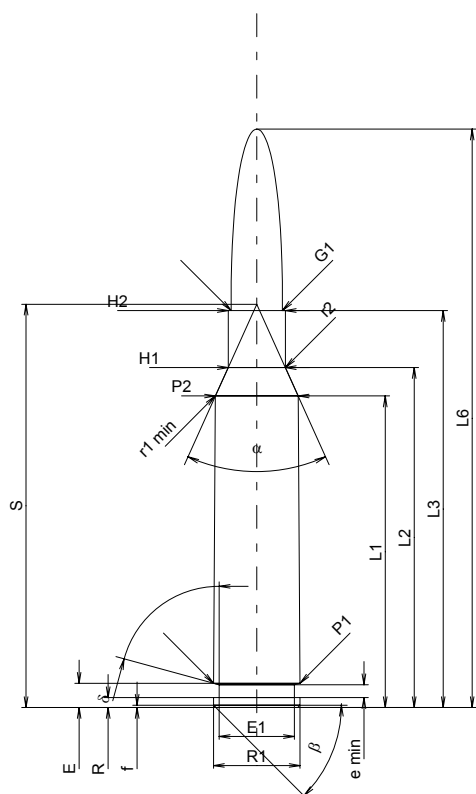
I

Date

93-09-21

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	41.20	-0.20
L2 ¹⁾ *	=	44.96	-0.20
L3 ¹⁾	=	52.50	
L4	=		
L5	=		
L6	=	76.50	

Case Head

R	=	1.30	
R1	=	11.45	
R3	=		
E	=	3.20	
E1	=	9.95	
e min	=	1.70	
delta	=	74°40'48"	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	11.41	
P2 ¹⁾ *	=	10.94	-0.20

Junction Cone

alpha	=	48°31'59"	
S	=	53.33	
r1 min	=	3.00	
r2	=	2.25	

Collar

H1 *	=	7.55	
H2 ¹⁾	=	7.55	

Projectile

G1 ¹⁾	=	6.80	
G2	=		
F	=		
L3+G ¹⁾	=	76.90	

Pressures (Energies)

Method Transducer

Pmax	=	2850 bar	
PK	=	3278 bar	
PE	=	3560 bar	
M	=	25.00	
EE	=	2465 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	41.15	
L2 *	=	44.89	
L3 ¹⁾	=	53.00	

Breech

R	=		
R1	=	11.50	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	11.46	
P2 *	=	10.95	

Junction Cone

alpha ¹⁾	=	48°31'58"	
S	=	53.29	
r1 max	=	3.00	
r2	=	2.25	

Collar

H1 *	=	7.57	
H2 ¹⁾	=	7.55	

Commencement of Rifling

G1 ¹⁾ *	=	6.80	
G ¹⁾ *	=	24.40	
alpha l	=	8°34'41"	
h	=	5.00	
s *	=	14.40	
i ¹⁾	=	2°51'45"	
w	=		

Barrel

F ¹⁾ *	=	6.50	
Z ¹⁾	=	6.80	

Grooves

b	=	3.00	
N	=	4	
u	=	201.50	
Q	=	35.05	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	6,5 x 54 Mauser	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: DE			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ * = 36.50 -0.20 L2 ¹⁾ * = 43.05 -0.20 L3 ¹⁾ = 54.00 L4 = L5 = L6 = 68.00 Case Head R = 1.50 R1 = 11.80 R3 = E = 3.60 E1 = 10.20 e min = 1.00 δ = 38°30' f = 0.30 β = 45° Powder Chamber P1 = 11.95 P2 ¹⁾ * = 11.10 -0.20 Junction Cone α = 29°59'56" S = 57.21 r1 min = 0.50 r2 = 0.50 Collar H1 * = 7.59 H2 ¹⁾ = 7.59 Projectile G1 ¹⁾ = 6.64 G2 = F = L3+G ¹⁾ = 68.00 Pressures (Energies) Method Transducer Pmax = 3050 bar PK = 3508 bar PE = 3810 bar M = 25.00 EE = 2380 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	Lengths L1 * = 36.44 L2 * = 42.99 L3 ¹⁾ = 54.30 Breech R = 1.50 R1 = 11.85 R2 = R3 = r = Powder Chamber E = 3.60 P1 ¹⁾ = 11.98 P2 * = 11.13 Junction Cone α ¹⁾ = 29°59'56" S = 57.21 r1 max = 0.50 r2 = 0.50 Collar H1 * = 7.62 H2 ¹⁾ = 7.61 Commencement of Rifling G1 ¹⁾ * = 6.68 G ¹⁾ * = 14.00 α1 = 180° h = s = i ¹⁾ = 0°34'22" w = Barrel F ¹⁾ * = 6.40 Z ¹⁾ = 6.64 Grooves b = 3.50 N = 4 u = 200.00 Q = 33.94 mm ²	
Scale 1:1			
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		Notes: 1) Check for safety reasons * Basic dimensions	

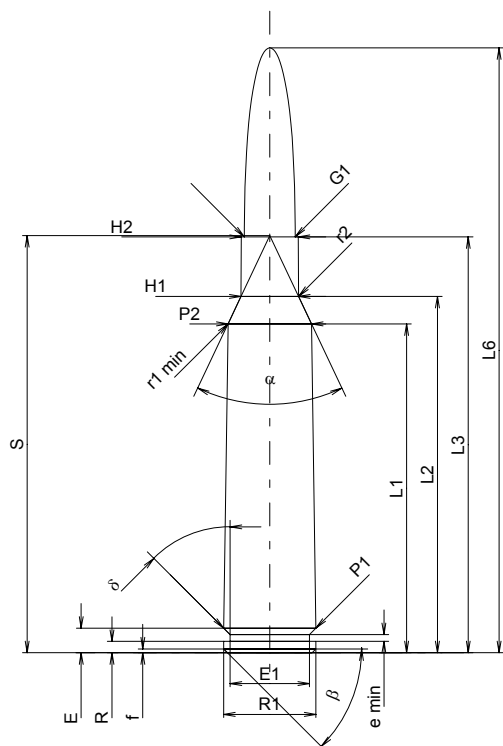
C.I.P.**6,5 x 55 SE.**

Country of Origin: SE

TAB. I

Date 84-06-14

Revision 02-05-15

**CARTRIDGE MAXI****Lengths**

L1 ¹⁾	=	43.49	-0.20
L2 ¹⁾	=	47.13	-0.20
L3 ¹⁾	=	55.00	
L4	=		
L5	=		
L6	=	80.00	

Case Head

R	=	1.50	
R1	=	12.20	
R3	=		
E	=	3.25	
E1	=	10.50	
e min	=	0.90	
delta	=	45°	
f	=	0.50	
beta	=	45°	

Powder Chamber

P1	=	12.20	
P2 ¹⁾ *	=	11.04	-0.20

Junction Cone

alpha * ¹⁾	=	50°35'02"	
S * ¹⁾	=	55.17	
r1 min	=	3.50	
r2	=	3.70	

Collar

H1 * ¹⁾	=	7.60	
H2 ¹⁾	=	7.52	

Projectile

G1 ¹⁾	=	6.71	
G2	=		
F	=		
L3+G ¹⁾	=	69.10	

Pressures (Energies)**Method Transducer**

Pmax	=	3800 bar	
PK	=	4370 bar	
PE	=	4750 bar	
M	=	25.00	
EE	=	3395 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI**Lengths**

L1	=	43.36	
L2	=	47.04	
L3 ¹⁾	=	55.10	

Breech

R	=	1.50	
R1	=	12.23	
R2	=		
R3	=		
r	=	0.40	

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	12.23	
P2 * ¹⁾	=	11.08	

Junction Cone

alpha ¹⁾ *	=	50°	
S * ¹⁾	=	55.24	
r1 max	=	2.60	
r2	=	3.10	

Collar

H1 * ¹⁾	=	7.65	
H2 ¹⁾	=	7.55	

Commencement of Rifling

G1 ¹⁾ *	=	6.84	
G ¹⁾	=	14.10	
alpha l * ¹⁾	=	90°	
h	=	0.35	
s	=		
i ¹⁾ *	=	0°42'29"	
w	=		

Barrel

F ¹⁾ *	=	6.50	
Z ¹⁾	=	6.73	

Grooves

b	=	2.50	
N	=	4	
u	=	220.00	
Q	=	34.36	mm²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

6,5 x 57

Country of Origin: DE

TAB.

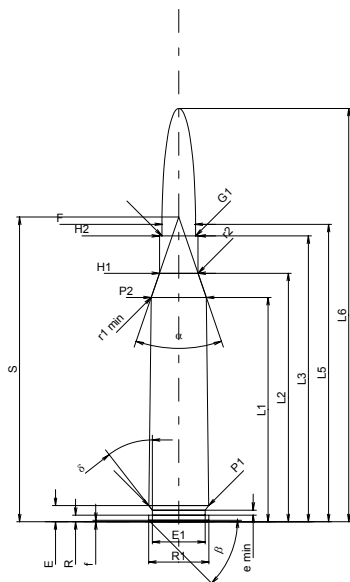
I

Date

84-06-14

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	44.50	-0.20
L2 ¹⁾ *	=	49.30	-0.20
L3 ¹⁾	=	56.70	
L4	=		
L5	=	59.00	
L6	=	82.00	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.20	
E1	=	10.50	
e min	=	1.00	
δ	=	37°52'48"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.90	
P2 ¹⁾ *	=	10.94	-0.20

Junction Cone

α	=	37°50'02"	
S	=	60.46	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.65	
H2 ¹⁾	=	7.65	

Projectile

G1 ¹⁾	=	6.70	
G2	=	6.70	
F	=		
L3+G ¹⁾	=	86.70	

Pressures (Energies)

Method Transducer

Pmax	=	3900 bar	
PK	=	4485 bar	
PE	=	4875 bar	
M	=	25.00	
EE	=	3260 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	44.46	
L2 *	=	49.26	
L3 ¹⁾	=	57.00	

Breech

R	=	1.30	
R1	=	12.00	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	11.93	
P2 *	=	10.97	

Junction Cone

α ¹⁾	=	37°49'58"	
S	=	60.46	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.68	
H2 ¹⁾	=	7.67	

Commencement of Rifling

G1 ¹⁾ *	=	6.75	
G ¹⁾ *	=	30.00	
α1	=	180°	
h	=		
s	=		
i ¹⁾	=	0°17'11"	
w	=		

Barrel

F ¹⁾ *	=	6.45	
Z ¹⁾	=	6.70	

Grooves

b	=	3.50	
N	=	4	
u	=	200.00	
Q	=	34.52	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

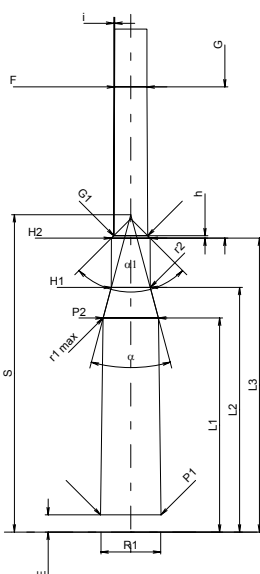
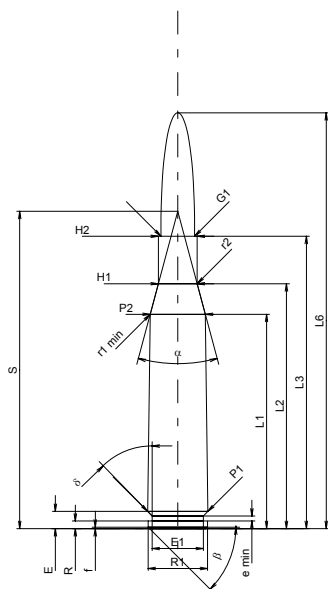
6,5 x 58 Mauser

TAB. I

Date 84-06-14

Revision 02-05-15

Country of Origin: DE



Scale 1:1.5

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	42.52	-0.20
L2 ¹⁾ *	=	48.58	-0.20
L3 ¹⁾	=	58.00	
L4	=		
L5	=		
L6	=	82.50	

Case Head

R	=	1.50	
R1	=	11.80	
R3	=		
E	=	3.40	
E1	=	10.20	
e min	=	1.00	
delta	=	45°	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	11.95	
P2 ¹⁾ *	=	10.95	-0.20

Junction Cone

alpha	=	30°01'18"	
S	=	62.94	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.70	
H2 ¹⁾	=	7.70	

Projectile

G1 ¹⁾	=	6.70	
G2	=		
F	=		
L3+G ¹⁾	=	88.00	

Pressures (Energies)

Method Transducer

Pmax	=	3550 bar	
PK	=	4083 bar	
PE	=	4440 bar	
M	=	25.00	
EE	=	3330 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	42.46	
L2 *	=	48.53	
L3 ¹⁾	=	58.30	

Breech

R	=	1.50	
R1	=	11.85	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.40	
P1 ¹⁾	=	11.98	
P2 *	=	10.98	

Junction Cone

alpha ¹⁾	=	29°58'26"	
S	=	62.97	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.73	
H2 ¹⁾	=	7.72	

Commencement of Rifling

G1 ¹⁾ *	=	6.75	
G ¹⁾ *	=	30.00	
alpha l	=	90°	
h *	=	0.49	
s ¹⁾	=		
i	=	0°17'28"	
w	=		

Barrel

F ¹⁾ *	=	6.45	
Z ¹⁾	=	6.70	

Grooves

b	=	3.50	
N	=	4	
u	=	200.00	
Q	=	34.52	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

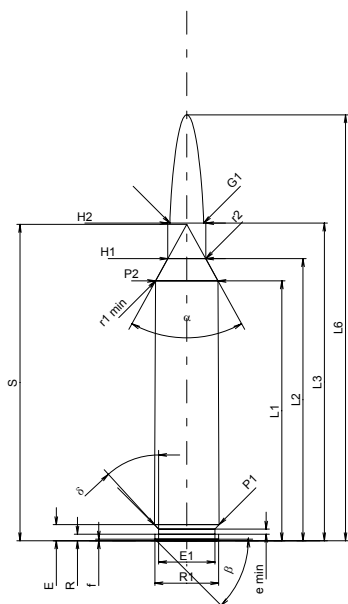
6,5 x 63 Messner Mag.

TAB. I

Date 02-01-22

Revision 02-05-15

Country of Origin: DE



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	51.55	-0.20
L2 ¹⁾ *	=	55.96	-0.20
L3 ¹⁾	=	63.00	
L4	=		
L5	=		
L6	=	84.50	

Case Head

R	=	1.30	
R1	=	12.63	
R3	=		
E	=	3.20	
E1	=	11.20	
e min	=	1.00	
delta	=	43°	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	12.85	
P2 ¹⁾ *	=	12.40	-0.20

Junction Cone

alpha	=	57°54'38"	
S	=	62.76	
r1 min	=	0.67	
r2	=	2.00	

Collar

H1 *	=	7.52	
H2 ¹⁾	=	7.52	

Projectile

G1 ¹⁾	=	6.71	
G2	=		
F	=		
L3+G ¹⁾	=	89.41	

Pressures (Energies)

Method Transducer

Pmax	=	4400 bar	
PK	=	5060 bar	
PE	=	5500 bar	
M	=	25.00	
EE	=	4200 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	51.53	
L2 *	=	55.93	
L3 ¹⁾	=	63.25	

Breech

R	=	1.30	
R1	=	12.65	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	12.88	
P2 *	=	12.43	

Junction Cone

alpha ¹⁾	=	58°01'15"	
S	=	62.74	
r1 max	=	0.34	
r2	=	2.00	

Collar

H1 *	=	7.55	
H2 ¹⁾	=	7.55	

Commencement of Rifling

G1 ¹⁾ *	=	6.71	
G ¹⁾ *	=	26.41	
alpha 1	=	90°	
h *	=	0.42	
s	=		
i ¹⁾	=	0°17'12"	
w	=		

Barrel

F ¹⁾ *	=	6.45	
Z ¹⁾	=	6.70	

Grooves

b	=	3.50	
N	=	4	
u	=	200.00	
Q	=	34.52	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

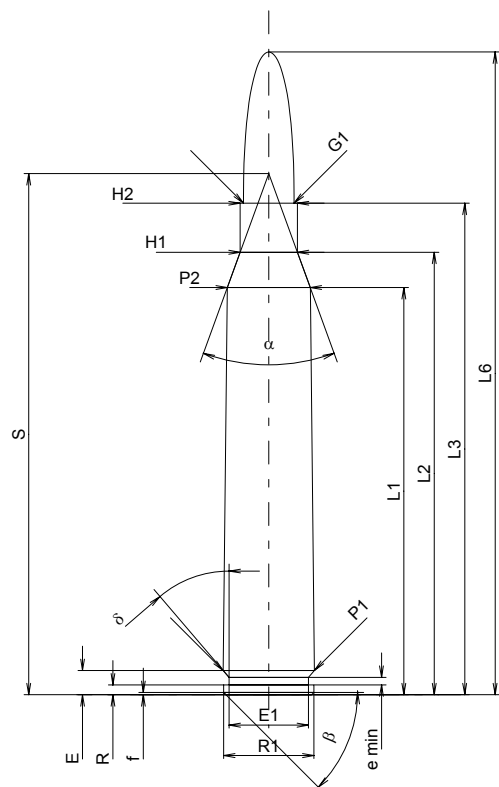
6,5 x 65 RWS

TAB. I

Date 90-04-05

Revision 02-05-15

Country of Origin: DE



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	53.85	-0.20
L2 ¹⁾ *	=	58.52	-0.20
L3 ¹⁾	=	65.00	
L4	=		
L5	=		
L6	=	85.00	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.20	
E1	=	10.50	
e min	=	1.00	
delta	=	40°33'	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	12.04	
P2 ¹⁾ *	=	10.97	-0.20

Junction Cone

alpha	=	40°00'02"	
S	=	68.92	
r1 min	=		
r2	=		

Collar

H1 *	=	7.57	
H2 ¹⁾	=	7.57	

Projectile

G1 ¹⁾	=	6.70	
G2	=		
F	=		
L3+G ¹⁾	=	74.96	

Pressures (Energies)

Method Transducer

Pmax	=	4150 bar	
PK	=	4773 bar	
PE	=	5190 bar	
M	=	25.00	
EE	=	3955 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	53.81	
L2 *	=	58.44	
L3 ¹⁾	=	65.30	

Breech

R	=	1.30	
R1	=	12.07	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	12.07	
P2 *	=	11.00	

Junction Cone

alpha ¹⁾	=	39°59'45"	
S	=	68.92	
r1 max	=		
r2	=		

Collar

H1 *	=	7.63	
H2 ¹⁾	=	7.60	

Commencement of Rifling

G1 ¹⁾ *	=	6.71	
G ¹⁾ *	=	9.96	
alpha1	=	90°	
h	=	0.44	
s *	=	5.00	
i ¹⁾	=	1°30'	
w	=		

Barrel

F ¹⁾ *	=	6.45	
Z ¹⁾	=	6.70	

Grooves

b	=	3.50	
N	=	4	
u	=	200.00	
Q	=	34.52	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

6,5 x 68

Country of Origin: DE

TAB.

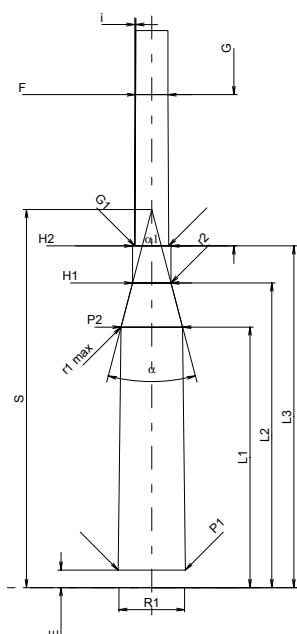
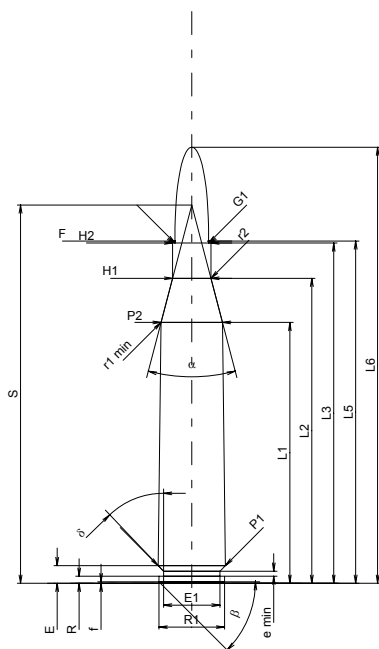
I

Date

84-06-14

Revision

02-05-15



Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	51.75	-0.20
L2 ¹⁾ *	=	60.50	-0.20
L3 ¹⁾	=	67.50	
L4	=		
L5	=	67.90	
L6	=	86.50	

Case Head

R	=	1.40	
R1	=	13.00	
R3	=		
E	=	3.50	
E1	=	11.20	
e min	=	1.00	
δ	=	43°40'12"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	13.30	
P2 ¹⁾ *	=	12.18	-0.20

Junction Cone

α	=	29°19'56"	
S	=	75.02	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.60	
H2	=	7.60	

Projectile

G1 ¹⁾	=	6.70	
G2 ¹⁾	=	6.70	
F	=		
L3+G ¹⁾	=	97.50	

Pressures (Energies)

Method Transducer

Pmax	=	4400 bar	
PK	=	5060 bar	
PE	=	5500 bar	
M	=	25.00	
EE	=	4045 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	51.70	
L2 *	=	60.45	
L3 ¹⁾	=	67.80	

Breech

R	=	1.40	
R1	=	13.05	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.50	
P1 ¹⁾	=	13.33	
P2 *	=	12.21	

Junction Cone

α	=	29°19'55"	
S	=	75.03	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.63	
H2 ¹⁾	=	7.62	

Commencement of Rifling

G1 ¹⁾ *	=	6.75	
G ¹⁾ *	=	30.00	
α1	=	180°	
h	=		
s	=		
i ¹⁾	=	0°17'11"	
w	=		

Barrel

F ¹⁾ *	=	6.45	
Z ¹⁾	=	6.70	

Grooves

b	=	3.50	
N	=	4	
u	=	250.00	
Q	=	34.52	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

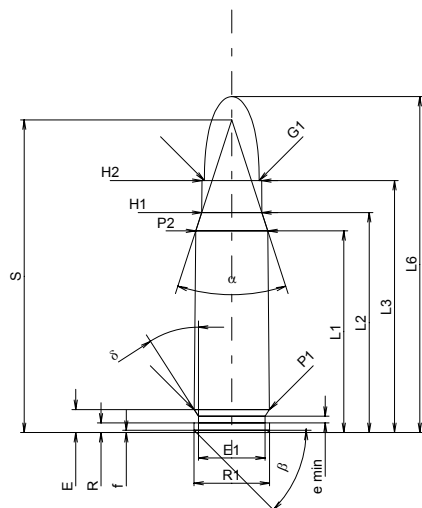
7 x 33 Sako

TAB. I

Date 95-03-09

Revision 02-05-15

Country of Origin: FI



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	26.68	-0.20
L2 ¹⁾ *	=	29.10	-0.20
L3 ¹⁾	=	33.33	
L4	=		
L5	=		
L6	=	44.44	

Case Head

R	=	1.27	
R1	=	10.00	
R3	=		
E	=	3.05	
E1	=	8.80	
e min	=	0.90	
δ	=	32°42'	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	9.93	
P2 ¹⁾ *	=	9.52	-0.20

Junction Cone

α	=	35°56'39"	
S	=	41.35	
r1 min	=		
r2	=		

Collar

H1 ¹⁾ *	=	7.95	
H2	=	7.90	

Projectile

G1 ¹⁾	=	7.26	
G2	=		
F	=		
L3+G ¹⁾	=	41.40	

Pressures (Energies)

Method Transducer

Pmax	=	2800 bar	
PK	=	3220 bar	
PE	=	3500 bar	
M	=	17.50	
EE	=	1715 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	26.54	
L2 *	=	29.03	
L3 ¹⁾	=	33.94	

Breech

R	=	1.27	
R1	=	10.05	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.04	
P1 ¹⁾	=	9.98	
P2 *	=	9.55	

Junction Cone

α ¹⁾	=	34°59'45"	
S	=	41.69	
r1 max	=		
r2	=		

Collar

H1 *	=	7.98	
H2 ¹⁾	=	7.93	

Commencement of Rifling

G1 ¹⁾ *	=	7.29	
G ¹⁾ *	=	8.07	
α1	=	90°	
h *	=	0.32	
s	=		
i ¹⁾	=	1°08'44"	
w	=		

Barrel

F ¹⁾ *	=	6.98	
Z ¹⁾	=	7.23	

Grooves

b	=	3.60	
N	=	4	
u	=	401.00	
Q	=	40.15	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	7 x 57	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: DE			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ * = 43.84 -0.20 L2 ¹⁾ * = 47.41 -0.20 L3 ¹⁾ = 57.00 L4 = L5 = L6 = 78.00 Case Head R = 1.15 R1 = 12.10 R3 = E = 3.04 E1 = 10.70 e min = 0.84 δ = 32° f = 0.30 β = 45° Powder Chamber P1 = 12.01 P2 ¹⁾ * = 10.92 -0.20 Junction Cone α = 40°54'05" S = 58.48 r1 min = 0.50 r2 = 0.50 Collar H1 [*] = 8.25 H2 ¹⁾ = 8.25 Projectile G1 ¹⁾ = 7.25 G2 = F = L3+G ¹⁾ = 76.20 Pressures (Energies) Method Transducer Pmax = 3900 bar PK = 4485 bar PE = 4875 bar M = 25.00 EE = 3450 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	Lengths L1 [*] = 43.80 L2 [*] = 47.37 L3 ¹⁾ = 57.30 Breech R = 1.15 R1 = 12.15 R2 = R3 = r = Powder Chamber E = 3.04 P1 ¹⁾ = 12.04 P2 [*] = 10.95 Junction Cone α ¹⁾ = 41°00'21" S = 58.44 r1 max = 0.50 r2 = 0.50 Collar H1 [*] = 8.28 H2 ¹⁾ = 8.27 Commencement of Rifling G1 ¹⁾ * = 7.30 G ¹⁾ * = 19.20 α1 = 180° h = s = i ¹⁾ = 0°28'39" w = Barrel F ¹⁾ * = 6.98 Z ¹⁾ = 7.24 Grooves b = 3.90 N = 4 u = 220.00 Q = 40.41 mm ²	
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.

7 x 64

Country of Origin: DE

TAB.

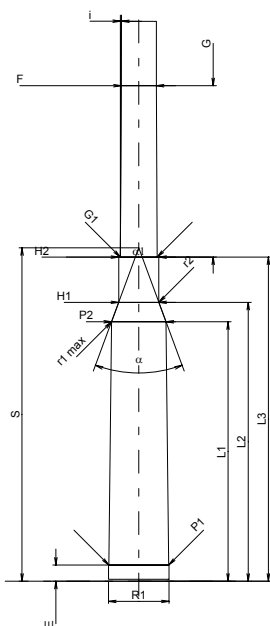
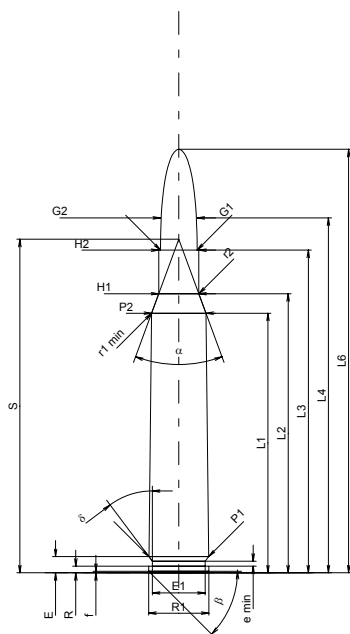
I

Date

84-06-14

Revision

02-05-15



Scale 1:1.5

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	51.50	-0.20
L2 ¹⁾ *	=	55.37	-0.20
L3 ¹⁾	=	64.00	
L4	=	70.40	
L5	=		
L6	=	84.00	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.20	
E1	=	10.50	
e min	=	1.00	
delta	=	36°52'12"	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	11.85	
P2 ¹⁾ *	=	10.80	-0.20

Junction Cone

alpha	=	40°25'44"	
S	=	66.17	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.95	
H2 ¹⁾	=	7.95	

Projectile

G1 ¹⁾	=	7.25	
G2	=	7.25	
F	=		
L3+G ¹⁾	=	98.00	

Pressures (Energies)

Method Transducer

Pmax	=	4150 bar	
PK	=	4773 bar	
PE	=	5190 bar	
M	=	25.00	
EE	=	4270 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	51.46	
L2 *	=	55.32	
L3 ¹⁾	=	64.30	

Breech

R	=	1.30	
R1	=	12.00	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	11.88	
P2 *	=	10.83	

Junction Cone

alpha ¹⁾	=	40°31'33"	
S	=	66.13	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.98	
H2 ¹⁾	=	7.97	

Commencement of Rifling

G1 ¹⁾ *	=	7.32	
G ¹⁾ *	=	34.00	
alpha l	=	180°	
h	=		
s	=		
i ¹⁾	=	0°17'11"	
w	=		

Barrel

F ¹⁾ *	=	6.98	
Z ¹⁾	=	7.24	

Grooves

b	=	3.70	
N	=	4	
u	=	220.00	
Q	=	40.29	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

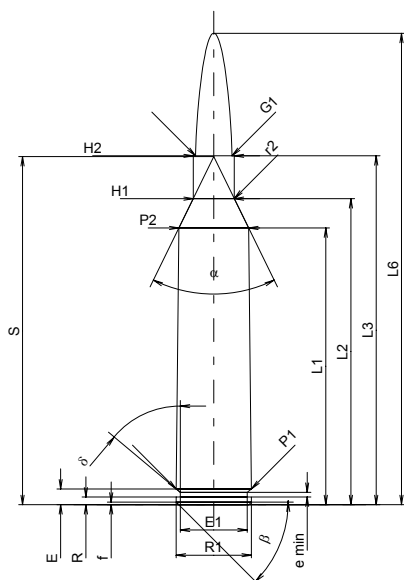
7 mm KM

TAB. I

Date 99-09-01

Revision 02-05-15

Country of Origin: DE



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	54.90	-0.20
L2 ¹⁾ *	=	60.72	-0.20
L3 ¹⁾	=	69.20	
L4	=		
L5	=		
L6	=	93.50	

Case Head

R	=	1.52	
R1	=	14.93	
R3	=		
E	=	3.12	
E1	=	13.24	
e min	=	0.90	
delta	=	50°	
f	=	0.50	
beta	=	45°	

Powder Chamber

P1	=	14.91	
P2 ¹⁾ *	=	13.82	-0.20

Junction Cone

alpha	=	52°01'20"	
S	=	69.05	
r1 min	=		
r2	=	2.00	

Collar

H1 *	=	8.14	
H2 ¹⁾	=	8.12	

Projectile

G1 ¹⁾	=	7.23	
G2	=		
F	=		
L3+G ¹⁾	=	76.32	

Pressures (Energies)

Method Transducer

Pmax	=	4700 bar	
PK	=	5405 bar	
PE	=	5875 bar	
M	=	25.00	
EE	=	5670 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	54.87	
L2 *	=	60.70	
L3 ¹⁾	=	69.45	

Breech

R	=		
R1	=	15.03	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.12	
P1 ¹⁾	=	14.96	
P2 *	=	13.85	

Junction Cone

alpha ¹⁾	=	52°01'26"	
S	=	69.06	
r1 max	=		
r2	=	2.50	

Collar

H1 *	=	8.16	
H2 ¹⁾	=	8.14	

Commencement of Rifling

G1 ¹⁾ *	=	7.23	
G ¹⁾ *	=	7.12	
alpha 1	=	90°37'59"	
h	=	0.45	
s *	=	3.95	
i ¹⁾	=	1°43'	
w	=		

Barrel

F ¹⁾ *	=	7.04	
Z ¹⁾	=	7.21	

Grooves

b	=	2.79	
N	=	6	
u	=	216.00	
Q	=	40.39	mm²

Scale 1:1.5

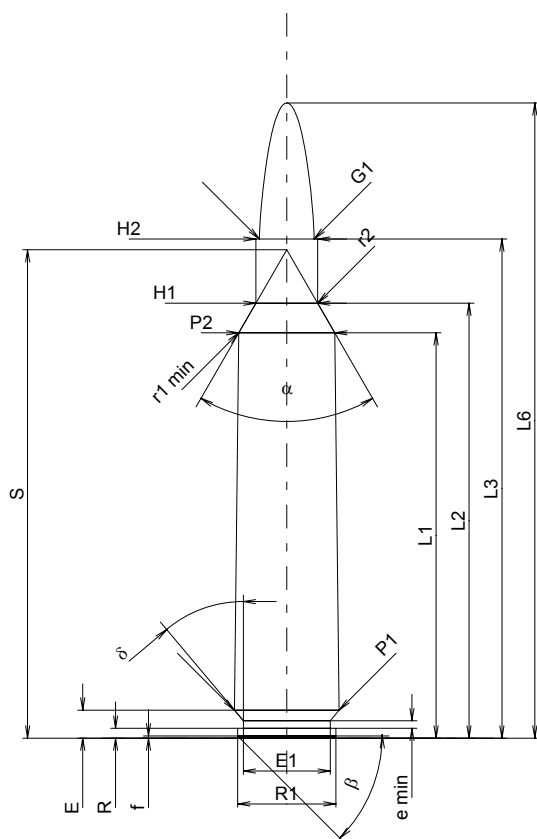
Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	7 mm Rem. Ultra Mag. Country of Origin: US	TAB.	I
		Date	02-01-22
		Revision	02-05-15
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 60.64 -0.20 L2 ¹⁾ = 65.10 -0.20 L3 ¹⁾ = 72.39 L4 = L5 = L6 = 91.44 Case Head R = 1.27 R1 = 13.56 R3 = E = 3.75 E1 = 12.07 e min = 0.94 δ = 32° f = 0.41 β = 35° Powder Chamber P1 = 13.99 P2 ^{1)*} = 13.33 -0.20 Junction Cone α ^{1)*} = 60° S [*] = 72.18 r1 min = 0.76 r2 = 3.18 Collar H1 [*] = 8.18 H2 ¹⁾ = 8.18 Projectile G1 ¹⁾ = 7.23 G2 = F = L3+G ¹⁾ = 88.20 Pressures (Energies) Method Transducer Pmax = 4400 bar PK = 5060 bar PE = 5500 bar M = 25.00 EE = 5250 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =		CHAMBER MINI Lengths L1 = 60.51 L2 = 64.96 L3 ¹⁾ = 72.64 Breech R = R1 = 14.05 R2 = R3 = r = Powder Chamber E = 3.75 P1 ¹⁾ = 14.02 P2 [*] = 13.36 Junction Cone α ^{1)*} = 60° S [*] = 72.08 r1 max = 0.76 r2 = 3.18 Collar H1 [*] = 8.23 H2 ¹⁾ = 8.20 Commencement of Rifling G1 ^{1)*} = 7.23 G ¹⁾ = 15.81 α1 = 90° h = 0.49 s [*] = 10.65 i ^{1)*} = 1° w = Barrel F ^{1)*} = 7.04 Z ¹⁾ = 7.21 Grooves b = 2.79 N = 6 u = 241.30 Q = 40.34 mm ²
	Scale 1:1 Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		Notes: 1) Check for safety reasons * Basic dimensions

C.I.P.**7 mm SE v. H.**

Country of Origin: DE

TAB.**I****Date****84-06-14****Revision****02-05-15****CARTRIDGE MAXI****Lengths**

L1 ¹⁾ *	=	53.60	-0.20
L2 ¹⁾ *	=	57.52	-0.20
L3 ¹⁾	=	66.00	
L4	=		
L5	=		
L6	=	84.00	

Case Head

R	=	1.30	
R1	=	13.00	
R3	=		
E	=	3.70	
E1	=	11.50	
e min	=	1.00	
δ	=	40°	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	13.85	
P2 ¹⁾ *	=	12.70	-0.20

Junction Cone

α	=	60°02'21"	
S	=	64.59	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	8.17	
H2 ¹⁾	=	8.17	

Projectile

G1 ¹⁾	=	7.24	
G2	=		
F	=		
L3+G ¹⁾	=	81.00	

Pressures (Energies)**Method Transducer**

Pmax	=	4400 bar	
PK	=	5060 bar	
PE	=	5500 bar	
M	=	25.00	
EE	=	4525 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI**Lengths**

L1 *	=	53.56	
L2 *	=	57.47	
L3 ¹⁾	=	66.50	

Breech

R	=	1.30	
R1	=	13.05	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.70	
P1 ¹⁾	=	13.88	
P2 *	=	12.73	

Junction Cone

α ¹⁾	=	60°03'21"	
S	=	64.57	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	8.21	
H2 ¹⁾	=	8.20	

Commencement of Rifling

G1 ¹⁾ *	=	7.28	
G ¹⁾ *	=	15.00	
α1	=	180°	
h	=		
s	=		
i ¹⁾	=	0°34'22"	
w	=		

Barrel

F ¹⁾ *	=	6.98	
Z ¹⁾	=	7.24	

Grooves

b	=	4.00	
N	=	4	
u	=	260.00	
Q	=	40.47	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	7 mm Win. Short Mag.	TAB.	I
		Date	02-01-22
		Revision	02-05-15
Country of Origin: US			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ = 42.25 -0.20 L2 ¹⁾ = 46.30 -0.20 L3 ¹⁾ = 53.34 L4 = L5 = L6 = 73.34 Case Head R = 1.37 R1 = 13.51 R3 = E = 3.35 E1 = 12.19 e min = 1.02 δ = 45° f = 0.36 β = 35° Powder Chamber P1 = 14.12 P2 ¹⁾ * = 13.67 -0.20 Junction Cone α ¹⁾ * = 70° S ¹⁾ * = 52.01 r1 min = 1.27 r2 = 2.54 Collar H1 ¹⁾ * = 8.00 H2 ¹⁾ = 8.00 Projectile G1 ¹⁾ = 7.45 G2 = F = L3+G ¹⁾ = 66.78 Pressures (Energies) Method Transducer Pmax = 4450 bar PK = 5118 bar PE = 5563 bar M = 25.00 EE = 4830 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	Lengths L1 = 42.13 L2 = 46.16 L3 ¹⁾ = 53.59 Breech R = R1 = 14.19 R2 = R3 = r = Powder Chamber E = 3.35 P1 ¹⁾ = 14.15 P2 ¹⁾ * = 13.70 Junction Cone α ¹⁾ * = 70° S ¹⁾ * = 51.91 r1 max = 1.27 r2 = 3.05 Collar H1 ¹⁾ * = 8.05 H2 ¹⁾ = 8.03 Commencement of Rifling G1 ¹⁾ * = 7.47 G ¹⁾ = 13.44 α1 = 90° h = 0.28 s ¹⁾ * = 5.23 i ¹⁾ * = 1°30' w = Barrel F ¹⁾ * = 7.04 Z ¹⁾ = 7.21 Grooves b = 2.79 N = 6 u = 241.00 Q = 40.34 mm ²	
	Notes: 1) Check for safety reasons * Basic dimensions		
Scale 1:1			
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.

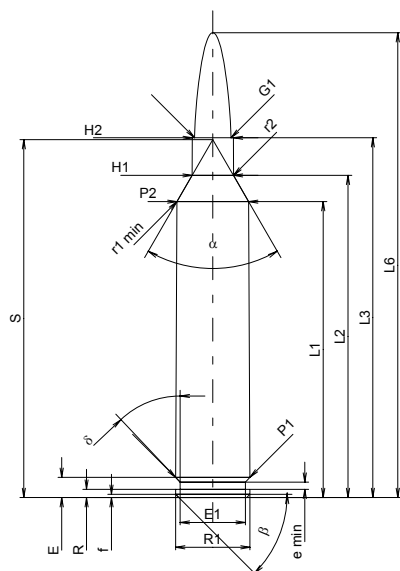
7,21 Firebird

Country of Origin: FI

TAB. I

Date 02-01-22

Revision 02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	58.70	-0.20
L2 ¹⁾ *	=	63.91	-0.20
L3 ¹⁾	=	71.37	
L4	=		
L5	=		
L6	=	92.20	

Case Head

R	=	1.65	
R1	=	14.76	
R3	=		
E	=	3.99	
E1	=	12.95	
e min	=	1.40	
delta	=	45°	
f	=	0.64	
beta	=	45°	

Powder Chamber

P1	=	14.73	
P2 ¹⁾ *	=	14.22	-0.20

Junction Cone

alpha	=	60°01'59"	
S	=	71.01	
r1 min	=	1.57	
r2	=	3.18	

Collar

H1 *	=	8.20	
H2 ¹⁾	=	8.15	

Projectile

G1 ¹⁾	=	7.24	
G2	=		
F	=		
L3+G ¹⁾	=	76.46	

Pressures (Energies)

Method Transducer

Pmax	=	4600 bar	
PK	=	5290 bar	
PE	=	5750 bar	
M	=	25.00	
EE	=	6375 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	58.58	
L2 *	=	63.81	
L3 ¹⁾	=	71.63	

Breech

R	=		
R1	=	14.81	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.99	
P1 ¹⁾	=	14.78	
P2 *	=	14.30	

Junction Cone

alpha ¹⁾	=	60°00'28"	
S	=	70.96	
r1 max	=	1.57	
r2	=	3.18	

Collar

H1 *	=	8.26	
H2 ¹⁾	=	8.20	

Commencement of Rifling

G1 ¹⁾ *	=	7.24	
G ¹⁾ *	=	5.09	
alpha 1	=	90°	
h	=	0.48	
s *	=	2.80	
i ¹⁾	=	2°30'01"	
w	=		

Barrel

F ¹⁾ *	=	7.04	
Z ¹⁾	=	7.21	

Grooves

b	=	4.06	
N	=	4	
u	=	254.00	
Q	=	40.39	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix .

Notes: 1) Check for safety reasons
* Basic dimensions

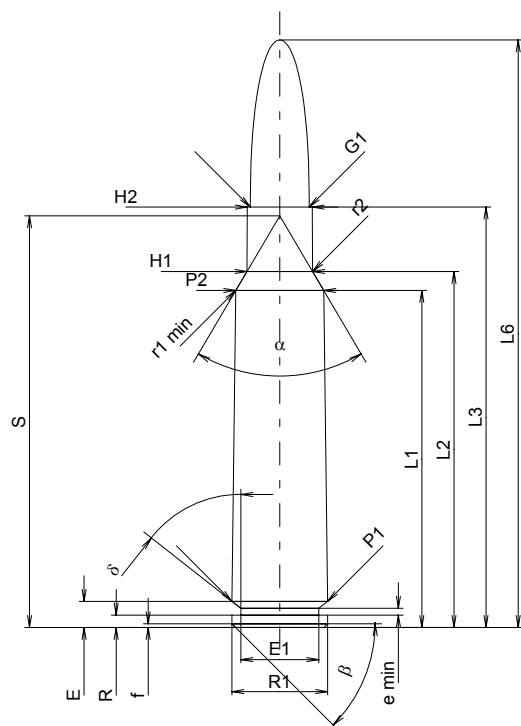
C.I.P.**7,5 x 55 Suisse**

Country of Origin: CH

TAB. I

Date 84-06-14

Revision 02-05-15

**CARTRIDGE MAXI****Lengths**

L1 ¹⁾	=	44.58	-0.20
L2 ¹⁾	=	47.085	-0.20
L3 ¹⁾	=	55.60	
L4	=		
L5	=		
L6	=	77.70	

Case Head

R	=	1.65	
R1	=	12.65	
R3	=		
E	=	3.46	
E1	=	10.30	
e min	=	0.89	
δ	=	51°49'16"	
f	=	0.50	
β	=	45°	

Powder Chamber

P1	=	12.64	
P2 ¹⁾ *	=	11.63	-0.20

Junction Cone

α *	=	61°	
S *	=	54.45	
r1 min	=	2.00	
r2	=	2.00	

Collar

H1 *	=	8.68	
H2 ¹⁾	=	8.58	

Projectile

G1 ¹⁾	=	7.78	
G2	=		
F	=		
L3+G ¹⁾	=	62.47	

Pressures (Energies)**Method Transducer**

Pmax	=	3800 bar	
PK	=	4370 bar	
PE	=	4750 bar	
M	=	25.00	
EE	=	3965 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI**Lengths**

L1	=	44.40	
L2	=	47.43	
L3 ¹⁾	=	56.35	

Breech

R	=	1.65	
R1	=	12.72	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.46	
P1 ¹⁾	=	12.60	
P2 *	=	11.85	

Junction Cone

α ¹⁾ *	=	55°	
S *	=	55.78	
r1 max	=	0.50	
r2	=	2.00	

Collar

H1 *	=	8.70	
H2 ¹⁾	=	8.60	

Commencement of Rifling

G1 ¹⁾ *	=	7.70	
G ¹⁾	=	6.87	
α1 *	=	90°	
h	=	0.41	
s	=	3.00	
i ¹⁾ *	=	2°	
w	=		

Barrel

F ¹⁾ *	=	7.51	
Z ¹⁾	=	7.77	

Grooves

b	=	3.75	
N	=	4	
u	=	270.00	
Q	=	46.33	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

7,62 x 39

Country of Origin: SU

TAB.

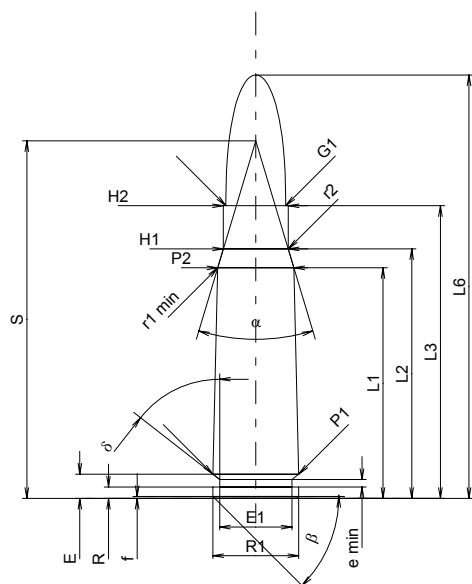
I

Date

89-01-04

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	30.50	-0.20
L2 ¹⁾ *	=	33.00	-0.20
L3 ¹⁾	=	38.70	
L4	=		
L5	=		
L6	=	56.00	

Case Head

R	=	1.50	
R1	=	11.35	
R3	=		
E	=	3.20	
E1	=	9.56	
e min	=	1.00	
δ	=	51°58'12"	
f	=	0.25	
β	=	45°	

Powder Chamber

P1	=	11.35	
P2 ¹⁾ *	=	10.07	-0.20

Junction Cone

α	=	32°46'	
S	=	47.28	
r1 min	=	4.00	
r2	=	3.00	

Collar

H1 *	=	8.60	
H2 ¹⁾	=	8.60	

Projectile

G1 ¹⁾	=	7.92	
G2	=		
F	=		
L3+G ¹⁾	=	46.70	

Pressures (Energies)

Method Transducer

Pmax	=	3550 bar	
PK	=	4083 bar	
PE	=	4440 bar	
M	=	25.00	
EE	=	2510 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	30.25	
L2 *	=	32.55	
L3 ¹⁾	=	41.00	

Breech

R	=	1.50	
R1	=	11.37	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.50	
P1 ¹⁾	=	11.36	
P2 *	=	10.12	

Junction Cone

α ¹⁾	=	33°23'56"	
S	=	47.12	
r1 max	=	0.50	
r2	=	3.00	

Collar

H1 *	=	8.74	
H2 ¹⁾	=	8.60	

Commencement of Rifling

G1 ¹⁾ *	=	8.60	
G ¹⁾ *	=	8.00	
α1	=		
h	=		
s	=		
i ¹⁾	=	3°30'18"	
w	=		

Barrel

F ¹⁾ *	=	7.62	
Z ¹⁾	=	7.92	

Grooves

b	=	3.81	
N	=	4	
u	=	240.00	
Q	=	47.99	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

7,62 x 45

Country of Origin: CS

TAB.

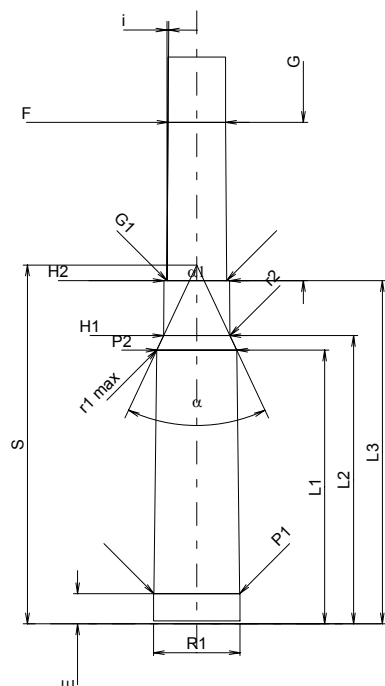
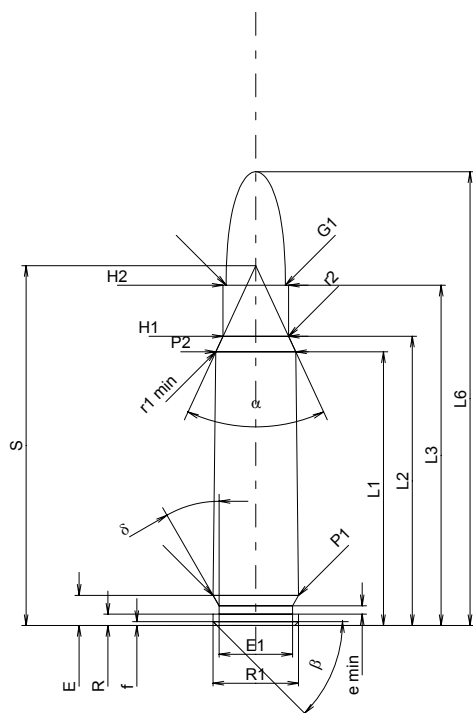
I

Date

92-08-03

Revision

02-05-15



Scale 1:1

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	36.20	-0.20
L2 ¹⁾ *	=	38.25	-0.20
L3 ¹⁾	=	45.00	
L4	=		
L5	=		
L6	=	60.00	

Case Head

R	=	1.50	
R1	=	11.30	
R3	=		
E	=	3.99	
E1	=	9.70	
e min	=	1.10	
delta	=	30°	
f	=	0.50	
beta	=	45°	

Powder Chamber

P1	=	11.30	
P2 ¹⁾ *	=	10.56	-0.20

Junction Cone

alpha	=	49°43'39"	
S	=	47.59	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	8.66	
H2 ¹⁾	=	8.66	

Projectile

G1 ¹⁾	=	7.83	
G2	=		
F	=		
L3+G ¹⁾	=	65.93	

Pressures (Energies)

Method Transducer

Pmax	=	4300 bar	
PK	=	4945 bar	
PE	=	5375 bar	
M	=	25.00	
EE	=	2515 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	36.20	
L2 *	=	38.12	
L3 ¹⁾	=	45.40	

Breech

R	=		
R1	=	11.45	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.99	
P1 ¹⁾	=	11.35	
P2 *	=	10.56	

Junction Cone

alpha ¹⁾	=	50°13'48"	
S	=	47.46	
r1 max	=	0.50	
r2	=	1.00	

Collar

H1 *	=	8.76	
H2 ¹⁾	=	8.70	

Commencement of Rifling

G1 ¹⁾ *	=	7.90	
G ¹⁾ *	=	20.93	
alpha l	=	180°	
h	=		
s	=		
i ¹⁾	=	0°22'59"	
w	=		

Barrel

F ¹⁾ *	=	7.62	
Z ¹⁾	=	7.88	

Grooves

b	=	3.50	
N	=	4	
u	=	280.00	
Q	=	47.49	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

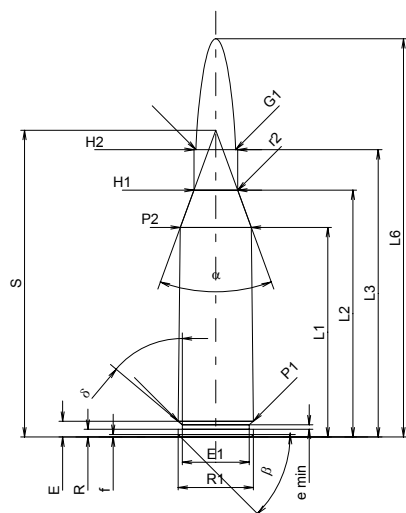
7,62 UKM

Country of Origin: DE

TAB. I

Date 02-01-22

Revision 02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	41.57	-0.20
L2 ¹⁾ *	=	48.96	-0.20
L3 ¹⁾	=	57.00	
L4	=		
L5	=		
L6	=	79.00	

Case Head

R	=	1.52	
R1	=	14.93	
R3	=		
E	=	3.12	
E1	=	13.24	
e min	=	0.90	
delta	=	50°01'34"	
f	=	0.50	
beta	=	45°	

Powder Chamber

P1	=	14.91	
P2 ¹⁾ *	=	14.08	-0.20

Junction Cone

alpha	=	40°08'26"	
S	=	60.84	
r1 min	=		
r2	=	2.00	

Collar

H1 *	=	8.68	
H2 ¹⁾	=	8.68	

Projectile

G1 ¹⁾	=	7.85	
G2	=		
F	=		
L3+G ¹⁾	=	64.89	

Pressures (Energies)

Method Transducer

Pmax	=	4700 bar	
PK	=	5405 bar	
PE	=	5875 bar	
M	=	25.00	
EE	=	5565 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	41.50	
L2 *	=	48.93	
L3 ¹⁾	=	57.20	

Breech

R	=		
R1	=	15.03	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.12	
P1 ¹⁾	=	14.96	
P2 *	=	14.13	

Junction Cone

alpha ¹⁾	=	40°00'32"	
S	=	60.91	
r1 max	=		
r2	=	2.50	

Collar

H1 *	=	8.72	
H2 ¹⁾	=	8.70	

Commencement of Rifling

G1 ¹⁾ *	=	7.85	
G ¹⁾ *	=	7.89	
alpha 1	=	44°50'39"	
h	=	1.03	
s *	=	3.50	
i ¹⁾	=	1°30'02"	
w	=		

Barrel

F ¹⁾ *	=	7.62	
Z ¹⁾	=	7.82	

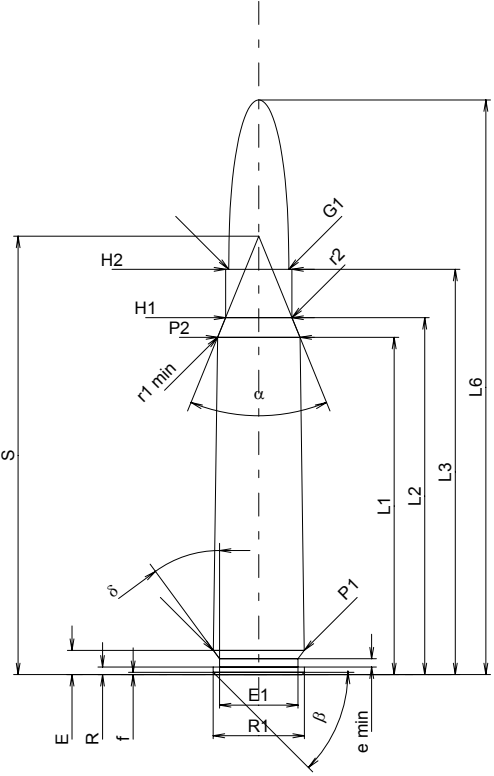
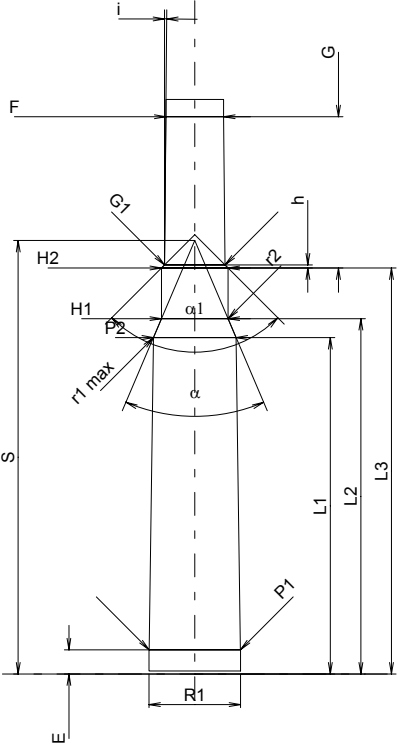
Grooves

b	=	2.79	
N	=	6	
u	=	254.00	
Q	=	47.32	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	7,65 x 53 Arg. Country of Origin: DE	TAB.	I
		Date	84-06-14
		Revision	02-05-15
	CARTRIDGE MAXI Lengths L1 ¹⁾ * = 44.60 -0.20 L2 ¹⁾ * = 47.20 -0.20 L3 ¹⁾ = 53.60 L4 = L5 = L6 = 76.00 Case Head R = 1.00 R1 = 12.05 R3 = E = 3.20 E1 = 10.40 e min = 1.10 δ = 35°41'24" f = 0.30 β = 45° Powder Chamber P1 = 12.01 P2 ¹⁾ * = 10.90 -0.20 Junction Cone α = 44°21'38" S = 57.97 r1 min = 2.20 r2 = 2.20 Collar H1 ¹⁾ * = 8.78 H2 = 8.78 Projectile G1 ¹⁾ = 7.94 G2 = F = L3+G ¹⁾ = 73.60 Pressures (Energies) Method Transducer Pmax = 3900 bar PK = 4485 bar PE = 4875 bar M = 25.00 EE = 3700 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =		CHAMBER MINI Lengths L1 * = 44.50 L2 * = 47.00 L3 ¹⁾ = 53.70 Breech R = 1.00 R1 = 12.13 R2 = R3 = r = Powder Chamber E = 3.20 P1 ¹⁾ = 12.05 P2 * = 10.93 Junction Cone α ¹⁾ = 46°08'52" S = 57.33 r1 max = 2.20 r2 = 2.20 Collar H1 * = 8.80 H2 ¹⁾ = 8.80 Commencement of Rifling G1 ¹⁾ * = 8.00 G ¹⁾ * = 20.00 α1 = 90° h * = 0.40 s = i ¹⁾ = 0°30'41" w = Barrel F ¹⁾ * = 7.65 Z ¹⁾ = 7.92 Grooves b = 4.20 N = 4 u = 280.00 Q = 48.36 mm ²
			
Scale 1:1			
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		Notes: 1) Check for safety reasons * Basic dimensions	

C.I.P.

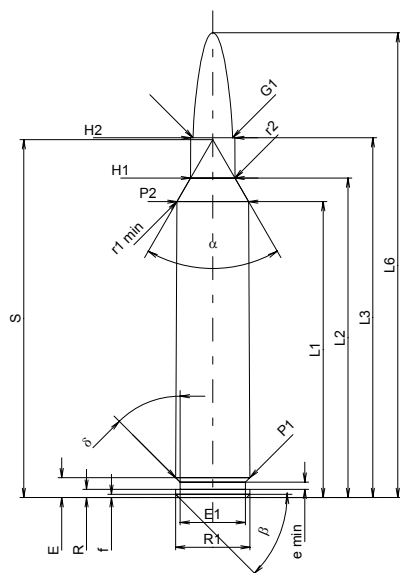
7,82 Warbird

Country of Origin: FI

TAB. I

Date 00-02-15

Revision 02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	58.70	-0.20
L2 ¹⁾ *	=	63.40	-0.20
L3 ¹⁾	=	71.37	
L4	=		
L5	=		
L6	=	92.20	

Case Head

R	=	1.65	
R1	=	14.76	
R3	=		
E	=	3.94	
E1	=	12.95	
e min	=	1.40	
δ	=	45°	
f	=	0.64	
β	=	45°	

Powder Chamber

P1	=	14.73	
P2 ¹⁾ *	=	14.22	-0.20

Junction Cone

α	=	60°01'36"	
S	=	71.01	
r1 min	=	1.57	
r2	=	1.57	

Collar

H1 *	=	8.79	
H2 ¹⁾	=	8.76	

Projectile

G1 ¹⁾	=	7.84	
G2	=		
F	=		
L3+G ¹⁾	=	76.33	

Pressures (Energies)

Method Transducer

Pmax	=	4600 bar	
PK	=	5290 bar	
PE	=	5750 bar	
M	=	25.00	
EE	=	6760 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	58.58	
L2 *	=	63.31	
L3 ¹⁾	=	71.63	

Breech

R	=		
R1	=	14.81	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.94	
P1 ¹⁾	=	14.78	
P2 *	=	14.30	

Junction Cone

α ¹⁾	=	59°59'02"	
S	=	70.97	
r1 max	=	1.57	
r2	=	1.57	

Collar

H1 *	=	8.84	
H2 ¹⁾	=	8.81	

Commencement of Rifling

G1 ¹⁾ *	=	7.85	
G ¹⁾ *	=	4.96	
α1	=	90°	
h	=	0.48	
s *	=	2.33	
i ¹⁾	=	2°30'13"	
w	=		

Barrel

F ¹⁾ *	=	7.62	
Z ¹⁾	=	7.82	

Grooves

b	=	2.91	
N	=	6	
u	=	305.00	
Q	=	47.38	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

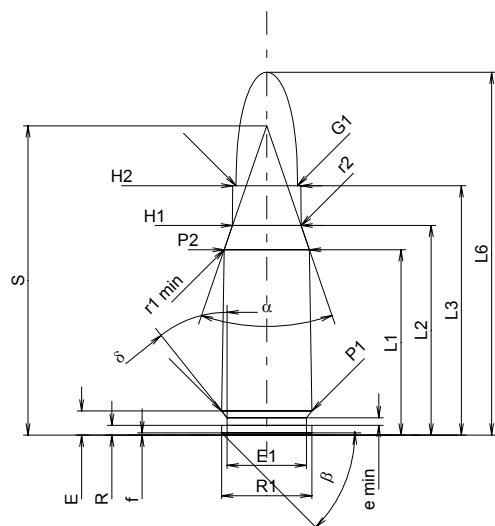
7,92 x 33 Kurz

Country of Origin: DE

TAB. I

Date 84-06-14

Revision 02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	24.53	-0.20
L2 ¹⁾ *	=	27.74	-0.20
L3 ¹⁾	=	33.00	
L4	=		
L5	=		
L6	=	48.00	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.20	
E1	=	10.50	
e min	=	1.00	
δ	=	38°39'36"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.94	
P2 ¹⁾ *	=	11.28	-0.20

Junction Cone

α	=	37°59'26"	
S	=	40.91	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.07	
H2 ¹⁾	=	9.00	

Projectile

G1 ¹⁾	=	8.13	
G2	=		
F	=		
L3+G ¹⁾	=	39.20	

Pressures (Energies)

Method Transducer

Pmax	=	3400 bar	
PK	=	3910 bar	
PE	=	4250 bar	
M	=	25.00	
EE	=	1770 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	24.49	
L2 *	=	27.70	
L3 ¹⁾	=	33.30	

Breech

R	=	1.30	
R1	=	12.00	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	11.97	
P2 *	=	11.31	

Junction Cone

α ¹⁾	=	37°59'27"	
S	=	40.92	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.10	
H2 ¹⁾	=	9.03	

Commencement of Rifling

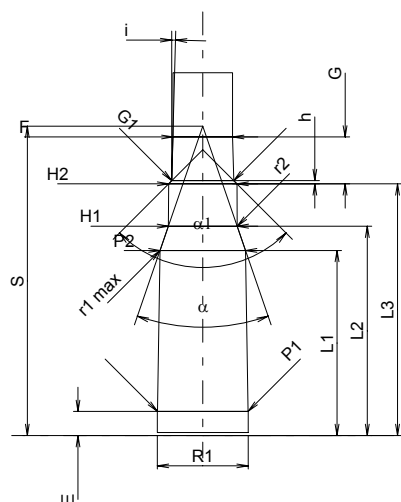
G1 ¹⁾ *	=	8.20	
G ¹⁾ *	=	6.20	
α1	=	90°	
h *	=	0.42	
s	=		
i ¹⁾	=	1°32'10"	
w	=		

Barrel

F ¹⁾ *	=	7.89	
Z ¹⁾	=	8.15	

Grooves

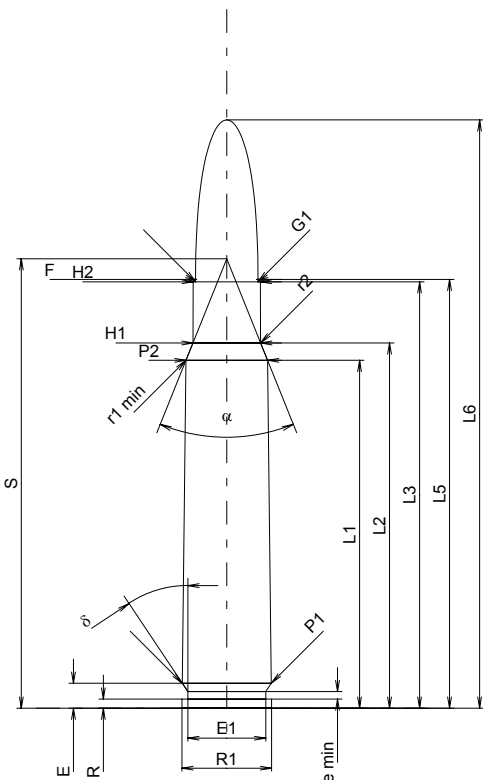
b	=	4.40	
N	=	4	
u	=	240.00	
Q	=	51.31	mm ²



Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	8 x 56 M.-Sch.	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: AT			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ * = 46.00 -0.20 L2 ¹⁾ * = 48.30 -0.20 L3 ¹⁾ = 56.40 L4 = L5 = 56.70 L6 = 77.80 Case Head R = 1.20 R1 = 11.85 R3 = E = 3.30 E1 = 10.30 e min = 1.00 δ = 33°45' f = β = 90° Powder Chamber P1 = 11.77 P2 ¹⁾ * = 10.80 +0.20 Junction Cone α = 43°49'02" S = 59.43 r1 min = 0.50 r2 = 0.50 Collar H1 * = 8.95 H2 ¹⁾ = 8.90 Projectile G1 ¹⁾ = 8.25 G2 = 8.25 F = L3+G ¹⁾ = 77.50 Pressures (Energies) Method Transducer Pmax = 3200 bar PK = 3680 bar PE = 4000 bar M = 25.00 EE = 2860 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	Lengths L1 * = 46.00 L2 * = 48.30 L3 ¹⁾ = 56.40 Breech R = 1.20 R1 = 11.90 R2 = R3 = r = Powder Chamber E = 3.30 P1 ¹⁾ = 11.83 P2 * = 10.85 Junction Cone α ¹⁾ = 43°49'01" S = 59.49 r1 max = 0.50 r2 = 0.50 Collar H1 * = 9.00 H2 ¹⁾ = 8.95 Commencement of Rifling G1 ¹⁾ * = 8.40 G ¹⁾ * = 21.10 α1 = 180° h = s = i ¹⁾ = 0°36'38" w = Barrel F ¹⁾ * = 7.95 Z ¹⁾ = 8.30 Grooves b = 3.80 N = 4 u = 250.00 Q = 52.41 mm ²	
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.

8 x 57 I

Country of Origin: DE

TAB.

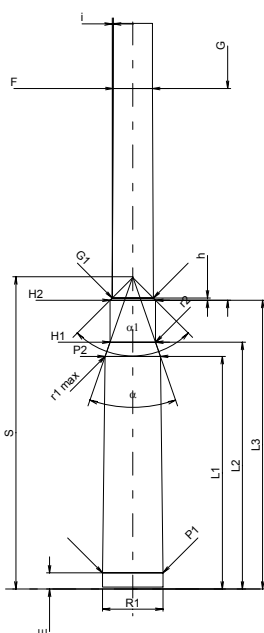
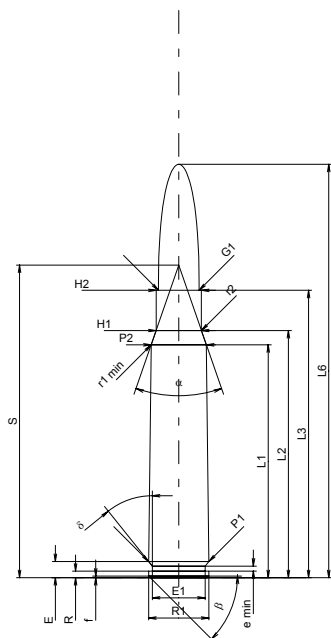
I

Date

84-06-14

Revision

02-05-15



Scale 1:1.5

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	46.20	-0.20
L2 ¹⁾ *	=	49.03	-0.20
L3 ¹⁾	=	57.00	
L4	=		
L5	=		
L6	=	82.00	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.20	
E1	=	10.50	
e min	=	1.00	
δ	=	38°39'36"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.94	
P2 ¹⁾ *	=	10.95	-0.20

Junction Cone

α	=	38°12'02"	
S	=	62.01	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	8.99	
H2 ¹⁾	=	8.99	

Projectile

G1 ¹⁾	=	8.09	
G2	=		
F	=		
L3+G ¹⁾	=	99.00	

Pressures (Energies)

Method Transducer

Pmax	=	3800 bar	
PK	=	4370 bar	
PE	=	4750 bar	
M	=	25.00	
EE	=	3950 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	46.16	
L2 *	=	48.98	
L3 ¹⁾	=	57.30	

Breech

R	=	1.30	
R1	=	12.00	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	11.97	
P2 *	=	10.98	

Junction Cone

α ¹⁾	=	38°19'33"	
S	=	61.96	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.02	
H2 ¹⁾	=	9.01	

Commencement of Rifling

G1 ¹⁾ *	=	8.15	
G ¹⁾ *	=	42.00	
α1	=	90°	
h *	=	0.43	
s	=		
i ¹⁾	=	0°14'28"	
w	=		

Barrel

F ¹⁾ *	=	7.80	
Z ¹⁾	=	8.07	

Grooves

b	=	4.40	
N	=	4	
u	=	240.00	
Q	=	50.30	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

8 x 57 IS

Country of Origin: DE

TAB.

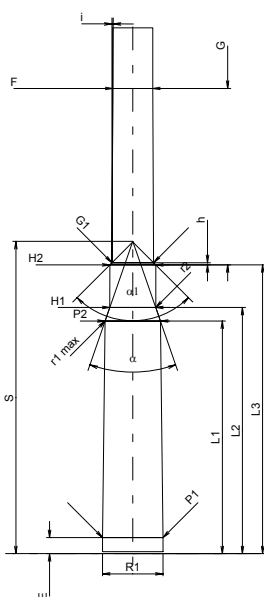
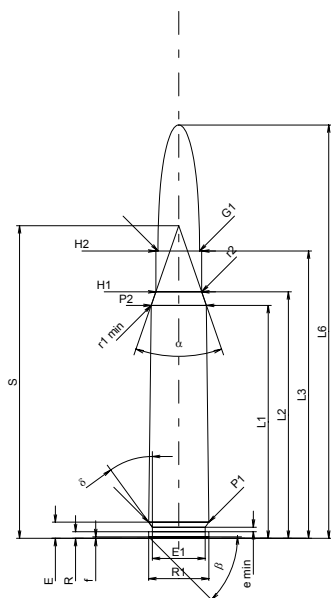
I

Date

84-06-14

Revision

02-05-15



Scale 1:1.5

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	46.20	-0.20
L2 ¹⁾ *	=	48.90	-0.20
L3 ¹⁾	=	57.00	
L4	=		
L5	=		
L6	=	82.00	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.19	
E1	=	10.50	
e min	=	0.90	
delta	=	36°	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	11.94	
P2 ¹⁾ *	=	10.95	-0.20

Junction Cone

alpha	=	38°12'06"	
S	=	62.01	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.08	
H2 ¹⁾	=	9.08	

Projectile

G1 ¹⁾	=	8.22	
G2	=		
F	=		
L3+G ¹⁾	=	92.00	

Pressures (Energies)

Method Transducer

Pmax	=	3900 bar	
PK	=	4485 bar	
PE	=	4875 bar	
M	=	25.00	
EE	=	4300 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	46.16	
L2 *	=	48.85	
L3 ¹⁾	=	57.30	

Breech

R	=	1.30	
R1	=	12.00	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.19	
P1 ¹⁾	=	11.97	
P2 *	=	10.98	

Junction Cone

alpha ¹⁾	=	38°19'58"	
S	=	61.95	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.11	
H2 ¹⁾	=	9.10	

Commencement of Rifling

G1 ¹⁾ *	=	8.24	
G ¹⁾ *	=	35.00	
alpha l	=	90°	
h *	=	0.43	
s	=		
i ¹⁾	=	0°17'11"	
w	=		

Barrel

F ¹⁾ *	=	7.89	
Z ¹⁾	=	8.20	

Grooves

b	=	4.40	
N	=	4	
u	=	240.00	
Q	=	51.78	mm²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

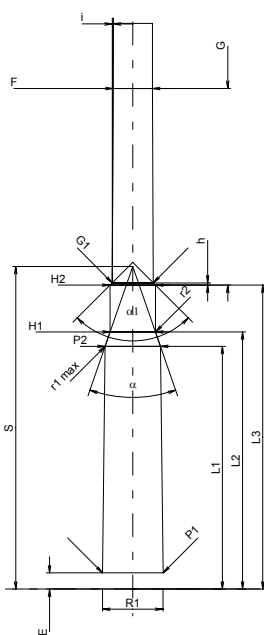
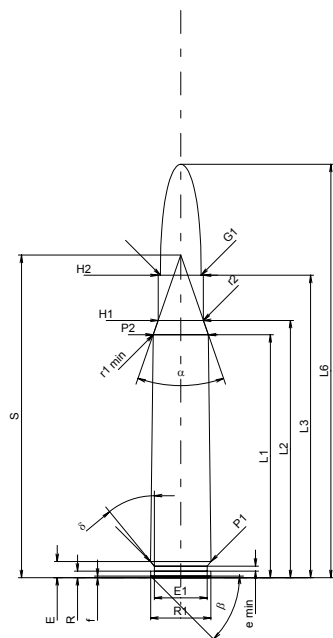
8 x 60

Country of Origin: DE

TAB. I

Date 84-06-14

Revision 02-05-15



Scale 1:1.5

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	48.20	-0.20
L2 ¹⁾ *	=	51.04	-0.20
L3 ¹⁾	=	60.00	
L4	=		
L5	=		
L6	=	82.00	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.20	
E1	=	10.50	
e min	=	1.00	
δ	=	39°25'12"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.98	
P2 ¹⁾ *	=	10.95	-0.20

Junction Cone

α	=	38°15'22"	
S	=	63.99	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	8.98	
H2 ¹⁾	=	8.98	

Projectile

G1 ¹⁾	=	8.09	
G2	=		
F	=		
L3+G ¹⁾	=	99.00	

Pressures (Energies)

Method Transducer

Pmax	=	4050 bar	
PK	=	4658 bar	
PE	=	5060 bar	
M	=	25.00	
EE	=	3900 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	48.16	
L2 *	=	51.00	
L3 ¹⁾	=	60.30	

Breech

R	=	1.30	
R1	=	12.00	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	12.01	
P2 *	=	10.98	

Junction Cone

α ¹⁾	=	38°15'21"	
S	=	63.99	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.01	
H2 ¹⁾	=	9.02	

Commencement of Rifling

G1 ¹⁾ *	=	8.12	
G ¹⁾ *	=	39.00	
α1	=	90°	
h *	=	0.44	
s	=		
i ¹⁾	=	0°14'16"	
w	=		

Barrel

F ¹⁾ *	=	7.80	
Z ¹⁾	=	8.07	

Grooves

b	=	4.40	
N	=	4	
u	=	240.00	
Q	=	50.30	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

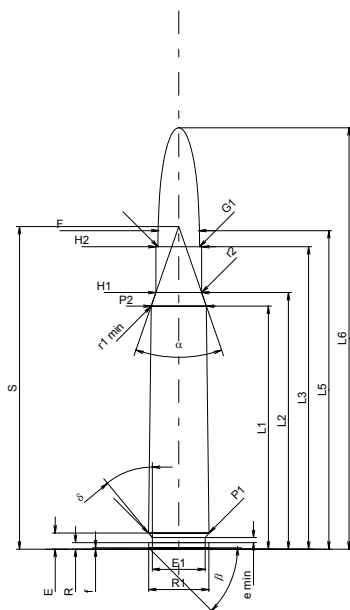
8 x 60 S

TAB. I

Date 84-06-14

Revision 02-05-15

Country of Origin: DE



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	48.20	-0.20
L2 ¹⁾ *	=	50.90	-0.20
L3 ¹⁾	=	60.00	
L4	=		
L5	=	63.20	
L6	=	83.60	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.20	
E1	=	10.50	
e min	=	1.00	
δ	=	39°25'48"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.98	
P2 ¹⁾ *	=	10.95	-0.20

Junction Cone

α	=	38°12'06"	
S	=	64.01	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.08	
H2 ¹⁾	=	9.08	

Projectile

G1 ¹⁾	=	8.22	
G2	=	8.18	
F	=		
L3+G ¹⁾	=	94.00	

Pressures (Energies)

Method Transducer

Pmax	=	4050 bar	
PK	=	4658 bar	
PE	=	5060 bar	
M	=	25.00	
EE	=	4285 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	48.16	
L2 *	=	50.85	
L3 ¹⁾	=	60.30	

Breech

R	=	1.30	
R1	=	12.00	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1	=	12.01	
P2 ¹⁾	=	10.98	

Junction Cone

α ¹⁾	=	38°19'58"	
S	=	63.95	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.11	
H2 ¹⁾	=	9.10	

Commencement of Rifling

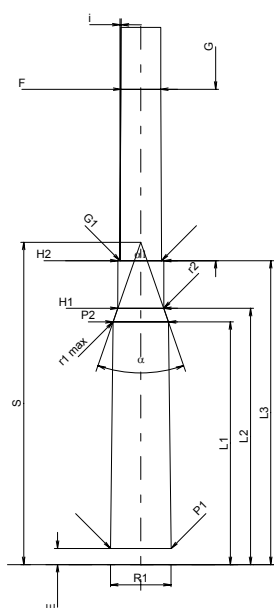
G1 ¹⁾ *	=	8.23	
G ¹⁾ *	=	34.00	
α1	=	180°	
h	=		
s	=		
i ¹⁾	=	0°17'11"	
w	=		

Barrel

F ¹⁾ *	=	7.89	
Z ¹⁾	=	8.20	

Grooves

b	=	4.40	
N	=	4	
u	=	240.00	
Q	=	51.78	mm ²



Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

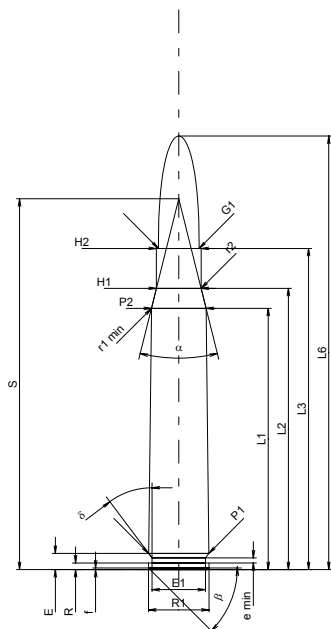
8 x 64

TAB. I

Date 84-06-14

Revision 02-05-15

Country of Origin: DE



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	51.80	-0.20
L2 ¹⁾ *	=	55.79	-0.20
L3 ¹⁾	=	63.70	
L4	=		
L5	=		
L6	=	86.00	

Case Head

R	=	1.30	
R1	=	12.00	
R3	=		
E	=	3.20	
E1	=	10.60	
e min	=	1.00	
δ	=	36°52'12"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.95	
P2 ¹⁾ *	=	10.85	-0.20

Junction Cone

α	=	28°00'18"	
S	=	73.55	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	8.86	
H2 ¹⁾	=	8.86	

Projectile

G1 ¹⁾	=	8.09	
G2	=		
F	=		
L3+G ¹⁾	=	97.70	

Pressures (Energies)

Method Transducer

Pmax	=	4050 bar	
PK	=	4658 bar	
PE	=	5060 bar	
M	=	25.00	
EE	=	4375 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	51.74	
L2 *	=	55.73	
L3 ¹⁾	=	64.00	

Breech

R	=	1.30	
R1	=	12.00	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	11.96	
P2 *	=	10.88	

Junction Cone

α ¹⁾	=	28°00'18"	
S	=	73.55	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	8.89	
H2 ¹⁾	=	8.88	

Commencement of Rifling

G1 ¹⁾ *	=	8.14	
G ¹⁾ *	=	34.00	
α1	=	90°	
h *	=	0.37	
s	=		
i ¹⁾	=	0°17'21"	
w	=		

Barrel

F ¹⁾ *	=	7.80	
Z ¹⁾	=	8.07	

Grooves

b	=	4.40	
N	=	4	
u	=	240.00	
Q	=	50.30	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

8 x 64 S

Country of Origin: DE

TAB.

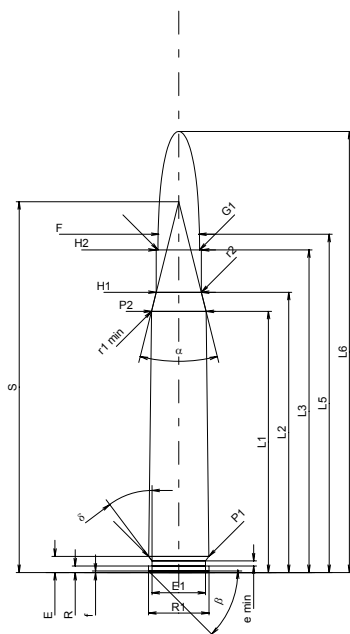
I

Date

84-06-14

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	51.80	-0.20
L2 ¹⁾ *	=	55.59	-0.20
L3 ¹⁾	=	64.00	
L4	=		
L5	=	67.10	
L6	=	87.50	

Case Head

R	=	1.30	
R1	=	12.00	
R3	=		
E	=	3.20	
E1	=	10.60	
e min	=	1.00	
δ	=	36°48'	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.95	
P2 ¹⁾ *	=	10.85	-0.20

Junction Cone

α	=	28°00'05"	
S	=	73.56	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	8.96	
H2 ¹⁾	=	8.96	

Projectile

G1 ¹⁾	=	8.22	
G2	=	8.18	
F	=		
L3+G ¹⁾	=	98.00	

Pressures (Energies)

Method Transducer

Pmax	=	4050 bar	
PK	=	4658 bar	
PE	=	5060 bar	
M	=	25.00	
EE	=	4595 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	51.74	
L2 *	=	55.53	
L3 ¹⁾	=	64.30	

Breech

R	=	1.30	
R1	=	12.05	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	11.98	
P2 *	=	10.88	

Junction Cone

α ¹⁾	=	28°00'03"	
S	=	73.56	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	8.99	
H2 ¹⁾	=	8.98	

Commencement of Rifling

G1 ¹⁾ *	=	8.23	
G ¹⁾ *	=	34.00	
α1	=	180°	
h	=		
s	=		
i ¹⁾	=	0°17'11"	
w	=		

Barrel

F ¹⁾ *	=	7.89	
Z ¹⁾	=	8.20	

Grooves

b	=	4.40	
N	=	4	
u	=	240.00	
Q	=	51.78	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

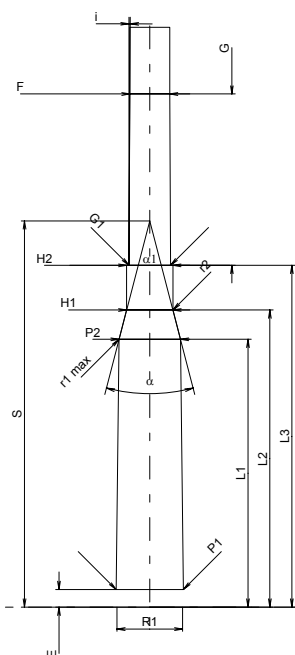
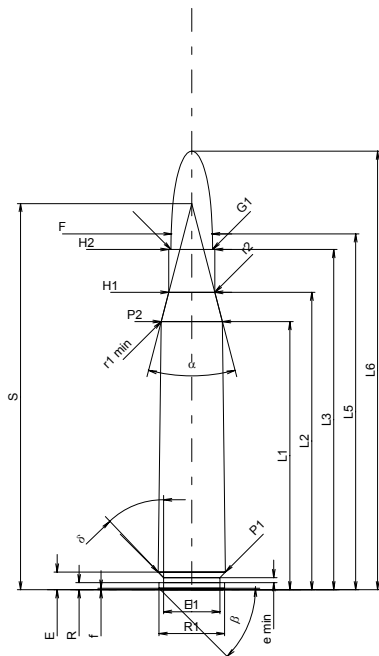
8 x 68 S

Country of Origin: DE

TAB. I

Date 84-06-14

Revision 02-05-15



Scale 1:1.5

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	53.20	-0.20
L2 ¹⁾ *	=	59.00	-0.20
L3 ¹⁾	=	67.50	
L4	=		
L5	=	70.60	
L6	=	87.00	

Case Head

R	=	1.40	
R1	=	13.00	
R3	=		
E	=	3.50	
E1	=	11.20	
e min	=	1.00	
delta	=	43°42'	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	13.30	
P2 ¹⁾ *	=	12.15	-0.20

Junction Cone

alpha	=	29°05'34"	
S	=	76.61	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.14	
H2 ¹⁾	=	9.14	

Projectile

G1 ¹⁾	=	8.22	
G2	=	8.18	
F	=		
L3+G ¹⁾	=	101.50	

Pressures (Energies)

Method Transducer

Pmax	=	4400 bar	
PK	=	5060 bar	
PE	=	5500 bar	
M	=	25.00	
EE	=	5975 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	53.14	
L2 *	=	58.94	
L3 ¹⁾	=	67.80	

Breech

R	=	1.40	
R1	=	13.05	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.50	
P1 ¹⁾	=	13.33	
P2 *	=	12.18	

Junction Cone

alpha ¹⁾	=	29°05'34"	
S	=	76.61	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.17	
H2 ¹⁾	=	9.16	

Commencement of Rifling

G1 ¹⁾ *	=	8.23	
G ¹⁾ *	=	34.00	
alpha l	=	180°	
h	=		
s	=		
i ¹⁾	=	0°17'11"	
w	=		

Barrel

F ¹⁾ *	=	7.89	
Z ¹⁾	=	8.20	

Grooves

b	=	4.40	
N	=	4	
u	=	280.00	
Q	=	51.78	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

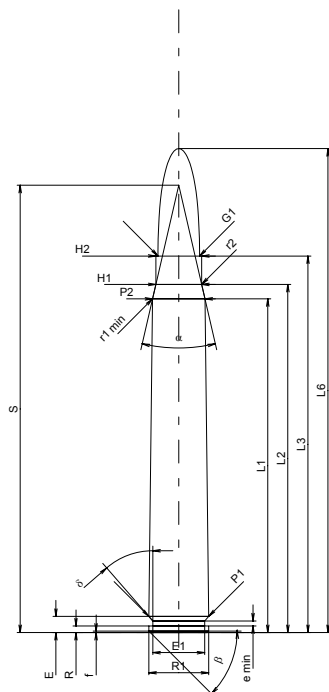
8 x 75 S

TAB. I

Date 84-06-14

Revision 02-05-15

Country of Origin: DE



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	66.20	-0.20
L2 ¹⁾ *	=	69.06	-0.20
L3 ¹⁾	=	74.70	
L4	=		
L5	=		
L6	=	96.00	

Case Head

R	=	1.30	
R1	=	11.90	
R3	=		
E	=	3.20	
E1	=	10.30	
e min	=	1.00	
δ	=	40°54'	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.86	
P2 ¹⁾ *	=	10.40	-0.20

Junction Cone

α	=	25°59'21"	
S	=	88.73	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.08	
H2 ¹⁾	=	9.08	

Projectile

G1 ¹⁾	=	8.22	
G2	=		
F	=		
L3+G ¹⁾	=	108.70	

Pressures (Energies)

Method Transducer

Pmax	=	4400 bar	
PK	=	5060 bar	
PE	=	5500 bar	
M	=	25.00	
EE	=	4750 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	66.13	
L2 *	=	68.99	
L3 ¹⁾	=	75.00	

Breech

R	=	1.30	
R1	=	11.95	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	11.89	
P2 *	=	10.43	

Junction Cone

α ¹⁾	=	25°59'20"	
S	=	88.73	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.11	
H2 ¹⁾	=	9.10	

Commencement of Rifling

G1 ¹⁾ *	=	8.23	
G ¹⁾ *	=	34.00	
α1	=	180°	
h	=		
s	=		
i ¹⁾	=	0°17'11"	
w	=		

Barrel

F ¹⁾ *	=	7.89	
Z ¹⁾	=	8.20	

Grooves

b	=	4.40	
N	=	4	
u	=	240.00	
Q	=	51.78	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	9 x 56 Mannl. Sch. Country of Origin: AT	TAB. I
		Date 95-06-28
		Revision 02-05-15
	CARTRIDGE MAXI Lengths L1 ¹⁾ * = 46.48 -0.20 L2 ¹⁾ * = 48.00 -0.20 L3 ¹⁾ = 56.30 L4 = L5 = L6 = 81.00 Case Head R = 1.20 R1 = 11.90 R3 = E = 3.20 E1 = 10.30 e min = 1.00 δ = 36°06'33" f = 0.30 β = 45° Powder Chamber P1 = 11.80 P2 ¹⁾ * = 10.70 -0.20 Junction Cone α = 38°06'33" S = 61.97 r1 min = 0.50 r2 = 0.50 Collar H1* = 9.65 H2 ¹⁾ = 9.65 Projectile G1 ¹⁾ = 9.08 G2 = F = L3+G ¹⁾ = 71.50 Pressures (Energies) Method Transducer Pmax = 2080 bar PK = 2392 bar PE = 2600 bar M = 25.00 EE = 2815 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	CHAMBER MINI Lengths L1* = 46.41 L2* = 47.93 L3 ¹⁾ = 56.80 Breech R = 1.20 R1 = 11.95 R2 = R3 = r = Powder Chamber E = 3.20 P1 ¹⁾ = 11.85 P2* = 10.75 Junction Cone α ¹⁾ = 38°06'32" S = 61.97 r1 max = 0.50 r2 = 0.50 Collar H1* = 9.70 H2 ¹⁾ = 9.68 Commencement of Rifling G1 ¹⁾ * = 9.18 G ¹⁾ * = 15.20 α1 = 180° h = s = i ¹⁾ = 0°42'58" w = Barrel F ¹⁾ * = 8.80 Z ¹⁾ = 9.15 Grooves b = 4.40 N = 4 u = 280.00 Q = 64.04 mm ²
Scale 1:1		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		Notes: 1) Check for safety reasons * Basic dimensions

[illegible]

C.I.P.

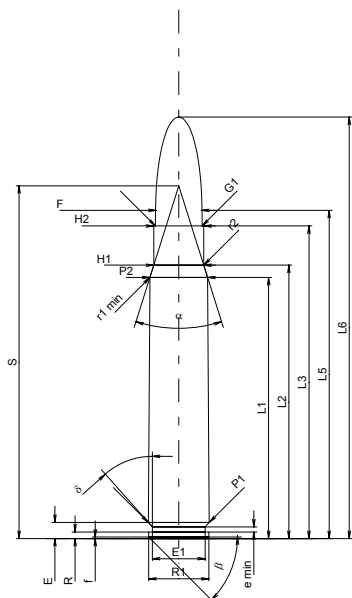
9,3 x 62

Country of Origin: DE

TAB. I

Date 84-06-14

Revision 02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	51.79	-0.20
L2 ¹⁾ *	=	54.22	-0.20
L3 ¹⁾	=	62.00	
L4	=		
L5	=	65.10	
L6	=	83.60	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.20	
E1	=	10.50	
e min	=	1.00	
delta	=	41°37'48"	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	12.10	
P2 ¹⁾ *	=	11.45	-0.20

Junction Cone

alpha	=	34°56'57"	
S	=	69.98	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.92	
H2 ¹⁾	=	9.92	

Projectile

G1 ¹⁾	=	9.30	
G2	=	9.30	
F	=		
L3+G ¹⁾	=	90.00	

Pressures (Energies)

Method Transducer

Pmax	=	3900 bar	
PK	=	4485 bar	
PE	=	4875 bar	
M	=	25.00	
EE	=	5335 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	51.75	
L2 *	=	54.17	
L3 ¹⁾	=	62.30	

Breech

R	=	1.30	
R1	=	12.00	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	12.13	
P2 *	=	11.48	

Junction Cone

alpha ¹⁾	=	35°05'06"	
S	=	69.91	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.95	
H2 ¹⁾	=	9.94	

Commencement of Rifling

G1 ¹⁾ *	=	9.35	
G ¹⁾ *	=	28.00	
alpha l	=	180°	
h	=		
s	=		
i ¹⁾	=	0°21'29"	
w	=		

Barrel

F ¹⁾ *	=	9.00	
Z ¹⁾	=	9.28	

Grooves

b	=	4.60	
N	=	4	
u	=	360.00	
Q	=	66.32	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

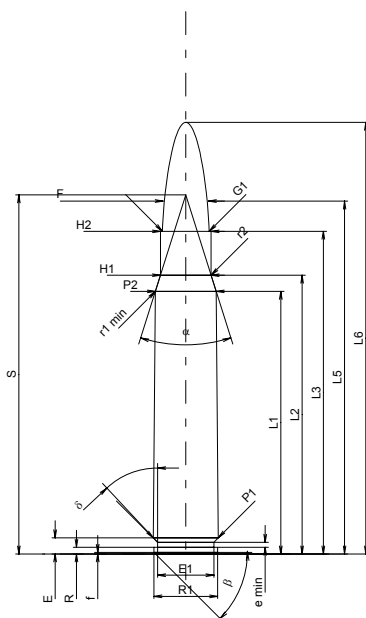
9,3 x 64 Brenneke

TAB. I

Date 84-06-14

Revision 02-05-15

Country of Origin: DE



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	52.09	-0.20
L2 ¹⁾ *	=	55.28	-0.20
L3 ¹⁾	=	64.00	
L4	=		
L5	=	70.00	
L6	=	85.60	

Case Head

R	=	1.30	
R1	=	12.60	
R3	=		
E	=	3.20	
E1	=	11.20	
e min	=	1.00	
δ	=	43°	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	12.88	
P2 ¹⁾ *	=	12.05	-0.20

Junction Cone

α	=	34°58'26"	
S	=	71.21	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	10.04	
H2 ¹⁾	=	10.04	

Projectile

G1 ¹⁾	=	9.30	
G2	=	9.25	
F	=		
L3+G ¹⁾	=	92.00	

Pressures (Energies)

Method Transducer

Pmax	=	4400 bar	
PK	=	5060 bar	
PE	=	5500 bar	
M	=	25.00	
EE	=	5335 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	52.04	
L2 *	=	55.23	
L3 ¹⁾	=	64.30	

Breech

R	=	1.30	
R1	=	12.65	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	12.91	
P2 *	=	12.08	

Junction Cone

α ¹⁾	=	34°58'26"	
S	=	71.21	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	10.07	
H2 ¹⁾	=	10.06	

Commencement of Rifling

G1 ¹⁾ *	=	9.35	
G ¹⁾ *	=	28.00	
α1	=	180°	
h	=		
s	=		
i ¹⁾	=	0°21'29"	
w	=		

Barrel

F ¹⁾ *	=	9.00	
Z ¹⁾	=	9.28	

Grooves

b	=	4.60	
N	=	4	
u	=	360.00	
Q	=	66.32	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

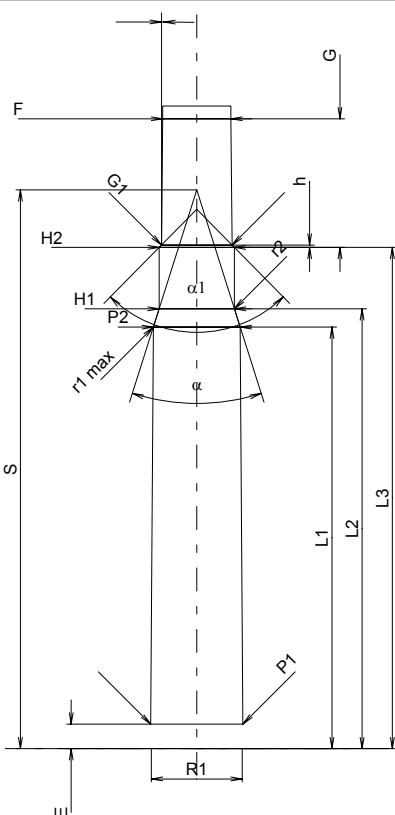
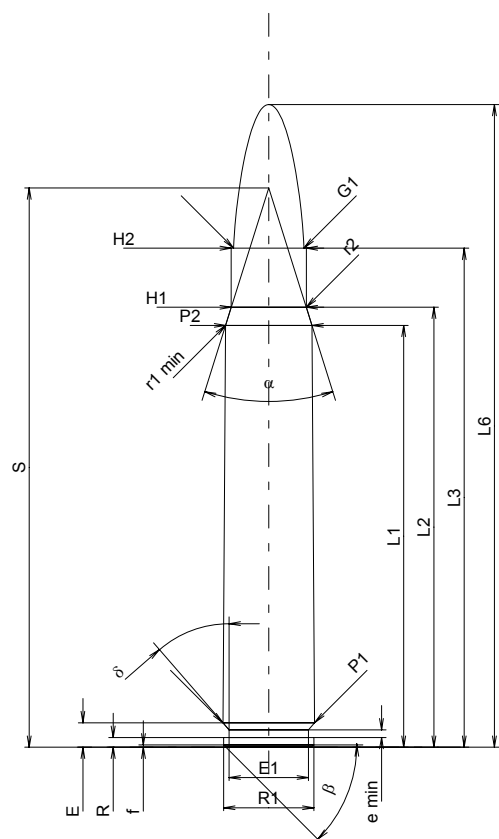
C.I.P.**9,3 x 66 Sako**

Country of Origin: FI

TAB. I

Date 02-01-22

Revision 02-05-15



Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

CARTRIDGE MAXI**Lengths**

L1 ¹⁾ *	=	55.80	-0.20
L2 ¹⁾ *	=	58.20	-0.20
L3 ¹⁾	=	66.00	
L4	=		
L5	=		
L6	=	85.00	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.24	
E1	=	10.50	
e min	=	1.00	
delta	=	41°	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	12.13	
P2 ¹⁾ *	=	11.43	-0.20

Junction Cone

alpha	=	34°55'31"	
S	=	73.97	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.92	
H2 ¹⁾	=	9.92	

Projectile

G1 ¹⁾	=	9.30	
G2	=		
F	=		
L3+G ¹⁾	=	83.01	

Pressures (Energies)**Method Transducer**

Pmax	=	4150 bar	
PK	=	4773 bar	
PE	=	5188 bar	
M	=	25.00	
EE	=	6000 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI**Lengths**

L1 *	=	55.75	
L2 *	=	58.17	
L3 ¹⁾	=	66.30	

Breech

R	=		
R1	=	12.00	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.24	
P1 ¹⁾	=	12.18	
P2 *	=	11.48	

Junction Cone

alpha ¹⁾	=	35°05'06"	
S	=	73.91	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	9.95	
H2 ¹⁾	=	9.94	

Commencement of Rifling

G1 ¹⁾ *	=	9.35	
G ¹⁾ *	=	17.01	
alpha1	=	89°02'12"	
h *	=	0.30	
s	=		
i ¹⁾	=	0°36'	
w	=		

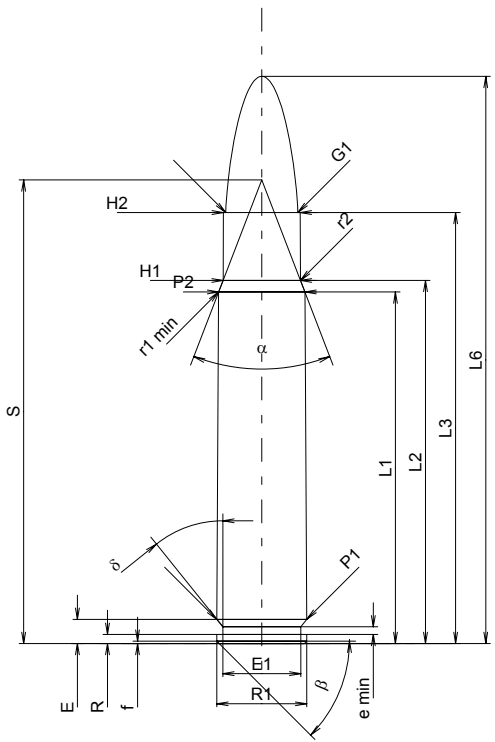
Barrel

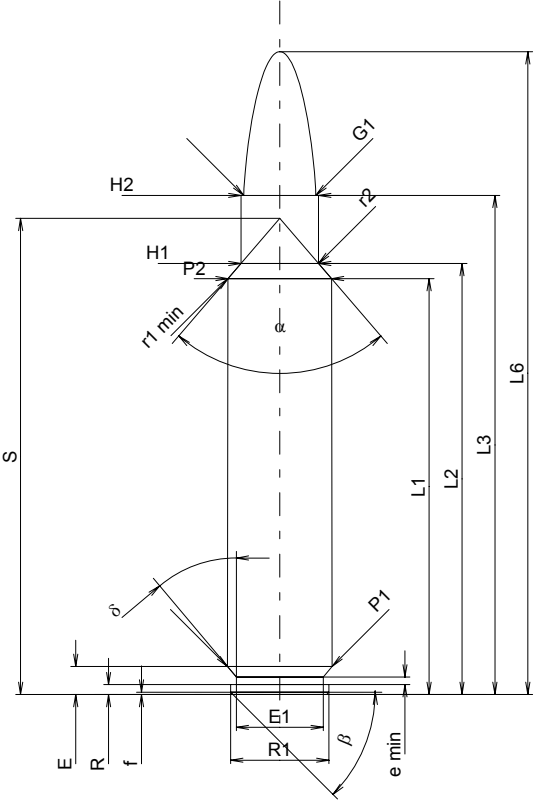
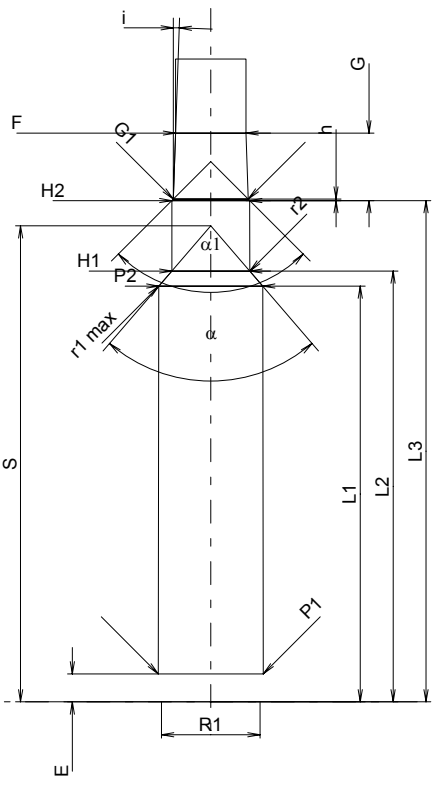
F ¹⁾ *	=	9.00	
Z ¹⁾	=	9.28	

Grooves

b	=	3.14	
N	=	6	
u	=	360.00	
Q	=	66.31	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	9,5 x 57 Mannl. Sch.	TAB.	I
		Date	95-06-28
		Revision	02-05-15
Country of Origin: AT			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ^{1)*} = 46.50 -0.20 L2 ^{1)*} = 48.02 -0.20 L3 ¹⁾ = 57.00 L4 = L5 = L6 = 75.00 Case Head R = 1.20 R1 = 11.90 R3 = E = 3.20 E1 = 10.30 e min = 1.00 δ = 38°39'35" f = 0.30 β = 45° Powder Chamber P1 = 11.90 P2 ^{1)*} = 11.40 -0.20 Junction Cone α = 42°06'01" S = 61.31 r1 min = 0.50 r2 = 0.50 Collar H1 [*] = 10.23 H2 ¹⁾ = 10.18 Projectile G1 ¹⁾ = 9.55 G2 = F = L3+G ¹⁾ = 68.40 Pressures (Energies) Method Transducer Pmax = 3050 bar PK = 3508 bar PE = 3810 bar M = 25.00 EE = 6065 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	Lengths L1 [*] = 46.46 L2 [*] = 47.96 L3 ¹⁾ = 57.30 Breech R = 1.20 R1 = 11.95 R2 = R3 = r = Powder Chamber E = 3.20 P1 ¹⁾ = 11.93 P2 [*] = 11.43 Junction Cone α ¹⁾ = 41°56'49" S = 61.37 r1 max = 0.50 r2 = 0.50 Collar H1 [*] = 10.28 H2 ¹⁾ = 10.22 Commencement of Rifling G1 ^{1)*} = 9.65 G ^{1)*} = 11.40 α1 = 180° h = s = i ¹⁾ = 0°57'17" w = Barrel F ^{1)*} = 9.27 Z ¹⁾ = 9.62 Grooves b = 4.60 N = 4 u = 300.00 Q = 70.85 mm ²	
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.	9,5 x 66 SE v. H.	TAB.	I
		Date	96-05-24
		Revision	02-05-15
Country of Origin: DE			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ * = 55.00 -0.20 L2 ¹⁾ * = 57.00 -0.20 L3 ¹⁾ = 66.00 L4 = L5 = L6 = 85.00 Case Head R = 1.30 R1 = 13.00 R3 = E = 3.70 E1 = 11.50 e min = 1.00 δ = 40° f = 0.30 β = 45° Powder Chamber P1 = 13.85 P2 ¹⁾ * = 13.70 -0.20 Junction Cone α = 81°23'28" S = 62.97 r1 min = 0.50 r2 = 1.00 Collar H1 [*] = 10.26 H2 ¹⁾ = 10.26 Projectile G1 ¹⁾ = 9.55 G2 = F = L3+G ¹⁾ = 74.92 Pressures (Energies) Method Transducer Pmax = 4400 bar PK = 5060 bar PE = 5500 bar M = 25.00 EE = 6080 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	Lengths L1 [*] = 54.99 L2 [*] = 56.98 L3 ¹⁾ = 66.30 Breech R = 1.30 R1 = 13.05 R2 = R3 = r = Powder Chamber E = 3.70 P1 ¹⁾ = 13.88 P2 [*] = 13.73 Junction Cone α ¹⁾ = 81°30'36" S = 62.96 r1 max = 0.50 r2 = 1.00 Collar H1 [*] = 10.30 H2 ¹⁾ = 10.29 Commencement of Rifling G1 ¹⁾ * = 9.91 G ¹⁾ * = 8.92 α1 = 90° h [*] = 0.19 s = i ¹⁾ = 2°00'02" w = Barrel F ¹⁾ * = 9.30 Z ¹⁾ = 9.55 Grooves b = 2.92 N = 6 u = 305.00 Q = 70.16 mm ²	
			
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.

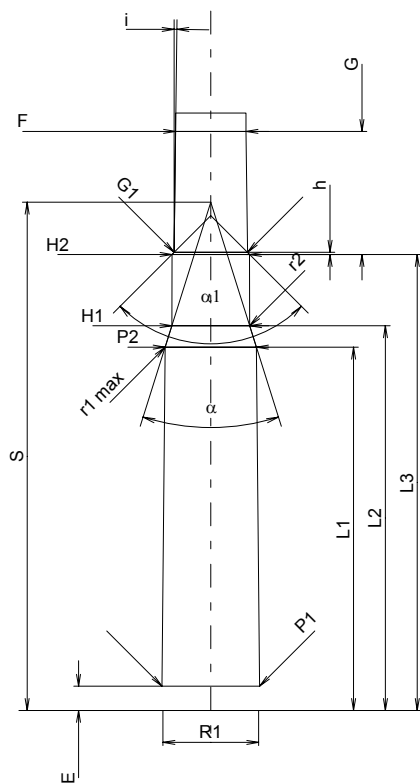
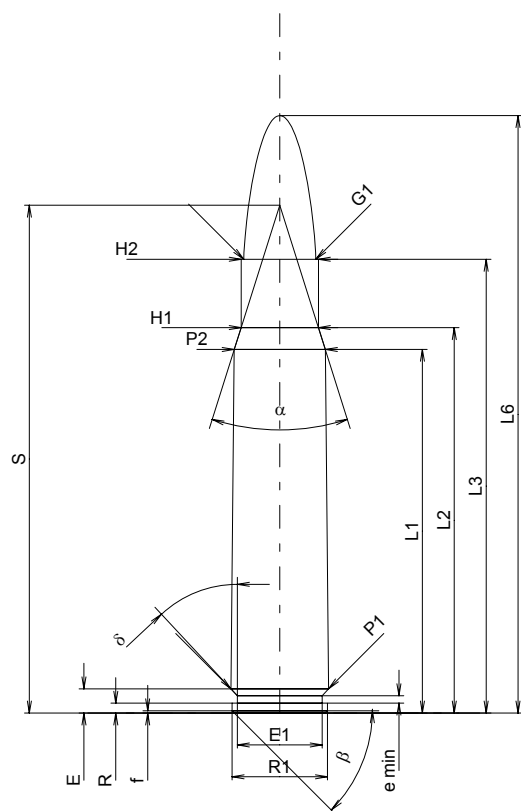
376 Steyr

Country of Origin: AT

TAB. I

Date 99-01-20

Revision 02-05-15



Scale 1:1

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	48.09	-0.20
L2 ¹⁾ *	=	50.97	-0.20
L3 ¹⁾	=	60.00	
L4	=		
L5	=		
L6	=	79.00	

Case Head

R	=	1.30	
R1	=	12.60	
R3	=		
E	=	3.20	
E1	=	11.20	
e min	=	1.00	
delta	=	43°	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	12.88	
P2 ¹⁾ *	=	12.05	-0.20

Junction Cone

alpha	=	35°04'13"	
S	=	67.16	
r1 min	=		
r2	=		

Collar

H1 *	=	10.23	
H2 ¹⁾	=	10.23	

Projectile

G1 ¹⁾	=	9.55	
G2	=		
F	=		
L3+G ¹⁾	=	76.28	

Pressures (Energies)

Method Transducer

Pmax	=	4300 bar	
PK	=	4945 bar	
PE	=	5375 bar	
M	=	25.00	
EE	=	5200 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	48.04	
L2 *	=	50.88	
L3 ¹⁾	=	60.30	

Breech

R	=	1.30	
R1	=	12.65	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	12.91	
P2 *	=	12.08	

Junction Cone

alpha ¹⁾	=	34°59'02"	
S	=	67.21	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	10.29	
H2 ¹⁾	=	10.26	

Commencement of Rifling

G1 ¹⁾ *	=	9.70	
G ¹⁾ *	=	16.28	
alpha1	=	90°	
h *	=	0.28	
s	=		
i ¹⁾	=	0°42'58"	
w	=		

Barrel

F ¹⁾ *	=	9.30	
Z ¹⁾	=	9.55	

Grooves

b	=	2.92	
N	=	6	
u	=	305.00	
Q	=	70.16	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

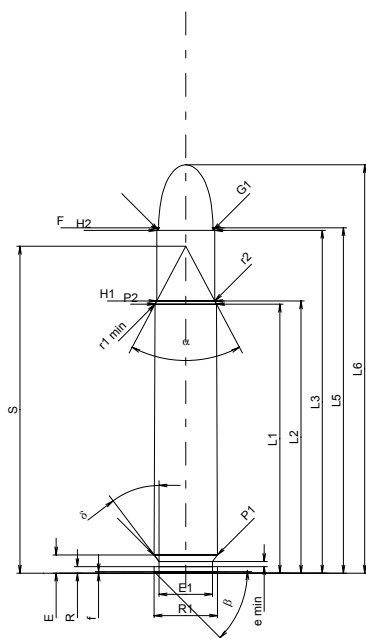
10,75 x 68

Country of Origin: DE

TAB. I

Date 84-06-14

Revision 02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	53.35	-0.20
L2 ¹⁾ *	=	54.00	-0.20
L3 ¹⁾	=	68.00	
L4	=		
L5	=	68.50	
L6	=	81.00	

Case Head

R	=	1.30	
R1	=	12.57	
R3	=		
E	=	3.60	
E1	=	10.60	
e min	=	1.00	
delta	=	37°06'36"	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	12.57	
P2 ¹⁾ *	=	12.20	-0.20

Junction Cone

alpha	=	55°54'58"	
S	=	64.84	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	11.51	
H2 ¹⁾	=	11.51	

Projectile

G1 ¹⁾	=	10.78	
G2	=	10.78	
F	=		
L3+G ¹⁾	=	98.00	

Pressures (Energies)

Method Transducer

Pmax	=	3300 bar	
PK	=	3795 bar	
PE	=	4125 bar	
M	=	25.00	
EE	=	5040 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	53.32	
L2 *	=	53.97	
L3 ¹⁾	=	68.30	

Breech

R	=	1.30	
R1	=	12.62	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.60	
P1 ¹⁾	=	12.60	
P2 *	=	12.23	

Junction Cone

alpha ¹⁾	=	55°54'57"	
S	=	64.84	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	11.54	
H2 ¹⁾	=	11.52	

Commencement of Rifling

G1 ¹⁾ *	=	10.82	
G ¹⁾ *	=	30.00	
alpha l	=	180°	
h	=		
s	=		
i ¹⁾	=	0°21'11"	
w	=		

Barrel

F ¹⁾ *	=	10.45	
Z ¹⁾	=	10.75	

Grooves

b	=	3.60	
N	=	6	
u	=	420.00	
Q	=	89.07	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

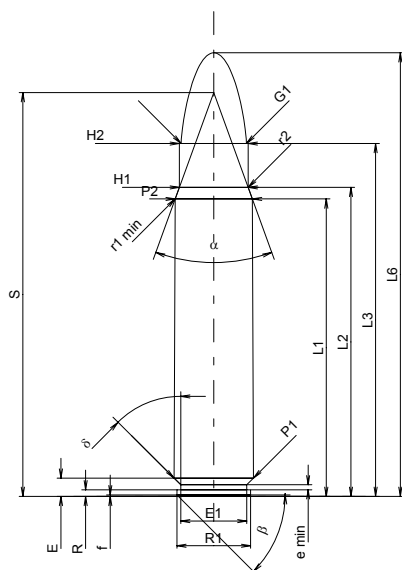
12,7 x 70 (500 Schüler)

TAB. I

Date 98-01-27

Revision 02-05-15

Country of Origin: DE



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	59.00	-0.20
L2 ¹⁾ *	=	61.30	-0.20
L3 ¹⁾	=	70.00	
L4	=		
L5	=		
L6	=	88.00	

Case Head

R	=	1.30	
R1	=	14.65	
R3	=		
E	=	3.61	
E1	=	13.10	
e min	=	1.00	
delta	=	45°	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	15.73	
P2 ¹⁾ *	=	15.32	-0.20

Junction Cone

alpha	=	39°54'22"	
S	=	80.10	
r1 min	=	3.00	
r2	=	4.00	

Collar

H1 *	=	13.65	
H2 ¹⁾	=	13.65	

Projectile

G1 ¹⁾	=	12.96	
G2	=		
F	=		
L3+G ¹⁾	=	77.22	

Pressures (Energies)

Method Transducer

Pmax	=	3300 bar	
PK	=	3795 bar	
PE	=	4125 bar	
M	=	25.00	
EE	=	9240 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	58.96	
L2 *	=	61.23	
L3 ¹⁾	=	70.50	

Breech

R	=	1.30	
R1	=	14.70	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.61	
P1 ¹⁾	=	15.76	
P2 *	=	15.35	

Junction Cone

alpha ¹⁾	=	39°56'45"	
S	=	80.08	
r1 max	=	1.00	
r2	=	4.00	

Collar

H1 *	=	13.70	
H2 ¹⁾	=	13.68	

Commencement of Rifling

G1 ¹⁾ *	=	13.05	
G ¹⁾ *	=	7.22	
alpha 1	=	90°	
h *	=	0.31	
s	=		
i ¹⁾	=	1°51'54"	
w	=		

Barrel

F ¹⁾ *	=	12.60	
Z ¹⁾	=	12.94	

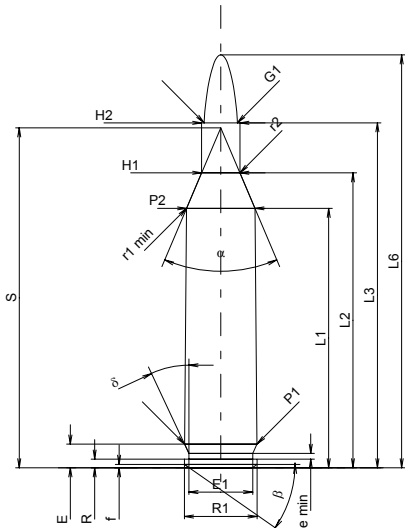
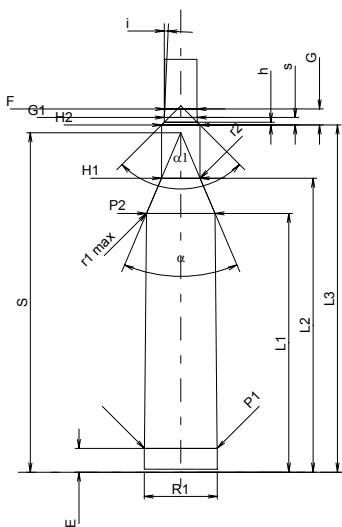
Grooves

b	=	3.58	
N	=	8	
u	=	450.00	
Q	=	129.62	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	17 Rem. Country of Origin: US	TAB.	I
		Date	84-06-14
		Revision	02-05-15
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 34.31 -0.20 L2 ¹⁾ = 39.01 -0.20 L3 ¹⁾ = 45.62 L4 = L5 = L6 = 54.61 Case Head R = 1.14 R1 = 9.60 R3 = E = 3.13 E1 = 8.43 e min = 0.76 δ = 25° f = 0.45 β = 35° Powder Chamber P1 = 9.58 P2 ¹⁾ * = 9.04 -0.20 Junction Cone α [*] = 46° S [*] = 44.96 r1 min = 0.64 r2 = 2.54 Collar H1 [*] = 5.05 H2 ¹⁾ = 5.05 Projectile G1 ¹⁾ = 4.38 G2 = F = L3+G ¹⁾ = 47.74 Pressures (Energies) Method Transducer Pmax = 4250 bar PK = 4888 bar PE = 5310 bar M = 25.00 EE = 1290 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	CHAMBER MINI Lengths L1 = 34.22 L2 = 38.87 L3 ¹⁾ = 45.92 Breech R = R1 = 9.66 R2 = R3 = r = Powder Chamber E = 3.13 P1 ¹⁾ = 9.61 P2 [*] = 9.06 Junction Cone α ¹⁾ * = 46° S [*] = 44.89 r1 max = 0.64 r2 = 3.18 Collar H1 [*] = 5.11 H2 ¹⁾ = 5.08 Commencement of Rifling G1 ¹⁾ * = 4.37 G ¹⁾ = 2.12 α1 [*] = 90° h = 0.36 s = 0.99 i ¹⁾ * = 2°32'41" w = Barrel F ¹⁾ * = 4.27 Z ¹⁾ = 4.37 Grooves b = 1.57 N = 6 u = 229.00 Q = 14.80 mm ²	
			
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.

215

Country of Origin: DE

TAB.

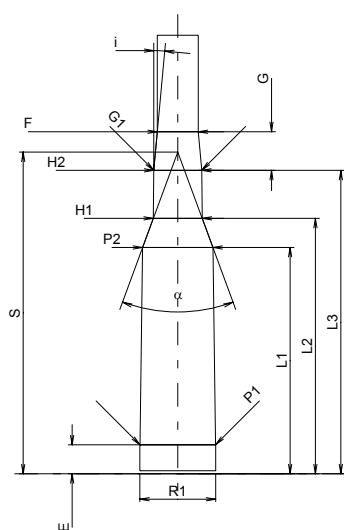
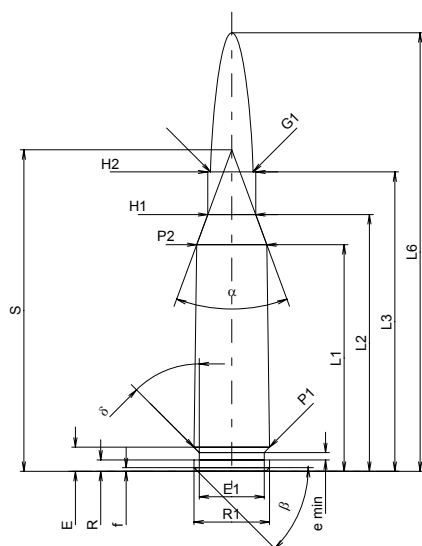
I

Date

92-02-27

Revision

02-05-15



Scale 1:1

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	30.00	-0.20
L2 ¹⁾ *	=	33.97	-0.20
L3 ¹⁾	=	39.60	
L4	=		
L5	=		
L6	=	58.00	

Case Head

R	=	1.50	
R1	=	10.00	
R3	=		
E	=	3.20	
E1	=	8.60	
e min	=	1.00	
delta	=	45°	
f	=	0.50	
beta	=	45°	

Powder Chamber

P1	=	10.00	
P2 ¹⁾ *	=	9.25	-0.20

Junction Cone

alpha	=	40°30'36"	
S	=	42.53	
r1 min	=		
r2	=		

Collar

H1 *	=	6.32	
H2 ¹⁾	=	6.32	

Projectile

G1 ¹⁾	=	5.64	
G2	=		
F	=		
L3+G ¹⁾	=	44.72	

Pressures (Energies)

Method Transducer

Pmax	=	3800 bar	
PK	=	4370 bar	
PE	=	4750 bar	
M	=	25.00	
EE	=	1505 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	29.93	
L2 *	=	33.78	
L3 ¹⁾	=	40.13	

Breech

R	=	1.50	
R1	=	10.05	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.83	
P1 ¹⁾	=	10.00	
P2 *	=	9.30	

Junction Cone

alpha ¹⁾	=	40°29'27"	
S	=	42.54	
r1 max	=		
r2	=		

Collar

H1 *	=	6.46	
H2 ¹⁾	=	6.33	

Commencement of Rifling

G1 ¹⁾ *	=	6.33	
G ¹⁾ *	=	5.12	
alpha l	=	180°	
h	=		
s	=		
i ¹⁾	=	5°11'21"	
w	=		

Barrel

F ¹⁾ *	=	5.40	
Z ¹⁾	=	5.60	

Grooves

b	=	1.81	
N	=	6	
u	=	214.00	
Q	=	24.01	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

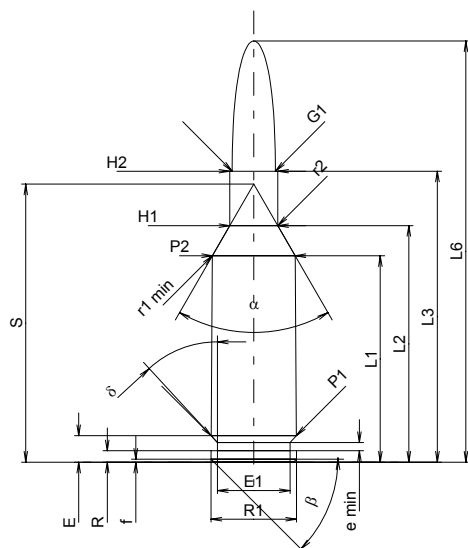
22 PPC-USA

Country of Origin: FI

TAB. I

Date 89-04-18

Revision 02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	27.30	-0.20
L2 ¹⁾ *	=	31.28	-0.20
L3 ¹⁾	=	38.48	
L4	=		
L5	=		
L6	=	55.70	

Case Head

R	=	1.50	
R1	=	11.30	
R3	=		
E	=	3.50	
E1	=	9.60	
e min	=	1.10	
delta	=	42°40'48"	
f	=	0.40	
beta	=	45°	

Powder Chamber

P1	=	11.26	
P2 ¹⁾ *	=	10.95	-0.20

Junction Cone

alpha	=	60°02'47"	
S	=	36.77	
r1 min	=	1.00	
r2	=	3.00	

Collar

H1 *	=	6.35	
H2 ¹⁾	=	6.35	

Projectile

G1 ¹⁾	=	5.70	
G2	=		
F	=		
L3+G ¹⁾	=	43.96	

Pressures (Energies)

Method Transducer

Pmax	=	4050 bar	
PK	=	4658 bar	
PE	=	5060 bar	
M	=	17.50	
EE	=	1935 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	27.27	
L2 *	=	31.25	
L3 ¹⁾	=	38.74	

Breech

R	=	1.50	
R1	=	11.32	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.50	
P1 ¹⁾	=	11.28	
P2 *	=	10.98	

Junction Cone

alpha ¹⁾	=	59°56'16"	
S	=	36.79	
r1 max	=	0.50	
r2	=	3.00	

Collar

H1 *	=	6.39	
H2 ¹⁾	=	6.38	

Commencement of Rifling

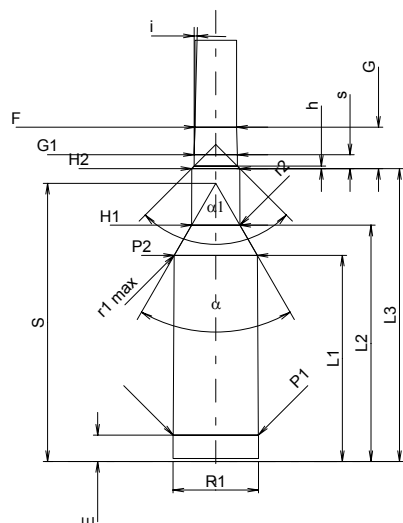
G1 ¹⁾ *	=	5.72	
G ¹⁾ *	=	5.48	
alpha l	=	90°	
h	=	0.33	
s *	=	1.85	
i ¹⁾	=	1°30'	
w	=		

Barrel

F ¹⁾ *	=	5.53	
Z ¹⁾	=	5.66	

Grooves

b	=	2.04	
N	=	6	
u	=	355.00	
Q	=	24.83	mm ²



Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

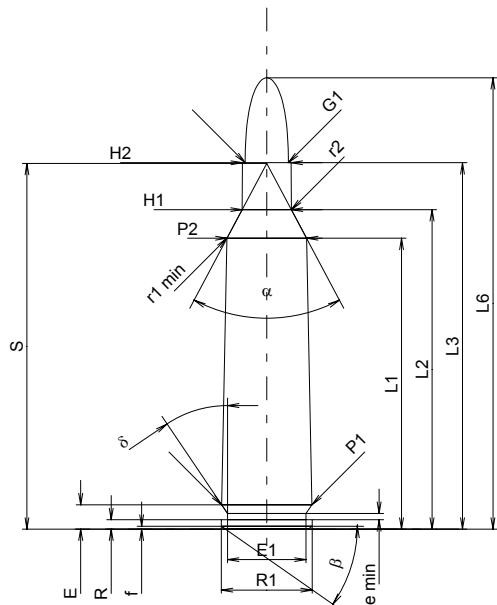
22-250 Rem

Country of Origin: US

TAB. I

Date 84-06-14

Revision 02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾	=	38.48	-0.20
L2 ¹⁾	=	42.26	-0.20
L3 ¹⁾	=	48.46	
L4	=		
L5	=		
L6	=	59.69	

Case Head

R	=	1.24	
R1	=	12.01	
R3	=		
E	=	3.22	
E1	=	10.39	
e min	=	0.84	
delta	=	34°	
f	=	0.38	
beta	=	35°	

Powder Chamber

P1	=	11.93	
P2 ¹⁾ *	=	10.52	-0.20

Junction Cone

alpha * ¹⁾	=	56°	
S * ¹⁾	=	48.37	
r1 min	=	2.54	
r2	=	2.54	

Collar

H1 * ¹⁾	=	6.50	
H2 ¹⁾	=	6.45	

Projectile

G1 ¹⁾	=	5.70	
G2	=		
F	=		
L3+G ¹⁾	=	52.39	

Pressures (Energies)

Method Transducer

Pmax	=	4050 bar	
PK	=	4658 bar	
PE	=	5060 bar	
M	=	25.00	
EE	=	2370 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=	0.08	

CHAMBER MINI

Lengths

L1	=	38.36	
L2	=	42.15	
L3 ¹⁾	=	48.87	

Breech

R	=		
R1	=	12.09	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.22	
P1 ¹⁾	=	11.96	
P2 * ¹⁾	=	10.56	

Junction Cone

alpha ¹⁾ *	=	56°	
S * ¹⁾	=	48.29	
r1 max	=	0.64	
r2	=	3.18	

Collar

H1 * ¹⁾	=	6.53	
H2 ¹⁾	=	6.48	

Commencement of Rifling

G1 ¹⁾ *	=	5.70	
G ¹⁾	=	3.93	
alpha l	=	90°	
h	=	0.39	
s * ¹⁾	=	1.93	
i ¹⁾ *	=	2°	
w	=		

Barrel

F ¹⁾ *	=	5.56	
Z ¹⁾	=	5.69	

Grooves

b	=	2.03	
N	=	6	
u	=	356.00	
Q	=	25.09	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

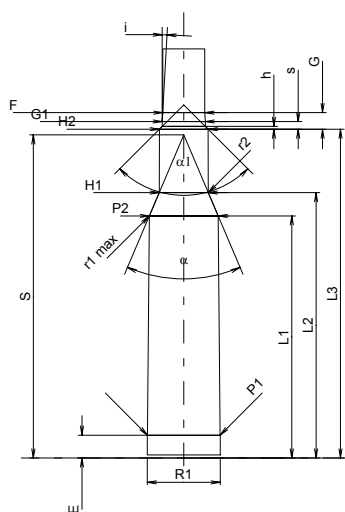
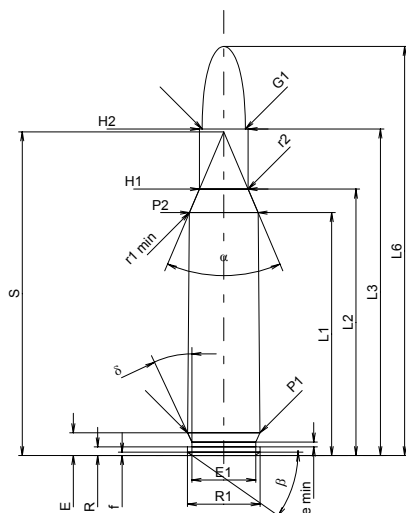
222 Rem.

Country of Origin: US

TAB. I

Date 84-06-14

Revision 02-05-15



Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

CARTRIDGE MAXI

Lengths

L1 ¹⁾	=	32.13	-0.20
L2 ¹⁾	=	35.24	-0.20
L3 ¹⁾	=	43.18	
L4	=		
L5	=		
L6	=	54.10	

Case Head

R	=	1.14	
R1	=	9.60	
R3	=		
E	=	3.01	
E1	=	8.43	
e min	=	0.64	
δ	=	25°	
f	=	0.45	
β	=	35°	

Powder Chamber

P1	=	9.58	
P2 ¹⁾ *	=	9.07	-0.20

Junction Cone

α [*]	=	46°	
S [*]	=	42.81	
r1 min	=	0.64	
r2	=	2.54	

Collar

H1 [*]	=	6.43	
H2 ¹⁾	=	6.43	

Projectile

G1 ¹⁾	=	5.70	
G2	=		
F	=		
L3+G ¹⁾	=	45.37	

Pressures (Energies)

Method Transducer

Pmax	=	3700 bar	
PK	=	4255 bar	
PE	=	4625 bar	
M	=	25.00	
EE	=	1810 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=	0.08	

CHAMBER MINI

Lengths

L1	=	32.01	
L2	=	35.10	
L3 ¹⁾	=	43.48	

Breech

R	=		
R1	=	9.66	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.01	
P1 ¹⁾	=	9.61	
P2 [*]	=	9.10	

Junction Cone

α ¹⁾ *	=	46°	
S [*]	=	42.73	
r1 max	=	0.64	
r2	=	3.18	

Collar

H1 [*]	=	6.48	
H2 ¹⁾	=	6.45	

Commencement of Rifling

G1 ¹⁾ *	=	5.69	
G ¹⁾	=	2.19	
α1	=	90°	
h	=	0.38	
s [*]	=	1.02	
i ¹⁾ *	=	3°10'36"	
w	=		

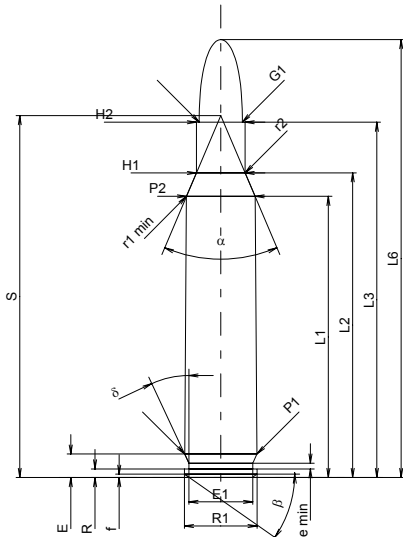
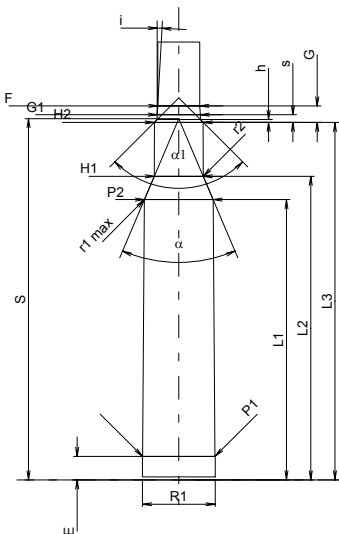
Barrel

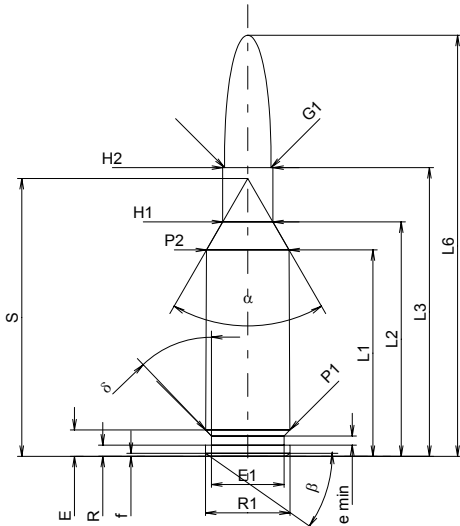
F ¹⁾ *	=	5.56	
Z ¹⁾	=	5.69	

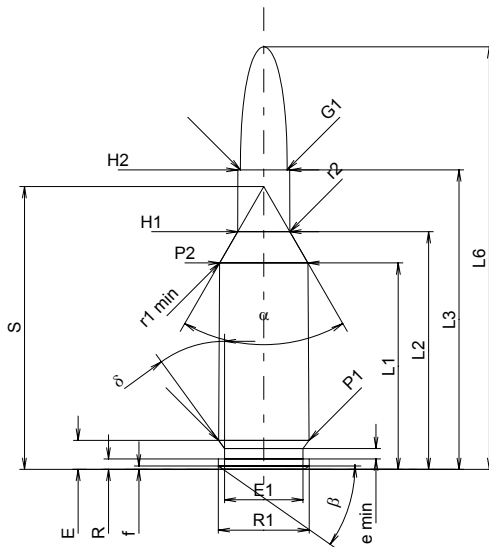
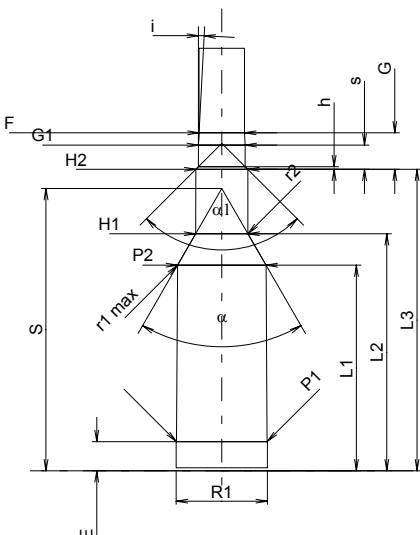
Grooves

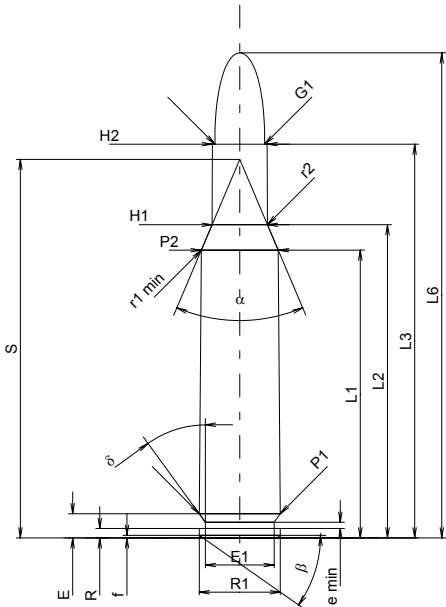
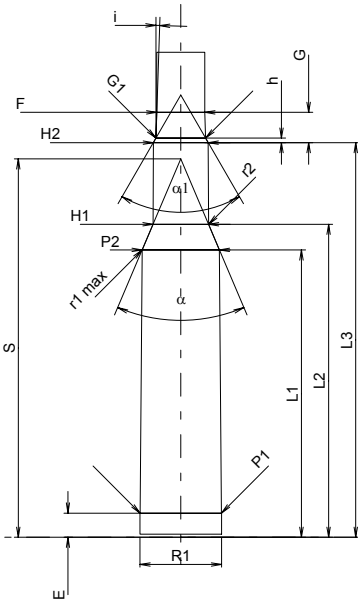
b	=	2.03	
N	=	6	
u	=	356.00	
Q	=	25.09	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	222 Rem. Mag.	TAB.	I
		Date	84-06-14
		Revision	02.05 15
	Country of Origin: US		
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 37.18 -0.20 L2 ¹⁾ = 40.29 -0.20 L3 ¹⁾ = 46.99 L4 = L5 = L6 = 57.91 Case Head R = 1.14 R1 = 9.60 R3 = E = 3.11 E1 = 8.43 e min = 0.76 δ = 25° f = 0.45 β = 35° Powder Chamber P1 = 9.56 P2 ¹⁾ * = 9.07 -0.20 Junction Cone α [*] = 46° S [*] = 47.86 r1 min = 0.64 r2 = 2.54 Collar H1 [*] = 6.43 H2 ¹⁾ = 6.43 Projectile G1 ¹⁾ = 5.70 G2 = F = L3+G ¹⁾ = 49.18 Pressures (Energies) Method Transducer Pmax = 4050 bar PK = 4658 bar PE = 5060 bar M = 25.00 EE = 1820 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L = 0.09	CHAMBER MINI Lengths L1 = 37.07 L2 = 40.15 L3 ¹⁾ = 47.29 Breech R = R1 = 9.63 R2 = R3 = r = Powder Chamber E = 3.11 P1 ¹⁾ = 9.59 P2 [*] = 9.09 Junction Cone α ¹⁾ * = 46° S [*] = 47.78 r1 max = 0.64 r2 = 3.18 Collar H1 [*] = 6.48 H2 ¹⁾ = 6.45 Commencement of Rifling G1 ¹⁾ * = 5.69 G ¹⁾ = 2.19 α1 = 90° h = 0.38 s [*] = 1.02 i ¹⁾ * = 3°10'36" w = Barrel F ¹⁾ * = 5.56 Z ¹⁾ = 5.69 Grooves b = 2.03 N = 6 u = 356.00 Q = 25.09 mm ²	
		Scale 1:1 Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.	Notes: 1) Check for safety reasons * Basic dimensions

C.I.P.	6 mm PPC	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: US			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ = 27.30 -0.20 L2 ¹⁾ = 31.00 -0.20 L3 ¹⁾ = 38.18 L4 = L5 = L6 = 55.70 Case Head R = 1.50 R1 = 11.18 R3 = E = 3.50 E1 = 9.60 e min = 1.20 δ = 43°43'12" f = 0.40 β = 35° Powder Chamber P1 = 11.13 P2 ¹⁾ * = 10.92 -0.20 Junction Cone α [*] = 60° S [*] = 36.76 r1 min = r2 = Collar H1 [*] = 6.65 H2 ¹⁾ = 6.65 Projectile G1 ¹⁾ = 6.17 G2 = F = L3+G ¹⁾ = 43.76 Pressures (Energies) Method Transducer Pmax = 4050 bar PK = 4658 bar PE = 5060 bar M = 17.50 EE = 2250 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	Lengths L1 = 27.30 L2 = 31.02 L3 ¹⁾ = 38.86 Breech R = R1 = 11.20 R2 = R3 = r = Powder Chamber E = 3.50 P1 ¹⁾ = 11.17 P2 [*] = 10.95 Junction Cone α ¹⁾ * = 60° S [*] = 36.78 r1 max = 1.52 r2 = 1.52 Collar H1 [*] = 6.65 H2 ¹⁾ = 6.65 Commencement of Rifling G1 ¹⁾ * = 6.18 G ¹⁾ = 5.58 α1 [*] = 90° h = 0.24 s = 2.52 i ¹⁾ * = 1°30' w = Barrel F ¹⁾ * = 6.02 Z ¹⁾ = 6.17 Grooves b = 2.29 N = 6 u = 551.00 Q = 29.52 mm ²	

C.I.P.	6 mm BR Rem.	TAB.	I
		Date	94-03-01
Country of Origin: US		Revision	02-05-15
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ = 27.30 -0.20 L2 ¹⁾ = 31.44 -0.20 L3 ¹⁾ = 39.62 L4 = L5 = L6 = 55.88 Case Head R = 1.37 R1 = 12.01 R3 = E = 3.85 E1 = 10.39 e min = 1.40 δ = 36° f = 0.46 β = 35° Powder Chamber P1 = 11.96 P2 ^{1)*} = 11.68 -0.20 Junction Cone α * = 60° S * = 37.42 r1 min = 0.64 r2 = 1.27 Collar H1 * = 6.90 H2 ¹⁾ = 6.87 Projectile G1 ¹⁾ = 6.18 G2 = F = L3+G ¹⁾ = 44.44 Pressures (Energies) Method Transducer Pmax = 4050 bar PK = 4658 bar PE = 5060 bar M = 17.50 EE = 2525 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	Lengths L1 = 27.20 L2 = 31.36 L3 ¹⁾ = 39.88 Breech R = R1 = 12.04 R2 = R3 = r = Powder Chamber E = 3.85 P1 ¹⁾ = 11.99 P2 * = 11.71 Junction Cone α ^{1)*} = 60° S * = 37.34 r1 max = 0.64 r2 = 1.91 Collar H1 * = 6.91 H2 ¹⁾ = 6.88 Commencement of Rifling G1 ^{1)*} = 6.19 G ¹⁾ = 4.82 α l * = 90° h = 0.35 s = 3.20 i ^{1)*} = 3° w = Barrel F ^{1)*} = 6.02 Z ¹⁾ = 6.17 Grooves b = 2.29 N = 6 u = 228.60 Q = 29.52 mm²	
			
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.	25 Rem.	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: US			
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 38.05 -0.20 L2 ¹⁾ = 41.42 -0.20 L3 ¹⁾ = 52.07 L4 = L5 = L6 = 64.14 Case Head R = 1.24 R1 = 10.72 R3 = E = 3.20 E1 = 9.09 e min = 0.84 δ = 36° f = 0.33 β = 35° Powder Chamber P1 = 10.72 P2 ¹⁾ * = 10.19 -0.20 Junction Cone α [*] = 46° S [*] = 50.05 r1 min = 0.64 r2 = 2.54 Collar H1 [*] = 7.33 H2 ¹⁾ = 7.26 Projectile G1 ¹⁾ = 6.58 G2 = F = L3+G ¹⁾ = 56.07 Pressures (Energies) Method Transducer Pmax = 2450 bar PK = 2817 bar PE = 3063 bar M = 25.00 EE = 1995 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	CHAMBER MINI Lengths L1 = 38.01 L2 = 41.40 L3 ¹⁾ = 52.20 Breech R = R1 = 10.78 R2 = R3 = r = Powder Chamber E = 3.20 P1 ¹⁾ = 10.75 P2 [*] = 10.22 Junction Cone α ¹⁾ * = 46° S [*] = 50.05 r1 max = 0.64 r2 = 2.54 Collar H1 [*] = 7.34 H2 ¹⁾ = 7.26 Commencement of Rifling G1 ¹⁾ * = 6.58 G ¹⁾ = 4.00 α1 [*] = 60° h = 0.59 s = i ¹⁾ * = 1°55'59" w = Barrel F ¹⁾ * = 6.35 Z ¹⁾ = 6.50 Grooves b = 2.41 N = 6 u = 254.00 Q = 32.78 mm ²	
		Notes: 1) Check for safety reasons * Basic dimensions	
Scale 1:1 Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.

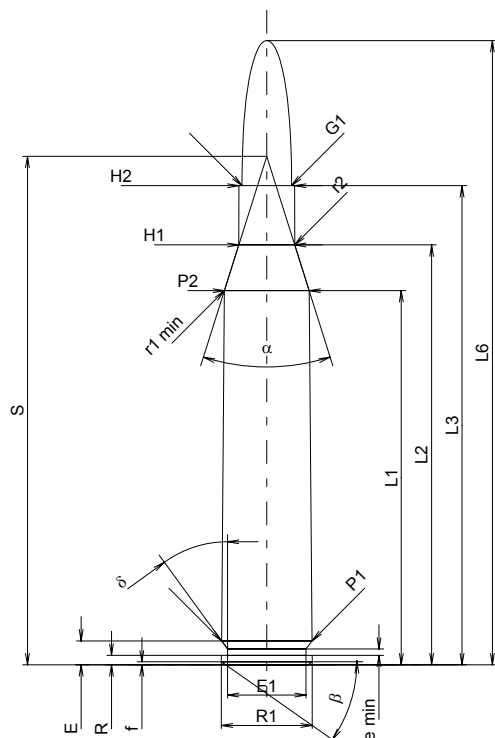
25-06 Rem.

TAB. I

Date 84-06-14

Revision 02-05-15

Country of Origin: US



CARTRIDGE MAXI

Lengths

L1 ¹⁾	=	49.48	-0.20
L2 ¹⁾	=	55.52	-0.20
L3 ¹⁾	=	63.35	
L4	=		
L5	=		
L6	=	82.55	

Case Head

R	=	1.24	
R1	=	12.01	
R3	=		
E	=	3.16	
E1	=	10.39	
e min	=	0.84	
delta	=	36°	
f	=	0.38	
beta	=	35°	

Powder Chamber

P1	=	11.96	
P2 ¹⁾ *	=	11.20	-0.20

Junction Cone

alpha *	=	35°	
S *	=	67.24	
r1 min	=	1.27	
r2	=	2.54	

Collar

H1 *	=	7.39	
H2 ¹⁾	=	7.37	

Projectile

G1 ¹⁾	=	6.54	
G2	=		
F	=		
L3+G ¹⁾	=	68.42	

Pressures (Energies)

Method Transducer

Pmax	=	4500 bar	
PK	=	5175 bar	
PE	=	5625 bar	
M	=	25.00	
EE	=	3340 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=	0.15	

CHAMBER MINI

Lengths

L1	=	49.27	
L2	=	55.42	
L3 ¹⁾	=	63.55	

Breech

R	=		
R1	=	12.04	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.16	
P1 ¹⁾	=	11.99	
P2 *	=	11.24	

Junction Cone

alpha ¹⁾ *	=	34°30'	
S *	=	67.37	
r1 max	=	1.27	
r2	=	3.05	

Collar

H1 *	=	7.42	
H2 ¹⁾	=	7.39	

Commencement of Rifling

G1 ¹⁾ *	=	6.54	
G ¹⁾	=	5.07	
alpha 1 *	=	71°25'48"	
h	=	0.59	
s	=	3.26	
i ¹⁾ *	=	3°	
w	=		

Barrel

F ¹⁾ *	=	6.35	
Z ¹⁾	=	6.53	

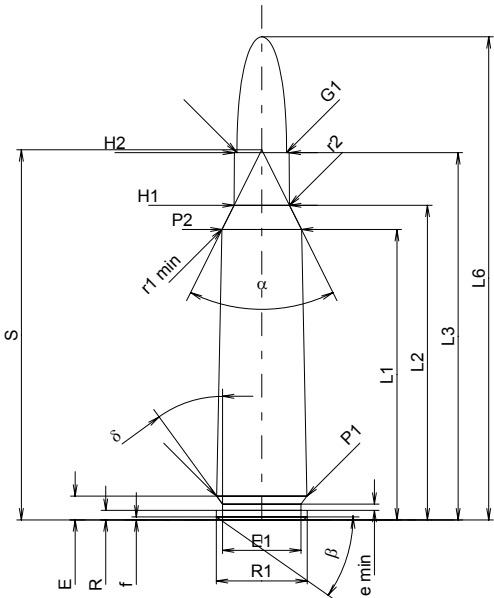
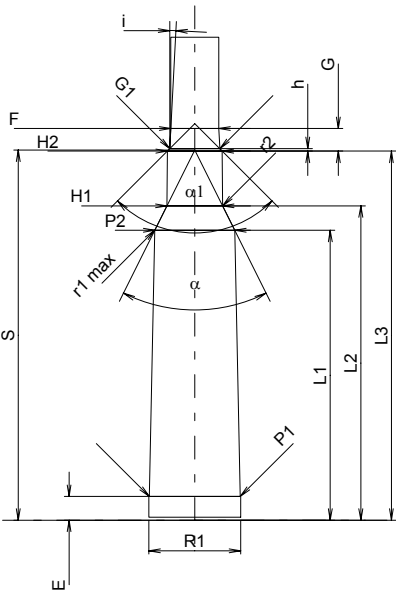
Grooves

b	=	2.44	
N	=	6	
u	=	254.00	
Q	=	33.02	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	250 Savage Country of Origin: US	TAB.	I
		Date	84-06-14
		Revision	02-05-15
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 38.40 -0.20 L2 ¹⁾ = 41.60 -0.20 L3 ¹⁾ = 48.56 L4 = L5 = L6 = 63.88 Case Head R = 1.24 R1 = 12.01 R3 = E = 3.14 E1 = 10.39 e min = 0.84 δ = 36° f = 0.38 β = 35° Powder Chamber P1 = 11.93 P2 ¹⁾ * = 10.52 -0.20 Junction Cone α [*] = 53° S [*] = 48.95 r1 min = 2.54 r2 = 2.54 Collar H1 [*] = 7.33 H2 ¹⁾ = 7.25 Projectile G1 ¹⁾ = 6.55 G2 = F = L3+G ¹⁾ = 51.55 Pressures (Energies) Method Transducer Pmax = 3650 bar PK = 4198 bar PE = 4560 bar M = 25.00 EE = 2900 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	CHAMBER MINI Lengths L1 = 38.36 L2 = 41.58 L3 ¹⁾ = 48.82 Breech R = R1 = 12.14 R2 = R3 = r = Powder Chamber E = 3.14 P1 ¹⁾ = 12.01 P2 [*] = 10.56 Junction Cone α ¹⁾ * = 53° S [*] = 48.95 r1 max = 2.54 r2 = 2.54 Collar H1 [*] = 7.35 H2 ¹⁾ = 7.26 Commencement of Rifling G1 ¹⁾ * = 6.63 G ¹⁾ = 2.99 α1 [*] = 90° h = 0.32 s = i ¹⁾ * = 3° w = Barrel F ¹⁾ * = 6.35 Z ¹⁾ = 6.53 Grooves b = 2.24 N = 6 u = 356.00 Q = 32.90 mm ²	
		Notes: 1) Check for safety reasons * Basic dimensions	
Scale 1:1 Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.

256 Mag. Gibbs

Country of Origin: GB

TAB.

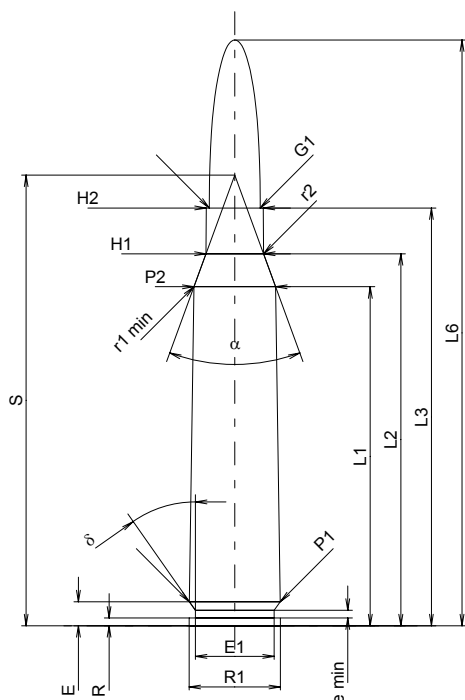
I

Date

84-06-14

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	44.83	-0.20
L2 ¹⁾ *	=	49.20	-0.20
L3 ¹⁾	=	55.25	
L4	=		
L5	=		
L6	=	77.47	

Case Head

R	=	1.02	
R1	=	12.09	
R3	=		
E	=	3.18	
E1	=	10.41	
e min	=	1.02	
δ	=	35°03'36"	
f	=		
β	=		

Powder Chamber

P1	=	12.01	
P2 ¹⁾ *	=	10.82	-0.20

Junction Cone

α	=	40°13'07"	
S	=	59.61	
r1 min	=	7.11	
r2	=	5.08	

Collar

H1 *	=	7.62	
H2 ¹⁾	=	7.52	

Projectile

G1 ¹⁾	=	6.73	
G2	=		
F	=		
L3+G ¹⁾	=	60.23	

Pressures (Energies)

Method Transducer

Pmax	=	3400 bar	
PK	=	3910 bar	
PE	=	4250 bar	
M	=	25.00	
EE	=	2645 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	44.78	
L2 *	=	49.20	
L3 ¹⁾	=	55.55	

Breech

R	=	1.02	
R1	=	12.14	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.18	
P1 ¹⁾	=	12.04	
P2 *	=	10.87	

Junction Cone

α ¹⁾	=	40°01'44"	
S	=	59.70	
r1 max	=		
r2	=		

Collar

H1 *	=	7.65	
H2 ¹⁾	=	7.54	

Commencement of Rifling

G1 ¹⁾ *	=	6.74	
G ¹⁾ *	=	4.98	
α1	=	90°	
h *	=	0.40	
s	=		
i ¹⁾	=	1°30'02"	
w	=		

Barrel

F ¹⁾ *	=	6.50	
Z ¹⁾	=	6.72	

Grooves

b	=		
N	=		
u	=		
Q	=	33.18	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

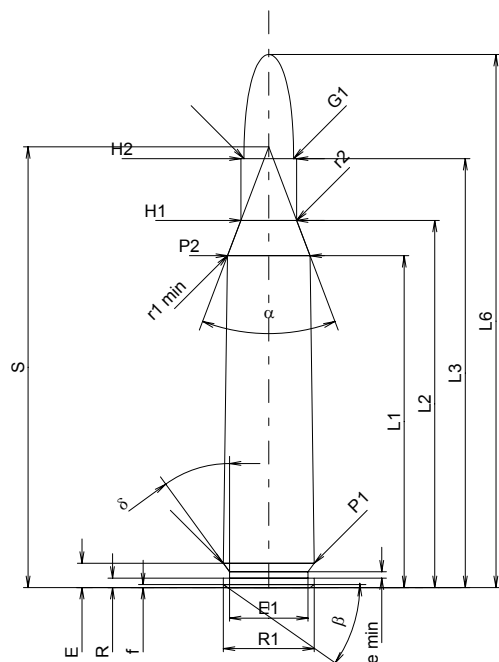
C.I.P.**257 Roberts**

Country of Origin: US

TAB. I

Date 84-06-14

Revision 02-05-15

**CARTRIDGE MAXI****Lengths**

L1 ¹⁾	=	43.88	-0.20
L2 ¹⁾	=	48.55	-0.20
L3 ¹⁾	=	56.72	
L4	=		
L5	=		
L6	=	70.49	

Case Head

R	=	1.24	
R1	=	12.01	
R3	=		
E	=	3.20	
E1	=	10.39	
e min	=	0.84	
δ	=	36°	
f	=	0.38	
β	=	35°	

Powder Chamber

P1	=	12.02	
P2 ¹⁾ *	=	10.91	-0.20

Junction Cone

α [*]	=	41°30'	
S [*]	=	58.28	
r1 min	=	0.76	
r2	=	2.54	

Collar

H1 [*]	=	7.37	
H2 ¹⁾	=	7.37	

Projectile

G1 ¹⁾	=	6.55	
G2	=		
F	=		
L3+G ¹⁾	=	59.85	

Pressures (Energies)**Method Transducer**

Pmax	=	3550 bar	
PK	=	4083 bar	
PE	=	4440 bar	
M	=	25.00	
EE	=	2850 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=	0.15	

CHAMBER MINI**Lengths**

L1	=	43.66	
L2	=	48.36	
L3 ¹⁾	=	57.25	

Breech

R	=		
R1	=	12.13	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.20	
P1 ¹⁾	=	12.04	
P2 [*]	=	10.96	

Junction Cone

α ¹⁾ *	=	41°18'	
S [*]	=	58.20	
r1 max	=	0.76	
r2	=	3.18	

Collar

H1 [*]	=	7.42	
H2 ¹⁾	=	7.39	

Commencement of Rifling

G1 ¹⁾ *	=	6.63	
G ¹⁾	=	3.13	
α1 [*]	=	90°	
h	=	0.38	
s	=		
i ¹⁾ *	=	2°55'	
w	=		

Barrel

F ¹⁾ *	=	6.35	
Z ¹⁾	=	6.50	

Grooves

b	=	2.41	
N	=	6	
u	=	254.00	
Q	=	32.78	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

270 Win.

Country of Origin: US

TAB.

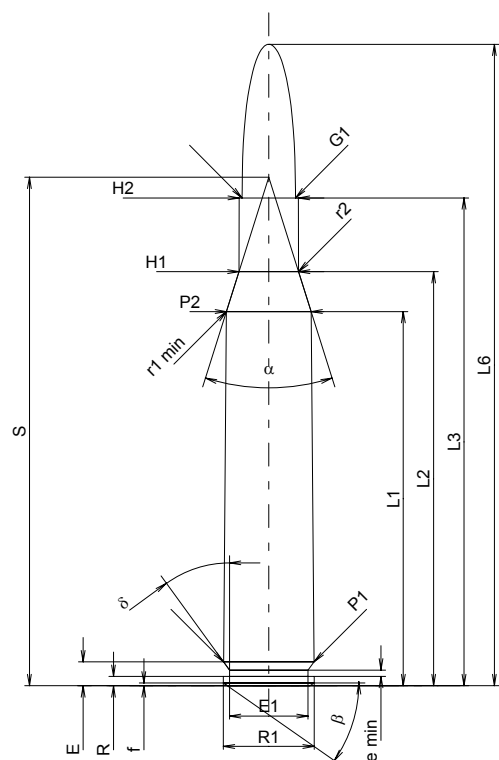
I

Date

84-06-14

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾	=	49.49	-0.20
L2 ¹⁾	=	54.77	-0.20
L3 ¹⁾	=	64.52	
L4	=		
L5	=		
L6	=	84.84	

Case Head

R	=	1.24	
R1	=	12.01	
R3	=		
E	=	3.16	
E1	=	10.39	
e min	=	0.84	
delta	=	36°	
f	=	0.38	
beta	=	35°	

Powder Chamber

P1	=	11.96	
P2 ¹⁾ *	=	11.20	-0.20

Junction Cone

alpha [*]	=	35°	
S [*]	=	67.25	
r1 min	=	0.76	
r2	=	3.81	

Collar

H1 [*]	=	7.87	
H2 ¹⁾	=	7.82	

Projectile

G1 ¹⁾	=	7.06	
G2	=		
F	=		
L3+G ¹⁾	=	72.61	

Pressures (Energies)

Method Transducer

Pmax	=	4300 bar	
PK	=	4945 bar	
PE	=	5375 bar	
M	=	25.00	
EE	=	3840 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=	0.14	

CHAMBER MINI

Lengths

L1	=	49.28	
L2	=	54.68	
L3 ¹⁾	=	65.02	

Breech

R	=		
R1	=	12.04	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.16	
P1 ¹⁾	=	11.99	
P2 [*]	=	11.24	

Junction Cone

alpha ¹⁾ *	=	34°30'	
S [*]	=	67.38	
r1 max	=	0.76	
r2	=	3.81	

Collar

H1 [*]	=	7.89	
H2 ¹⁾	=	7.84	

Commencement of Rifling

G1 ¹⁾ *	=	7.07	
G ¹⁾	=	8.09	
alpha 1 [*]	=	74°40'12"	
h	=	0.50	
s	=		
i ¹⁾ *	=	0°47'33"	
w	=		

Barrel

F ¹⁾ *	=	6.86	
Z ¹⁾	=	7.04	

Grooves

b	=	4.06	
N	=	4	
u	=	254.00	
Q	=	38.52	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	270 Win. Short Mag.	TAB.	I
		Date	02-01-22
		Revision	02-05-15
Country of Origin: US			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ = 42.25 -0.20 L2 ¹⁾ = 46.35 -0.20 L3 ¹⁾ = 53.34 L4 = L5 = L6 = 73.34 Case Head R = 1.37 R1 = 13.59 R3 = E = 3.35 E1 = 12.19 e min = 1.02 δ = 45° f = 0.36 β = 35° Powder Chamber P1 = 14.12 P2 ¹⁾ * = 13.67 -0.20 Junction Cone α [*] = 70° S [*] = 52.01 r1 min = 1.27 r2 = 2.54 Collar H1 [*] = 7.92 H2 ¹⁾ = 7.92 Projectile G1 ¹⁾ = 7.03 G2 = F = L3+G ¹⁾ = 57.42 Pressures (Energies) Method Transducer Pmax = 4450 bar PK = 5118 bar PE = 5563 bar M = 25.00 EE = 4725 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	Lengths L1 = 42.13 L2 = 46.23 L3 ¹⁾ = 53.59 Breech R = R1 = 14.19 R2 = R3 = r = Powder Chamber E = 3.35 P1 ¹⁾ = 14.15 P2 [*] = 13.70 Junction Cone α ¹⁾ * = 70° S [*] = 51.91 r1 max = 1.27 r2 = 3.05 Collar H1 [*] = 7.96 H2 ¹⁾ = 7.95 Commencement of Rifling G1 ¹⁾ * = 7.05 G ¹⁾ = 4.08 α1 = 90° h [*] = 0.45 s = i ¹⁾ * = 1°30' w = Barrel F ¹⁾ * = 6.86 Z ¹⁾ = 7.04 Grooves b = 4.06 N = 4 u = 254.00 Q = 38.52 mm ²	
Scale 1:1			
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		Notes: 1) Check for safety reasons * Basic dimensions	

C.I.P.

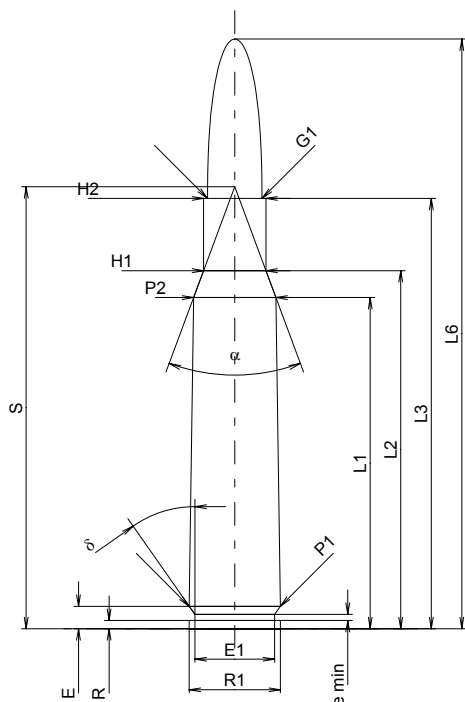
275 H. V. Rigby

TAB. I

Date 84-06-14

Revision 02-05-15

Country of Origin: GB



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	43.79	-0.20
L2 ¹⁾ *	=	47.35	-0.20
L3 ¹⁾	=	56.90	
L4	=		
L5	=		
L6	=	77.98	

Case Head

R	=	1.09	
R1	=	12.06	
R3	=		
E	=	2.97	
E1	=	10.54	
e min	=	0.81	
delta	=	35°01'48"	
f	=		
beta	=		

Powder Chamber

P1	=	12.04	
P2 ¹⁾ *	=	10.87	-0.20

Junction Cone

alpha	=	40°41'17"	
S	=	58.45	
r1 min	=		
r2	=		

Collar

H1 *	=	8.23	
H2 ¹⁾	=	8.23	

Projectile

G1 ¹⁾	=	7.21	
G2	=		
F	=		
L3+G ¹⁾	=	62.55	

Pressures (Energies)

Method Transducer

Pmax	=	3200 bar	
PK	=	3680 bar	
PE	=	4000 bar	
M	=	25.00	
EE	=	2720 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	43.74	
L2 *	=	47.29	
L3 ¹⁾	=	57.20	

Breech

R	=	1.09	
R1	=	12.12	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	2.97	
P1 ¹⁾	=	12.07	
P2 *	=	10.90	

Junction Cone

alpha ¹⁾	=	40°47'34"	
S	=	58.40	
r1 max	=		
r2	=		

Collar

H1 *	=	8.26	
H2 ¹⁾	=	8.26	

Commencement of Rifling

G1 ¹⁾ *	=	7.26	
G ¹⁾ *	=	5.65	
alpha 1	=	90°	
h *	=	0.50	
s	=		
i ¹⁾	=	1°36'46"	
w	=		

Barrel

F ¹⁾ *	=	6.97	
Z ¹⁾	=	7.25	

Grooves

b	=	3.62	
N	=	4	
u	=	203.00	
Q	=	40.28	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

277 GS

Country of Origin: IT

TAB.

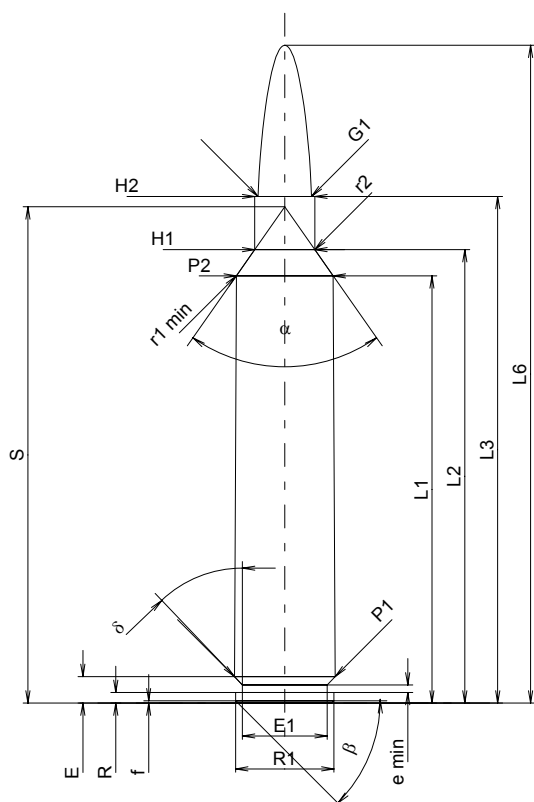
I

Date

96-11-26

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	56.50	-0.20
L2 ¹⁾ *	=	59.97	-0.20
L3 ¹⁾	=	67.00	
L4	=		
L5	=		
L6	=	87.00	

Case Head

R	=	1.40	
R1	=	13.00	
R3	=		
E	=	3.50	
E1	=	11.20	
e min	=	1.00	
delta	=	43°40'04"	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	13.30	
P2 ¹⁾ *	=	12.80	-0.20

Junction Cone

alpha	=	70°	
S	=	65.64	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.94	
H2 ¹⁾	=	7.94	

Projectile

G1 ¹⁾	=	7.06	
G2	=		
F	=		
L3+G ¹⁾	=	73.00	

Pressures (Energies)

Method Transducer

Pmax	=	4600 bar	
PK	=	5290 bar	
PE	=	5750 bar	
M	=	25.00	
EE	=	4883 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	56.48	
L2 *	=	59.95	
L3 ¹⁾	=	67.30	

Breech

R	=	1.40	
R1	=	13.05	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.50	
P1 ¹⁾ *	=	13.33	
P2	=	12.83	

Junction Cone

alpha ¹⁾	=	70°	
S	=	65.64	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.98	
H2 ¹⁾	=	7.96	

Commencement of Rifling

G1 ¹⁾ *	=	7.07	
G ¹⁾ *	=	6.00	
alpha1	=	180°	
h	=		
s	=		
i ¹⁾	=	1°00'09"	
w	=		

Barrel

F ¹⁾ *	=	6.86	
Z ¹⁾	=	7.04	

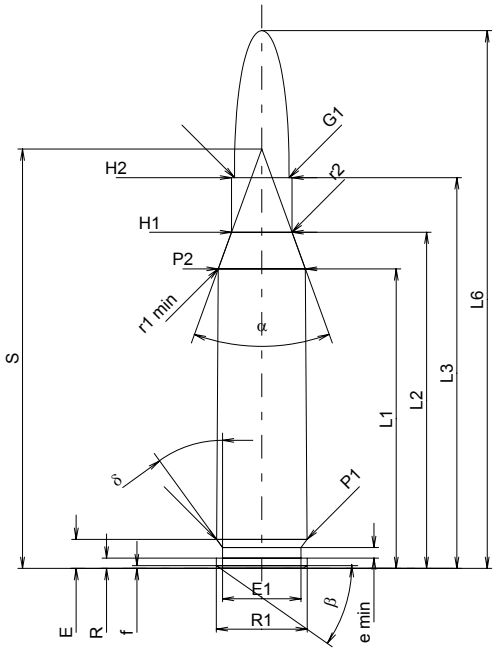
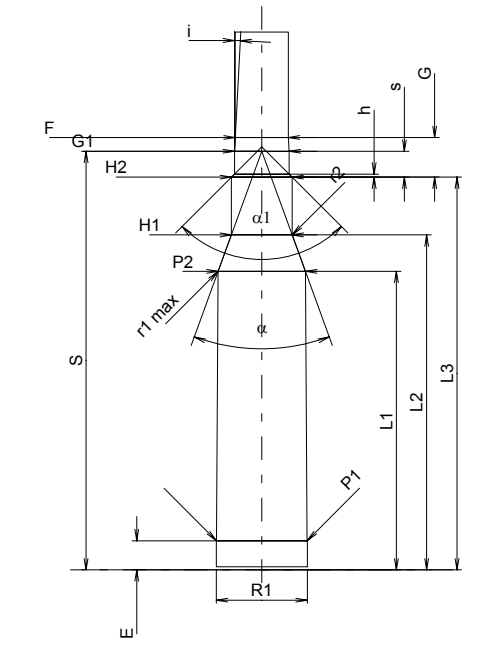
Grooves

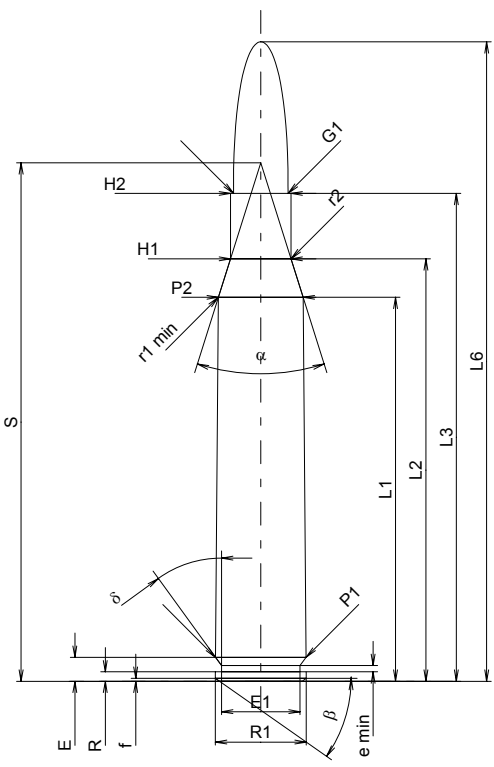
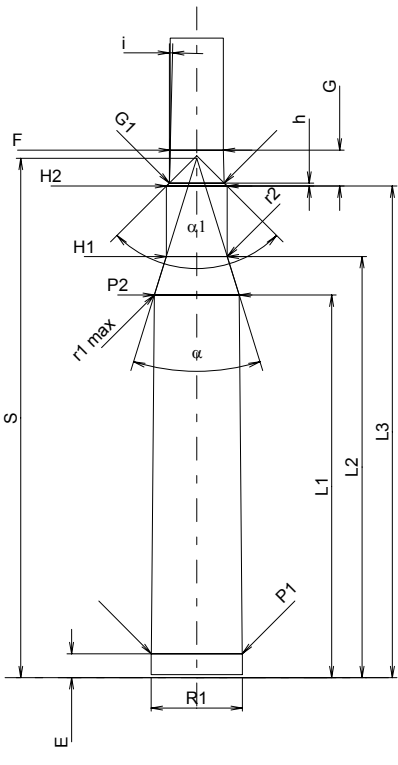
b	=	4.06	
N	=	4	
u	=	254.00	
Q	=	38.52	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	7 mm - 08 Rem.	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: US			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ = 39.62 -0.20 L2 ¹⁾ = 44.47 -0.20 L3 ¹⁾ = 51.69 L4 = L5 = L6 = 71.12 Case Head R = 1.37 R1 = 12.01 R3 = E = 3.85 E1 = 10.39 e min = 1.40 δ = 36° f = 0.38 β = 35° Powder Chamber P1 = 11.96 P2 ¹⁾ * = 11.53 -0.20 Junction Cone α * = 40° S * = 55.46 r1 min = 0.76 r2 = 3.18 Collar H1 * = 8.00 H2 ¹⁾ = 8.00 Projectile G1 ¹⁾ = 7.23 G2 = F = L3+G ¹⁾ = 56.93 Pressures (Energies) Method Transducer Pmax = 4150 bar PK = 4773 bar PE = 5190 bar M = 25.00 EE = 3720 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L = 0.10	Lengths L1 = 39.48 L2 = 44.30 L3 ¹⁾ = 51.94 Breech R = R1 = 12.03 R2 = R3 = r = Powder Chamber E = 3.85 P1 ¹⁾ = 11.99 P2 * = 11.56 Junction Cone α ¹⁾ * = 40° S * = 55.36 r1 max = 0.76 r2 = 3.81 Collar H1 * = 8.05 H2 ¹⁾ = 8.03 Commencement of Rifling G1 ¹⁾ * = 7.23 G ¹⁾ = 5.24 α1 * = 90° h = 0.40 s = 3.43 i ¹⁾ * = 3° w = Barrel F ¹⁾ * = 7.04 Z ¹⁾ = 7.21 Grooves b = 2.79 N = 6 u = 241.00 Q = 40.39 mm ²	
			
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.	7 mm Exp. Rem.	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: US			
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 50.78 -0.20 L2 ¹⁾ = 55.87 -0.20 L3 ¹⁾ = 64.52 L4 = L5 = L6 = 84.58 Case Head R = 1.24 R1 = 12.01 R3 = E = 3.17 E1 = 10.39 e min = 0.84 δ = 36° f = 0.38 β = 35° Powder Chamber P1 = 11.97 P2 ¹⁾ * = 11.21 -0.20 Junction Cone α ¹⁾ * = 35° S ¹⁾ * = 68.56 r1 min = 0.64 r2 = 2.54 Collar H1 ¹⁾ * = 8.00 H2 ¹⁾ = 8.00 Projectile G1 ¹⁾ = 7.23 G2 = F = L3+G ¹⁾ = 69.27 Pressures (Energies) Method Transducer Pmax = 4050 bar PK = 4658 bar PE = 5060 bar M = 25.00 EE = 3930 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L = 0.14	CHAMBER MINI Lengths L1 = 50.61 L2 = 55.70 L3 ¹⁾ = 65.02 Breech R = R1 = 12.06 R2 = R3 = r = Powder Chamber E = 3.17 P1 ¹⁾ = 12.00 P2 ¹⁾ * = 11.23 Junction Cone α ¹⁾ * = 34°30' S ¹⁾ * = 68.69 r1 max = 0.64 r2 = 3.18 Collar H1 ¹⁾ * = 8.07 H2 ¹⁾ = 8.02 Commencement of Rifling G1 ¹⁾ * = 7.25 G ¹⁾ = 4.75 α1 ¹⁾ * = 90° h = 0.39 s = i ¹⁾ * = 1°22'34" w = Barrel F ¹⁾ * = 7.04 Z ¹⁾ = 7.21 Grooves b = 2.79 N = 6 u = 241.00 Q = 40.39 mm ²	
			
Scale 1:1			
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		Notes: 1) Check for safety reasons * Basic dimensions	

C.I.P.

280 Riml. N. E. Ross

Country of Origin: GB

TAB.

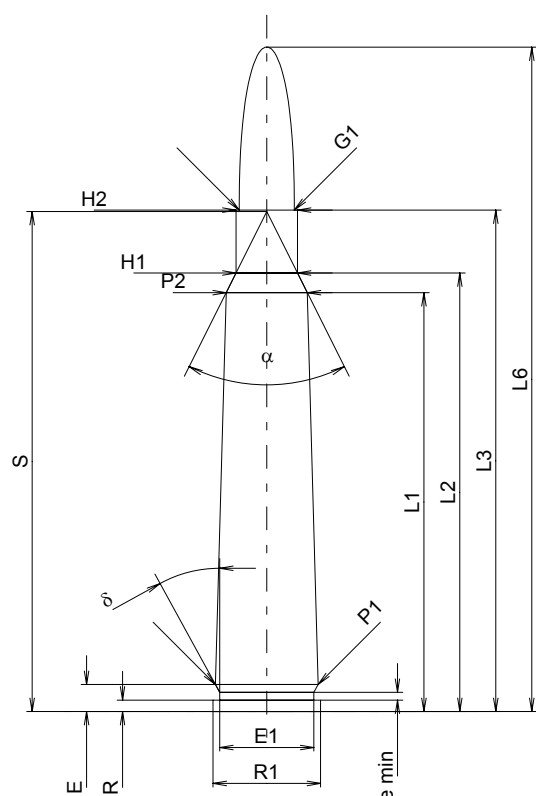
I

Date

84-06-14

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	55.40	-0.20
L2 ¹⁾ *	=	57.99	-0.20
L3 ¹⁾	=	66.32	
L4	=		
L5	=		
L6	=	87.88	

Case Head

R	=	1.52	
R1	=	14.22	
R3	=		
E	=	3.58	
E1	=	12.45	
e min	=	1.02	
delta	=	28°43'48"	
f	=		
beta	=		

Powder Chamber

P1	=	13.59	
P2 ¹⁾ *	=	10.72	-0.20

Junction Cone

alpha	=	53°07'48"	
S	=	66.12	
r1 min	=		
r2	=		

Collar

H1 *	=	8.13	
H2 ¹⁾	=	8.13	

Projectile

G1 ¹⁾	=	7.29	
G2	=		
F	=		
L3+G ¹⁾	=	72.27	

Pressures (Energies)

Method Transducer

Pmax	=	3250 bar	
PK	=	3738 bar	
PE	=	4060 bar	
M	=	25.00	
EE	=	4440 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	55.35	
L2 *	=	57.94	
L3 ¹⁾	=	66.62	

Breech

R	=	1.52	
R1	=	14.27	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.58	
P1 ¹⁾	=	13.61	
P2 *	=	10.74	

Junction Cone

alpha ¹⁾	=	53°07'48"	
S	=	66.09	
r1 max	=		
r2	=		

Collar

H1 *	=	8.15	
H2 ¹⁾	=	8.15	

Commencement of Rifling

G1 ¹⁾ *	=	7.34	
G ¹⁾ *	=	5.95	
alpha1	=	90°	
h *	=	0.41	
s	=		
i ¹⁾	=	1°29'57"	
w	=		

Barrel

F ¹⁾ *	=	7.05	
Z ¹⁾	=	7.30	

Grooves

b	=		
N	=		
u	=	220.00	
Q	=	39.04	mm²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	284 Win.	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: US			
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 45.08 -0.20 L2 ¹⁾ = 47.88 -0.20 L3 ¹⁾ = 55.12 L4 = L5 = L6 = 71.12 Case Head R = 1.37 R1 = 12.01 R3 = E = 3.78 E1 = 10.39 e min = 1.02 δ = 40° f = 0.38 β = 35° Powder Chamber P1 = 12.72 P2 ¹⁾* = 12.06 -0.20 Junction Cone α [*] = 70° S [*] = 53.69 r1 min = 0.76 r2 = 3.18 Collar H1 [*] = 8.13 H2 ¹⁾ = 8.13 Projectile G1 ¹⁾ = 7.21 G2 = F = L3+G ¹⁾ = 68.90 Pressures (Energies) Method Transducer Pmax = 4400 bar PK = 5060 bar PE = 5500 bar M = 25.00 EE = 3625 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L = 0.09	CHAMBER MINI Lengths L1 = 44.96 L2 = 47.73 L3 ¹⁾ = 55.37 Breech R = R1 = 12.81 R2 = R3 = r = Powder Chamber E = 3.78 P1 ¹⁾ = 12.75 P2 [*] = 12.09 Junction Cone α ¹⁾* = 70° S [*] = 53.59 r1 max = 0.76 r2 = 3.18 Collar H1 [*] = 8.20 H2 ¹⁾ = 8.18 Commencement of Rifling G1 ¹⁾* = 7.37 G ¹⁾ = 13.78 α1 [*] = 90° h = 0.41 s = i ¹⁾* = 1°47'33" w = Barrel F ¹⁾* = 7.00 Z ¹⁾ = 7.19 Grooves b = 2.79 N = 6 u = 254.00 Q = 40.12 mm²	
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.

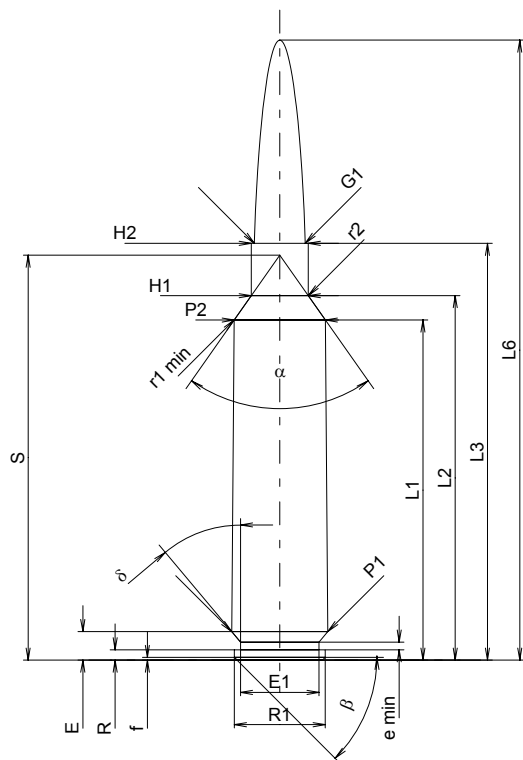
6,5 - 284 Norma

Country of Origin: SE

TAB. I

Date 00-02-15

Revision 02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾	=	44.98	-0.20
L2 ¹⁾	=	48.20	-0.20
L3 ¹⁾	=	55.12	
L4	=		
L5	=		
L6	=	82.00	

Case Head

R	=	1.37	
R1	=	12.01	
R3	=		
E	=	3.78	
E1	=	10.39	
e min	=	1.02	
delta	=	40°	
f	=	0.35	
beta	=	45°	

Powder Chamber

P1	=	12.72	
P2 ¹⁾ *	=	12.06	-0.20

Junction Cone

alpha *	=	70°14'46"	
S *	=	53.55	
r1 min	=	0.76	
r2	=	3.18	

Collar

H1 *	=	7.53	
H2 ¹⁾	=	7.53	

Projectile

G1 ¹⁾	=	6.71	
G2	=		
F	=		
L3+G ¹⁾	=	67.34	

Pressures (Energies)

Method Transducer

Pmax	=	4100 bar	
PK	=	4715 bar	
PE	=	5125 bar	
M	=	25.00	
EE	=	3200 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1	=	44.96	
L2	=	48.18	
L3 ¹⁾	=	55.37	

Breech

R	=		
R1	=	12.81	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.78	
P1 ¹⁾	=	12.75	
P2 *	=	12.09	

Junction Cone

alpha ¹⁾ *	=	70°	
S *	=	53.59	
r1 max	=	0.76	
r2	=	3.18	

Collar

H1 *	=	7.58	
H2 ¹⁾	=	7.55	

Commencement of Rifling

G1 ¹⁾ *	=	6.73	
G ¹⁾	=	12.22	
alpha 1 *	=	89°18'50"	
h	=	0.42	
s	=	8.02	
i ¹⁾ *	=	1°30'	
w	=		

Barrel

F ¹⁾ *	=	6.50	
Z ¹⁾	=	6.71	

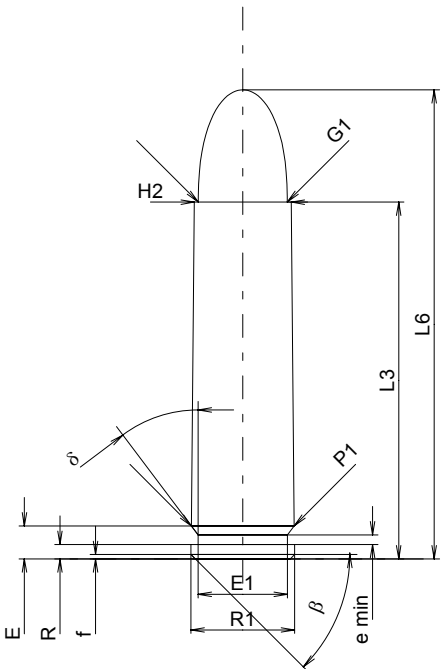
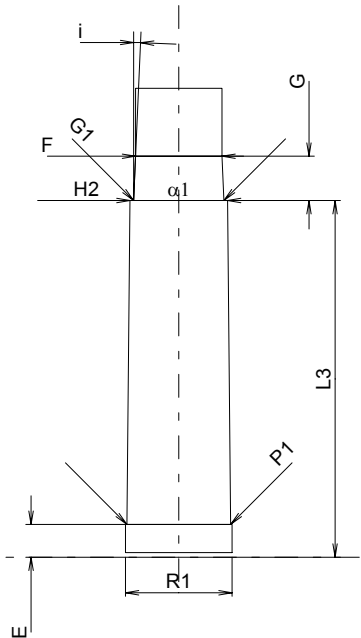
Grooves

b	=	2.29	
N	=	6	
u	=	228.60	
Q	=	34.66	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	30 Court Country of Origin: DE	TAB. I
		Date 91-05-17
		Revision 02-05-15
	CARTRIDGE MAXI Lengths L1 = L2 = L3 ¹⁾ = 31.45 -0.25 L4 = L5 = L6 = 41.35 Case Head R = 1.27 R1 = 9.14 R3 = E = 2.90 E1 = 7.87 e min = 0.84 δ = 37° f = 0.38 β = 45° Powder Chamber P1 = 9.06 P2 = Junction Cone α = S = r1 min = r2 = Collar H1 = H2 ¹⁾ = 8.55 Projectile G1 ¹⁾ = 7.85 G2 = F = L3+G ¹⁾ = 35.36 Pressures (Energies) Method Transducer Pmax = 3650 bar PK = 4198 bar PE = 4560 bar M = 17.50 EE = 1470 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	CHAMBER MINI Lengths L1 = L2 = L3 ¹⁾ = 31.45 Breech R = 1.27 R1 = 9.40 R2 = R3 = r = Powder Chamber E = 2.90 P1 ¹⁾ = 9.13 P2 = Junction Cone α = S = r1 max = r2 = Collar H1 = H2 ¹⁾ = 8.60 Commencement of Rifling G1 ^{1)*} = 7.96 G ^{1)*} = 3.91 α1 = 180° h = s = i ¹⁾ = 2°29'21" w = Barrel F ^{1)*} = 7.62 Z ¹⁾ = 7.82 Grooves b = 4.24 N = 4 u = 508.00 Q = 47.40 mm ²
	Scale 1.5:1 Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.	
Notes: 1) Check for safety reasons * Basic dimensions		

C.I.P.	30 Carbine Country of Origin: US	TAB. I
		Date 84-06-14
		Revision 02-05-15
	CARTRIDGE MAXI Lengths L1 = L2 = L3 ¹⁾ = 32.77 -0.25 L4 = L5 = L6 = 42.67 Case Head R = 1.27 R1 = 9.14 R3 = E = 2.90 E1 = 7.87 e min = 0.84 δ = 37° f = 0.38 β = 35° Powder Chamber P1 = 9.06 P2 = Junction Cone α = S = r1 min = r2 = Collar H1 = H2 ¹⁾ = 8.53 Projectile G1 ¹⁾ = 7.85 G2 = F = L3+G ¹⁾ = 36.68 Pressures (Energies) Method Transducer Pmax = 3200 bar PK = 3680 bar PE = 4000 bar M = 17.50 EE = 1375 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	CHAMBER MINI Lengths L1 = L2 = L3 ¹⁾ = 32.77 Breech R = 1.27 R1 = 9.40 R2 = R3 = r = Powder Chamber E = 2.90 P1 ¹⁾ = 9.15 P2 = Junction Cone α = S = r1 max = r2 = Collar H1 = H2 ¹⁾ = 8.60 Commencement of Rifling G1 ¹⁾ * = 7.96 G ¹⁾ = 3.91 α1 = 180° h = s = i ¹⁾ * = 2°29'26" w = Barrel F ¹⁾ * = 7.62 Z ¹⁾ = 7.82 Grooves b = 4.24 N = 4 u = 508.00 Q = 47.40 mm ²
	Scale 1.5:1 Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.	
Notes: 1) Check for safety reasons * Basic dimensions		

C.I.P.

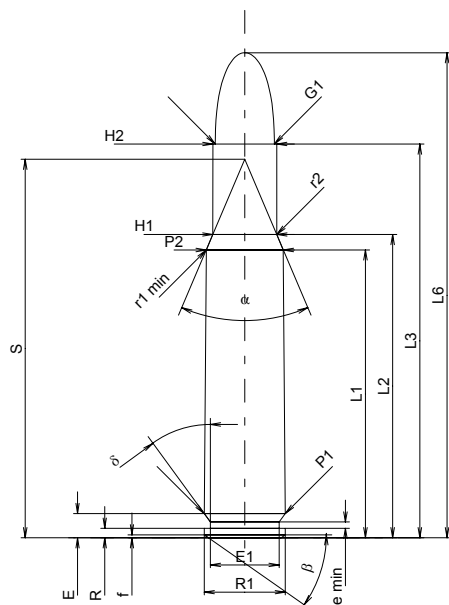
30 Rem.

TAB. I

Date 84-06-14

Revision 02-05-15

Country of Origin: US



CARTRIDGE MAXI

Lengths

L1 ¹⁾	=	38.05	-0.20
L2 ¹⁾	=	40.10	-0.20
L3 ¹⁾	=	52.07	
L4	=		
L5	=		
L6	=	64.14	

Case Head

R	=	1.24	
R1	=	10.72	
R3	=		
E	=	3.19	
E1	=	9.09	
e min	=	0.84	
δ	=	36°	
f	=	0.38	
β	=	35°	

Powder Chamber

P1	=	10.71	
P2 ¹⁾ *	=	10.19	-0.20

Junction Cone

α [*]	=	46°	
S [*]	=	50.05	
r1 min	=	0.64	
r2	=	2.54	

Collar

H1 [*]	=	8.45	
H2 ¹⁾	=	8.43	

Projectile

G1 ¹⁾	=	7.80	
G2	=		
F	=		
L3+G ¹⁾	=	55.29	

Pressures (Energies)

Method Transducer

Pmax	=	2800 bar	
PK	=	3220 bar	
PE	=	3500 bar	
M	=	25.00	
EE	=	2745 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1	=	38.01	
L2	=	40.07	
L3 ¹⁾	=	52.20	

Breech

R	=		
R1	=	10.80	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.19	
P1 ¹⁾	=	10.75	
P2 [*]	=	10.22	

Junction Cone

α ¹⁾ *	=	46°	
S [*]	=	50.05	
r1 max	=	0.64	
r2	=	2.54	

Collar

H1 [*]	=	8.47	
H2 ¹⁾	=	8.44	

Commencement of Rifling

G1 ¹⁾ *	=	7.80	
G ¹⁾	=	3.22	
α1 [*]	=	60°	
h	=	0.55	
s	=		
i ¹⁾ *	=	1°55'59"	
w	=		

Barrel

F ¹⁾ *	=	7.62	
Z ¹⁾	=	7.77	

Grooves

b	=	2.67	
N	=	7	
u	=	305.00	
Q	=	47.04	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

30-06 Court Cartry

Country of Origin: FR

TAB.

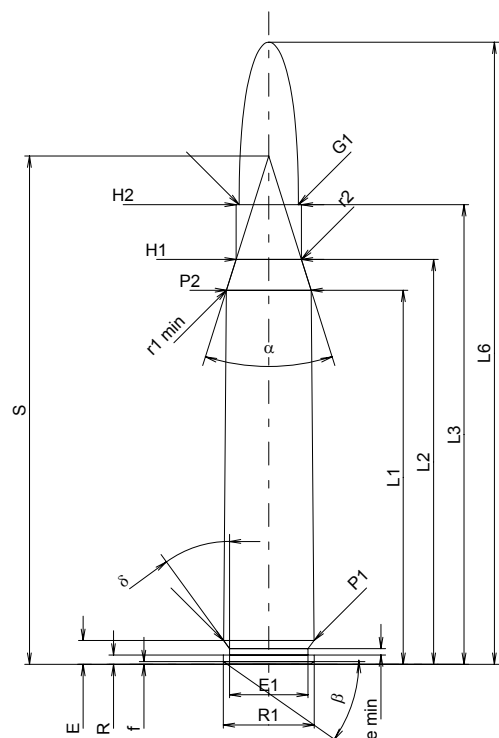
I

Date

95-12-10

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	49.49	-0.20
L2 ¹⁾ *	=	53.56	-0.20
L3 ¹⁾	=	60.80	
L4	=		
L5	=		
L6	=	82.30	

Case Head

R	=	1.24	
R1	=	12.01	
R3	=		
E	=	3.16	
E1	=	10.39	
e min	=	0.84	
delta	=	36°	
f	=	0.38	
beta	=	35°	

Powder Chamber

P1	=	11.96	
P2 ¹⁾ *	=	11.20	-0.20

Junction Cone

alpha	=	35°02'39"	
S	=	67.23	
r1 min	=	1.27	
r2	=	2.54	

Collar

H1 *	=	8.63	
H2 ¹⁾	=	8.63	

Projectile

G1 ¹⁾	=	7.85	
G2	=		
F	=		
L3+G ¹⁾	=	66.97	

Pressures (Energies)

Method Transducer

Pmax	=	3500 bar	
PK	=	4025 bar	
PE	=	4375 bar	
M	=	25.00	
EE	=	3800 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=	0.15	

CHAMBER MINI

Lengths

L1 *	=	49.27	
L2 *	=	53.36	
L3 ¹⁾	=	60.81	

Breech

R	=		
R1	=	12.04	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.16	
P1 ¹⁾	=	11.99	
P2 *	=	11.24	

Junction Cone

alpha ¹⁾	=	34°30'03"	
S	=	67.37	
r1 max	=	1.27	
r2	=	3.05	

Collar

H1 *	=	8.70	
H2 ¹⁾	=	8.65	

Commencement of Rifling

G1 ¹⁾ *	=	7.89	
G ¹⁾ *	=	6.17	
alpha1	=	71°16'12"	
h *	=	0.53	
s	=		
i ¹⁾	=	1°22'13"	
w	=		

Barrel

F ¹⁾ *	=	7.62	
Z ¹⁾	=	7.82	

Grooves

b	=	4.49	
N	=	4	
u	=	254.00	
Q	=	47.52	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

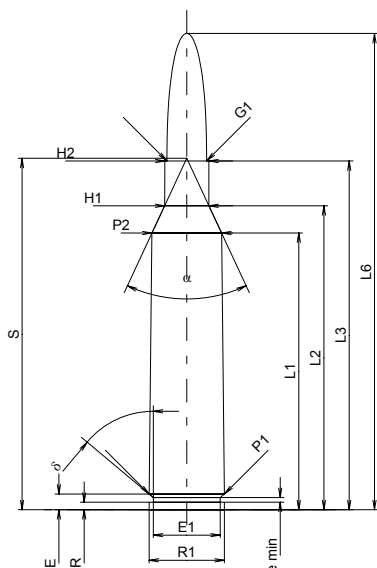
300 Lapua Mag.

TAB. I

Date 89-10-06

Revision 02-05-15

Country of Origin: FI



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	54.90	-0.20
L2 ¹⁾ *	=	60.31	-0.20
L3 ¹⁾	=	69.20	
L4	=		
L5	=		
L6	=	94.50	

Case Head

R	=	1.52	
R1	=	14.93	
R3	=		
E	=	3.12	
E1	=	13.24	
e min	=	0.90	
delta	=	50°	
f	=		
beta	=	45°	

Powder Chamber

P1	=	14.91	
P2 ¹⁾ *	=	13.82	-0.20

Junction Cone

alpha	=	49°57'09"	
S	=	69.73	
r1 min	=		
r2	=		

Collar

H1 *	=	8.78	
H2 ¹⁾	=	8.73	

Projectile

G1 ¹⁾	=	7.87	
G2	=		
F	=		
L3+G ¹⁾	=	75.70	

Pressures (Energies)

Method Transducer

Pmax	=	4700 bar	
PK	=	5405 bar	
PE	=	5875 bar	
M	=	25.00	
EE	=	5220 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	54.81	
L2 *	=	60.19	
L3 ¹⁾	=	69.45	

Breech

R	=		
R1	=	15.03	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.12	
P1 ¹⁾	=	14.96	
P2 *	=	13.85	

Junction Cone

alpha ¹⁾	=	50°01'19"	
S	=	69.65	
r1 max	=		
r2	=		

Collar

H1 *	=	8.83	
H2 ¹⁾	=	8.77	

Commencement of Rifling

G1 ¹⁾ *	=	7.87	
G ¹⁾ *	=	6.50	
alpha 1	=	90°	
h	=	0.45	
s *	=	3.00	
i ¹⁾	=	2°02'43"	
w	=		

Barrel

F ¹⁾ *	=	7.62	
Z ¹⁾	=	7.82	

Grooves

b	=	4.47	
N	=	4	
u	=	240.00	
Q	=	47.51	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	300 Rem. Ultra Mag.	TAB.	I
		Date	98-11-03
		Revision	02-05-15
Country of Origin: US			
 <			

C.I.P.

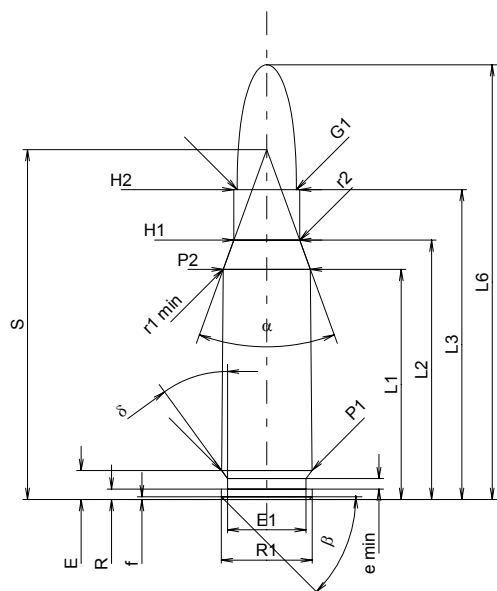
308 EH

TAB. I

Date 89-09-20

Revision 02-05-15

Country of Origin: FR



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	30.45	-0.20
L2 ¹⁾ *	=	34.31	-0.20
L3 ¹⁾	=	41.00	
L4	=		
L5	=		
L6	=	57.50	

Case Head

R	=	1.37	
R1	=	12.01	
R3	=		
E	=	3.85	
E1	=	10.39	
e min	=	1.40	
delta	=	36°	
f	=	0.38	
beta	=	45°	

Powder Chamber

P1	=	11.96	
P2 ¹⁾ *	=	11.53	-0.20

Junction Cone

alpha	=	40°00'06"	
S	=	46.29	
r1 min	=	0.76	
r2	=	3.18	

Collar

H1 *	=	8.72	
H2 ¹⁾	=	8.72	

Projectile

G1 ¹⁾	=	7.85	
G2	=		
F	=		
L3+G ¹⁾	=	48.04	

Pressures (Energies)

Method Transducer

Pmax	=	3800 bar	
PK	=	4370 bar	
PE	=	4750 bar	
M	=	25.00	
EE	=	3920 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=	0.10	

CHAMBER MINI

Lengths

L1 *	=	30.31	
L2 *	=	34.11	
L3 ¹⁾	=	41.26	

Breech

R	=		
R1	=	12.03	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.85	
P1 ¹⁾	=	11.99	
P2 *	=	11.56	

Junction Cone

alpha ¹⁾	=	40°03'03"	
S	=	46.17	
r1 max	=	0.76	
r2	=	3.76	

Collar

H1 *	=	8.79	
H2 ¹⁾	=	8.74	

Commencement of Rifling

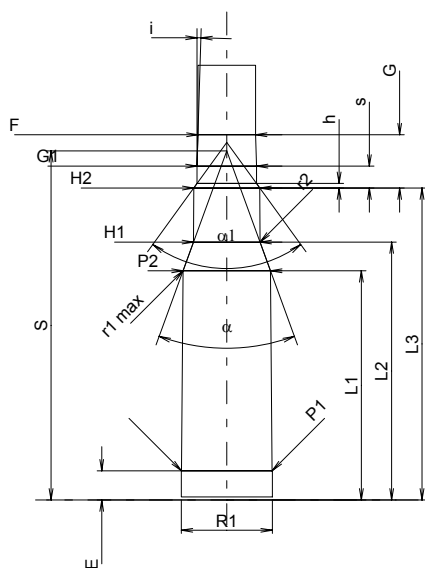
G1 ¹⁾ *	=	7.87	
G ¹⁾ *	=	7.04	
alpha 1	=	71°52'48"	
h	=	0.60	
s *	=	2.89	
i ¹⁾	=	1°43'31"	
w	=		

Barrel

F ¹⁾ *	=	7.62	
Z ¹⁾	=	7.82	

Grooves

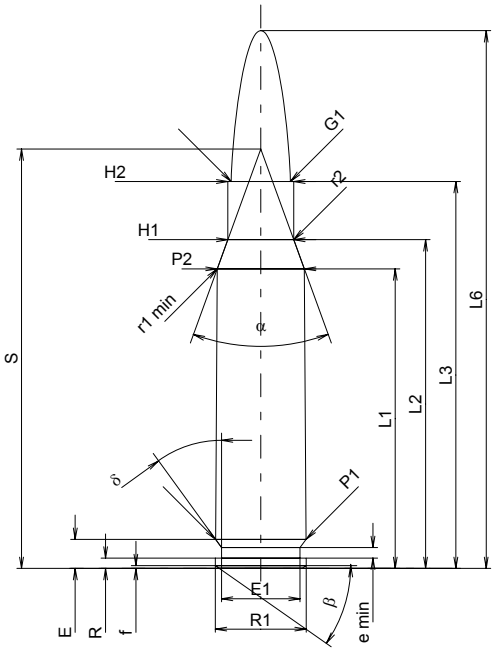
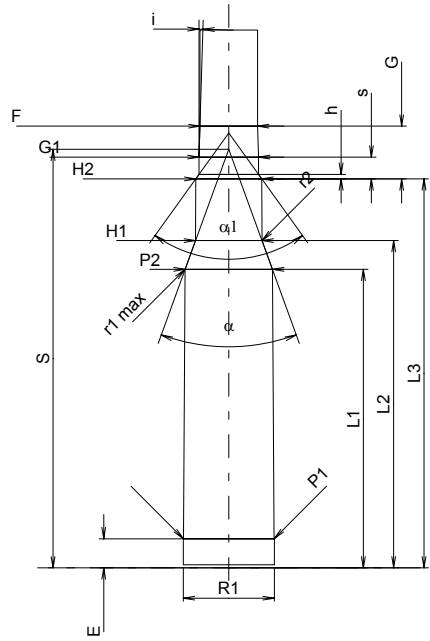
b	=	4.47	
N	=	4	
u	=	305.00	
Q	=	47.51	mm ²



Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	308 Win. Country of Origin: US	TAB.	I
		Date	84-06-14
		Revision	02-05-15
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 39.62 -0.20 L2 ¹⁾ = 43.48 -0.20 L3 ¹⁾ = 51.18 L4 = L5 = L6 = 71.12 Case Head R = 1.37 R1 = 12.01 R3 = E = 3.85 E1 = 10.39 e min = 1.40 δ = 36° f = 0.38 β = 35° Powder Chamber P1 = 11.96 P2 ^{1)*} = 11.53 -0.20 Junction Cone α^* = 40° S* = 55.46 r1 min = 0.76 r2 = 3.18 Collar H1* = 8.72 H2 ¹⁾ = 8.72 Projectile G1 ¹⁾ = 7.85 G2 = F = L3+G ¹⁾ = 58.16 Pressures (Energies) Method Transducer Pmax = 4150 bar PK = 4773 bar PE = 5190 bar M = 25.00 EE = 3920 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L = 0.10	CHAMBER MINI Lengths L1 = 39.48 L2 = 43.28 L3 ¹⁾ = 51.44 Breech R = R1 = 12.03 R2 = R3 = r = Powder Chamber E = 3.85 P1 ¹⁾ = 11.99 P2* = 11.56 Junction Cone $\alpha^{1)*}$ = 40° S* = 55.36 r1 max = 0.76 r2 = 3.68 Collar H1* = 8.79 H2 ¹⁾ = 8.74 Commencement of Rifling G1 ^{1)*} = 7.87 G ¹⁾ = 6.98 $\alpha 1^*$ = 71°25'59" h = 0.60 s = 2.89 i ^{1)*} = 1°45' w = Barrel F ^{1)*} = 7.62 Z ¹⁾ = 7.82 Grooves b = 4.47 N = 4 u = 305.00 Q = 47.51 mm ²	
		Scale 1:1 Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.	Notes: 1) Check for safety reasons * Basic dimensions

C.I.P.

318 Riml. N.E.

Country of Origin: GB

TAB.

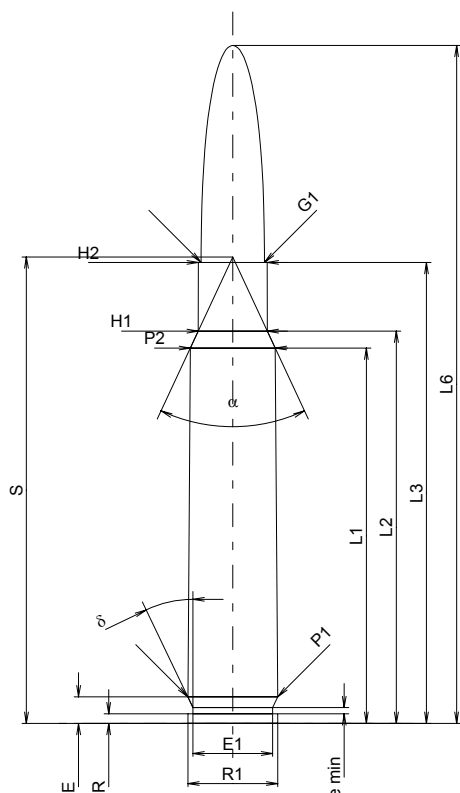
I

Date

84-06-14

Revision

02-05-15



CARTRIDGE MAXI

Lengths

L1 ^{1)*}	=	49.63	-0.20
L2 ^{1)*}	=	51.87	-0.20
L3 ¹⁾	=	60.96	
L4	=		
L5	=		
L6	=	89.66	

Case Head

R	=	1.27	
R1	=	11.89	
R3	=		
E	=	3.51	
E1	=	10.52	
e min	=	0.81	
delta	=	25°36'	
f	=		
beta	=		

Powder Chamber

P1	=	11.89	
P2 ^{1)*}	=	11.23	-0.20

Junction Cone

alpha	=	50°01'11"	
S	=	61.67	
r1 min	=		
r2	=		

Collar

H1 [*]	=	9.14	
H2 ¹⁾	=	9.12	

Projectile

G1 ¹⁾	=	8.38	
G2	=		
F	=		
L3+G ¹⁾	=	67.63	

Pressures (Energies)

Method Transducer

Pmax	=	3300 bar	
PK	=	3795 bar	
PE	=	4125 bar	
M	=	25.00	
EE	=	4550 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 [*]	=	49.58	
L2 [*]	=	51.82	
L3 ¹⁾	=	61.26	

Breech

R	=	1.27	
R1	=	11.94	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.51	
P1 ¹⁾	=	11.91	
P2 [*]	=	11.25	

Junction Cone

alpha ¹⁾	=	49°48'36"	
S	=	61.70	
r1 max	=		
r2	=		

Collar

H1 [*]	=	9.17	
H2 ¹⁾	=	9.14	

Commencement of Rifling

G1 ^{1)*}	=	8.40	
G ^{1)*}	=	6.67	
alpha1	=	90°	
h [*]	=	0.37	
s	=		
i ¹⁾	=	1°30'01"	
w	=		

Barrel

F ^{1)*}	=	8.07	
Z ¹⁾	=	8.38	

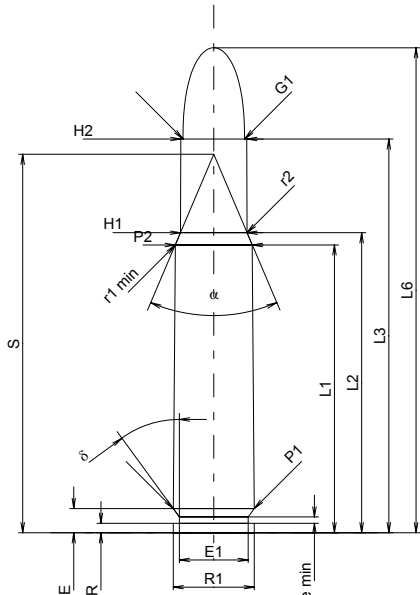
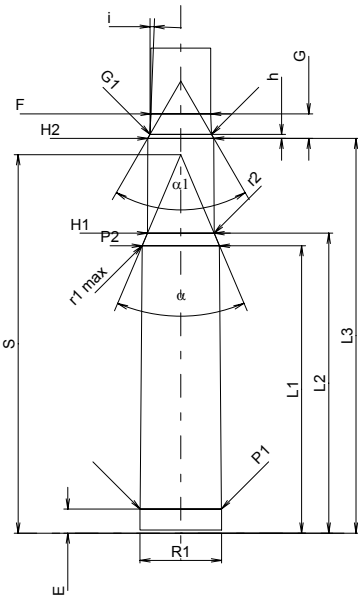
Grooves

b	=		
N	=		
u	=	305.00	
Q	=	51.15	mm ²

Scale 1:1

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.	32 Rem.	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: US			
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 38.05 -0.20 L2 ¹⁾ = 39.67 -0.20 L3 ¹⁾ = 52.07 L4 = L5 = L6 = 64.14 Case Head R = 1.24 R1 = 10.72 R3 = E = 3.19 E1 = 9.09 e min = 0.84 δ = 36° f = β = 35° Powder Chamber P1 = 10.71 P2 ¹⁾ * = 10.19 -0.20 Junction Cone α [*] = 46° S [*] = 50.05 r1 min = 0.64 r2 = 2.54 Collar H1 [*] = 8.81 H2 ¹⁾ = 8.73 Projectile G1 ¹⁾ = 8.15 G2 = F = L3+G ¹⁾ = 55.33 Pressures (Energies) Method Transducer Pmax = 2950 bar PK = 3393 bar PE = 3690 bar M = 25.00 EE = 2435 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	CHAMBER MINI Lengths L1 = 38.01 L2 = 39.66 L3 ¹⁾ = 52.20 Breech R = R1 = 10.80 R2 = R3 = r = Powder Chamber E = 3.19 P1 ¹⁾ = 10.75 P2 [*] = 10.22 Junction Cone α ¹⁾ * = 46° S [*] = 50.05 r1 max = 0.64 r2 = 2.54 Collar H1 [*] = 8.82 H2 ¹⁾ = 8.74 Commencement of Rifling G1 ¹⁾ * = 8.13 G ¹⁾ = 3.26 α1 [*] = 60° h = 0.53 s = i ¹⁾ * = 2°12'23" w = Barrel F ¹⁾ * = 7.92 Z ¹⁾ = 8.10 Grooves b = 2.79 N = 7 u = 356.00 Q = 51.10 mm ²	
			
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.	333 Riml. N.E. Country of Origin: GB	TAB. I
		Date 84-06-14
		Revision 02-05-15
	CARTRIDGE MAXI Lengths L1 ¹⁾ * = 44.45 -0.20 L2 ¹⁾ * = 49.20 -0.20 L3 ¹⁾ = 62.86 L4 = L5 = L6 = 88.90 Case Head R = 1.27 R1 = 13.79 R3 = E = 3.30 E1 = 12.37 e min = 1.02 δ = 36°02'39" f = β = Powder Chamber P1 = 13.84 P2 ¹⁾ * = 12.70 -0.20 Junction Cone α = 39°42'15" S = 62.04 r1 min = r2 = Collar H1* = 9.27 H2 ¹⁾ = 9.22 Projectile G1 ¹⁾ = 8.46 G2 = F = L3+G ¹⁾ = 68.97 Pressures (Energies) Method Transducer Pmax = 3300 bar PK = 3795 bar PE = 4125 bar M = 25.00 EE = 4320 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	CHAMBER MINI Lengths L1* = 44.40 L2* = 49.15 L3 ¹⁾ = 63.17 Breech R = 1.27 R1 = 13.84 R2 = R3 = r = Powder Chamber E = 3.30 P1 ¹⁾ = 13.87 P2* = 12.73 Junction Cone α ¹⁾ = 39°42'14" S = 62.03 r1 max = r2 = Collar H1* = 9.30 H2 ¹⁾ = 9.25 Commencement of Rifling G1 ¹⁾ * = 8.50 G ¹⁾ * = 6.11 α1 = 90° h* = 0.38 s = i ¹⁾ = 1°29'57" w = Barrel F ¹⁾ * = 8.20 Z ¹⁾ = 8.46 Grooves b = N = u = Q = 52.81 mm ²
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions	
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		

C.I.P.

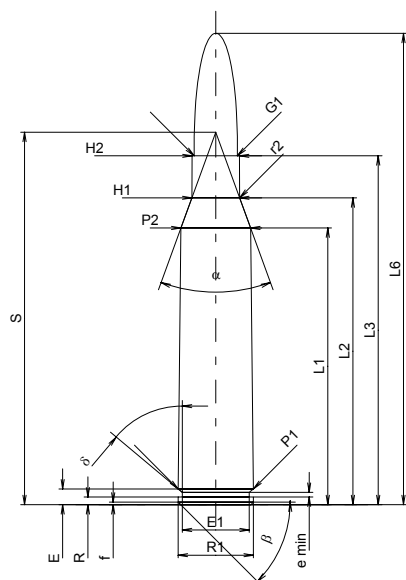
338 Lapua Mag.

TAB. I

Date 89-09-09

Revision 02-05-15

Country of Origin: FI



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	54.90	-0.20
L2 ¹⁾ *	=	60.89	-0.20
L3 ¹⁾	=	69.20	
L4	=		
L5	=		
L6	=	93.50	

Case Head

R	=	1.52	
R1	=	14.93	
R3	=		
E	=	3.12	
E1	=	13.24	
e min	=	0.90	
δ	=	50°04'48"	
f	=	0.50	
β	=	45°	

Powder Chamber

P1	=	14.91	
P2 ¹⁾ *	=	13.82	+0.20

Junction Cone

α	=	39°59'48"	
S	=	73.89	
r1 min	=		
r2	=	2.50	

Collar

H1 *	=	9.46	
H2 ¹⁾	=	9.41	

Projectile

G1 ¹⁾	=	8.61	
G2	=		
F	=		
L3+G ¹⁾	=	75.28	

Pressures (Energies)

Method Transducer

Pmax	=	4700 bar	
PK	=	5405 bar	
PE	=	5875 bar	
M	=	25.00	
EE	=	6600 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	54.81	
L2 *	=	60.77	
L3 ¹⁾	=	69.45	

Breech

R	=		
R1	=	15.03	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.12	
P1 ¹⁾	=	14.96	
P2 *	=	13.85	

Junction Cone

α ¹⁾	=	40°00'46"	
S	=	73.83	
r1 max	=		
r2	=	3.00	

Collar

H1 *	=	9.51	
H2 ¹⁾	=	9.45	

Commencement of Rifling

G1 ¹⁾ *	=	8.63	
G ¹⁾ *	=	6.08	
α1	=	90°	
h	=	0.41	
s *	=	3.70	
i ¹⁾	=	3°00'23"	
w	=		

Barrel

F ¹⁾ *	=	8.38	
Z ¹⁾	=	8.58	

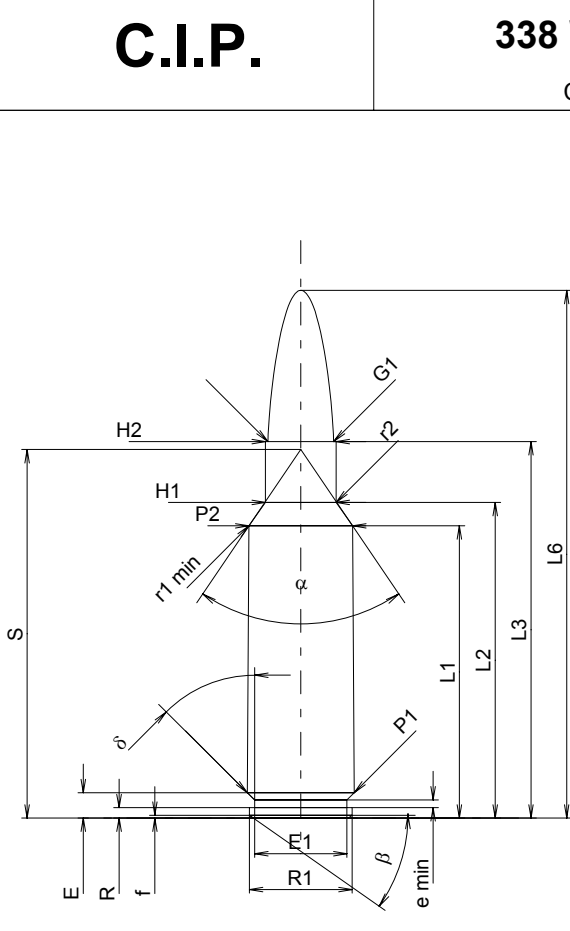
Grooves

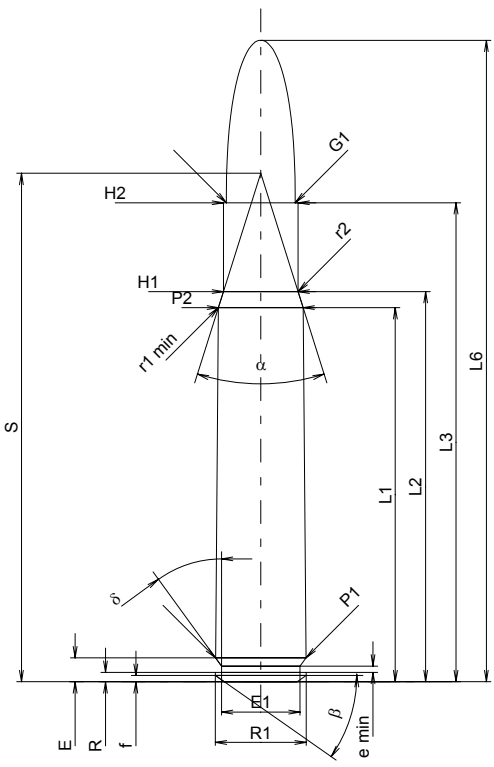
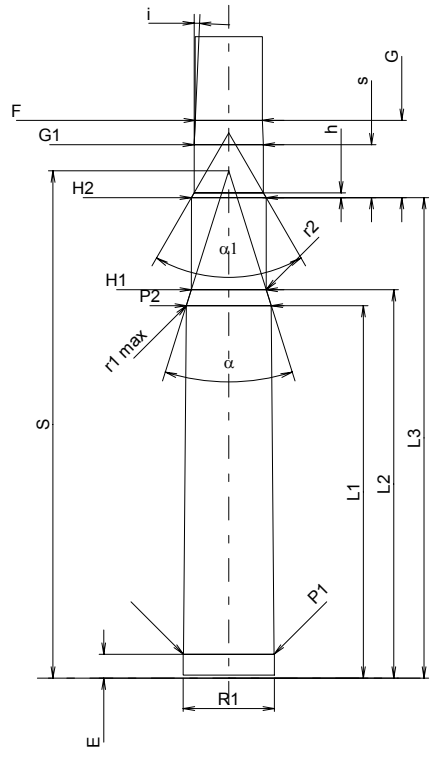
b	=	2.79	
N	=	6	
u	=	254.00	
Q	=	56.86	mm ²

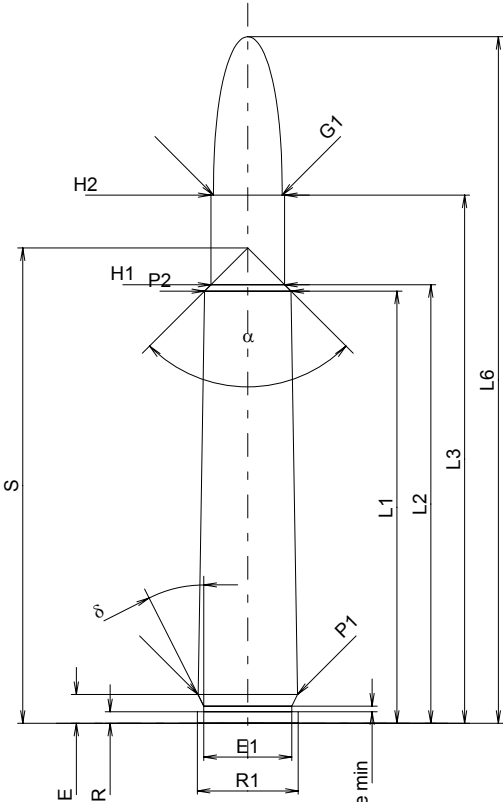
Scale 1:1.5

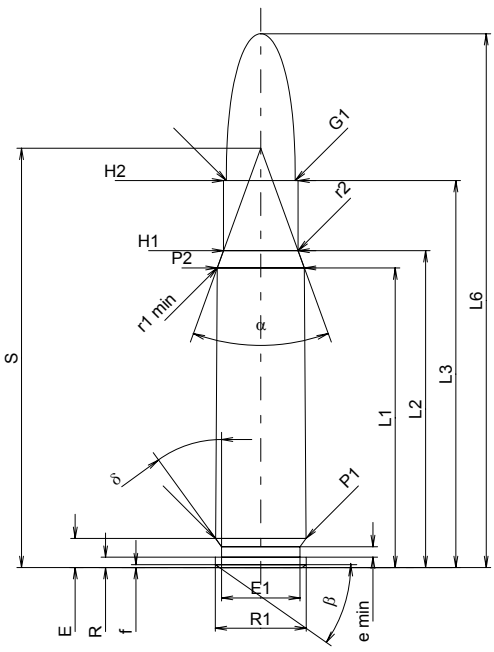
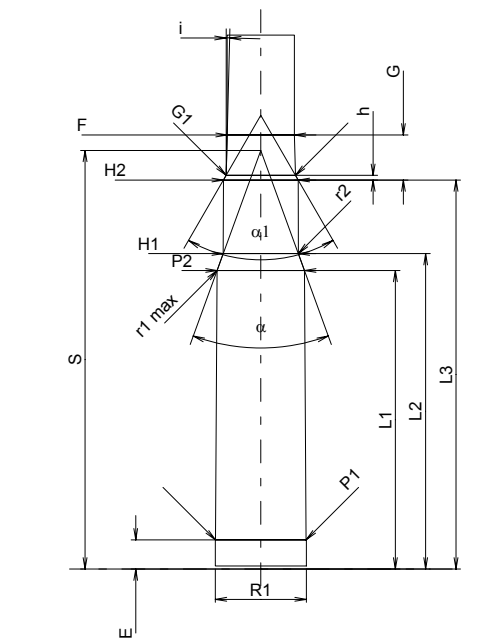
Dimensions in << mm >>
 Dimensions and Tolerances for Proof Barrels
 see Appendix CR 1.

Notes: 1) Check for safety reasons
 * Basic dimensions

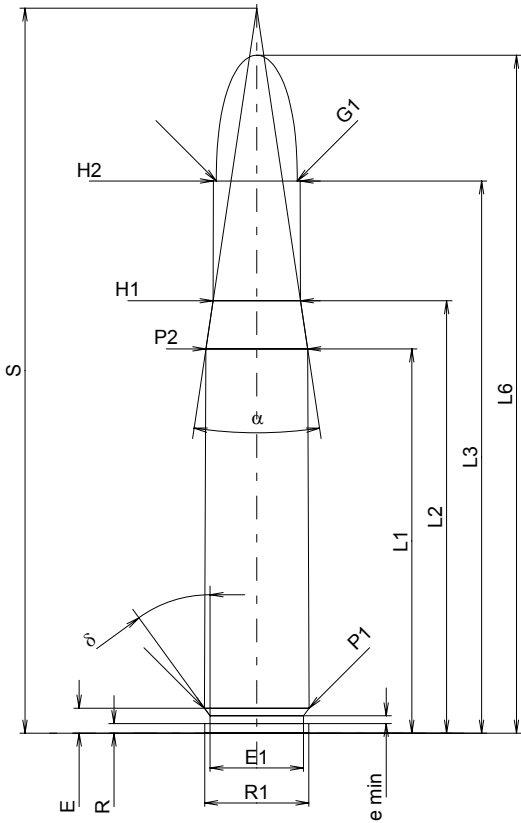
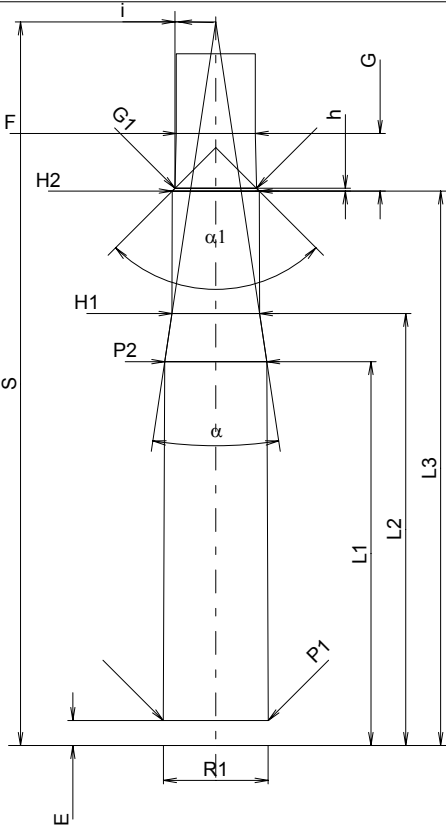
C.I.P.	338 Win. Short Mag. Country of Origin: US	TAB.	I
		Date	02-01-22
		Revision	02-05-15
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1¹⁾ = 38.64 -0.20 L2¹⁾ = 41.74 -0.20 L3¹⁾ = 49.78 L4 = L5 = L6 = 69.78 Case Head R = 1.37 R1 = 13.59 R3 = E = 3.35 E1 = 12.19 e min = 1.02 δ = 45° f = 0.36 β = 35° Powder Chamber P1 = 14.12 P2^{1)*} = 13.71 -0.20 Junction Cone α[*] = 70° S[*] = 48.73 r1 min = 1.27 r2 = 2.54 Collar H1[*] = 9.37 H2¹⁾ = 9.37 Projectile G1¹⁾ = 8.69 G2 = F = L3+G¹⁾ = 57.39 Pressures (Energies) Method Transducer Pmax = 4150 bar PK = 4773 bar PE = 5188 bar M = 25.00 EE = 4935 Joule Miscellaneous Dimensions Fe¹⁾ = 0.10 delta L =	Lengths L1 = 38.51 L2 = 41.50 L3¹⁾ = 50.04 Breech R = R1 = 14.19 R2 = R3 = r = Powder Chamber E = 3.35 P1¹⁾ = 14.15 P2[*] = 13.75 Junction Cone α^{1)*} = 70° S[*] = 48.33 r1 max = 1.27 r2 = 3.05 Collar H1[*] = 9.42 H2¹⁾ = 9.40 Commencement of Rifling G1^{1)*} = 8.71 G¹⁾ = 7.61 αl[*] = 90°50'11" h = 0.34 s = 2.89 i^{1)*} = 2° w = Barrel F^{1)*} = 8.38 Z¹⁾ = 8.59 Grooves b = 2.79 N = 6 u = 254.00 Q = 56.95 mm²	
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		

C.I.P.	35 Whelen	TAB.	I
		Date	94-03-01
		Revision	02-05-15
Country of Origin: US			
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 49.48 -0.20 L2 ¹⁾ = 51.60 -0.20 L3 ¹⁾ = 63.35 L4 = L5 = L6 = 84.84 Case Head R = 1.24 R1 = 12.01 R3 = E = 3.16 E1 = 10.39 e min = 0.84 δ = 36° f = 0.83 β = 35° Powder Chamber P1 = 11.96 P2 ¹⁾ * = 11.20 -0.20 Junction Cone α ¹⁾ * = 35° S ¹⁾ * = 67.24 r1 min = 1.27 r2 = 2.54 Collar H1 ¹⁾ * = 9.86 H2 ¹⁾ = 9.86 Projectile G1 ¹⁾ = 9.12 G2 = F = L3+G ¹⁾ = 73.56 Pressures (Energies) Method Transducer Pmax = 4000 bar PK = 4600 bar PE = 5000 bar M = 25.00 EE = 4560 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	CHAMBER MINI Lengths L1 = 49.27 L2 = 51.37 L3 ¹⁾ = 63.55 Breech R = R1 = 12.04 R2 = R3 = r = Powder Chamber E = 3.16 P1 ¹⁾ = 11.99 P2 ¹⁾ * = 11.24 Junction Cone α ¹⁾ * = 35° S ¹⁾ * = 67.09 r1 max = 1.27 r2 = 2.54 Collar H1 ¹⁾ * = 9.91 H2 ¹⁾ = 9.88 Commencement of Rifling G1 ¹⁾ * = 9.14 G ¹⁾ = 10.21 α1 ¹⁾ * = 60° h = 0.64 s = 7.00 i ¹⁾ * = 2°30' w = Barrel F ¹⁾ * = 8.86 Z ¹⁾ = 9.07 Grooves b = 3.30 N = 6 u = 406.40 Q = 63.78 mm ²	
			
Scale 1:1			
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		Notes: 1) Check for safety reasons * Basic dimensions	

C.I.P.	350 Mag. Rigby	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: GB			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ¹⁾ * = 57.15 -0.20 L2 ¹⁾ * = 57.99 -0.20 L3 ¹⁾ = 69.85 L4 = L5 = L6 = 90.80 Case Head R = 1.52 R1 = 13.36 R3 = E = 3.81 E1 = 11.61 e min = 0.76 δ = 26°51'36" f = β = Powder Chamber P1 = 13.16 P2 ¹⁾ * = 11.43 -0.20 Junction Cone α = 90° S = 62.86 r1 min = r2 = Collar H1 [*] = 9.75 H2 ¹⁾ = 9.73 Projectile G1 ¹⁾ = 9.07 G2 = F = L3+G ¹⁾ = 74.75 Pressures (Energies) Method Transducer Pmax = 3100 bar PK = 3565 bar PE = 3875 bar M = 25.00 EE = 4810 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	Lengths L1 [*] = 57.10 L2 [*] = 57.94 L3 ¹⁾ = 70.15 Breech R = 1.52 R1 = 13.41 R2 = R3 = r = Powder Chamber E = 3.81 P1 ¹⁾ = 13.18 P2 [*] = 11.46 Junction Cone α ¹⁾ = 90° S = 62.83 r1 max = r2 = Collar H1 [*] = 9.78 H2 ¹⁾ = 9.75 Commencement of Rifling G1 ¹⁾ * = 9.13 G ¹⁾ * = 4.90 α1 = 180° h = s = i ¹⁾ * = 1°30' w = Barrel F ¹⁾ * = 8.89 Z ¹⁾ = 9.06 Grooves b = N = u = 305.00 Q = 62.07 mm²	
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.	358 Win.	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: US			
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 39.62 -0.20 L2 ¹⁾ = 41.91 -0.20 L3 ¹⁾ = 51.18 L4 = L5 = L6 = 70.61 Case Head R = 1.37 R1 = 12.01 R3 = E = 3.85 E1 = 10.39 e min = 1.40 δ = 36° f = 0.38 β = 35° Powder Chamber P1 = 11.96 P2 ^{1)*} = 11.53 -0.20 Junction Cone α [*] = 40° S [*] = 55.46 r1 min = 0.76 r2 = 2.54 Collar H1 [*] = 9.86 H2 ¹⁾ = 9.86 Projectile G1 ¹⁾ = 9.11 G2 = F = L3+G ¹⁾ = 57.14 Pressures (Energies) Method Transducer Pmax = 4050 bar PK = 4658 bar PE = 5060 bar M = 25.00 EE = 4270 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L = 0.10	CHAMBER MINI Lengths L1 = 39.48 L2 = 41.72 L3 ¹⁾ = 51.44 Breech R = R1 = 12.03 R2 = R3 = r = Powder Chamber E = 3.85 P1 ¹⁾ = 11.99 P2 [*] = 11.56 Junction Cone α ^{1)*} = 40° S [*] = 55.36 r1 max = 0.76 r2 = 2.79 Collar H1 [*] = 9.93 H2 ¹⁾ = 9.88 Commencement of Rifling G1 ^{1)*} = 9.17 G ¹⁾ = 5.96 α1 [*] = 60° h = 0.61 s = i ^{1)*} = 1°30' w = Barrel F ^{1)*} = 8.89 Z ¹⁾ = 9.09 Grooves b = 2.79 N = 6 u = 305.00 Q = 63.77 mm ²	
			
Scale 1:1	Notes: 1) Check for safety reasons * Basic dimensions		
Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.	375 Rem. Ultra Mag. Country of Origin: US	TAB.	I
		Date	02-01-22
		Revision	02-05-15
	CARTRIDGE MAXI Lengths L1 ¹⁾ = 60.64 -0.20 L2 ¹⁾ = 63.28 -0.20 L3 ¹⁾ = 72.39 L4 = L5 = L6 = 91.44 Case Head R = 1.27 R1 = 13.56 R3 = E = 3.75 E1 = 12.07 e min = 0.94 δ = 32° f = 0.31 β = 35° Powder Chamber P1 = 13.99 P2 ¹⁾ * = 13.33 -0.20 Junction Cone α [*] = 60° S [*] = 72.18 r1 min = 0.76 r2 = 3.18 Collar H1 [*] = 10.29 H2 ¹⁾ = 10.29 Projectile G1 ¹⁾ = 9.55 G2 = F = L3+G ¹⁾ = 84.38 Pressures (Energies) Method Transducer Pmax = 4400 bar PK = 5060 bar PE = 5500 bar M = 25.00 EE = 7350 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.10 delta L =	CHAMBER MINI Lengths L1 = 60.51 L2 = 63.13 L3 ¹⁾ = 72.64 Breech R = R1 = 14.05 R2 = R3 = r = Powder Chamber E = 3.75 P1 ¹⁾ = 14.04 P2 [*] = 13.36 Junction Cone α ¹⁾ * = 60° S [*] = 72.80 r1 max = 0.76 r2 = 3.18 Collar H1 [*] = 10.34 H2 ¹⁾ = 10.31 Commencement of Rifling G1 ¹⁾ * = 9.55 G ¹⁾ = 11.99 α1 = 90° h = 0.38 s [*] = 4.83 i ¹⁾ * = 1° w = Barrel F ¹⁾ * = 9.30 Z ¹⁾ = 9.55 Grooves b = 2.92 N = 6 u = 304.80 Q = 70.16 mm ²	
		Notes: 1) Check for safety reasons * Basic dimensions	
Scale 1:1 Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.			

C.I.P.	404 Riml. N.E.	TAB.	I
		Date	84-06-14
		Revision	02-05-15
Country of Origin: GB			
	CARTRIDGE MAXI	CHAMBER MINI	
	Lengths L1 ^{1)*} = 50.82 -0.20 L2 ^{1)*} = 57.18 -0.20 L3 ¹⁾ = 73.02 L4 = L5 = L6 = 89.66 Case Head R = 1.27 R1 = 13.79 R3 = E = 3.30 E1 = 12.37 e min = 1.02 δ = 36°02'24" f = β = Powder Chamber P1 = 13.84 P2 ^{1)*} = 13.46 -0.20 Junction Cone α = 16°59'26" S = 95.88 r1 min = r2 = Collar H1 [*] = 11.56 H2 ¹⁾ = 11.48 Projectile G1 ¹⁾ = 10.72 G2 = F = L3+G ¹⁾ = 80.64 Pressures (Energies) Method Transducer Pmax = 3650 bar PK = 4198 bar PE = 4560 bar M = 25.00 EE = 6815 Joule Miscellaneous Dimensions Fe ¹⁾ = 0.15 delta L =	Lengths L1 [*] = 50.77 L2 [*] = 57.13 L3 ¹⁾ = 73.33 Breech R = 1.27 R1 = 13.84 R2 = R3 = r = Powder Chamber E = 3.30 P1 ¹⁾ = 13.87 P2 [*] = 13.49 Junction Cone α ¹⁾ = 17°04'44" S = 95.69 r1 max = r2 = Collar H1 [*] = 11.58 H2 ¹⁾ = 11.51 Commencement of Rifling G1 ^{1)*} = 10.77 G ^{1)*} = 7.62 α1 = 90° h [*] = 0.37 s = i ¹⁾ = 1°25'20" w = Barrel F ^{1)*} = 10.46 Z ¹⁾ = 10.62 Grooves b = N = u = 420.00 Q = 85.11 mm²	
			
Scale 1:1 Dimensions in << mm >> Dimensions and Tolerances for Proof Barrels see Appendix CR 1.		Notes: 1) Check for safety reasons * Basic dimensions	

C.I.P.

416 Rigby

Country of Origin: GB

TAB.

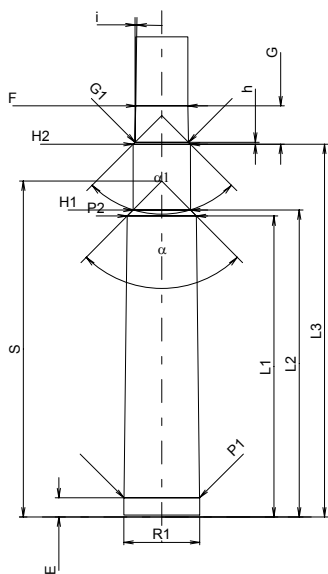
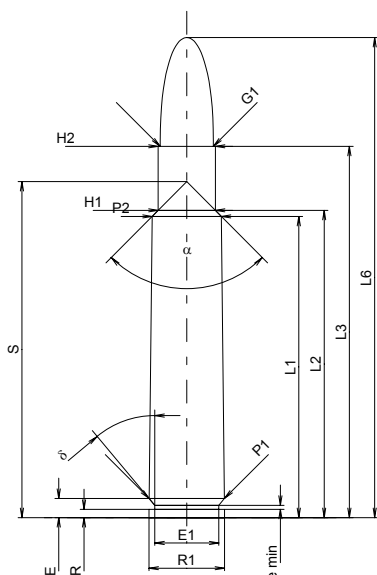
I

Date

84-06-14

Revision

02-05-15



Scale 1:1.5

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	59.77	-0.20
L2 ¹⁾ *	=	60.96	-0.20
L3 ¹⁾	=	73.66	
L4	=		
L5	=		
L6	=	95.25	

Case Head

R	=	1.65	
R1	=	14.99	
R3	=		
E	=	3.81	
E1	=	12.70	
e min	=	0.81	
δ	=	39°55'48"	
f	=		
β	=		

Powder Chamber

P1	=	14.96	
P2 ¹⁾ *	=	13.72	-0.20

Junction Cone

α	=	89°45'32"	
S	=	66.66	
r1 min	=		
r2	=		

Collar

H1 *	=	11.35	
H2 ¹⁾	=	11.33	

Projectile

G1 ¹⁾	=	10.57	
G2	=		
F	=		
L3+G ¹⁾	=	81.28	

Pressures (Energies)

Method Transducer

Pmax	=	3250 bar	
PK	=	3738 bar	
PE	=	4060 bar	
M	=	25.00	
EE	=	7270 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	59.72	
L2 *	=	60.91	
L3 ¹⁾	=	73.96	

Breech

R	=	1.65	
R1	=	15.04	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.81	
P1 ¹⁾	=	14.99	
P2 *	=	13.74	

Junction Cone

α ¹⁾	=	89°30'57"	
S	=	66.65	
r1 max	=		
r2	=		

Collar

H1 *	=	11.38	
H2 ¹⁾	=	11.35	

Commencement of Rifling

G1 ¹⁾ *	=	10.59	
G ¹⁾ *	=	7.62	
α1	=	90°	
h *	=	0.38	
s	=		
i ¹⁾	=	0°54'36"	
w	=		

Barrel

F ¹⁾ *	=	10.36	
Z ¹⁾	=	10.57	

Grooves

b	=	3.60	
N	=	6	
u	=	420.00	
Q	=	86.61	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

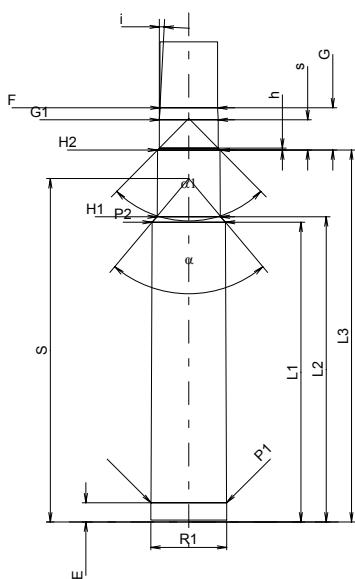
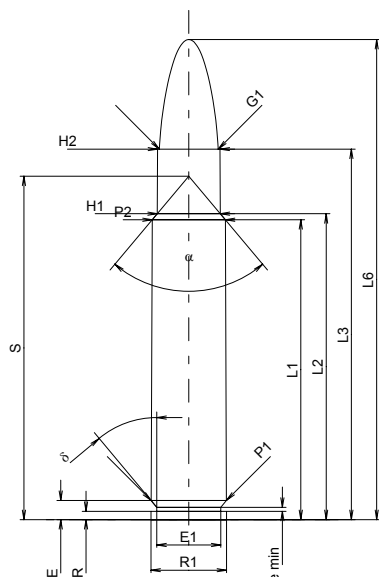
450 Rigby

Country of Origin: GB

TAB. I

Date 00-02-15

Revision 02-05-15



Scale 1:1.5

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	59.50	-0.20
L2 ¹⁾ *	=	60.69	-0.20
L3 ¹⁾	=	73.50	
L4	=		
L5	=		
L6	=	95.25	

Case Head

R	=	1.65	
R1	=	14.99	
R3	=		
E	=	3.81	
E1	=	12.70	
e min	=	0.81	
delta	=	39°55'50"	
f	=		
beta	=		

Powder Chamber

P1	=	14.96	
P2 ¹⁾ *	=	14.50	-0.20

Junction Cone

alpha	=	80°04'59"	
S	=	68.13	
r1 min	=		
r2	=		

Collar

H1 *	=	12.50	
H2 ¹⁾	=	12.38	

Projectile

G1 ¹⁾	=	11.66	
G2	=		
F	=		
L3+G ¹⁾	=	81.89	

Pressures (Energies)

Method Transducer

Pmax	=	4000 bar	
PK	=	4600 bar	
PE	=	5000 bar	
M	=	25.00	
EE	=	8715 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	59.48	
L2 *	=	60.57	
L3 ¹⁾	=	73.80	

Breech

R	=	1.65	
R1	=	15.04	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.81	
P1 ¹⁾	=	14.99	
P2 *	=	14.53	

Junction Cone

alpha ¹⁾	=	80°04'58"	
S	=	68.13	
r1 max	=		
r2	=		

Collar

H1 *	=	12.53	
H2 ¹⁾	=	12.41	

Commencement of Rifling

G1 ¹⁾ *	=	11.68	
G ¹⁾ *	=	8.39	
alpha l	=	89°13'14"	
h	=	0.37	
s *	=	6.00	
i ¹⁾	=	2°59'38"	
w	=		

Barrel

F ¹⁾ *	=	11.43	
Z ¹⁾	=	11.63	

Grooves

b	=	3.60	
N	=	6	
u	=	420.00	
Q	=	104.80	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

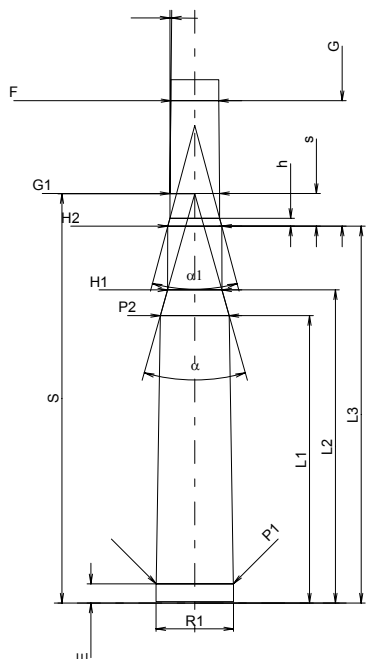
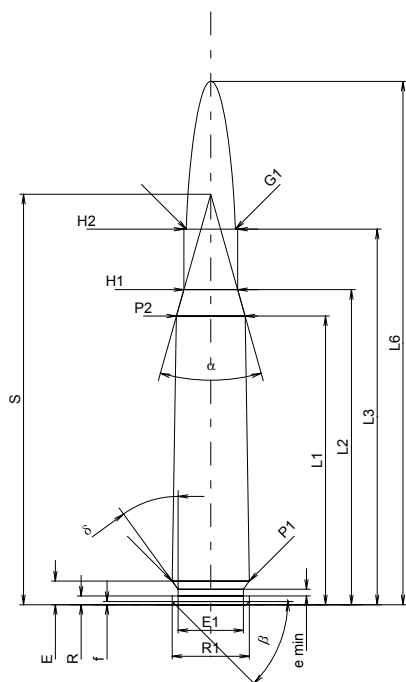
50 Browning

Country of Origin: US

TAB. I

Date 95-05-31

Revision 02-05-15



Scale 1:2

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

CARTRIDGE MAXI

Lengths

L1 ¹⁾	=	76.34	-0.20
L2 ¹⁾	=	83.30	-0.20
L3 ¹⁾	=	99.31	
L4	=		
L5	=		
L6	=	138.43	

Case Head

R	=	2.26	
R1	=	20.42	
R3	=		
E	=	6.23	
E1	=	17.27	
e min	=	1.80	
delta	=	36°	
f	=	0.84	
beta	=	45°	

Powder Chamber

P1	=	20.42	
P2 ¹⁾ *	=	18.14	-0.20

Junction Cone

alpha *	=	31°28'	
S *	=	108.54	
r1 min	=		
r2	=		

Collar

H1 *	=	14.22	
H2 ¹⁾	=	14.22	

Projectile

G1 ¹⁾	=	12.98	
G2	=		
F	=		
L3+G ¹⁾	=	132.50	

Pressures (Energies)

Method Transducer

Pmax	=	3700 bar	
PK	=	4255 bar	
PE	=	4625 bar	
M	=	25.00	
EE	=	1704 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=	0.28	

CHAMBER MINI

Lengths

L1	=	76.02	
L2	=	82.82	
L3 ¹⁾	=	99.70	

Breech

R	=		
R1	=	20.52	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	5.08	
P1 ¹⁾	=	20.45	
P2 *	=	18.16	

Junction Cone

alpha ¹⁾ *	=	31°28'01"	
S *	=	108.25	
r1 max	=		
r2	=		

Collar

H1 *	=	14.33	
H2 ¹⁾	=	14.28	

Commencement of Rifling

G1 ¹⁾ *	=	13.16	
G ¹⁾	=	33.19	
alpha l	=	30°	
h *	=	2.09	
s	=	8.64	
i ¹⁾ *	=	0°34'59"	
w	=		

Barrel

F ¹⁾ *	=	12.66	
Z ¹⁾	=	12.93	

Grooves

b	=	3.43	
N	=	8	
u	=	381.00	
Q	=	129.63	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

C.I.P.

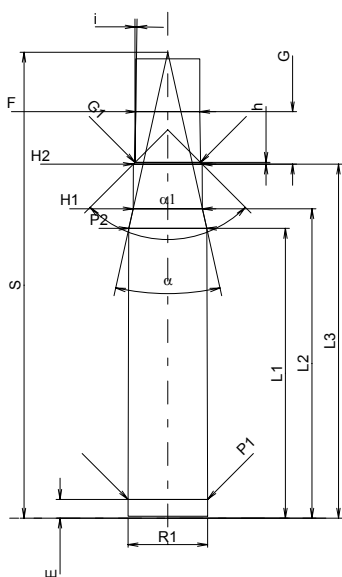
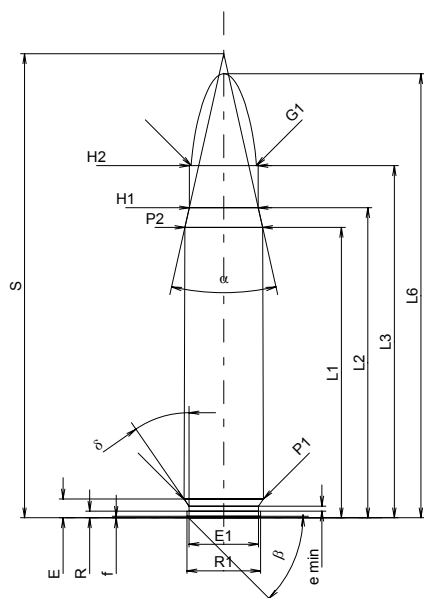
500 Jeffery

Country of Origin: GB

TAB. I

Date 99-01-12

Revision 02-05-15



Scale 1:1.5

CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	57.61	-0.20
L2 ¹⁾ *	=	61.52	-0.20
L3 ¹⁾	=	69.85	
L4	=		
L5	=		
L6	=	88.09	

Case Head

R	=	1.32	
R1	=	14.61	
R3	=		
E	=	3.73	
E1	=	13.77	
e min	=	1.00	
delta	=	34°39'36"	
f	=	0.30	
beta	=	45°	

Powder Chamber

P1	=	15.72	
P2 ¹⁾ *	=	15.42	-0.20

Junction Cone

alpha	=	25°13'41"	
S	=	92.06	
r1 min	=		
r2	=		

Collar

H1 *	=	13.67	
H2 ¹⁾	=	13.61	

Projectile

G1 ¹⁾	=	12.95	
G2	=		
F	=		
L3+G ¹⁾	=	80.26	

Pressures (Energies)

Method Transducer

Pmax	=	3300 bar	
PK	=	3795 bar	
PE	=	4125 bar	
M	=	25.00	
EE	=	9660 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	57.48	
L2 *	=	61.39	
L3 ¹⁾	=	70.23	

Breech

R	=	1.32	
R1	=	15.77	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.73	
P1 ¹⁾	=	15.77	
P2 *	=	15.47	

Junction Cone

alpha ¹⁾	=	24°56'56"	
S	=	92.44	
r1 max	=		
r2	=		

Collar

H1 *	=	13.74	
H2 ¹⁾	=	13.69	

Commencement of Rifling

G1 ¹⁾ *	=	12.98	
G ¹⁾ *	=	10.41	
alpha 1	=	90°	
h *	=	0.36	
s	=		
i ¹⁾	=	0°47'53"	
w	=		

Barrel

F ¹⁾ *	=	12.70	
Z ¹⁾	=	12.97	

Grooves

b	=	4.45	
N	=	6	
u	=	508.00	
Q	=	130.36	mm ²

Notes: 1) Check for safety reasons
* Basic dimensions

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

C.I.P.

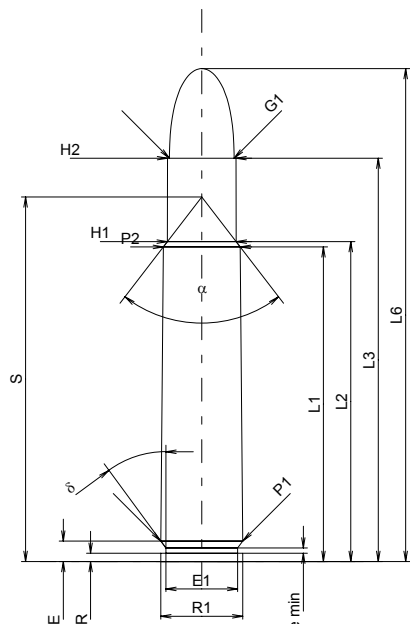
505 Mag. Gibbs

Country of Origin: GB

TAB. I

Date 84-06-14

Revision 02-05-15



CARTRIDGE MAXI

Lengths

L1 ¹⁾ *	=	62.43	-0.20
L2 ¹⁾ *	=	63.45	-0.20
L3 ¹⁾	=	80.01	
L4	=		
L5	=		
L6	=	97.79	

Case Head

R	=	1.65	
R1	=	16.26	
R3	=		
E	=	4.06	
E1	=	14.22	
e min	=	1.02	
δ	=	36°18'36"	
f	=		
β	=		

Powder Chamber

P1	=	16.26	
P2 ¹⁾ *	=	15.24	-0.20

Junction Cone

α	=	75°09'51"	
S	=	72.33	
r1 min	=		
r2	=		

Collar

H1 *	=	13.67	
H2 ¹⁾	=	13.59	

Projectile

G1 ¹⁾	=	12.83	
G2	=		
F	=		
L3+G ¹⁾	=	88.98	

Pressures (Energies)

Method Transducer

Pmax	=	2700 bar	
PK	=	3105 bar	
PE	=	3375 bar	
M	=	25.00	
EE	=	7040 Joule	

Miscellaneous Dimensions

Fe ¹⁾	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	62.38	
L2 *	=	63.40	
L3 ¹⁾	=	80.31	

Breech

R	=	1.65	
R1	=	16.31	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	4.06	
P1 ¹⁾	=	16.28	
P2 *	=	15.27	

Junction Cone

α ¹⁾	=	75°30'57"	
S	=	72.24	
r1 max	=		
r2	=		

Collar

H1 *	=	13.69	
H2 ¹⁾	=	13.61	

Commencement of Rifling

G1 ¹⁾ *	=	12.85	
G ¹⁾ *	=	8.97	
α1	=	90°	
h *	=	0.38	
s	=		
i ¹⁾	=	1°00'11"	
w	=		

Barrel

F ¹⁾ *	=	12.55	
Z ¹⁾	=	12.80	

Grooves

b	=	5.33	
N	=	5	
u	=	406.00	
Q	=	127.14	mm ²

Scale 1:1.5

Dimensions in << mm >>
Dimensions and Tolerances for Proof Barrels
see Appendix CR 1.

Notes: 1) Check for safety reasons
* Basic dimensions