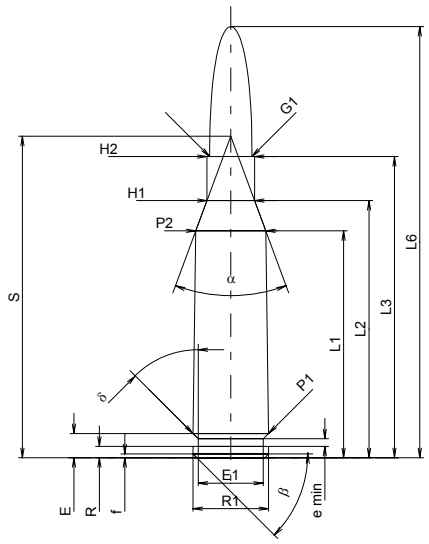
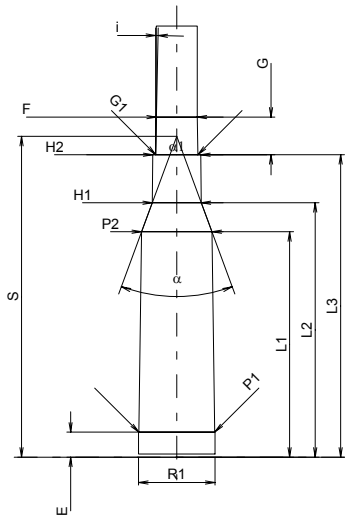
C.I.P.

5,45 x 39

Country of Origin: SU

TAB.	**I**
Date	**92-07-23**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

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	
δ	=	45°	
f	=	0.50	
β	=	45°	

Powder Chamber

P1	=	10.00	
P2 1)*	=	9.25	-0.20

Junction Cone

α	=	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	=	

CHAMBER MINI

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

α 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
α1	=	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

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

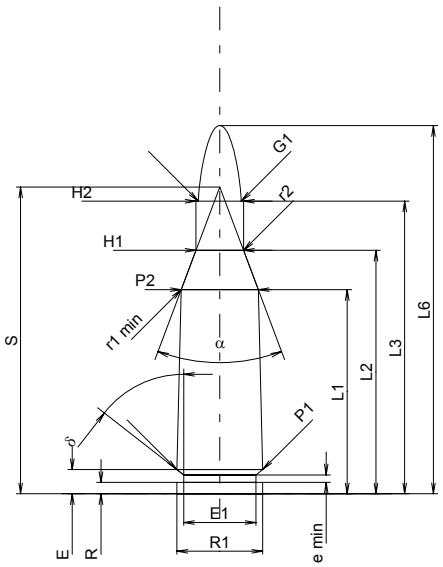
Notes: 1) Check for safety reasons
* Basic dimensions

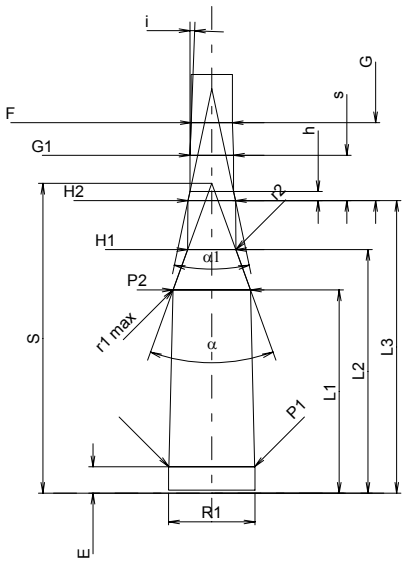
C.I.P.

5,6 x 39

Country of Origin: RU

TAB.	**I**
Date	**00-02-15**
Revision	**02-05-15**





Scale 1:1

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	mm²

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

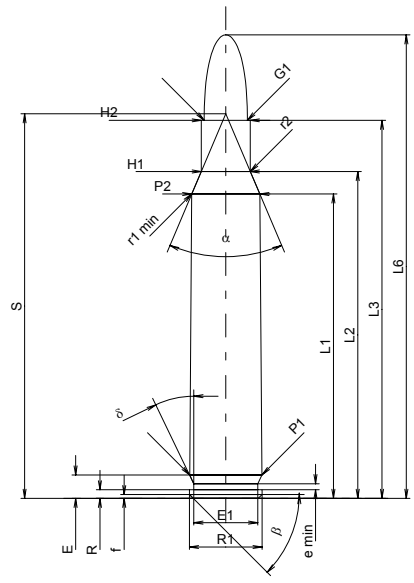
Notes: 1) Check for safety reasons
* Basic dimensions

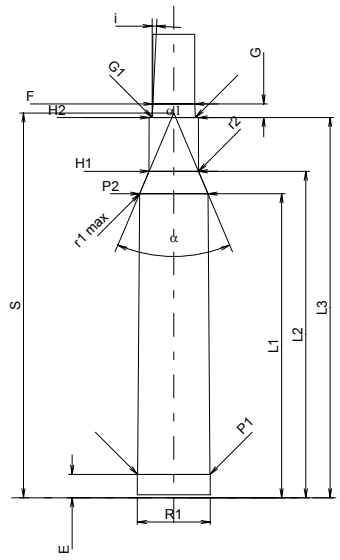
C.I.P.

5,6 x 50 Mag.

Country of Origin: DE

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





Scale 1:1

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
α1	=	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	mm²

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

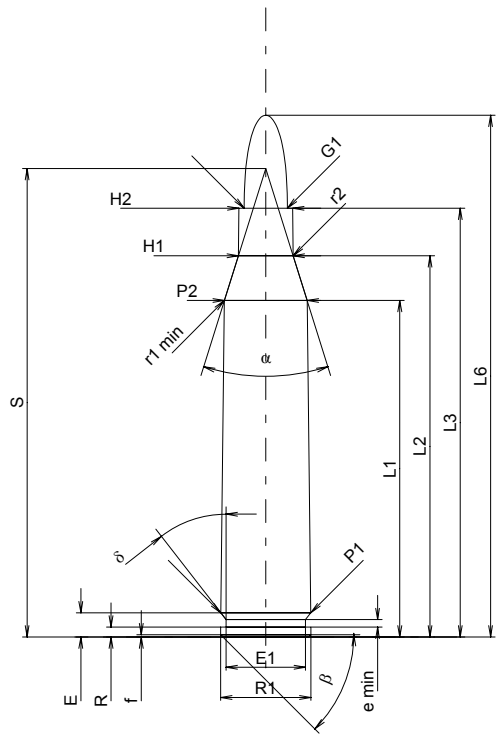
Notes: 1) Check for safety reasons
* Basic dimensions

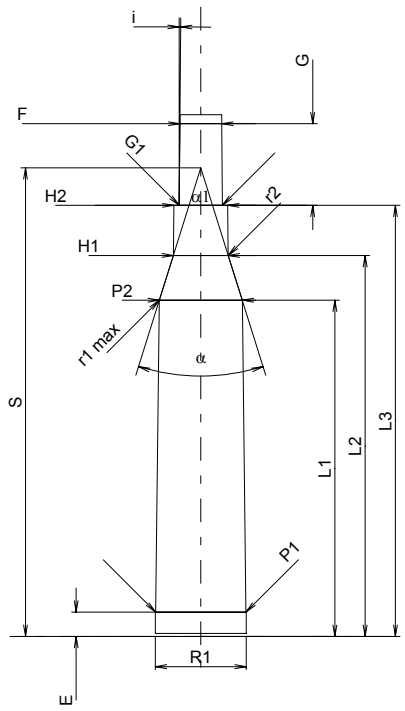
C.I.P.

5,6 x 57

Country of Origin: DE

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





Scale 1:1

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	mm²

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

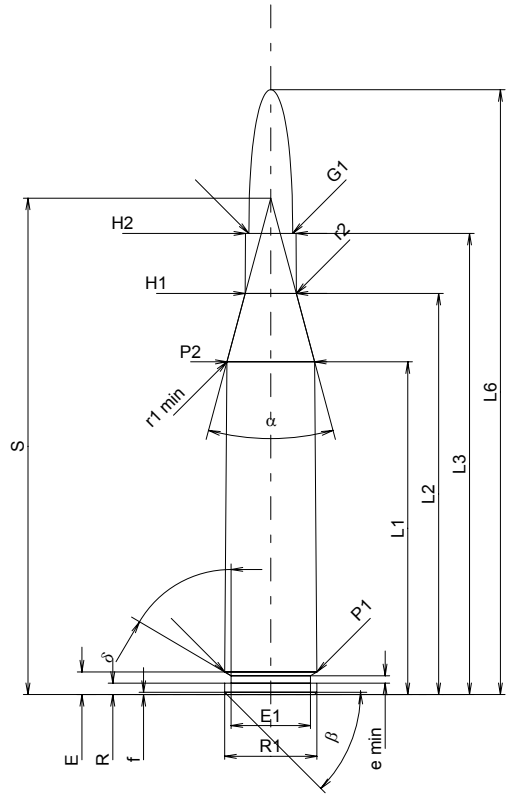
Notes: 1) Check for safety reasons
* Basic dimensions

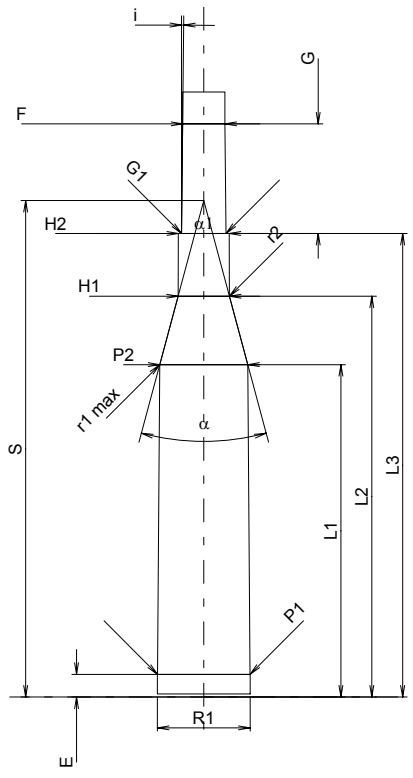
C.I.P.

5,6 x 61 SE.v.H.

Country of Origin: DE

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





Scale 1:1

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	mm²

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

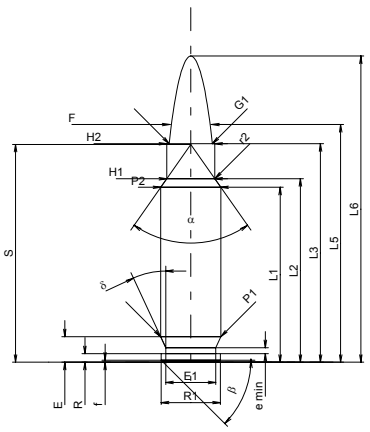
Notes: 1) Check for safety reasons
* Basic dimensions

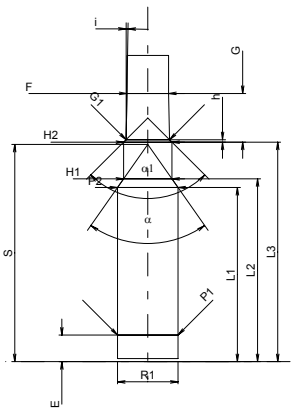
C.I.P.

5,7 x 28

Country of Origin: BE

TAB.	**I**
Date	**93-10-19**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI				CHAMBER MINI		
Lengths				**Lengths**		
L1 1)*	=	23.15	-0.20	L1 *	=	23.03
L2 1)*	=	24.27	-0.20	L2 *	=	24.18
L3 1)	=	28.90		L3 1)	=	29.03
L4	=					
L5	=	31.44				
L6	=	40.50				
Case Head				**Breech**		
R	=	1.14		R	=	3.02
R1	=	7.80		R1	=	8.00
R3	=			R2	=	2.90
E	=	3.38		R3	=	
E1	=	6.60		r	=	
e min	=	0.79				
δ	=	25°				
f	=	0.28				
β	=	45°				
Powder Chamber				**Powder Chamber**		
				E	=	3.52
P1	=	7.95		P1 1)	=	8.00
P2 1)*	=	7.95	-0.20	P2 *	=	8.00
Junction Cone				**Junction Cone**		
α	=	70°03'10"		α 1)	=	69°59'02"
S	=	28.82		S	=	28.74
r1 min	=			r1 max	=	
r2	=	1.00		r2	=	
Collar				**Collar**		
H1 *	=	6.38		H1 *	=	6.39
H2 1)	=	6.38		H2 1)	=	6.39
Projectile				**Commencement of Rifling**		
G1 1)	=	5.70		G1 1)*	=	5.75
G2	=	5.26		G 1)*	=	6.45
F	=			α1	=	90°
L3+G 1)	=	35.35		h *	=	0.32
				s	=	
Pressures (Energies)				i 1)	=	1°01'41"
Method Transducer				w	=	
Pmax	=	3450	bar	**Barrel**		
PK	=	3968	bar	F 1)*	=	5.53
PE	=	4313	bar	Z 1)	=	5.62
M	=	12.00		**Grooves**		
EE	=	1500	Joule	b	=	1.63
				N	=	8
				u	=	228.60
				Q	=	24.61 mm²
Miscellaneous Dimensions						
Fe 1)	=	0.10				
delta L	=					

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

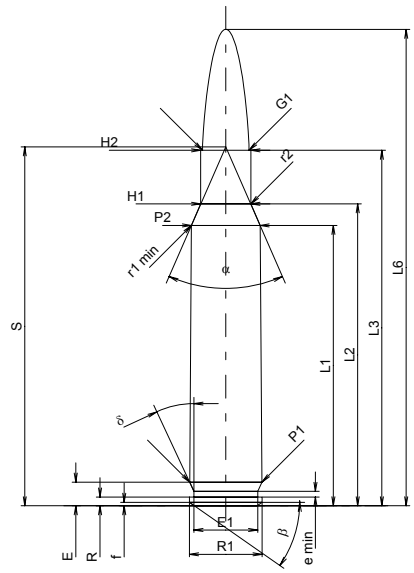
Notes: 1) Check for safety reasons
* Basic dimensions

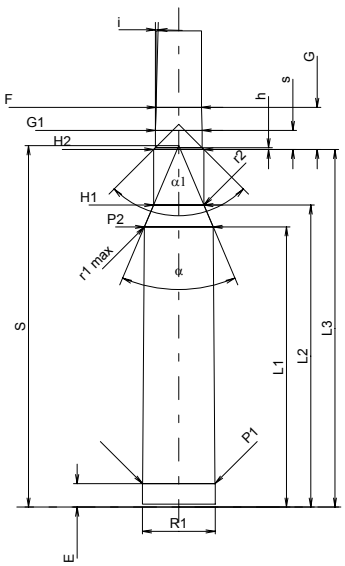
C.I.P.

6 x 47 ATZL

Country of Origin: AT

TAB.	**I**
Date	**97-11-05**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

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	=	

CHAMBER MINI

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	mm²

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

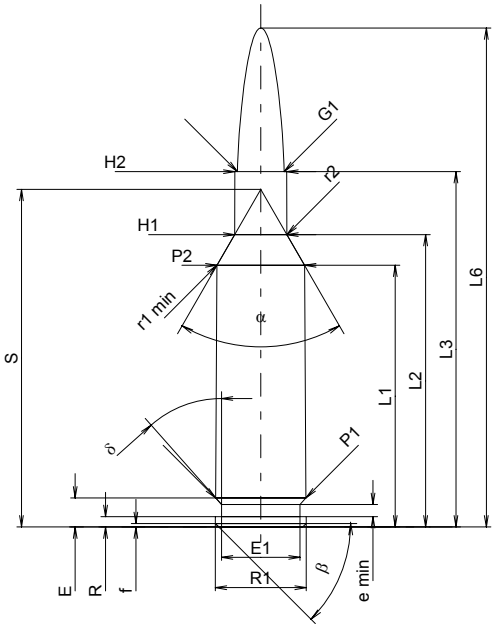
Notes: 1) Check for safety reasons
* Basic dimensions

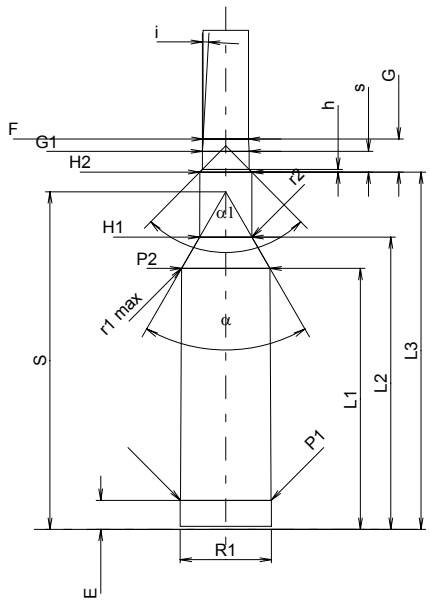
C.I.P.

6 x 47 SM

Country of Origin: CH

TAB.	**I**
Date	**02-01-22**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

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	=		

CHAMBER MINI

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	mm²

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

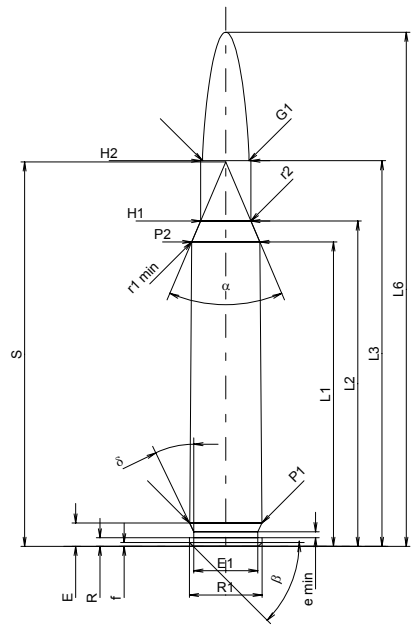
Notes: 1) Check for safety reasons
* Basic dimensions

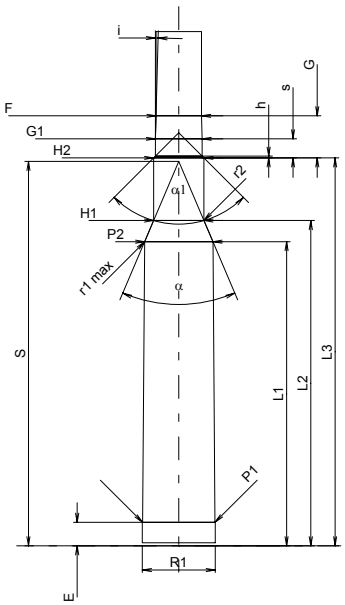
C.I.P.

6 x 51 ATZL

Country of Origin: AT

TAB.	**I**
Date	**97-11-05**
Revision	**02-05-15**





Scale 1:1

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	
δ	=	25°46'09"	
f	=	0.50	
β	=	45°	

Powder Chamber

P1	=	9.56	
P2 1)*	=	9.00	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

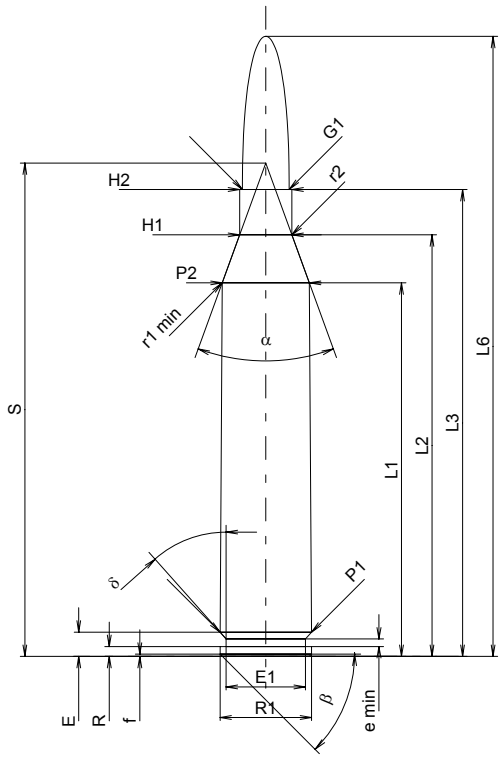
Notes: 1) Check for safety reasons
* Basic dimensions

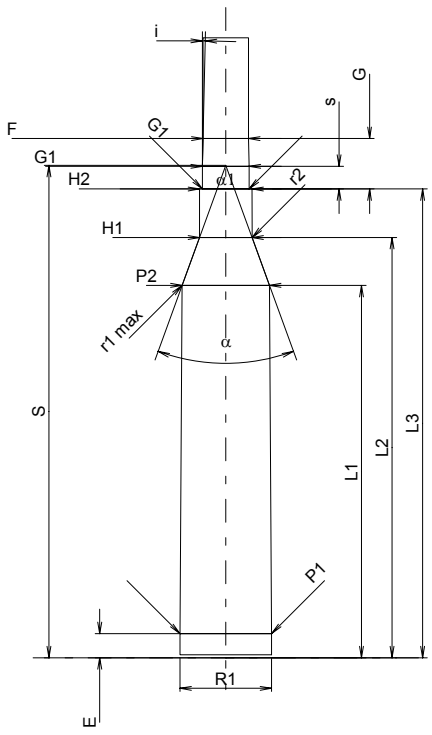
C.I.P.

6 x 62 Freres

Country of Origin: DE

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





Scale 1:1

CARTRIDGE MAXI

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	=	

CHAMBER MINI

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

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

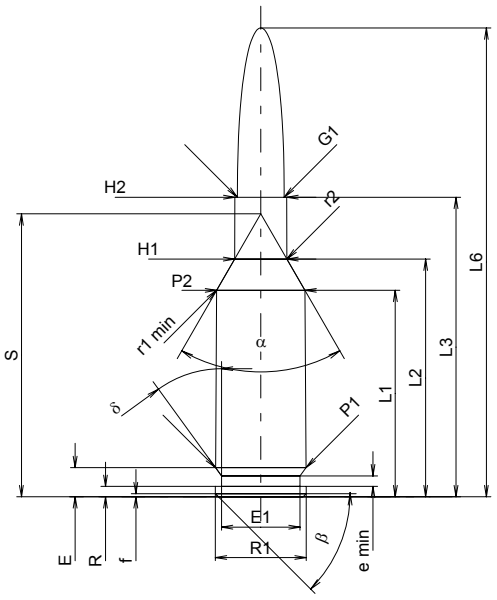
Notes: 1) Check for safety reasons
* Basic dimensions

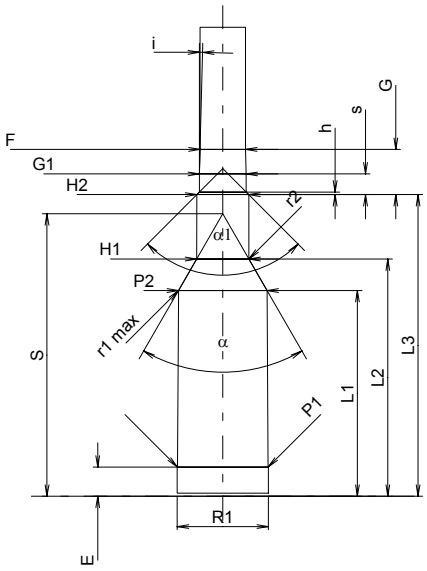
C.I.P.

6mm BR Norma

Country of Origin: SE

TAB.	**I**
Date	**95-12-20**
Revision	**02-05-15**





Scale 1:1

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	mm²

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

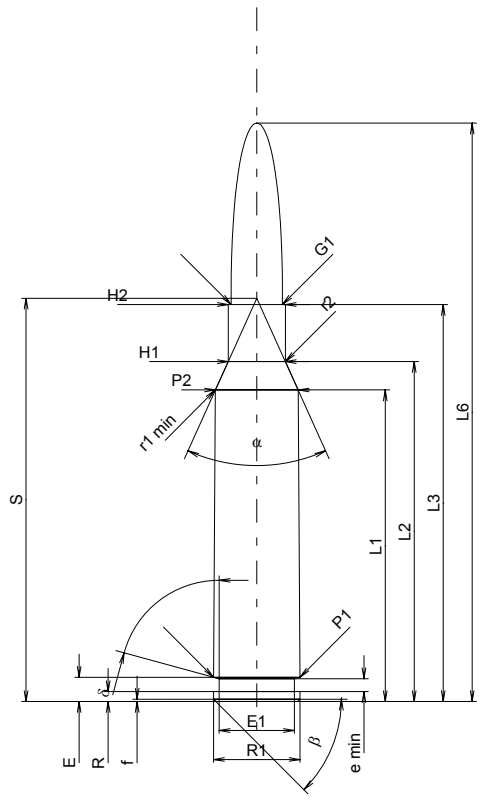
Notes: 1) Check for safety reasons
* Basic dimensions

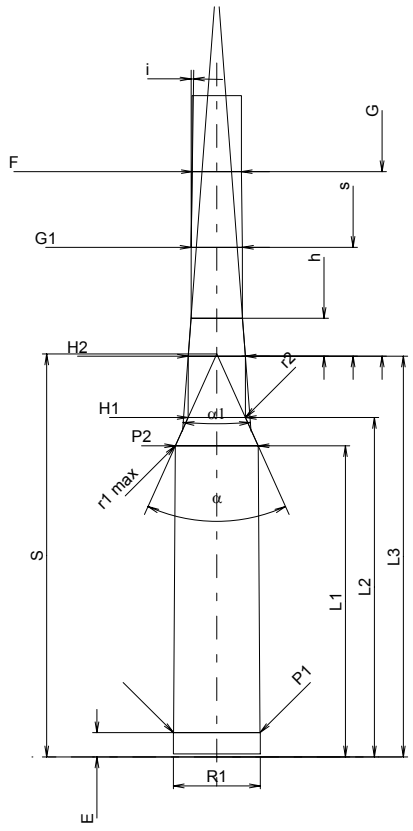
C.I.P.

6,5 x 52 Carcano

Country of Origin: IT

TAB.	**I**
Date	**93-09-21**
Revision	**02-05-15**





Scale 1:1

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	
δ	=	74°40'48"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.41	
P2 1)*	=	10.94	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

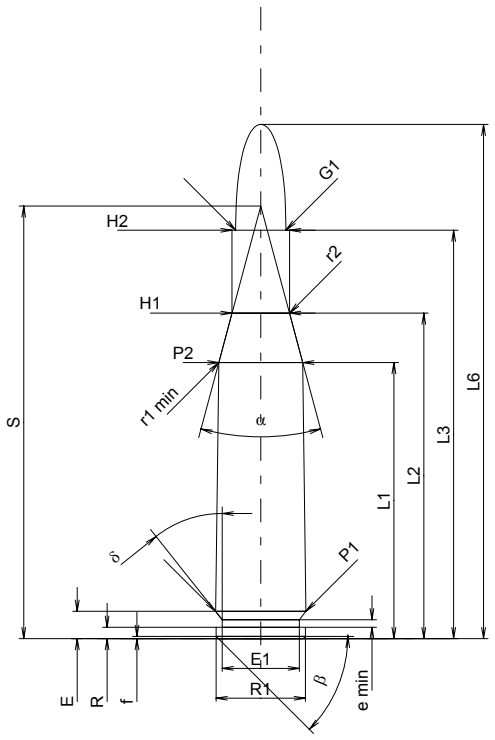
Notes: 1) Check for safety reasons
* Basic dimensions

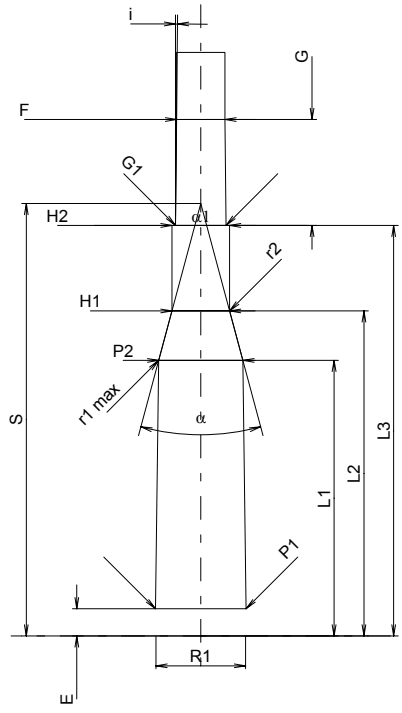
C.I.P.

6,5 x 54 Mauser

Country of Origin: DE

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





Scale 1:1

CARTRIDGE MAXI

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	=	

CHAMBER MINI

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	mm²

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

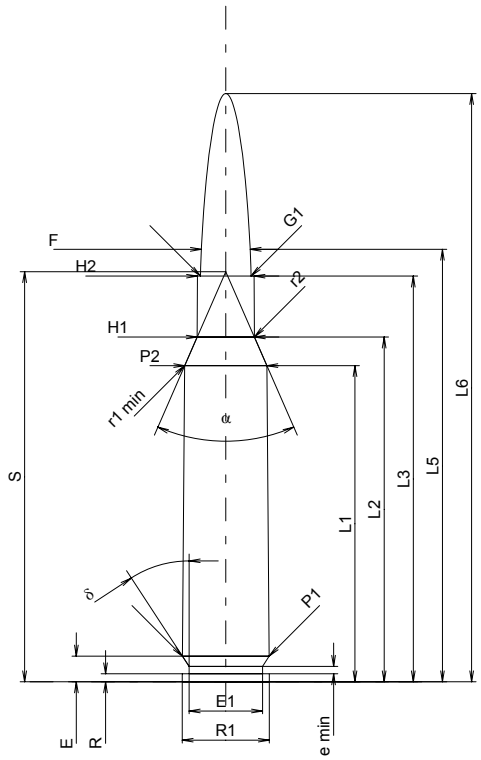
Notes: 1) Check for safety reasons
* Basic dimensions

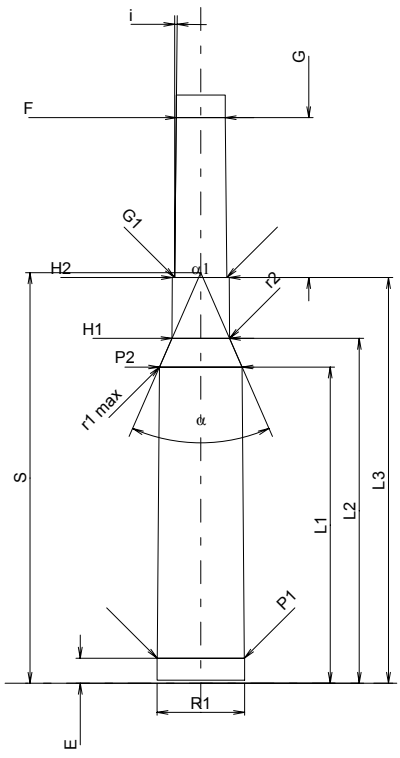
C.I.P.

6,5 x 54 Mannl. Sch.

Country of Origin: AT

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





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)*	=	41.82	-0.20
L2 1)*	=	45.60	-0.20
L3 1)	=	53.65	
L4	=		
L5	=	57.20	
L6	=	77.80	

Case Head

R	=	1.05	
R1	=	11.52	
R3	=		
E	=	3.40	
E1	=	9.70	
e min	=	1.00	
δ	=	33°15'	
f	=		
β	=	45°	

Powder Chamber

P1	=	11.47	
P2 1)*	=	10.87	-0.20

Junction Cone

α	=	47°17'26"	
S	=	54.24	
r1 min	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.56	
H2 1)	=	7.49	

Projectile

G1 1)	=	6.70	
G2	=	6.70	
F	=		
L3+G 1)	=	74.80	

Pressures (Energies)
Method Transducer

Pmax	=	3650	bar
PK	=	4198	bar
PE	=	4560	bar
M	=	25.00	
EE	=	2430	Joule

Miscellaneous Dimensions

Fe 1)	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1 *	=	41.82	
L2 *	=	45.60	
L3 1)	=	53.65	

Breech

R	=	1.05	
R1	=	11.57	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.30	
P1 1)	=	11.52	
P2 *	=	10.92	

Junction Cone

α 1)	=	47°16'58"	
S	=	54.29	
r1 max	=	0.50	
r2	=	0.50	

Collar

H1 *	=	7.61	
H2 1)	=	7.54	

Commencement of Rifling

G1 1)*	=	6.90	
G 1)*	=	21.15	
α1	=	180°	
h	=		
s	=		
i 1)	=	0°34'08"	
w	=		

Barrel

F 1)*	=	6.48	
Z 1)	=	6.78	

Grooves

b	=	3.50	
N	=	4	
u	=	200.00	
Q	=	35.16	mm²

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

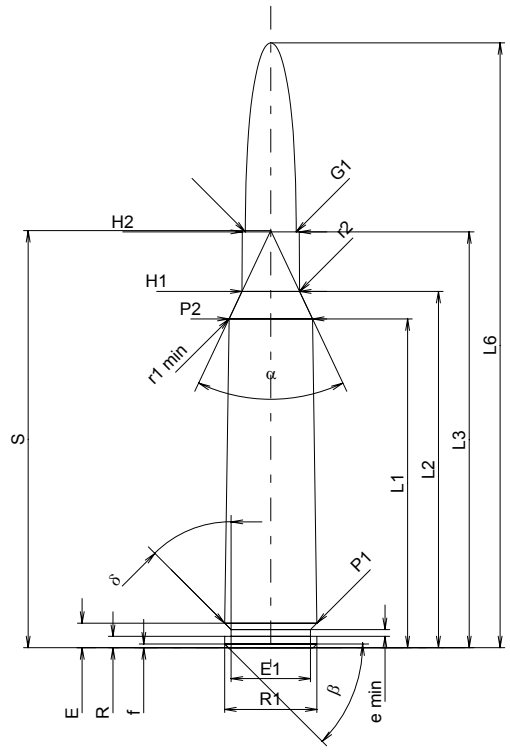
Notes: 1) Check for safety reasons
* Basic dimensions

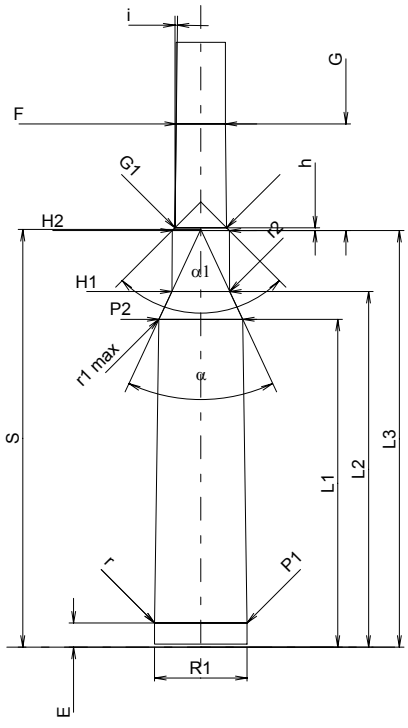
C.I.P.

6,5 x 55 SE.

Country of Origin: SE

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





Scale 1:1

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	
δ	=	45°	
f	=	0.50	
β	=	45°	

Powder Chamber

P1	=	12.20	
P2 1)*	=	11.04	-0.20

Junction Cone

α *	=	50°35'02"	
S *	=	55.17	
r1 min	=	3.50	
r2	=	3.70	

Collar

H1 *	=	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 *	=	11.08	

Junction Cone

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

Collar

H1 *	=	7.65	
H2 1)	=	7.55	

Commencement of Rifling

G1 1)*	=	6.84	
G 1)	=	14.10	
α1 *	=	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

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

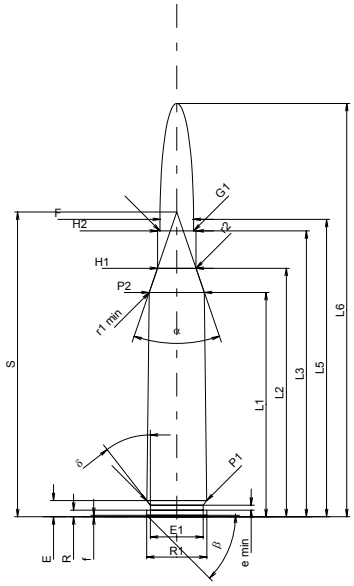
Notes: 1) Check for safety reasons
* Basic dimensions

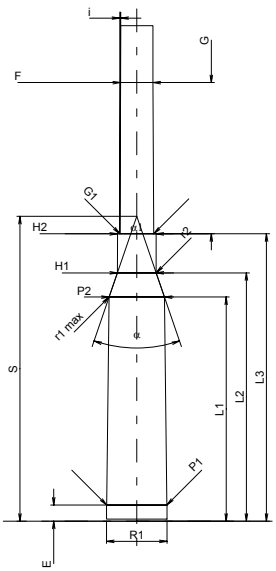
C.I.P.

6,5 x 57

Country of Origin: DE

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





Scale 1:1.5

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	mm²

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

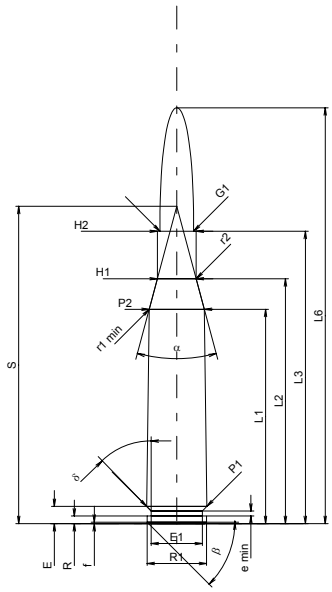
Notes: 1) Check for safety reasons
* Basic dimensions

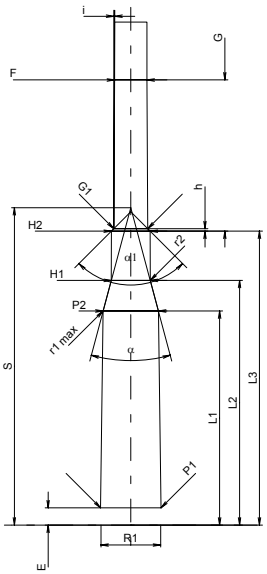
C.I.P.

6,5 x 58 Mauser

Country of Origin: DE

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





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	
δ	=	45°	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.95	
P2 1)*	=	10.95	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

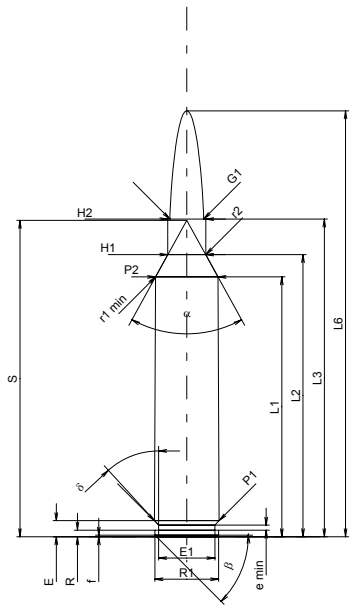
Notes: 1) Check for safety reasons
* Basic dimensions

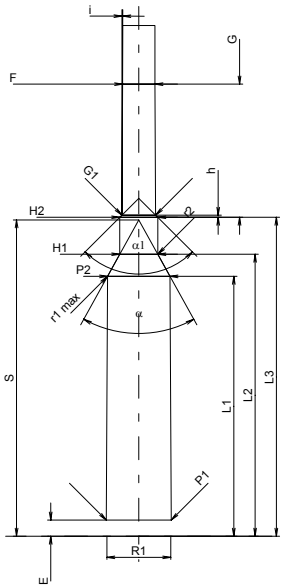
C.I.P.

6,5 x 63 Messner Mag.

Country of Origin: DE

TAB.	**I**
Date	**02-01-22**
Revision	**02-05-15**





Scale 1:1.5

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	
δ	=	43°	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	12.85	
P2 1)*	=	12.40	-0.20

Junction Cone

α	=	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

α 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	
α1	=	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	mm²

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

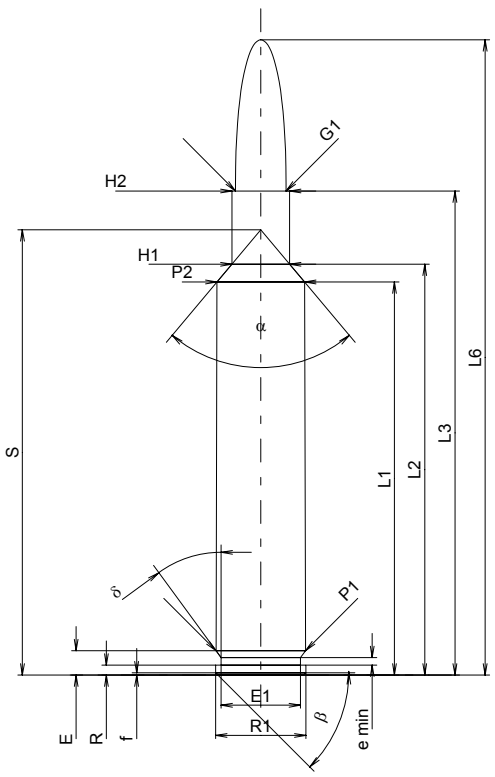
Notes: 1) Check for safety reasons
* Basic dimensions

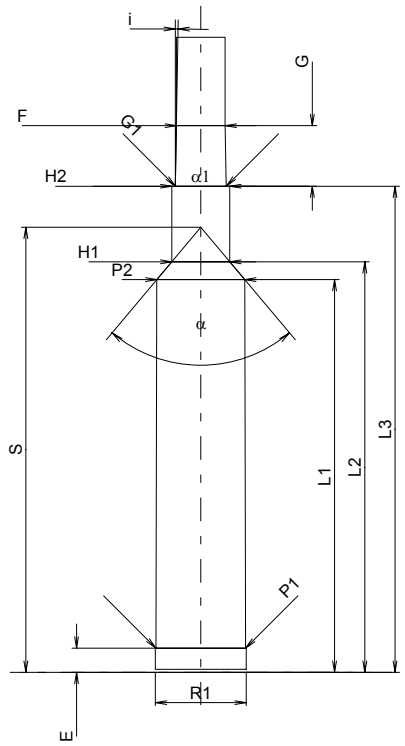
C.I.P.

6,5 x 64

Country of Origin: DE

TAB.	**I**
Date	**92-02-27**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)*	=	51.97	-0.20
L2 1)*	=	54.32	-0.20
L3 1)	=	64.00	
L4	=		
L5	=		
L6	=	84.00	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.20	
E1	=	10.50	
e min	=	1.00	
δ	=	36°15'	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.82	
P2 1)*	=	11.60	-0.20

Junction Cone

α	=	80°05'21"
S	=	58.87
r1 min	=	
r2	=	

Collar

H1 *	=	7.65
H2 1)	=	7.64

Projectile

G1 1)	=	6.70
G2	=	
F	=	
L3+G 1)	=	72.00

Pressures (Energies)
Method Transducer

Pmax	=	4300	bar
PK	=	4945	bar
PE	=	5375	bar
M	=	25.00	
EE	=	3645	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10
delta L	=	

CHAMBER MINI

Lengths

L1 *	=	51.95
L2 *	=	54.30
L3 1)	=	64.30

Breech

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

Powder Chamber

E	=	3.20
P1 1)	=	11.84
P2 *	=	11.63

Junction Cone

α 1)	=	80°05'20"
S	=	58.87
r1 max	=	
r2	=	

Collar

H1 *	=	7.68
H2 1)	=	7.67

Commencement of Rifling

G1 1)*	=	6.72
G 1)*	=	8.00
α1	=	180°
h	=	
s	=	
i 1)	=	0°58'
w	=	

Barrel

F 1)*	=	6.45
Z 1)	=	6.70

Grooves

b	=	3.60	
N	=	4	
u	=	228.00	
Q	=	34.58	mm²

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

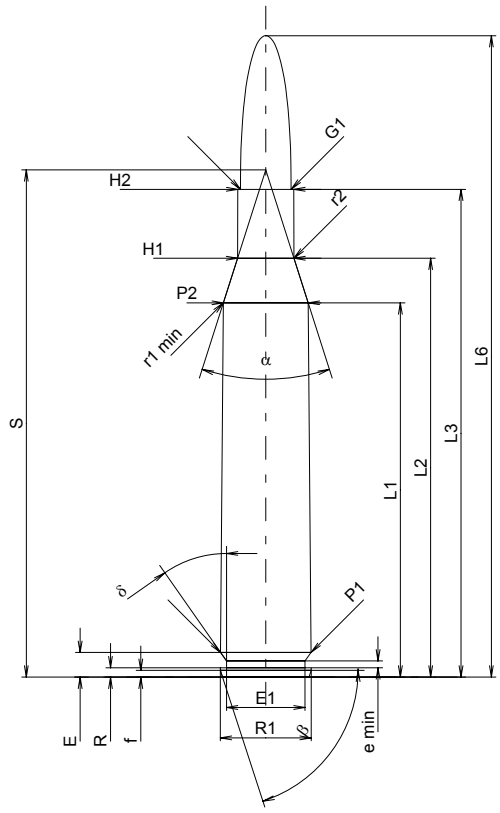
Notes: 1) Check for safety reasons
* Basic dimensions

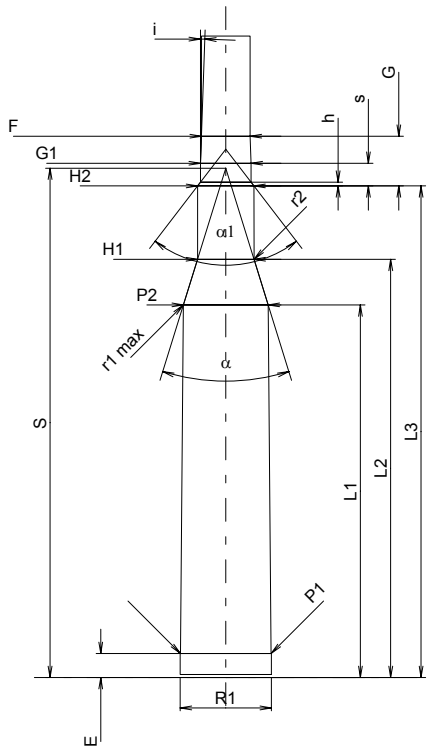
C.I.P.

6,5 x 64 Brenneke

Country of Origin: DE

TAB.	**I**
Date	**92-02-27**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)*	=	49.50	-0.20
L2 1)*	=	55.40	-0.20
L3 1)	=	64.52	
L4	=		
L5	=		
L6	=	84.84	

Case Head

R	=	1.24
R1	=	12.01
R3	=	
E	=	3.27
E1	=	10.39
e min	=	0.90
δ	=	36°
f	=	0.91
β	=	72°

Powder Chamber

P1	=	11.97	
P2 1)*	=	11.21	-0.20

Junction Cone

α	=	35°20'53"
S	=	67.09
r1 min	=	1.02
r2	=	3.18

Collar

H1 *	=	7.45
H2 1)	=	7.42

Projectile

G1 1)	=	6.70
G2	=	
F	=	
L3+G 1)	=	71.10

Pressures (Energies)
Method Transducer

Pmax	=	4300	bar
PK	=	4945	bar
PE	=	5190	bar
M	=	25.00	
EE	=	3645	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10
delta L	=	

CHAMBER MINI

Lengths

L1 *	=	49.28
L2 *	=	55.32
L3 1)	=	65.02

Breech

R	=	
R1	=	12.04
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	3.17
P1 1)	=	11.98
P2 *	=	11.23

Junction Cone

α 1)	=	34°29'31"
S	=	67.37
r1 max	=	0.76
r2	=	3.18

Collar

H1 *	=	7.48
H2 1)	=	7.45

Commencement of Rifling

G1 1)*	=	6.70
G 1)*	=	6.58
α1	=	75°
h	=	0.49
s *	=	3.00
i 1)	=	1°59'35"
w	=	

Barrel

F 1)*	=	6.45
Z 1)	=	6.70

Grooves

b	=	3.50	
N	=	4	
u	=	255.00	
Q	=	34.52	mm²

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

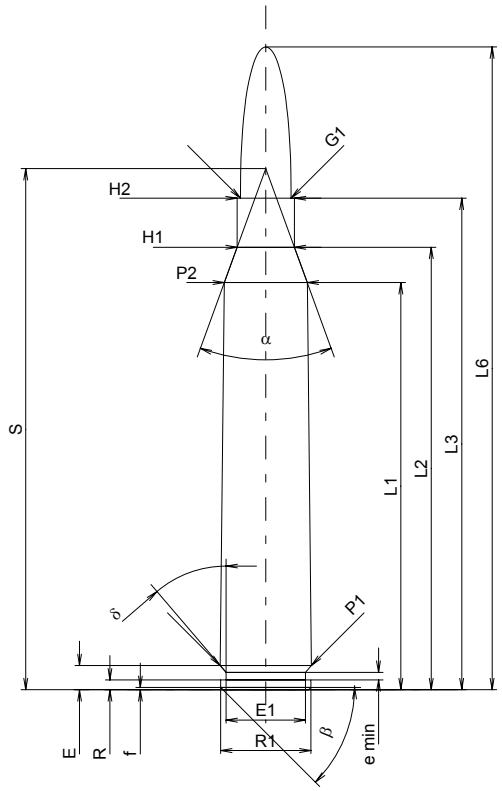
Notes: 1) Check for safety reasons
* Basic dimensions

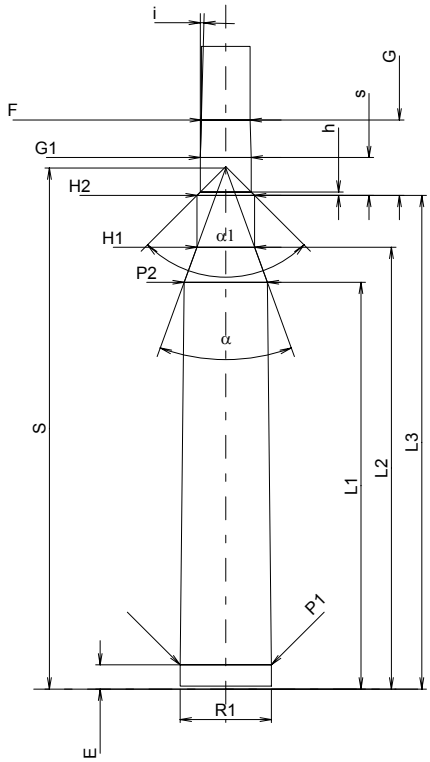
C.I.P.

6,5 x 65 RWS

Country of Origin: DE

TAB.	**I**
Date	**90-04-05**
Revision	**02-05-15**





Scale 1:1

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
δ	=	40°33'
f	=	0.30
β	=	45°

Powder Chamber

P1	=	12.04	
P2 1)*	=	10.97	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

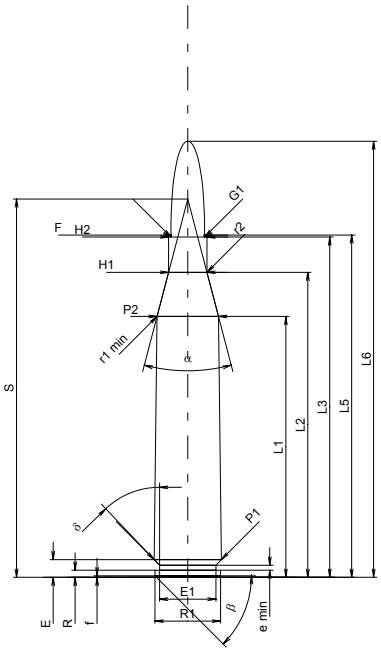
Notes: 1) Check for safety reasons
* Basic dimensions

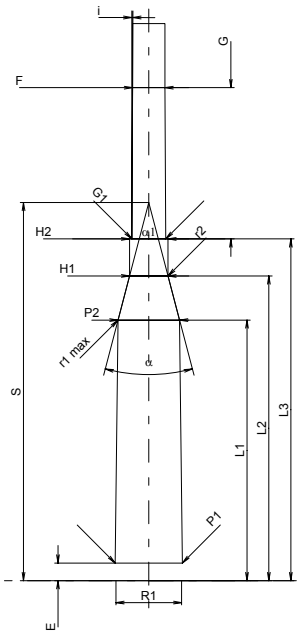
C.I.P.

6,5 x 68

Country of Origin: DE

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





Scale 1:1.5

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	mm²

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

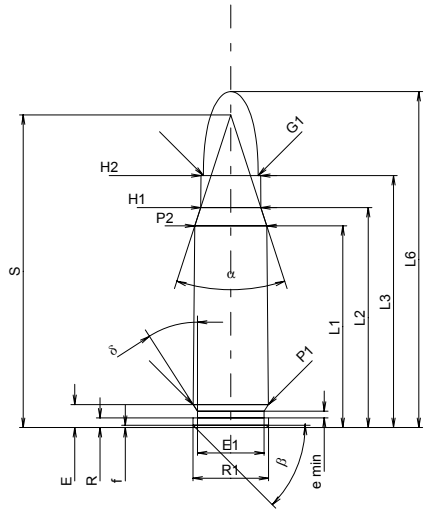
Notes: 1) Check for safety reasons
* Basic dimensions

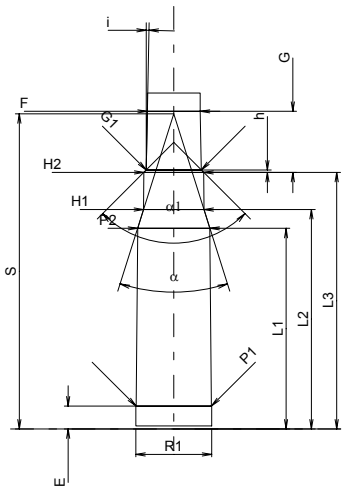
C.I.P.

7 x 33 Sako

Country of Origin: FI

TAB.	**I**
Date	**95-03-09**
Revision	**02-05-15**





Scale 1:1

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	mm²

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

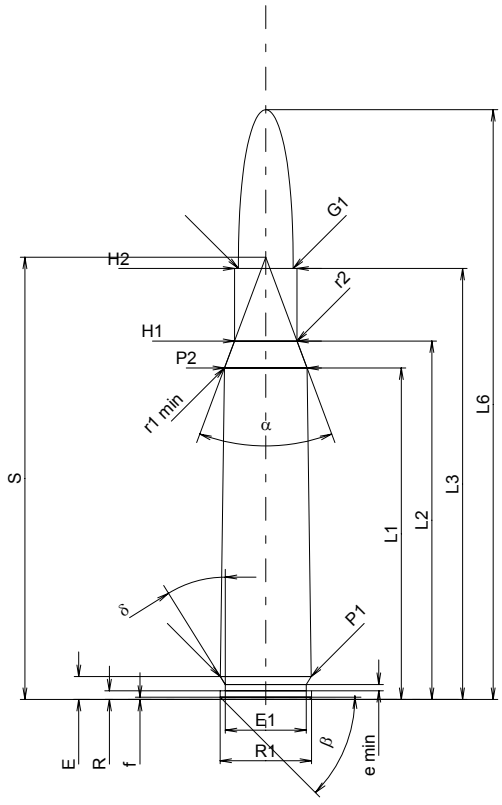
Notes: 1) Check for safety reasons
* Basic dimensions

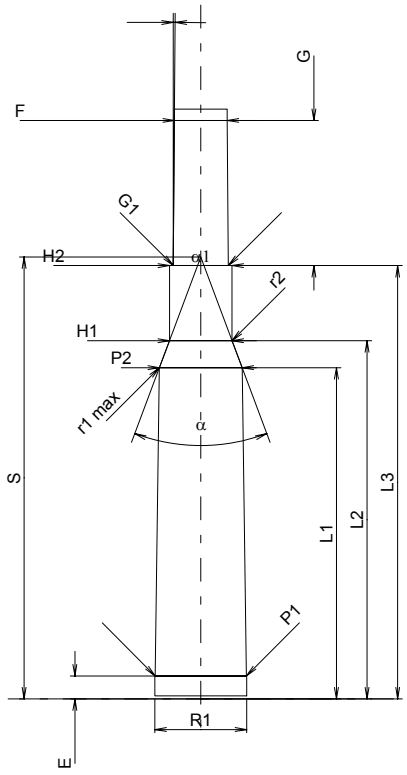
C.I.P.

7 x 57

Country of Origin: DE

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





Scale 1:1

CARTRIDGE MAXI

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	=		

CHAMBER MINI

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	mm²

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

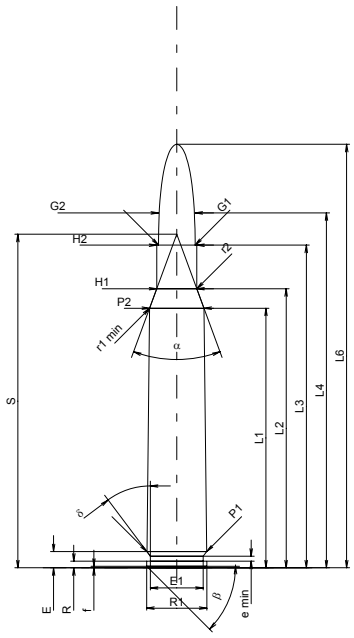
Notes: 1) Check for safety reasons
* Basic dimensions

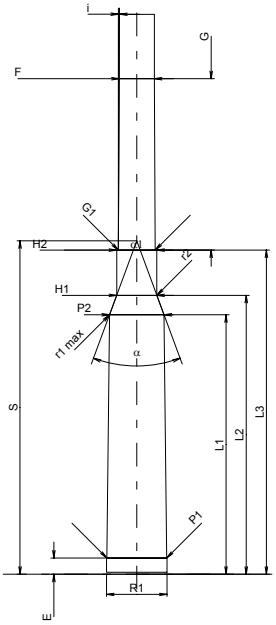
C.I.P.

7 x 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
δ	=	36°52'12"
f	=	0.30
β	=	45°

Powder Chamber

P1	=	11.85	
P2 1)*	=	10.80	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

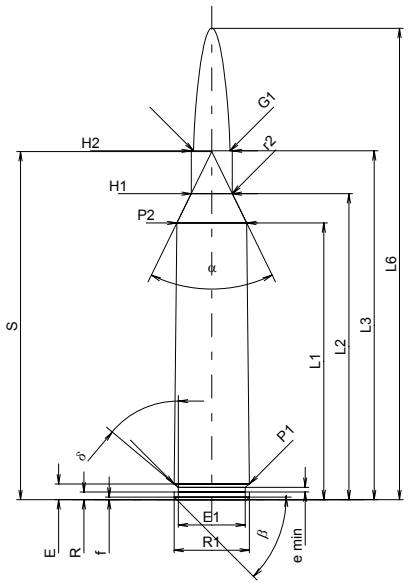
Notes: 1) Check for safety reasons
* Basic dimensions

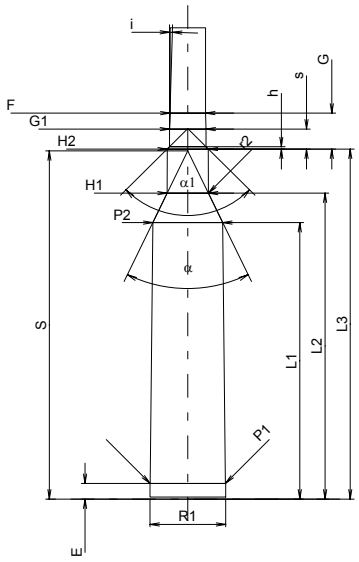
C.I.P.

7 mm KM

Country of Origin: DE

TAB.	**I**
Date	**99-09-01**
Revision	**02-05-15**





Scale 1:1.5

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
δ	=	50°
f	=	0.50
β	=	45°

Powder Chamber

P1	=	14.91	
P2 1)*	=	13.82	-0.20

Junction Cone

α	=	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

α 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
α1	=	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

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

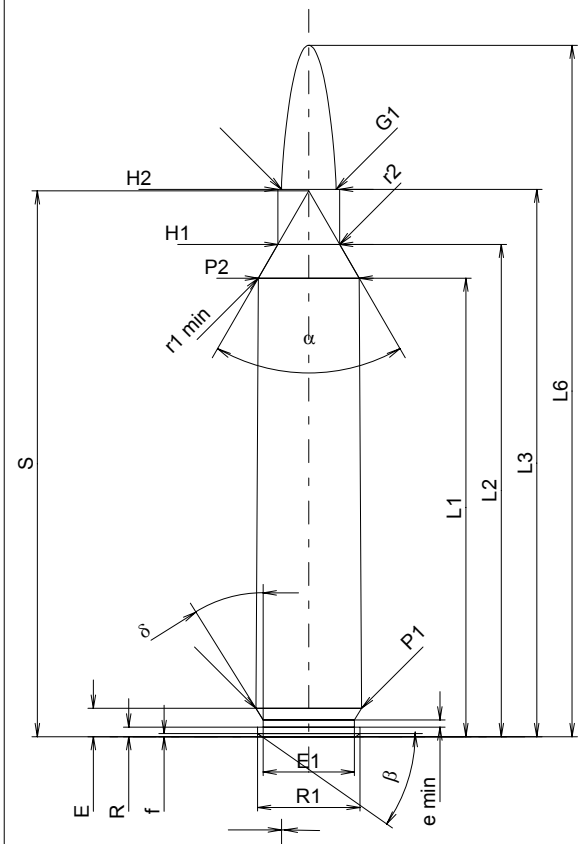
Notes: 1) Check for safety reasons
* Basic dimensions

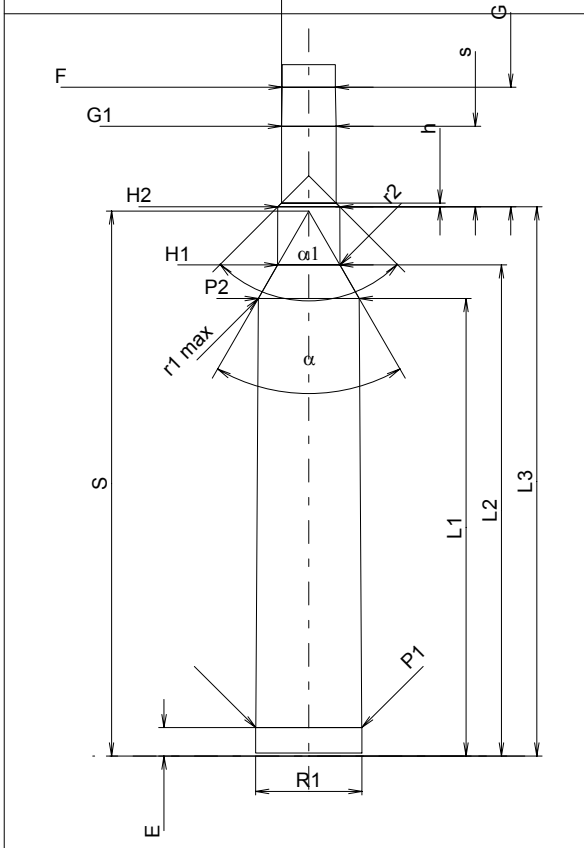
C.I.P.

7 mm Rem. Ultra Mag.

Country of Origin: US

TAB.	**I**
Date	**02-01-22**
Revision	**02-05-15**





Scale 1:1

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 *	=	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	mm²

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

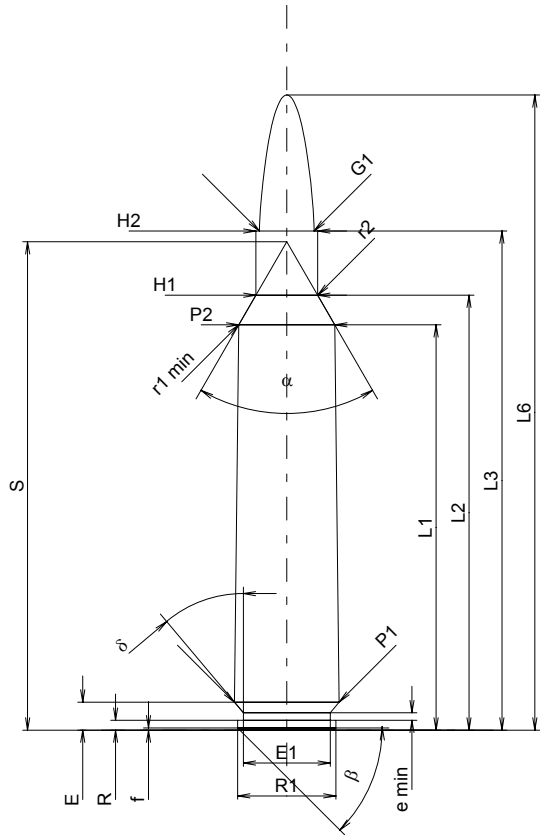
Notes: 1) Check for safety reasons
* Basic dimensions

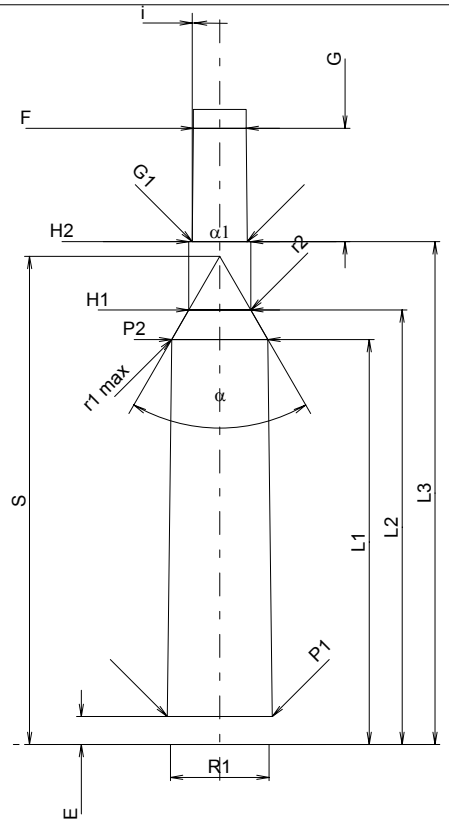
C.I.P.

7 mm SE v. H.

Country of Origin: DE

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





Scale 1:1

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	mm²

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

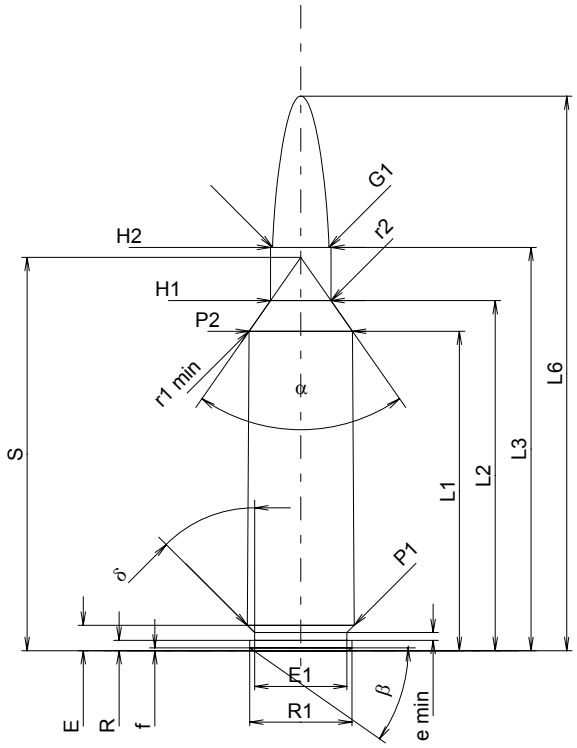
Notes: 1) Check for safety reasons
* Basic dimensions

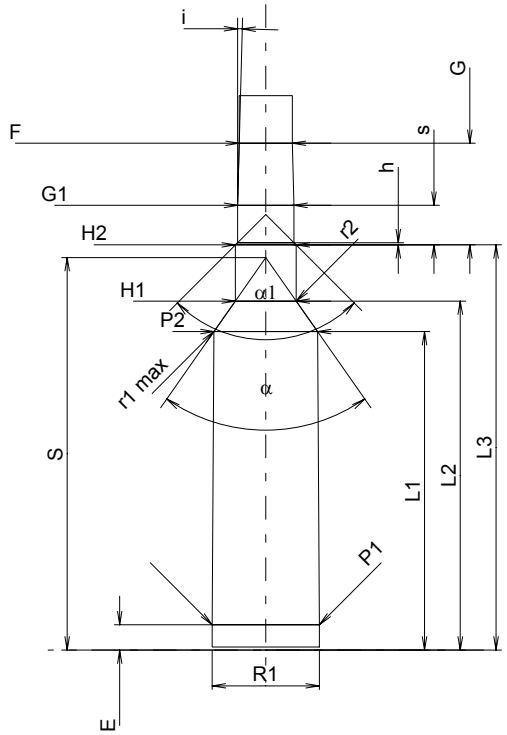
C.I.P.

7 mm Win. Short Mag.

Country of Origin: US

TAB.	**I**
Date	**02-01-22**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

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 *	=	70°	
S *	=	52.01	
r1 min	=	1.27	
r2	=	2.54	

Collar

H1 *	=	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	=		

CHAMBER MINI

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 *	=	13.70	

Junction Cone

α 1)*	=	70°	
S *	=	51.91	
r1 max	=	1.27	
r2	=	3.05	

Collar

H1 *	=	8.05	
H2 1)	=	8.03	

Commencement of Rifling

G1 1)*	=	7.47	
G 1)	=	13.44	
α1	=	90°	
h	=	0.28	
s *	=	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	mm²

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

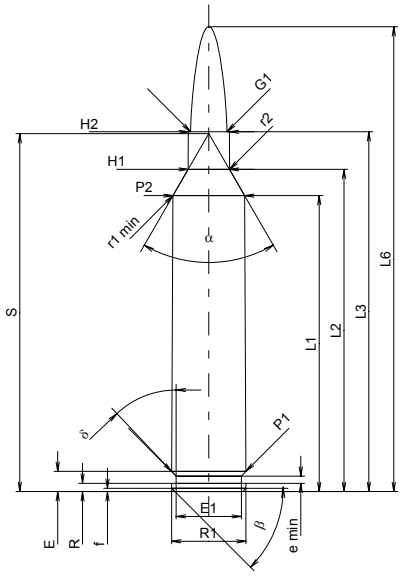
Notes: 1) Check for safety reasons
* Basic dimensions

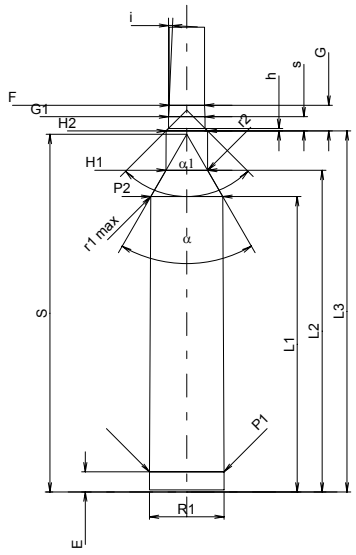
C.I.P.

7,21 Firebird

Country of Origin: FI

TAB.	**I**
Date	**02-01-22**
Revision	**02-05-15**





Scale 1:1.5

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	
δ	=	45°	
f	=	0.64	
β	=	45°	

Powder Chamber

P1	=	14.73	
P2 1)*	=	14.22	-0.20

Junction Cone

α	=	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

α 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	
α1	=	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	mm²

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

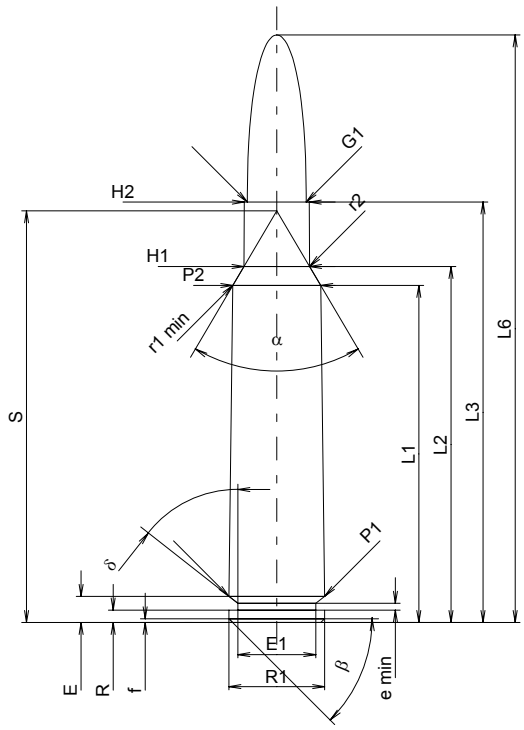
Notes: 1) Check for safety reasons
* Basic dimensions

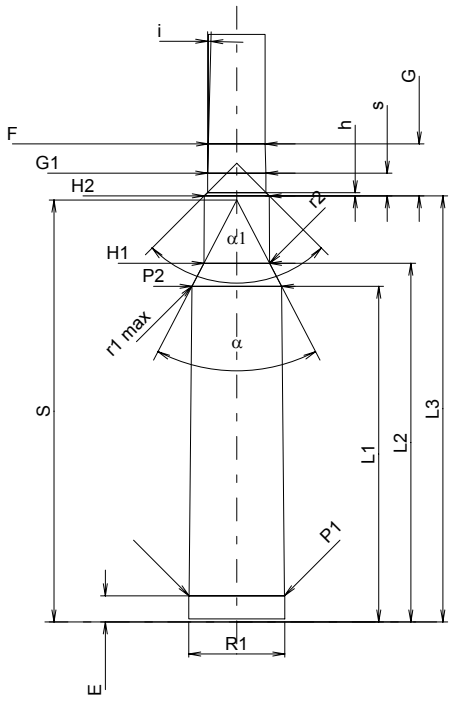
C.I.P.

7,5 x 55 Suisse

Country of Origin: CH

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





Scale 1:1

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	mm²

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

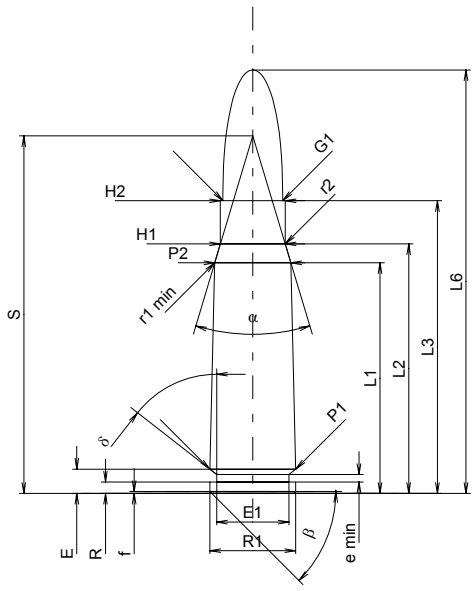
Notes: 1) Check for safety reasons
* Basic dimensions

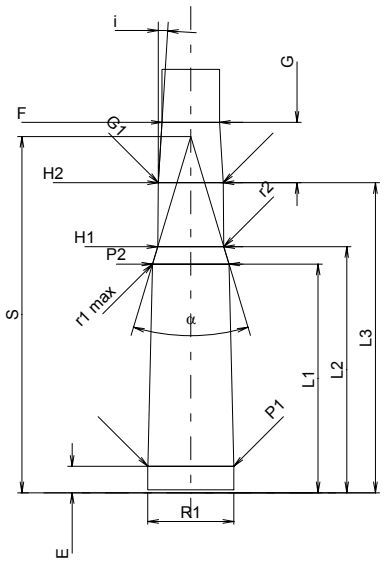
C.I.P.

7,62 x 39

Country of Origin: SU

TAB.	**I**
Date	**89-01-04**
Revision	**02-05-15**





Scale 1:1

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	mm²

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

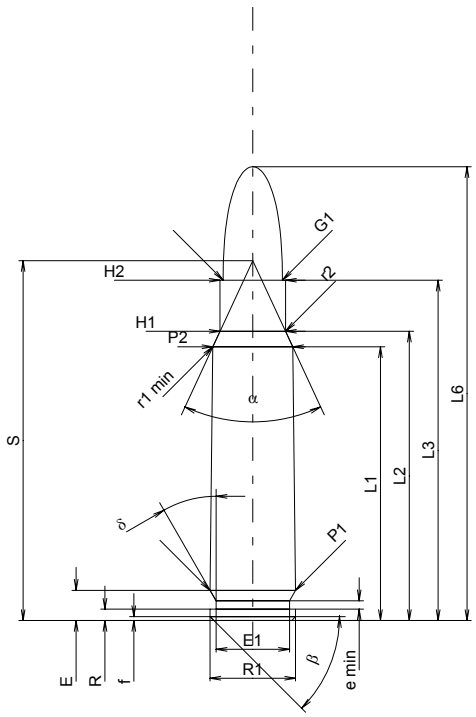
Notes: 1) Check for safety reasons
* Basic dimensions

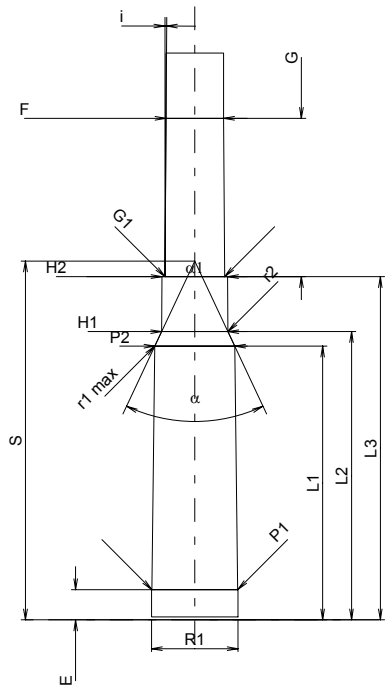
C.I.P.

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
δ	=	30°
f	=	0.50
β	=	45°

Powder Chamber

P1	=	11.30	
P2 1)*	=	10.56	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

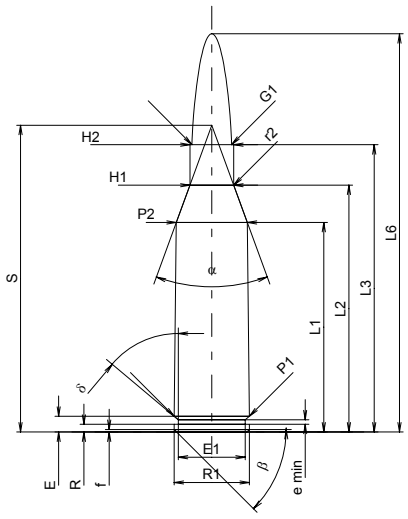
Notes: 1) Check for safety reasons
* Basic dimensions

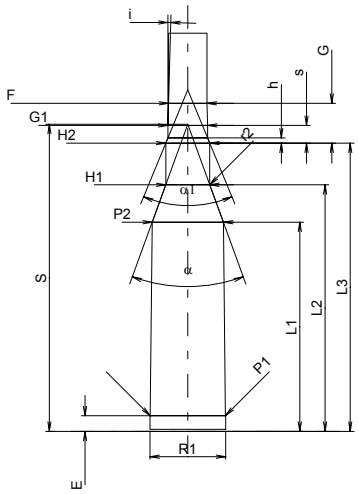
C.I.P.

7,62 UKM

Country of Origin: DE

TAB.	**I**
Date	**02-01-22**
Revision	**02-05-15**





Scale 1:1.5

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	
δ	=	50°01'34"	
f	=	0.50	
β	=	45°	

Powder Chamber

P1	=	14.91	
P2 1)*	=	14.08	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

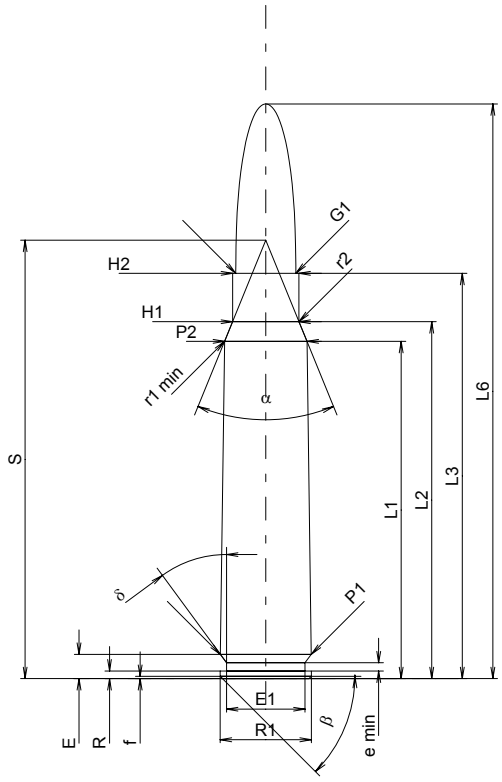
Notes: 1) Check for safety reasons
* Basic dimensions

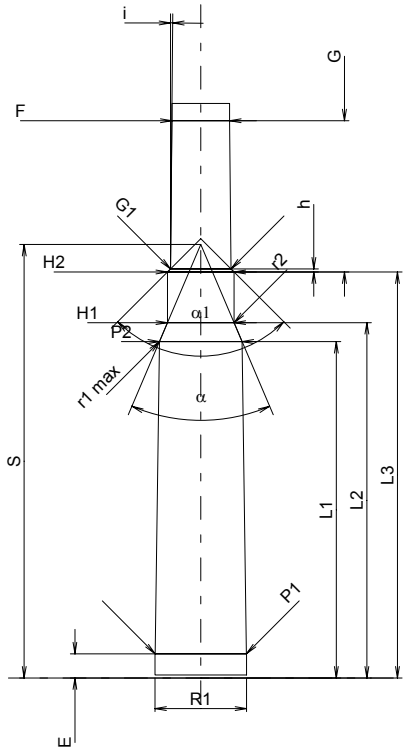
C.I.P.

7,65 x 53 Arg.

Country of Origin: DE

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





Scale 1:1

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	mm²

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

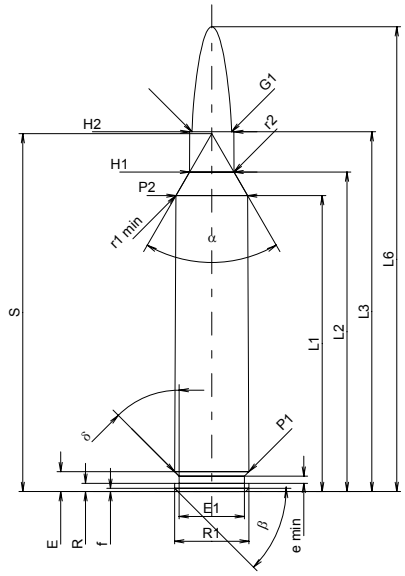
Notes: 1) Check for safety reasons
* Basic dimensions

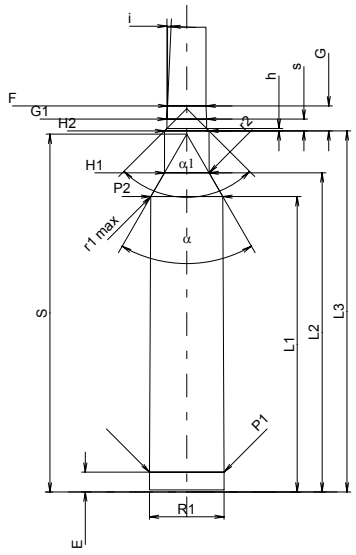
C.I.P.

7,82 Warbird

Country of Origin: FI

TAB.	**I**
Date	**00-02-15**
Revision	**02-05-15**





Scale 1:1.5

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	mm²

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

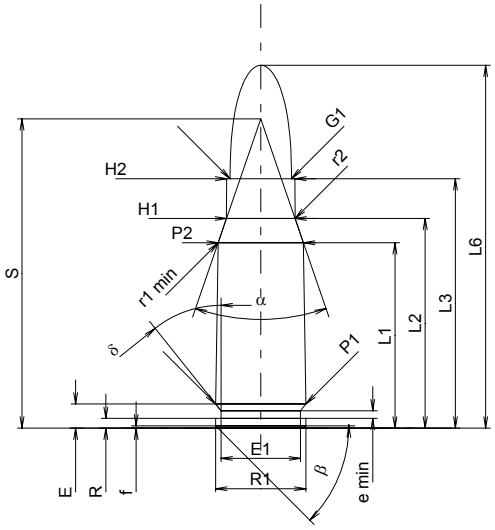
Notes: 1) Check for safety reasons
* Basic dimensions

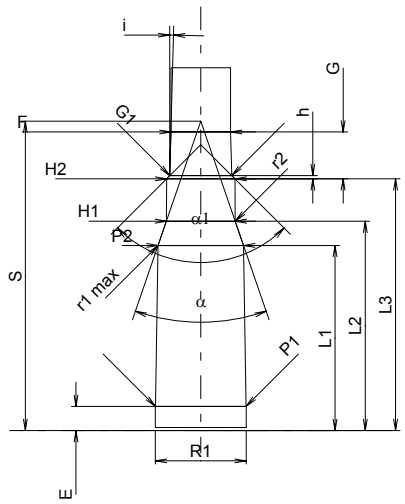
C.I.P.

7,92 x 33 Kurz

Country of Origin: DE

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





Scale 1:1

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	mm²

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

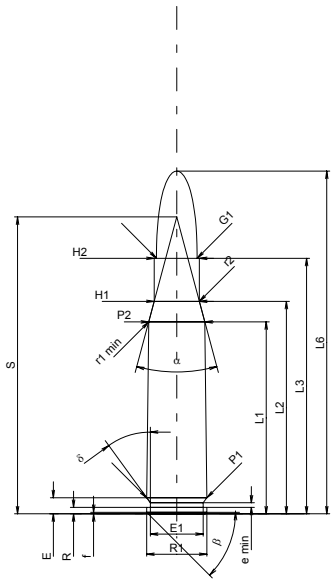
Notes: 1) Check for safety reasons
* Basic dimensions

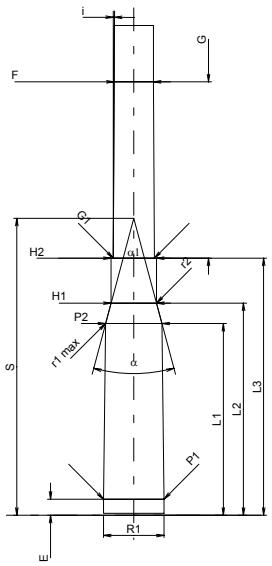
C.I.P.

8 x 51 (Mauser K)

Country of Origin: DE

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





Scale 1:1.5

CARTRIDGE MAXI

Lengths

L1 1)*	=	38.09	-0.20
L2 1)*	=	42.16	-0.20
L3 1)	=	50.70	
L4	=		
L5	=		
L6	=	68.00	

Case Head

R	=	1.30
R1	=	11.95
R3	=	
E	=	3.20
E1	=	10.50
e min	=	0.90
δ	=	36°
f	=	0.30
β	=	45°

Powder Chamber

P1	=	11.95	
P2 1)*	=	11.15	-0.20

Junction Cone

α	=	29°59'08"
S	=	58.91
r1 min	=	0.50
r2	=	0.50

Collar

H1 *	=	8.97
H2 1)	=	8.97

Projectile

G1 1)	=	8.07
G2	=	
F	=	
L3+G 1)	=	85.70

Pressures (Energies)
Method Transducer

Pmax	=	3400	bar
PK	=	3910	bar
PE	=	4250	bar
M	=	25.00	
EE	=	2635	Joule

Miscellaneous Dimensions

Fe 1)	=	0.15
delta L	=	

CHAMBER MINI

Lengths

L1 *	=	38.04
L2 *	=	42.09
L3 1)	=	51.00

Breech

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

Powder Chamber

E	=	3.20
P1 1)	=	11.98
P2 *	=	11.18

Junction Cone

α 1)	=	29°59'42"
S	=	58.91
r1 max	=	0.50
r2	=	0.50

Collar

H1 *	=	9.01
H2 1)	=	9.00

Commencement of Rifling

G1 1)*	=	8.15
G 1)*	=	35.00
α1	=	180°
h	=	
s	=	
i 1)	=	0°17'11"
w	=	

Barrel

F 1)*	=	7.80
Z 1)	=	8.07

Grooves

b	=	4.40	
N	=	4	
u	=	240.00	
Q	=	50.30	mm²

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

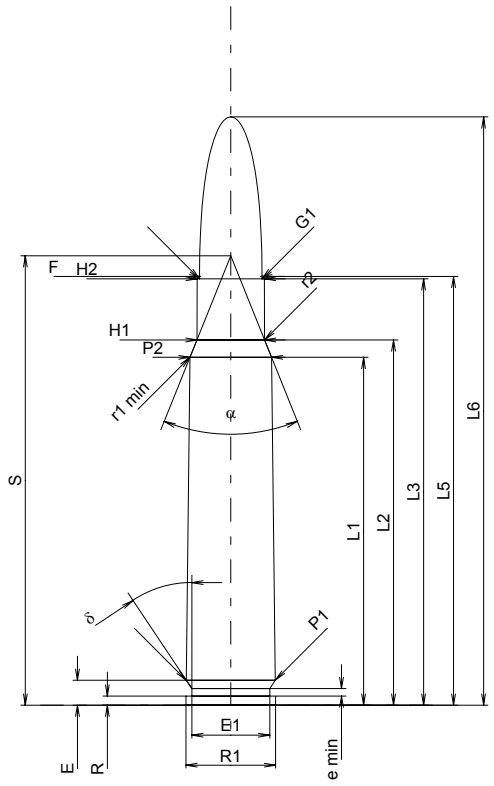
Notes: 1) Check for safety reasons
* Basic dimensions

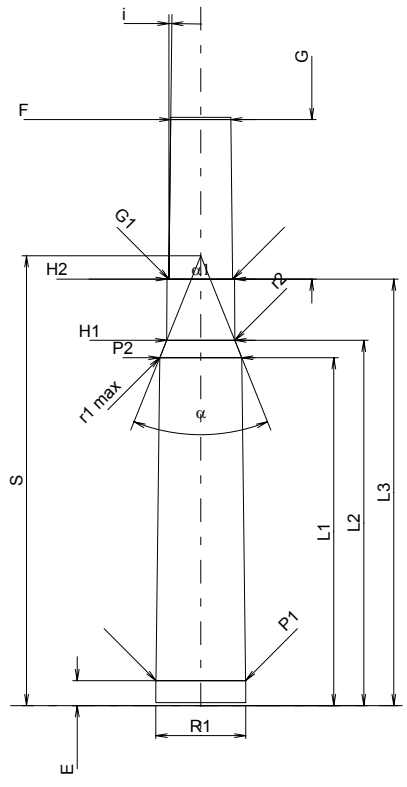
C.I.P.

8 x 56 M.-Sch.

Country of Origin: AT

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





Scale 1:1

CARTRIDGE MAXI

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	=	

CHAMBER MINI

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	mm²

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

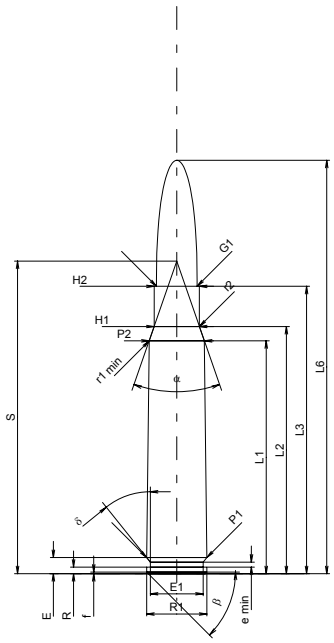
Notes: 1) Check for safety reasons
* Basic dimensions

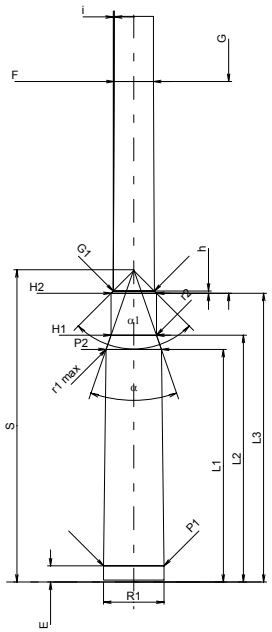
C.I.P.

8 x 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	mm²

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

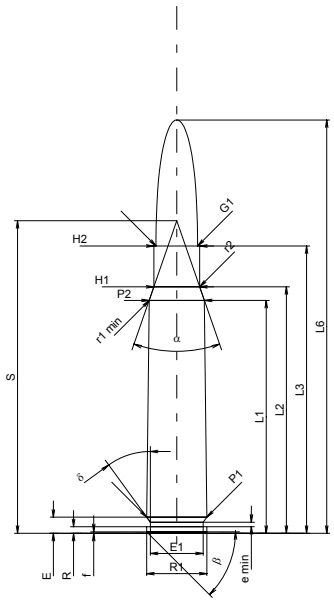
Notes: 1) Check for safety reasons
* Basic dimensions

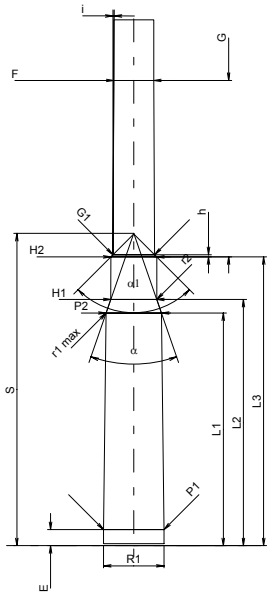
C.I.P.

8 x 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	
δ	=	36°	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.94	
P2 1)*	=	10.95	-0.20

Junction Cone

α	=	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

α 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
α1	=	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

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

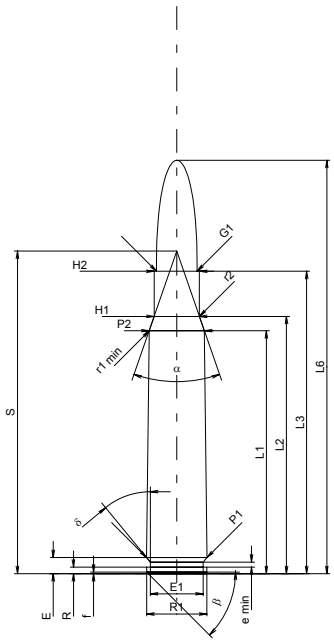
Notes: 1) Check for safety reasons
* Basic dimensions

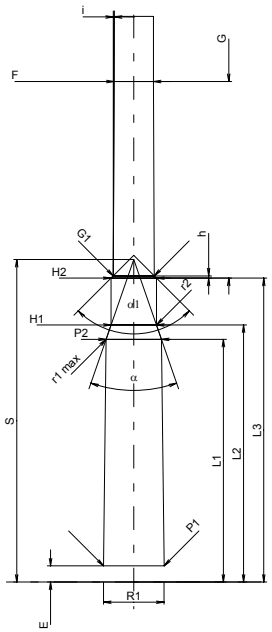
C.I.P.

8 x 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	mm²

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

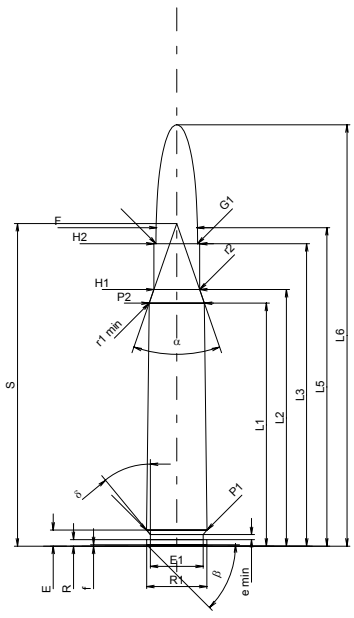
Notes: 1) Check for safety reasons
* Basic dimensions

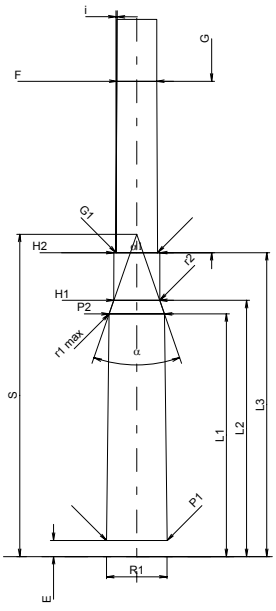
C.I.P.

8 x 60 S

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)*	=	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	mm²

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

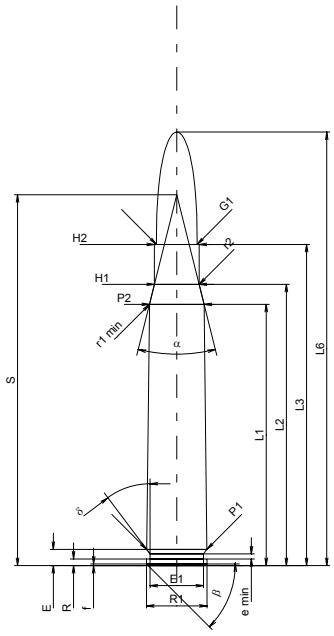
Notes: 1) Check for safety reasons
* Basic dimensions

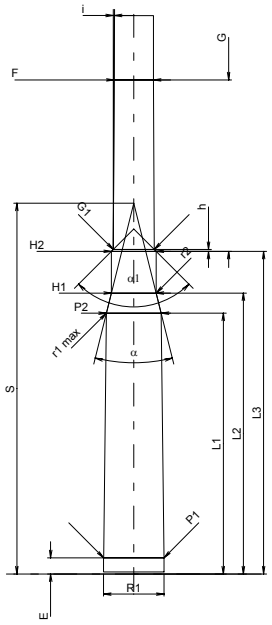
C.I.P.

8 x 64

Country of Origin: DE

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





Scale 1:1.5

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	mm²

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

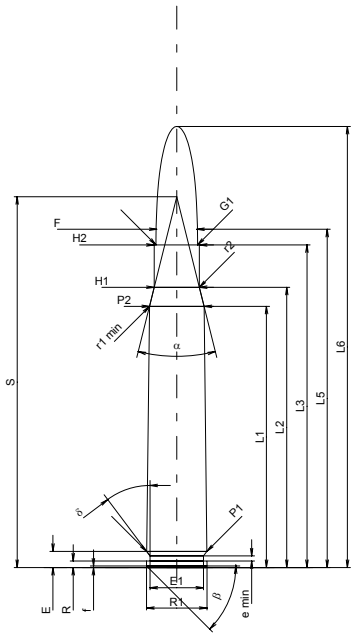
Notes: 1) Check for safety reasons
* Basic dimensions

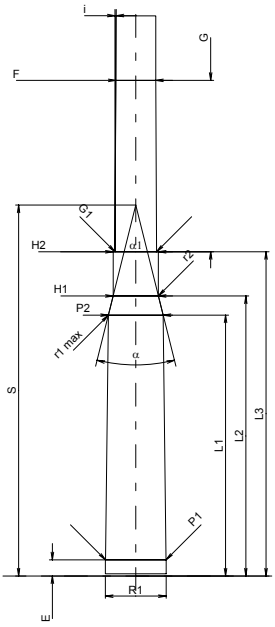
C.I.P.

8 x 64 S

Country of Origin: DE

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





Scale 1:1.5

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	mm²

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

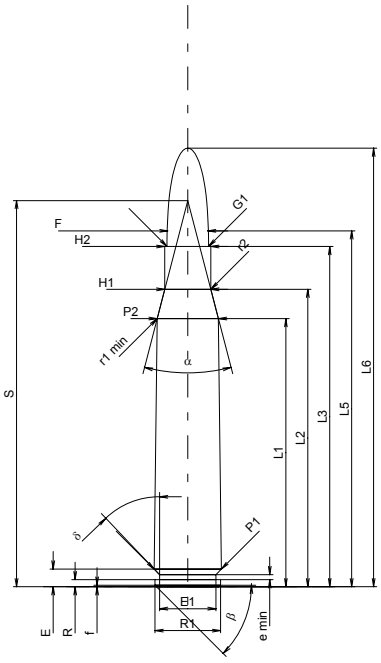
Notes: 1) Check for safety reasons
* Basic dimensions

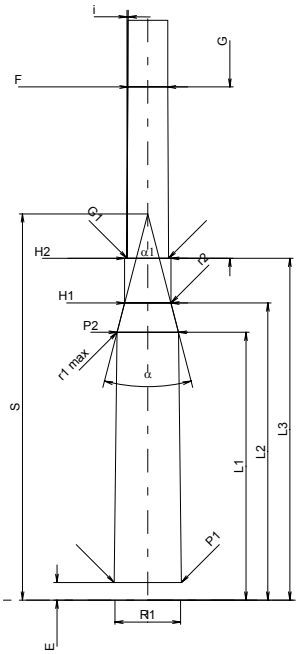
C.I.P.

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
δ	=	43°42'
f	=	0.30
β	=	45°

Powder Chamber

P1	=	13.30	
P2 1)*	=	12.15	-0.20

Junction Cone

α	=	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

α 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
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	=	280.00	
Q	=	51.78	mm²

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

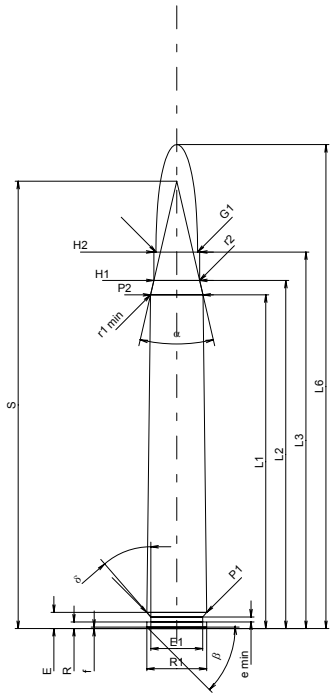
Notes: 1) Check for safety reasons
* Basic dimensions

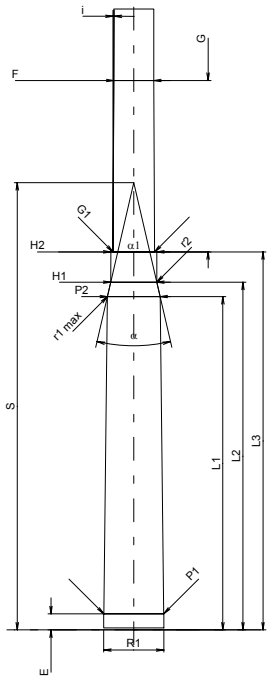
C.I.P.

8 x 75 S

Country of Origin: DE

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





Scale 1:1.5

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	mm²

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

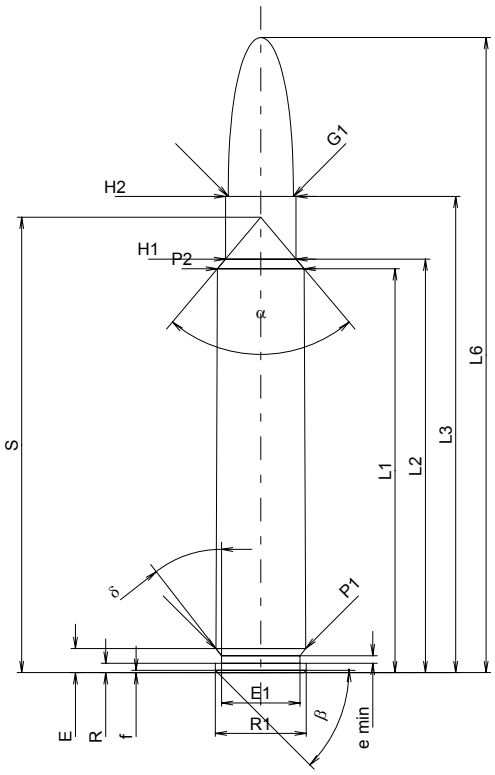
Notes: 1) Check for safety reasons
* Basic dimensions

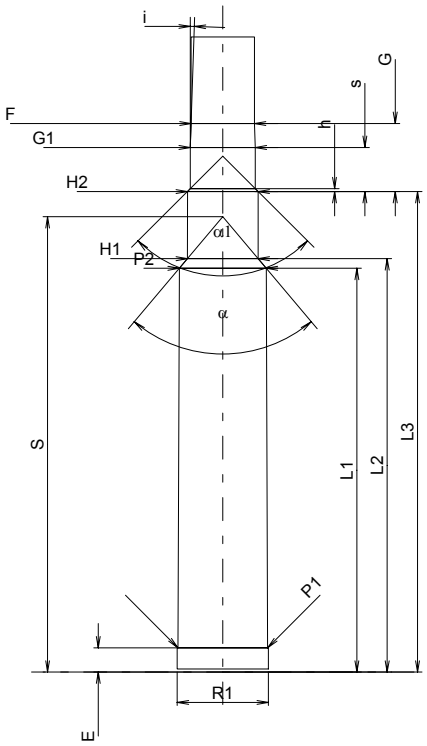
C.I.P.

8,5 x 63

Country of Origin: DE

TAB.	**I**
Date	**92-02-27**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)*	=	53.42	-0.20
L2 1)*	=	54.69	-0.20
L3 1)	=	63.00	
L4	=		
L5	=		
L6	=	84.00	

Case Head

R	=	1.24	
R1	=	12.01	
R3	=		
E	=	3.20	
E1	=	10.40	
e min	=	1.00	
δ	=	37°48'36"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.89	
P2 1)*	=	11.47	-0.20

Junction Cone

α	=	80°13'45"
S	=	60.23
r1 min	=	
r2	=	

Collar

H1 *	=	9.33	
H2 1)	=	9.32	

Projectile

G1 1)	=	8.61	
G2	=		
F	=		
L3+G 1)	=	72.00	

Pressures (Energies)
Method Transducer

Pmax	=	4300	bar
PK	=	4945	bar
PE	=	5375	bar
M	=	25.00	
EE	=	5540	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10
delta L	=	

CHAMBER MINI

Lengths

L1 *	=	53.40
L2 *	=	54.67
L3 1)	=	63.55

Breech

R	=	1.24
R1	=	12.04
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	3.20
P1 1)	=	11.84
P2 *	=	11.50

Junction Cone

α 1)	=	80°13'44"
S	=	60.22
r1 max	=	
r2	=	

Collar

H1 *	=	9.36
H2 1)	=	9.35

Commencement of Rifling

G1 1)*	=	8.59
G 1)*	=	9.00
α1	=	90°
h	=	0.38
s *	=	5.83
i 1)	=	1°53'48"
w	=	

Barrel

F 1)*	=	8.38
Z 1)	=	8.59

Grooves

b	=	2.79	
N	=	6	
u	=	254.00	
Q	=	56.95	mm²

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

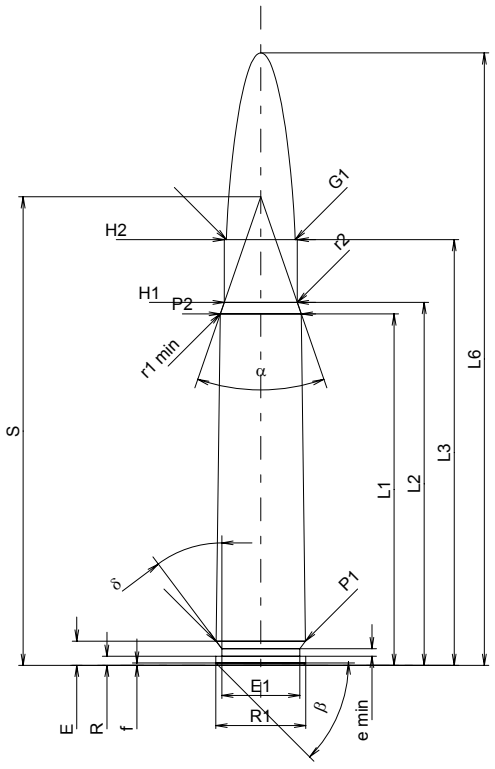
Notes: 1) Check for safety reasons
* Basic dimensions

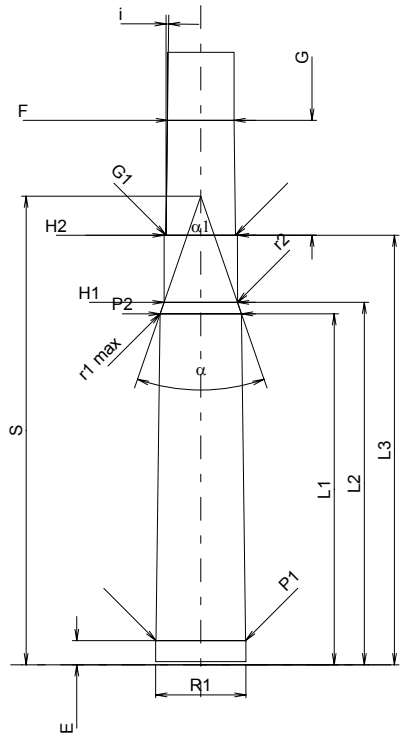
C.I.P.

9 x 56 Mannl. Sch.

Country of Origin: AT

TAB.	**I**
Date	**95-06-28**
Revision	**02-05-15**





Scale 1:1

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	mm²

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

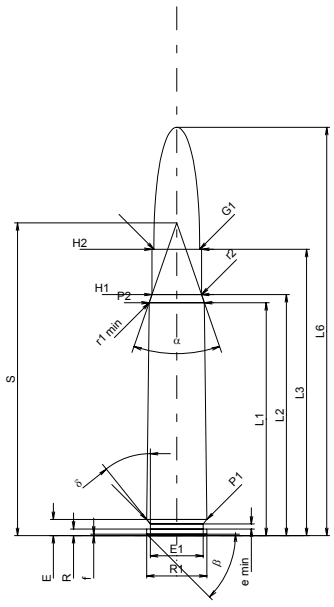
Notes: 1) Check for safety reasons
* Basic dimensions

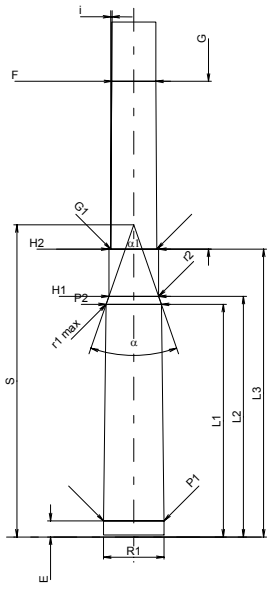
C.I.P.

9 x 57

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)*	=	47.82	-0.20
L3 1)	=	56.80	
L4	=		
L5	=		
L6	=	81.00	

Case Head

R	=	1.30	
R1	=	11.95	
R3	=		
E	=	3.20	
E1	=	10.50	
e min	=	1.00	
δ	=	38°42'	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	11.94	
P2 1)*	=	10.95	-0.20

Junction Cone

α	=	38°08'17"
S	=	62.04
r1 min	=	0.50
r2	=	0.50

Collar

H1 *	=	9.83
H2 1)	=	9.83

Projectile

G1 1)	=	9.08
G2	=	
F	=	
L3+G 1)	=	90.10

Pressures (Energies)
Method Transducer

Pmax	=	2800	bar
PK	=	3220	bar
PE	=	3500	bar
M	=	25.00	
EE	=	3650	Joule

Miscellaneous Dimensions

Fe 1)	=	0.15
delta L	=	

CHAMBER MINI

Lengths

L1 *	=	46.16
L2 *	=	47.74
L3 1)	=	57.10

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°23'09"
S	=	61.93
r1 max	=	0.50
r2	=	0.50

Collar

H1 *	=	9.88
H2 1)	=	9.87

Commencement of Rifling

G1 1)*	=	9.15
G 1)*	=	33.30
α1	=	180°
h	=	
s	=	
i 1)	=	0°19'05"
w	=	

Barrel

F 1)*	=	8.78
Z 1)	=	9.06

Grooves

b	=	4.60	
N	=	4	
u	=	360.00	
Q	=	63.25	mm²

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

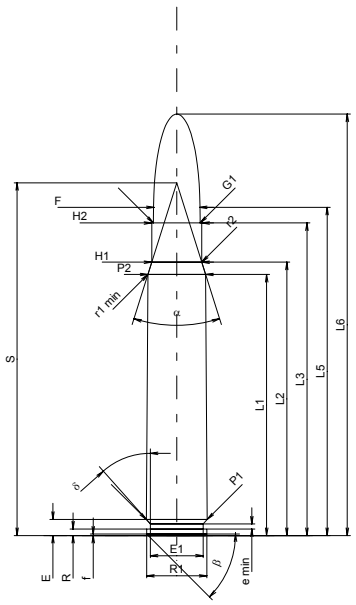
Notes: 1) Check for safety reasons
* Basic dimensions

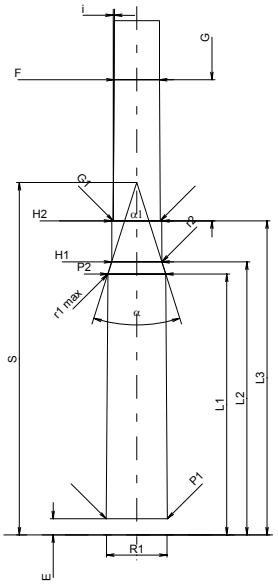
C.I.P.

9,3 x 62

Country of Origin: DE

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





Scale 1:1.5

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
δ	=	41°37'48"
f	=	0.30
β	=	45°

Powder Chamber

P1	=	12.10	
P2 1)*	=	11.45	-0.20

Junction Cone

α	=	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

α 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
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	mm²

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

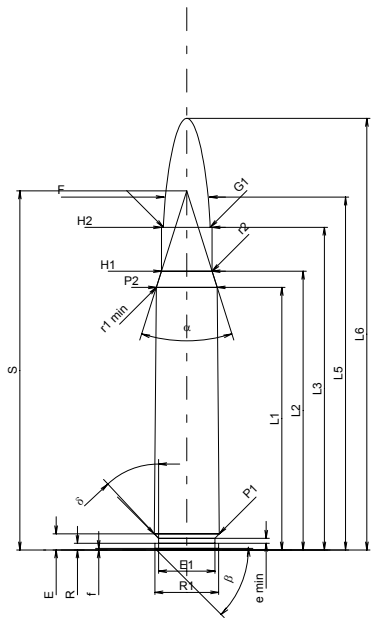
Notes: 1) Check for safety reasons
* Basic dimensions

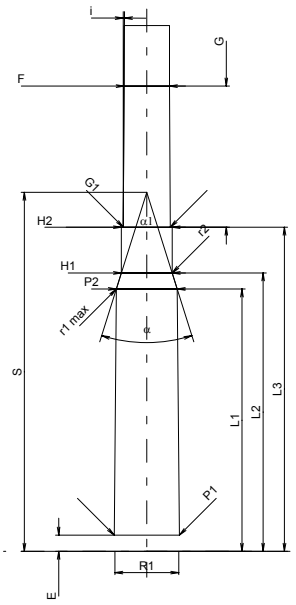
C.I.P.

9,3 x 64 Brenneke

Country of Origin: DE

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





Scale 1:1.5

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	mm²

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

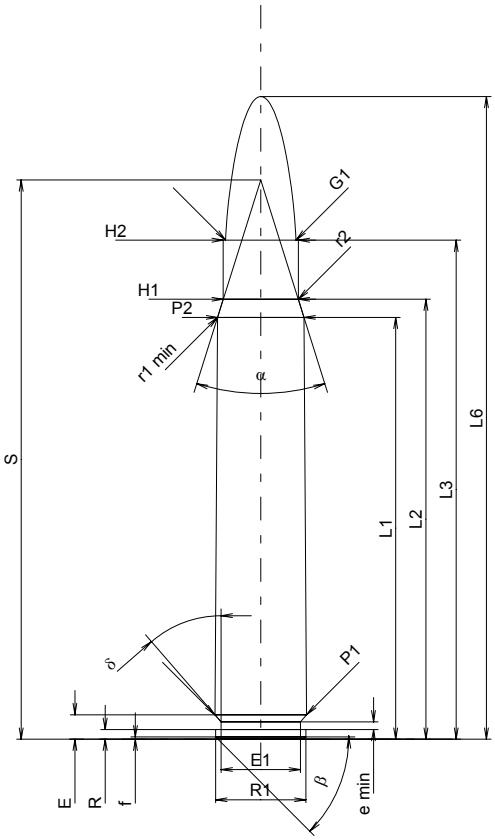
Notes: 1) Check for safety reasons
* Basic dimensions

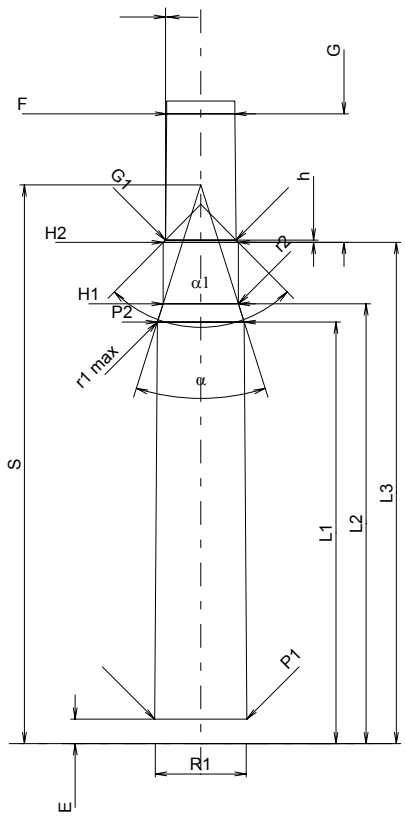
C.I.P.

9,3 x 66 Sako

Country of Origin: FI

TAB.	**I**
Date	**02-01-22**
Revision	**02-05-15**





Scale 1:1

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	
δ	=	41°	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	12.13	
P2 1)*	=	11.43	-0.20

Junction Cone

α	=	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

α 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	
α1	=	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	mm²

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

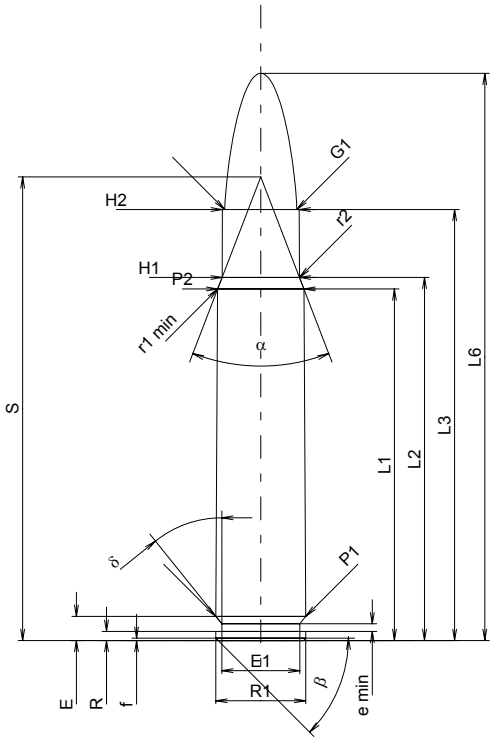
Notes: 1) Check for safety reasons
* Basic dimensions

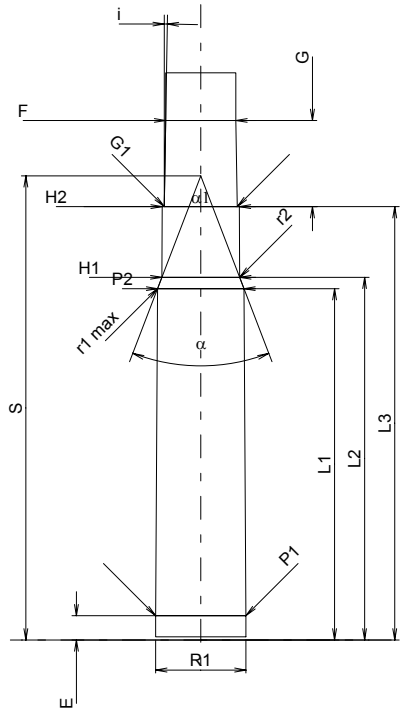
C.I.P.

9,5 x 57 Mannl. Sch.

Country of Origin: AT

TAB.	**I**
Date	**95-06-28**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

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	=	

CHAMBER MINI

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	mm²

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

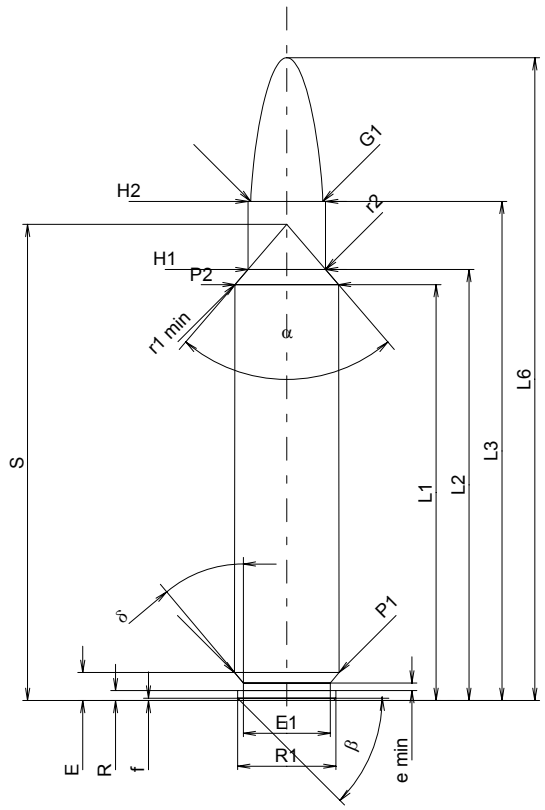
Notes: 1) Check for safety reasons
* Basic dimensions

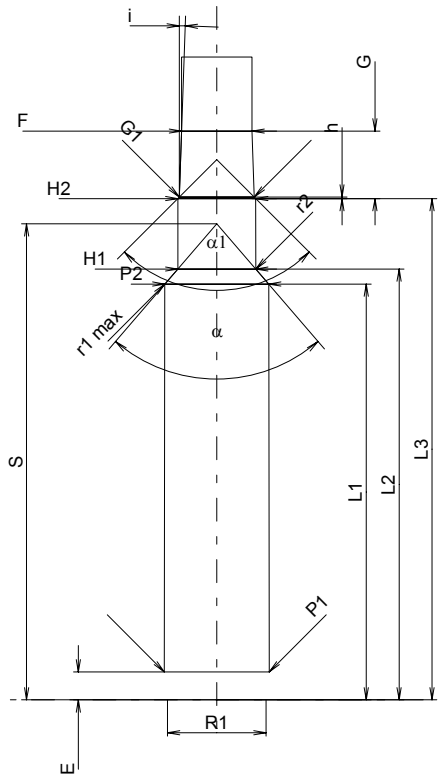
C.I.P.

9,5 x 66 SE v. H.

Country of Origin: DE

TAB.	**I**
Date	**96-05-24**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

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	=	

CHAMBER MINI

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	mm²

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

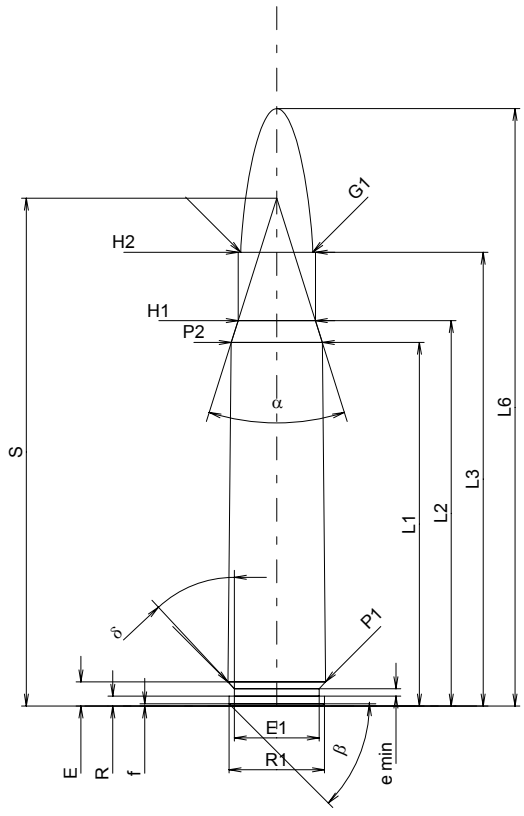
Notes: 1) Check for safety reasons
* Basic dimensions

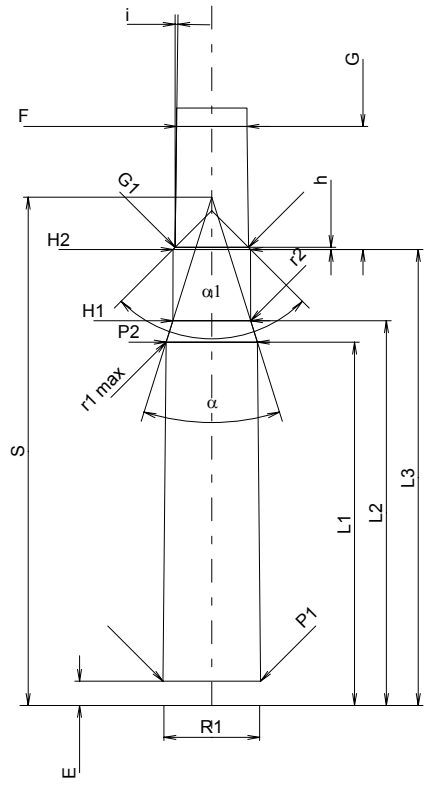
C.I.P.

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
δ	=	43°
f	=	0.30
β	=	45°

Powder Chamber

P1	=	12.88	
P2 1)*	=	12.05	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

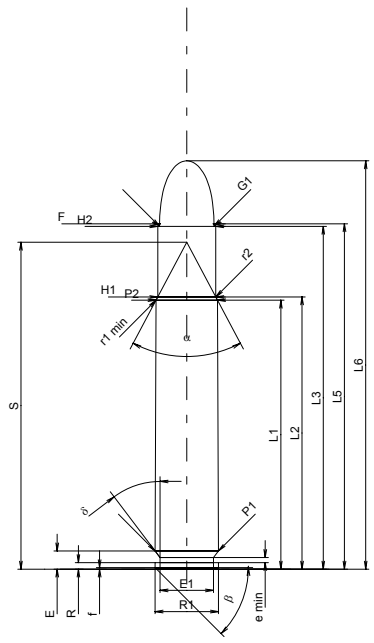
Notes: 1) Check for safety reasons
* Basic dimensions

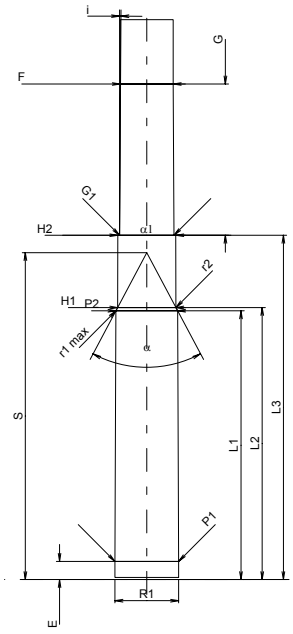
C.I.P.

10,75 x 68

Country of Origin: DE

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





Scale 1:1.5

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
δ	=	37°06'36"
f	=	0.30
β	=	45°

Powder Chamber

P1	=	12.57	
P2 1)*	=	12.20	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

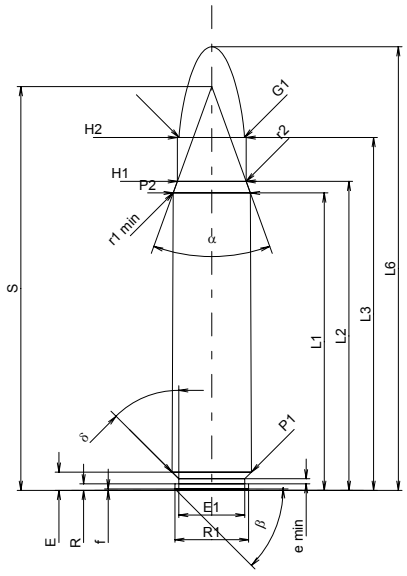
Notes: 1) Check for safety reasons
* Basic dimensions

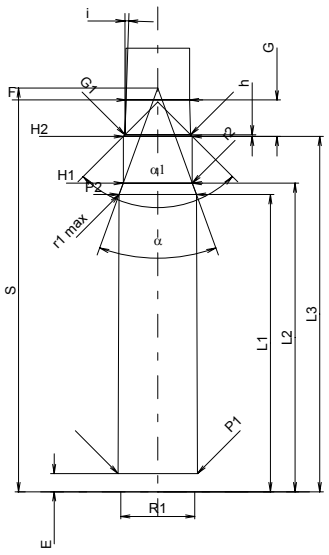
C.I.P.

12,7 x 70 (500 Schüler)

Country of Origin: DE

TAB.	**I**
Date	**98-01-27**
Revision	**02-05-15**





Scale 1:1.5

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	
δ	=	45°	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	15.73	
P2 1)*	=	15.32	-0.20

Junction Cone

α	=	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

α 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	
α1	=	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	mm²

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

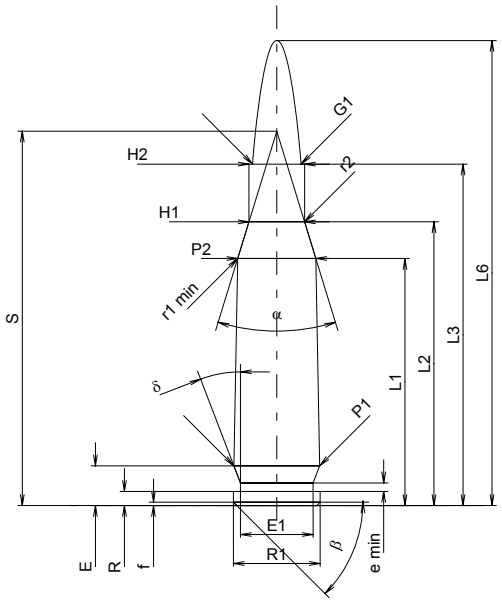
Notes: 1) Check for safety reasons
* Basic dimensions

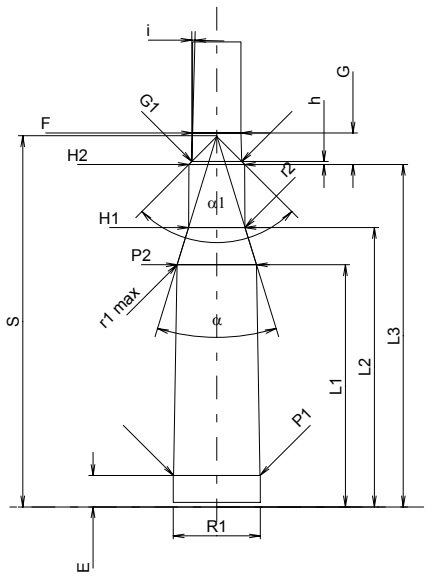
C.I.P.

17 Libra

Country of Origin: CZ

TAB.	**I**
Date	**01-01-22**
Revision	**02-05-15**





Scale 1.5:1

CARTRIDGE MAXI

Lengths

L1 1)*	=	21.78	-0.20
L2 1)*	=	25.01	-0.20
L3 1)	=	30.10	
L4	=		
L5	=		
L6	=	41.00	

Case Head

R	=	1.24	
R1	=	7.65	
R3	=		
E	=	3.50	
E1	=	6.40	
e min	=	0.75	
δ	=	20°	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	7.56	
P2 1)*	=	6.88	-0.20

Junction Cone

α	=	34°04'50"
S	=	33.00
r1 min	=	0.64
r2	=	2.54

Collar

H1 *	=	4.90
H2 1)	=	4.90

Projectile

G1 1)	=	4.28
G2	=	
F	=	
L3+G 1)	=	32.87

Pressures (Energies)
Method Transducer

Pmax	=	4300	bar
PK	=	4945	bar
PE	=	5375	bar
M	=	17.50	
EE	=	1500	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10
delta L	=	

CHAMBER MINI

Lengths

L1 *	=	21.35
L2 *	=	24.63
L3 1)	=	30.20

Breech

R	=	
R1	=	7.67
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	2.77
P1 1)	=	7.62
P2 *	=	7.00

Junction Cone

α 1)	=	34°13'48"
S	=	32.72
r1 max	=	0.64
r2	=	3.18

Collar

H1 *	=	4.98
H2 1)	=	4.90

Commencement of Rifling

G1 1)*	=	4.40
G 1)*	=	2.77
α1	=	90°
h *	=	0.25
s	=	
i 1)	=	1°28'39"
w	=	

Barrel

F 1)*	=	4.27
Z 1)	=	4.40

Grooves

b	=	1.57	
N	=	6	
u	=	229.00	
Q	=	14.95	mm²

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

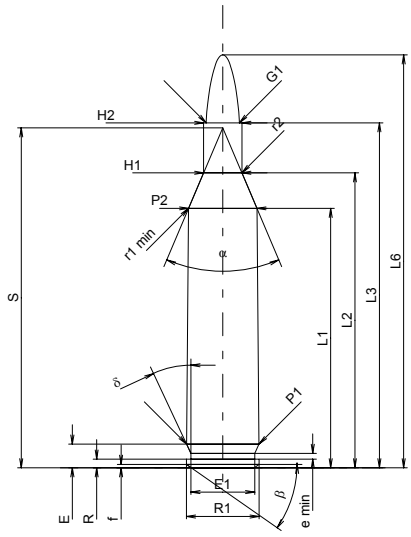
Notes: 1) Check for safety reasons
* Basic dimensions

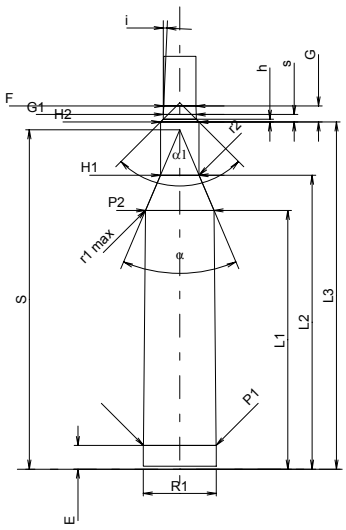
C.I.P.

17 Rem.

Country of Origin: US

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





Scale 1:1

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	mm²

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

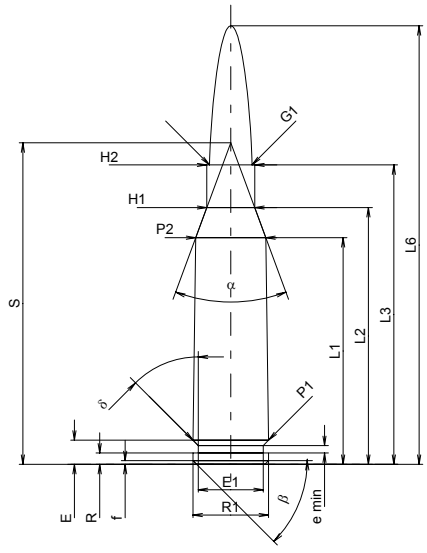
Notes: 1) Check for safety reasons
* Basic dimensions

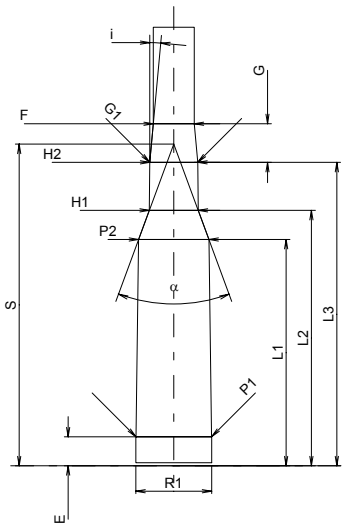
C.I.P.

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
δ	=	45°
f	=	0.50
β	=	45°

Powder Chamber

P1	=	10.00	
P2 1)*	=	9.25	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

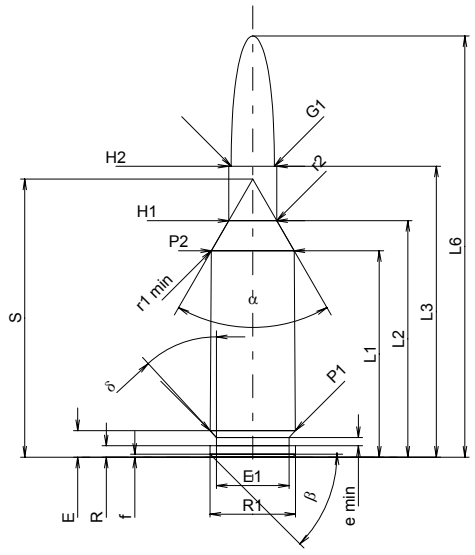
Notes: 1) Check for safety reasons
* Basic dimensions

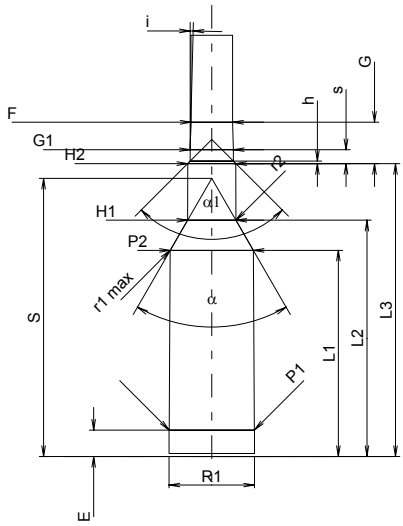
C.I.P.

22 PPC-USA

Country of Origin: FI

TAB.	**I**
Date	**89-04-18**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI				CHAMBER MINI			
Lengths				**Lengths**			
L1 1)*	=	27.30	-0.20	L1 *	=	27.27	
L2 1)*	=	31.28	-0.20	L2 *	=	31.25	
L3 1)	=	38.48		L3 1)	=	38.74	
L4	=						
L5	=						
L6	=	55.70					
Case Head				**Breech**			
R	=	1.50		R	=	1.50	
R1	=	11.30		R1	=	11.32	
R3	=			R2	=		
E	=	3.50		R3	=		
E1	=	9.60		r	=		
e min	=	1.10					
δ	=	42°40'48"					
f	=	0.40					
β	=	45°					
Powder Chamber				**Powder Chamber**			
				E	=	3.50	
P1	=	11.26		P1 1)	=	11.28	
P2 1)*	=	10.95	-0.20	P2 *	=	10.98	
Junction Cone				**Junction Cone**			
α	=	60°02'47"		α 1)	=	59°56'16"	
S	=	36.77		S	=	36.79	
r1 min	=	1.00		r1 max	=	0.50	
r2	=	3.00		r2	=	3.00	
Collar				**Collar**			
H1 *	=	6.35		H1 *	=	6.39	
H2 1)	=	6.35		H2 1)	=	6.38	
Projectile				**Commencement of Rifling**			
G1 1)	=	5.70		G1 1)*	=	5.72	
G2	=			G 1)*	=	5.48	
F	=			α1	=	90°	
L3+G 1)	=	43.96		h	=	0.33	
				s *	=	1.85	
Pressures (Energies)				i 1)	=	1°30'	
Method Transducer				w	=		
Pmax	=	4050	bar	**Barrel**			
PK	=	4658	bar	F 1)*	=	5.53	
PE	=	5060	bar	Z 1)	=	5.66	
M	=	17.50		**Grooves**			
EE	=	1935	Joule	b	=	2.04	
				N	=	6	
				u	=	355.00	
				Q	=	24.83	mm²
Miscellaneous Dimensions							
Fe 1)	=	0.10					
delta L	=						

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

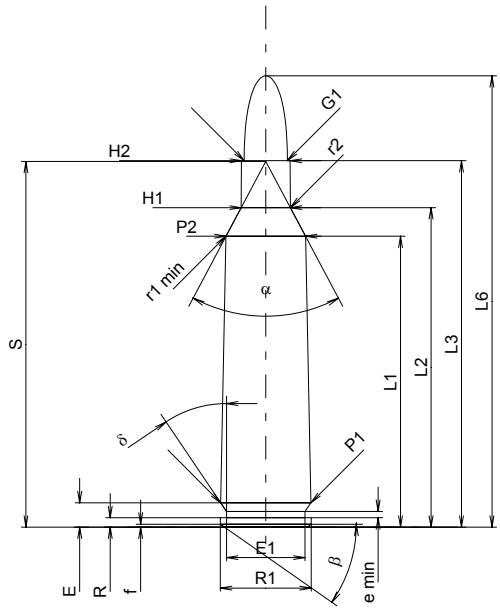
Notes: 1) Check for safety reasons
* Basic dimensions

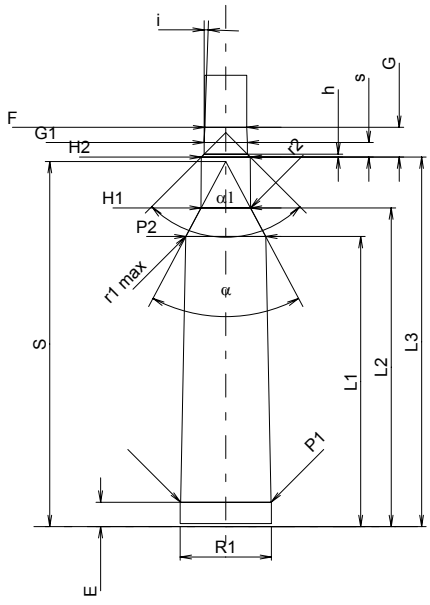
C.I.P.

22-250 Rem

Country of Origin: US

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





Scale 1:1

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	
δ	=	34°	
f	=	0.38	
β	=	35°	

Powder Chamber

P1	=	11.93	
P2 1)*	=	10.52	-0.20

Junction Cone

α *	=	56°	
S *	=	48.37	
r1 min	=	2.54	
r2	=	2.54	

Collar

H1 *	=	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 *	=	10.56

Junction Cone

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

Collar

H1 *	=	6.53
H2 1)	=	6.48

Commencement of Rifling

G1 1)*	=	5.70
G 1)	=	3.93
α1	=	90°
h	=	0.39
s *	=	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	mm²

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

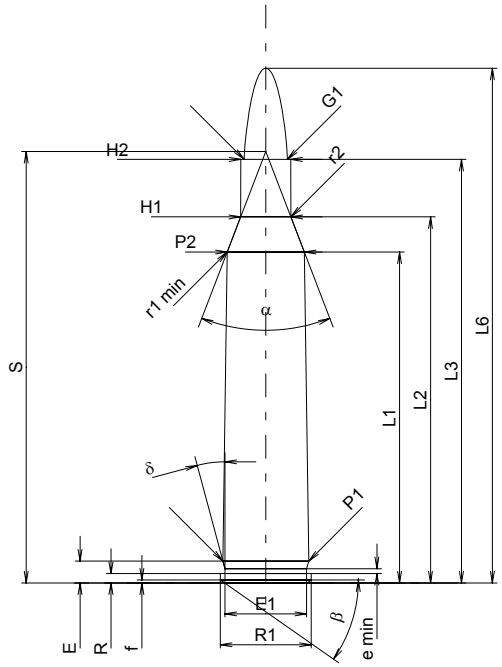
Notes: 1) Check for safety reasons
* Basic dimensions

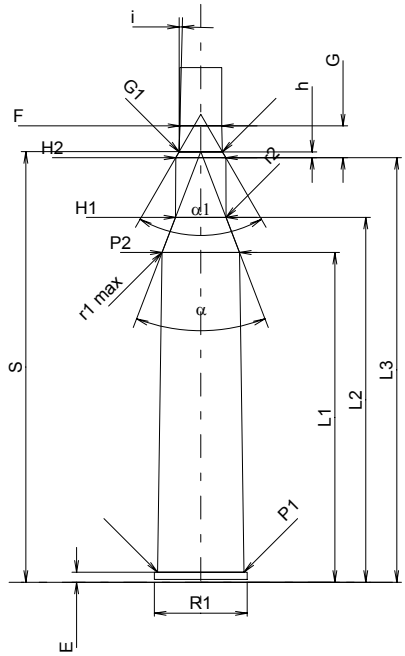
C.I.P.

220 Swift

Country of Origin: US

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





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	43.76	-0.20
L2 1)	=	48.41	-0.20
L3 1)	=	56.01	
L4	=		
L5	=		
L6	=	68.07	

Case Head

R	=	1.24	
R1	=	12.01	
R3	=		
E	=	2.89	
E1	=	10.82	
e min	=	0.64	
δ	=	15°	
f	=	0.38	
β	=	35°	

Powder Chamber

P1	=	11.36	
P2 1)*	=	10.21	-0.20

Junction Cone

α *	=	42°	
S *	=	57.06	
r1 min	=	0.76	
r2	=	2.54	

Collar

H1 *	=	6.64	
H2 1)	=	6.60	

Projectile

G1 1)	=	5.70	
G2	=		
F	=		
L3+G 1)	=	60.22	

Pressures (Energies)
Method Transducer

Pmax	=	4300	bar
PK	=	4945	bar
PE	=	5375	bar
M	=	25.00	
EE	=	2380	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10	
delta L	=	0.10	

CHAMBER MINI

Lengths

L1	=	43.62
L2	=	48.27
L3 1)	=	56.16

Breech

R	=	1.35
R1	=	12.27
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	1.35
P1 1)	=	11.43
P2 *	=	10.24

Junction Cone

α 1)*	=	42°
S *	=	56.96
r1 max	=	0.76
r2	=	3.81

Collar

H1 *	=	6.67
H2 1)	=	6.63

Commencement of Rifling

G1 1)*	=	5.74
G 1)	=	4.21
α1	=	60°
h *	=	0.77
s	=	
i 1)*	=	1°30'
w	=	

Barrel

F 1)*	=	5.56
Z 1)	=	5.69

Grooves

b	=	1.88	
N	=	6	
u	=	356.00	
Q	=	25.03	mm²

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

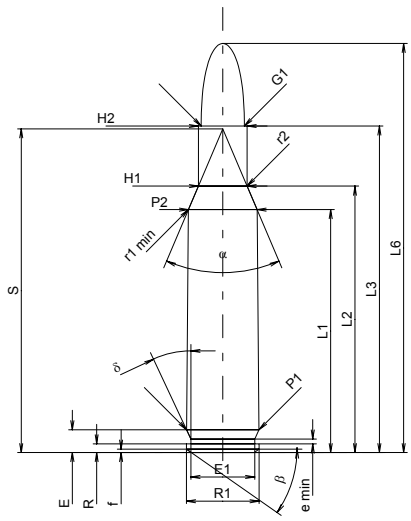
Notes: 1) Check for safety reasons
* Basic dimensions

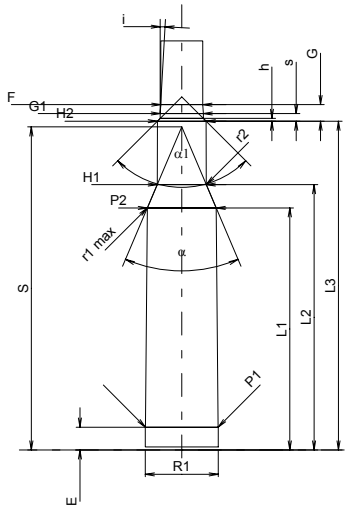
C.I.P.

222 Rem.

Country of Origin: US

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





Scale 1:1

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	mm²

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

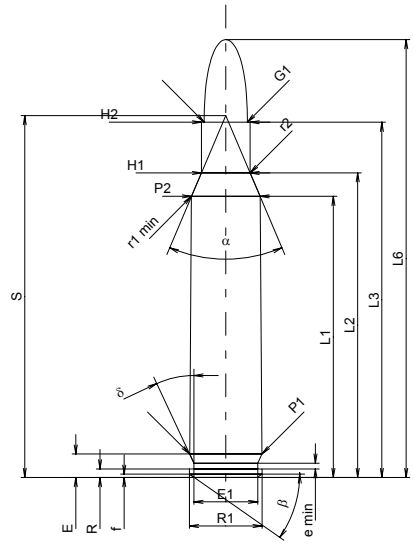
Notes: 1) Check for safety reasons
* Basic dimensions

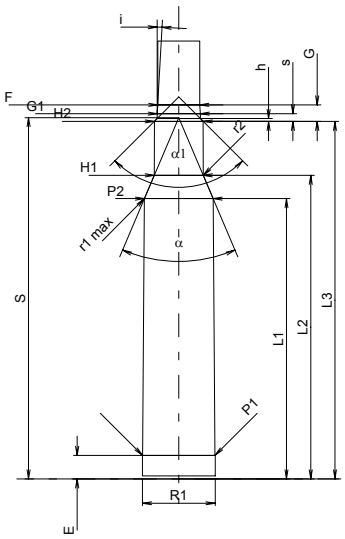
C.I.P.

222 Rem. Mag.

Country of Origin: US

TAB.	**I**
Date	**84-06-14**
Revision	**02.05 15**





Scale 1:1

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	mm²

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

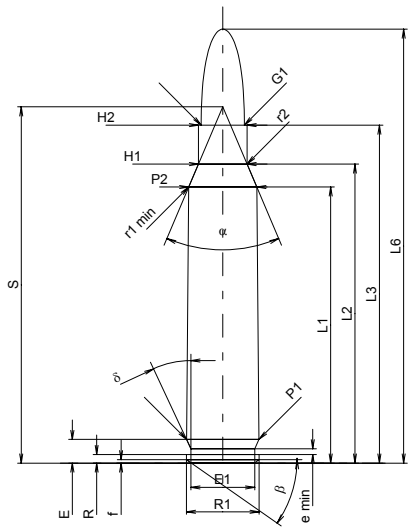
Notes: 1) Check for safety reasons
* Basic dimensions

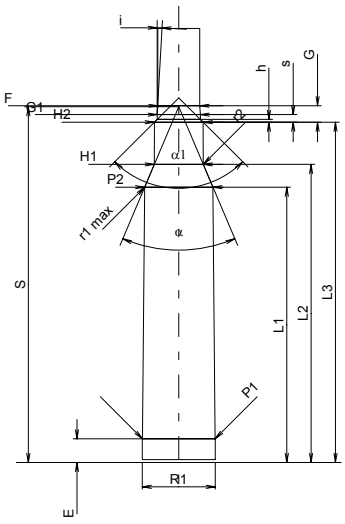
C.I.P.

223 Rem.

Country of Origin: US

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





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	36.52	-0.20
L2 1)	=	39.55	-0.20
L3 1)	=	44.70	
L4	=		
L5	=		
L6	=	57.40	

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)*	=	9.00	-0.20

Junction Cone

α *	=	46°	
S *	=	47.12	
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)	=	46.88	

Pressures (Energies)
Method Transducer

Pmax	=	4300	bar
PK	=	4945	bar
PE	=	5375	bar
M	=	25.00	
EE	=	1825	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10	
delta L	=	0.07	

CHAMBER MINI

Lengths

L1	=	36.42
L2	=	39.42
L3 1)	=	45.01

Breech

R	=	
R1	=	9.66
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	3.13
P1 1)	=	9.61
P2 *	=	9.02

Junction Cone

α 1)*	=	46°
S *	=	47.05
r1 max	=	0.64
r2	=	3.18

Collar

H1 *	=	6.48
H2 1)	=	6.45

Commencement of Rifling

G1 1)*	=	5.69
G 1)	=	2.18
α1	=	90°
h	=	0.38
s *	=	1.01
i 1)*	=	3°10'36"
w	=	

Barrel

F 1)*	=	5.56
Z 1)	=	5.69

Grooves

b	=	1.88	
N	=	6	
u	=	305.00	
Q	=	25.03	mm²

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

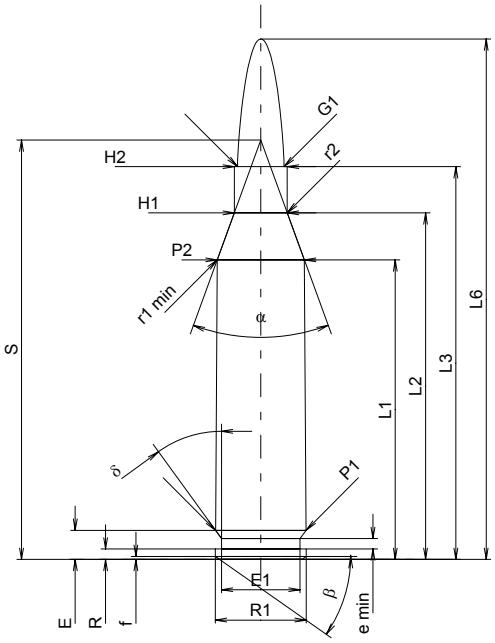
Notes: 1) Check for safety reasons
* Basic dimensions

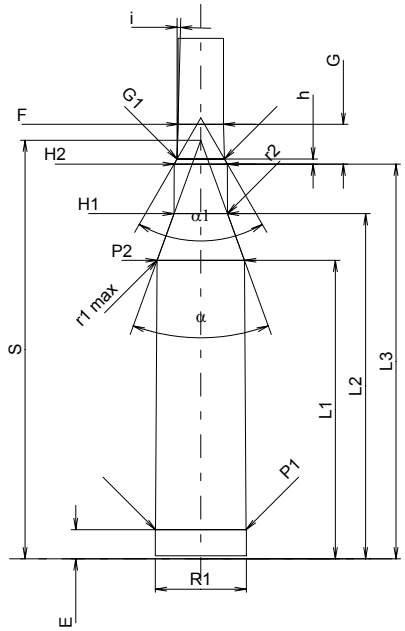
C.I.P.

243 Win.

Country of Origin: US

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





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	39.62	-0.20
L2 1)	=	45.83	-0.20
L3 1)	=	51.94	
L4	=		
L5	=		
L6	=	68.83	

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 *	=	7.01	
H2 1)	=	7.01	

Projectile

G1 1)	=	6.17	
G2	=		
F	=		
L3+G 1)	=	57.20	

Pressures (Energies)
Method Transducer

Pmax	=	4150	bar
PK	=	4773	bar
PE	=	5190	bar
M	=	25.00	
EE	=	2890	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10	
delta L	=	0.10	

CHAMBER MINI

Lengths

L1	=	39.48	
L2	=	45.65	
L3 1)	=	52.20	

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	=	3.68	

Collar

H1 *	=	7.07	
H2 1)	=	7.04	

Commencement of Rifling

G1 1)*	=	6.26	
G 1)	=	5.26	
α1	=	60°	
h *	=	0.68	
s	=		
i 1)*	=	1°30'	
w	=		

Barrel

F 1)*	=	6.02	
Z 1)	=	6.17	

Grooves

b	=	1.73	
N	=	6	
u	=	254.00	
Q	=	29.25	mm²

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

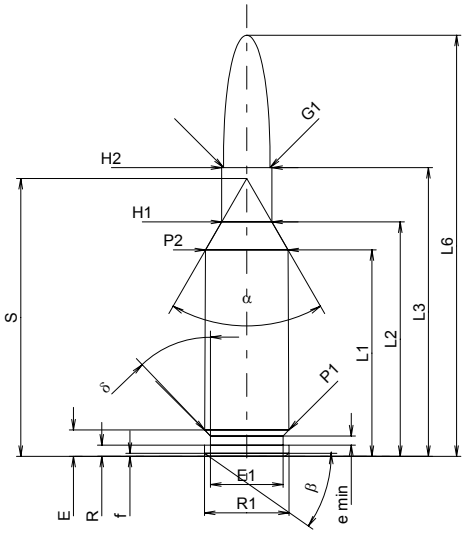
Notes: 1) Check for safety reasons
* Basic dimensions

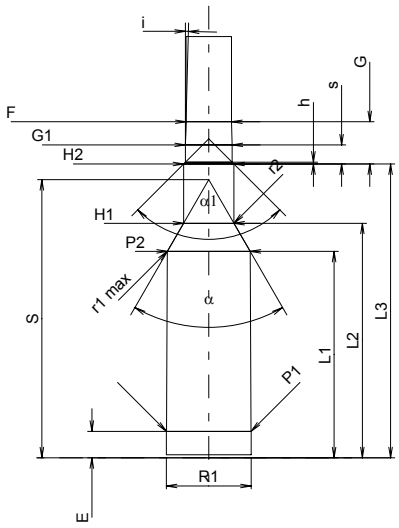
C.I.P.

6 mm PPC

Country of Origin: US

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





Scale 1:1

CARTRIDGE MAXI

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	=		

CHAMBER MINI

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	mm²

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

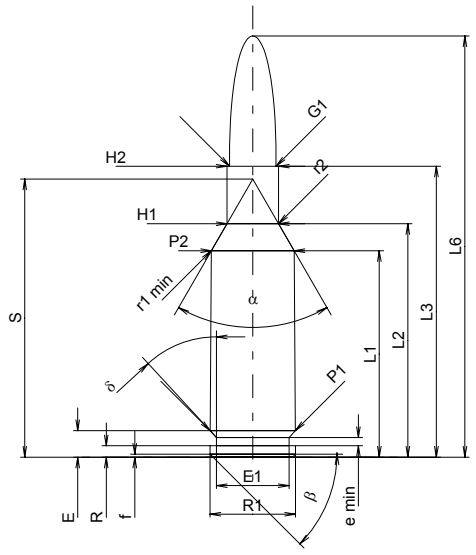
Notes: 1) Check for safety reasons
* Basic dimensions

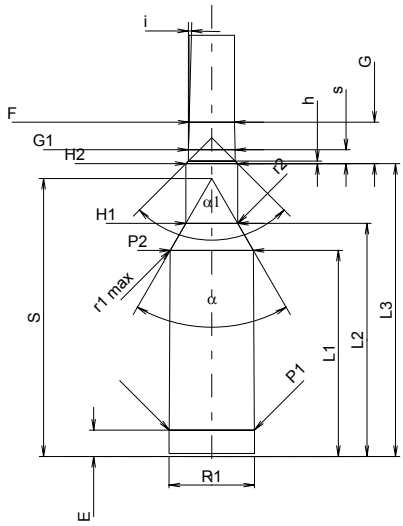
C.I.P.

6 mm PPC-USA

Country of Origin: FI

TAB.	**I**
Date	**89-04-18**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)*	=	27.30	-0.20
L2 1)*	=	30.87	-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	
δ	=	42°43'12"	
f	=	0.40	
β	=	45°	

Powder Chamber

P1	=	11.26	
P2 1)*	=	10.95	-0.20

Junction Cone

α	=	60°05'34"
S	=	36.77
r1 min	=	1.00
r2	=	3.00

Collar

H1 *	=	6.82
H2 1)	=	6.82

Projectile

G1 1)	=	6.17
G2	=	
F	=	
L3+G 1)	=	43.96

Pressures (Energies)
Method Transducer

Pmax	=	4050	bar
PK	=	4658	bar
PE	=	5060	bar
M	=	17.50	
EE	=	2020	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10
delta L	=	

CHAMBER MINI

Lengths

L1 *	=	27.27
L2 *	=	30.84
L3 1)	=	38.74

Breech

R	=	
R1	=	11.32
R2	=	
R3	=	
r	=	

Powder Chamber

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

Junction Cone

α 1)	=	59°58'22"
S	=	36.78
r1 max	=	0.50
r2	=	3.00

Collar

H1 *	=	6.86
H2 1)	=	6.85

Commencement of Rifling

G1 1)*	=	6.19
G 1)*	=	5.48
α1	=	90°
h	=	0.33
s *	=	1.85
i 1)	=	1°30'
w	=	

Barrel

F 1)*	=	6.00
Z 1)	=	6.14

Grooves

b	=	2.28	
N	=	6	
u	=	305.00	
Q	=	29.26	mm²

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

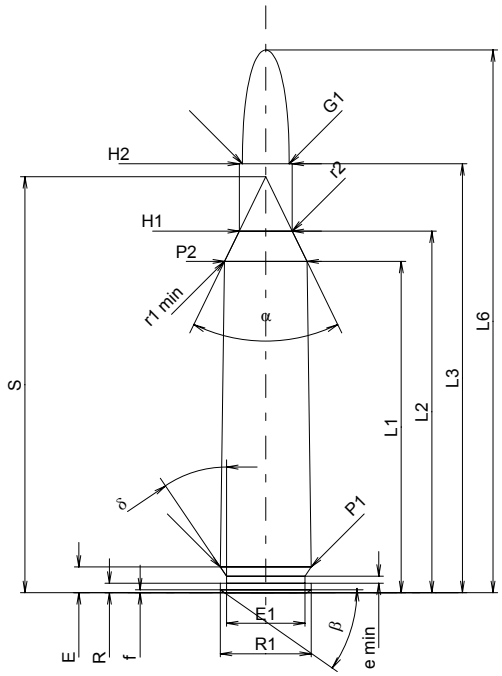
Notes: 1) Check for safety reasons
* Basic dimensions

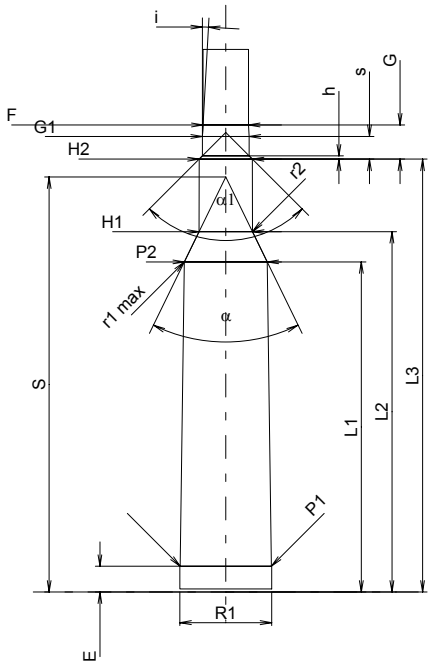
C.I.P.

6 mm Rem. (244 Rem.)

Country of Origin: US

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





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	43.81	-0.20
L2 1)	=	47.81	-0.20
L3 1)	=	56.72	
L4	=		
L5	=		
L6	=	71.76	

Case Head

R	=	1.24	
R1	=	12.01	
R3	=		
E	=	3.40	
E1	=	10.36	
e min	=	0.94	
δ	=	34°	
f	=	0.38	
β	=	35°	

Powder Chamber

P1	=	12.01	
P2 1)*	=	10.91	-0.20

Junction Cone

α *	=	52°	
S *	=	55.00	
r1 min	=	0.64	
r2	=	2.54	

Collar

H1 *	=	7.01	
H2 1)	=	7.01	

Projectile

G1 1)	=	6.18	
G2	=		
F	=		
L3+G 1)	=	61.24	

Pressures (Energies)
Method Transducer

Pmax	=	4300	bar
PK	=	4945	bar
PE	=	5375	bar
M	=	25.00	
EE	=	3180	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10	
delta L	=	0.10	

CHAMBER MINI

Lengths

L1	=	43.66
L2	=	47.66
L3 1)	=	57.25

Breech

R	=	
R1	=	12.14
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	3.40
P1 1)	=	12.04
P2 *	=	10.96

Junction Cone

α 1)*	=	52°
S *	=	54.90
r1 max	=	0.64
r2	=	3.18

Collar

H1 *	=	7.06
H2 1)	=	7.04

Commencement of Rifling

G1 1)*	=	6.19
G 1)	=	4.52
α1 *	=	90°
h	=	0.43
s	=	3.00
i 1)*	=	3°
w	=	

Barrel

F 1)*	=	6.02
Z 1)	=	6.17

Grooves

b	=	2.29	
N	=	6	
u	=	228.60	
Q	=	29.48	mm²

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

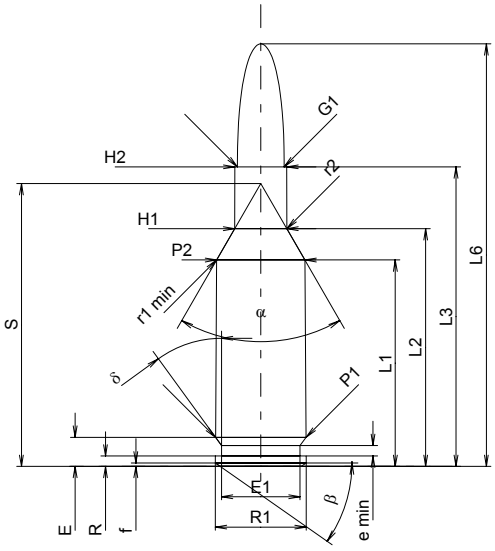
Notes: 1) Check for safety reasons
* Basic dimensions

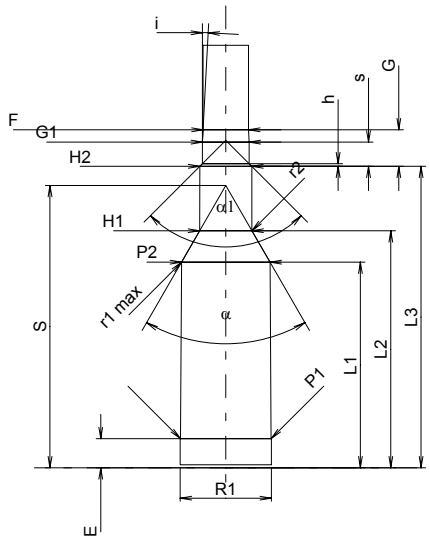
C.I.P.

6 mm BR Rem.

Country of Origin: US

TAB.	**I**
Date	**94-03-01**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

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	=		

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)	=	4.82	
α1 *	=	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

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

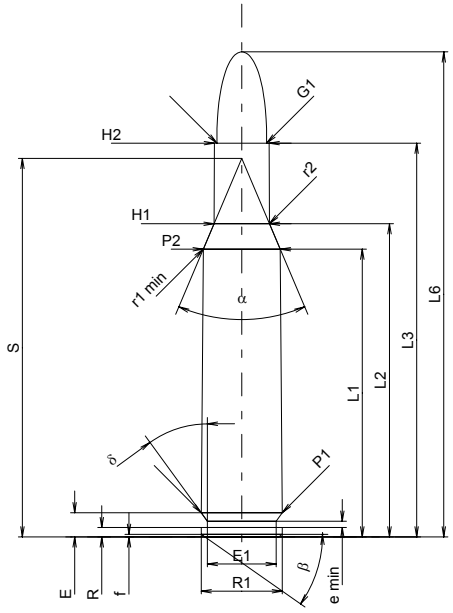
Notes: 1) Check for safety reasons
* Basic dimensions

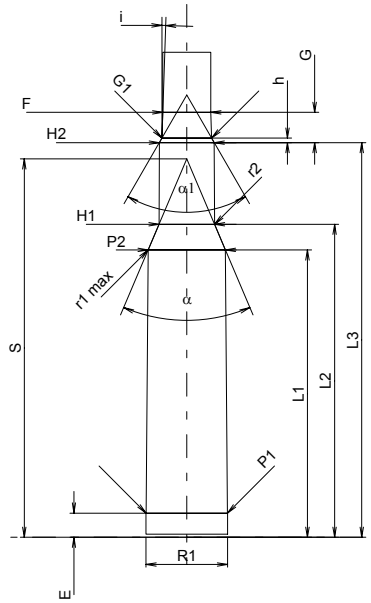
C.I.P.

25 Rem.

Country of Origin: US

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





Scale 1:1

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	mm²

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

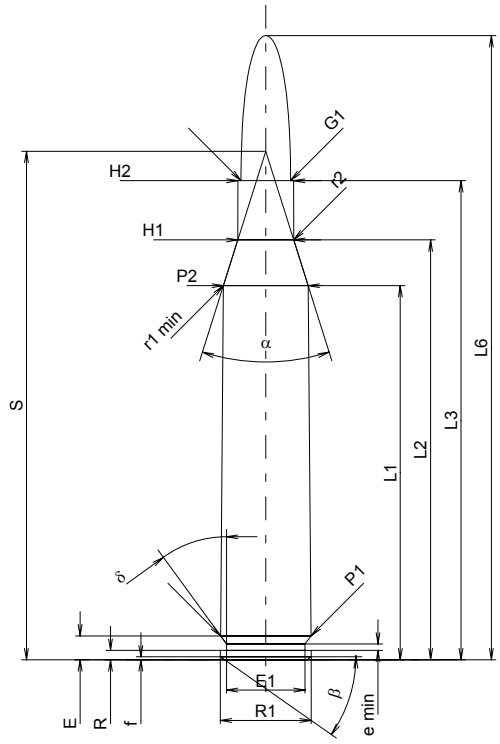
Notes: 1) Check for safety reasons
* Basic dimensions

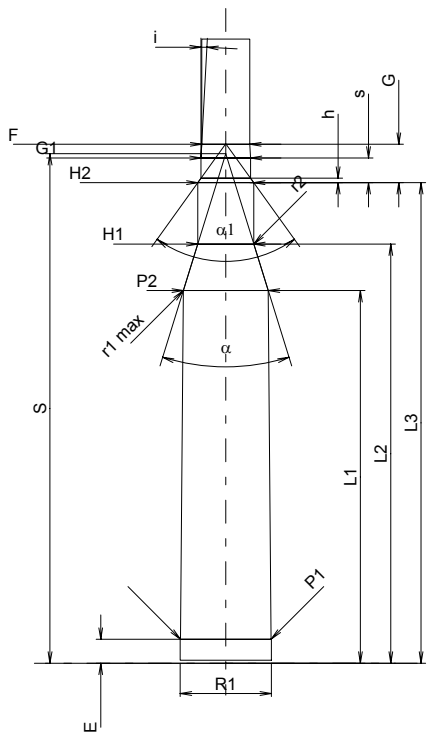
C.I.P.

25-06 Rem.

Country of Origin: US

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





Scale 1:1

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	
δ	=	36°	
f	=	0.38	
β	=	35°	

Powder Chamber

P1	=	11.96	
P2 1)*	=	11.20	-0.20

Junction Cone

α *	=	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

α 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
α1 *	=	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	mm²

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

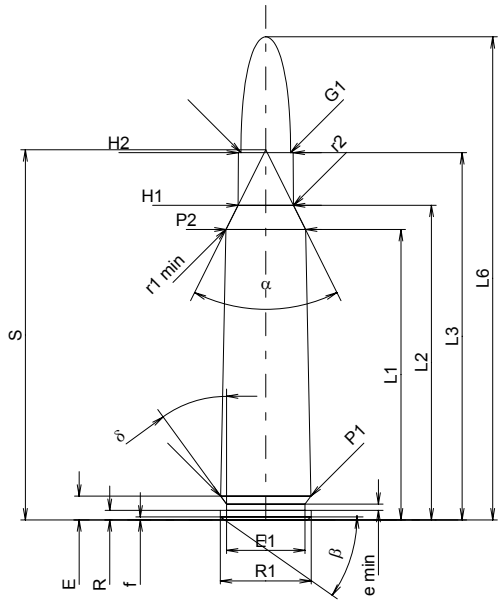
Notes: 1) Check for safety reasons
* Basic dimensions

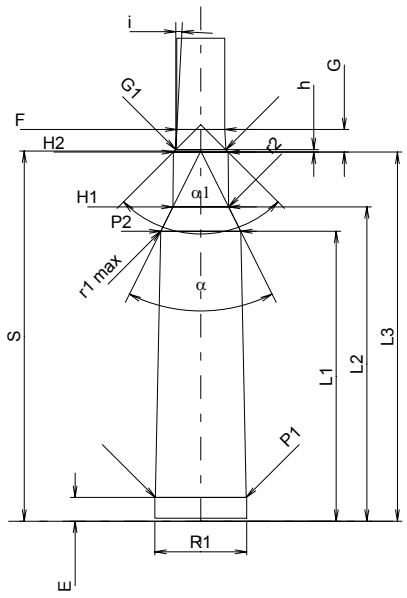
C.I.P.

250 Savage

Country of Origin: US

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





Scale 1:1

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	mm²

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

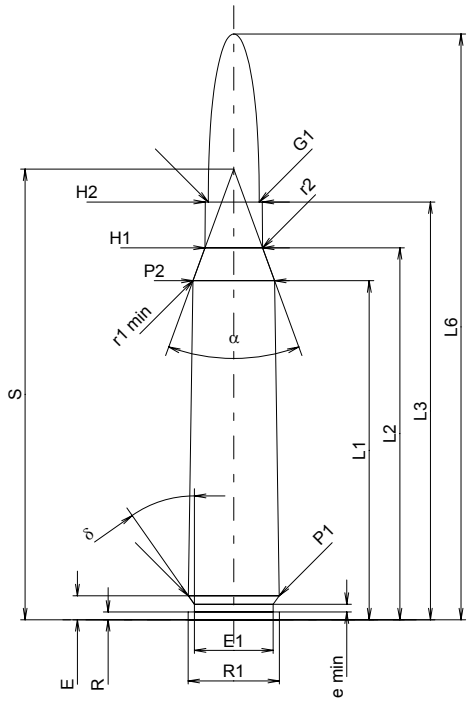
Notes: 1) Check for safety reasons
* Basic dimensions

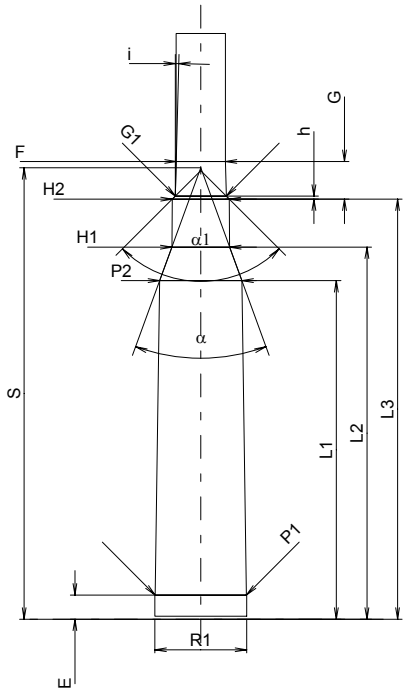
C.I.P.

256 Mag. Gibbs

Country of Origin: GB

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





Scale 1:1

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	mm²

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

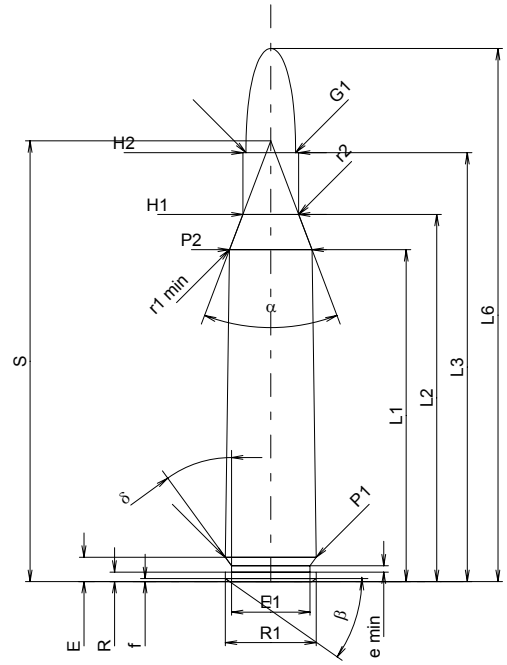
Notes: 1) Check for safety reasons
* Basic dimensions

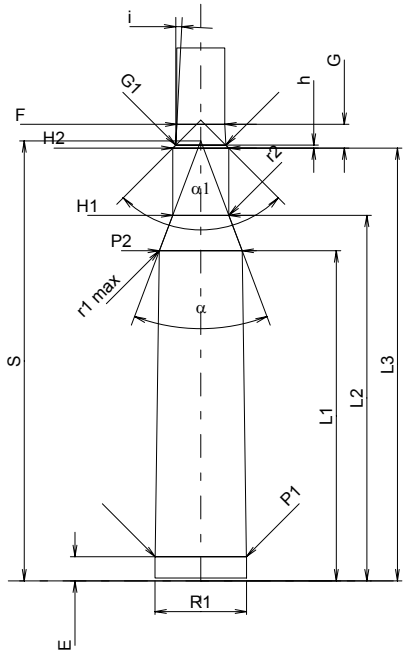
C.I.P.

257 Roberts

Country of Origin: US

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





Scale 1:1

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	mm²

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

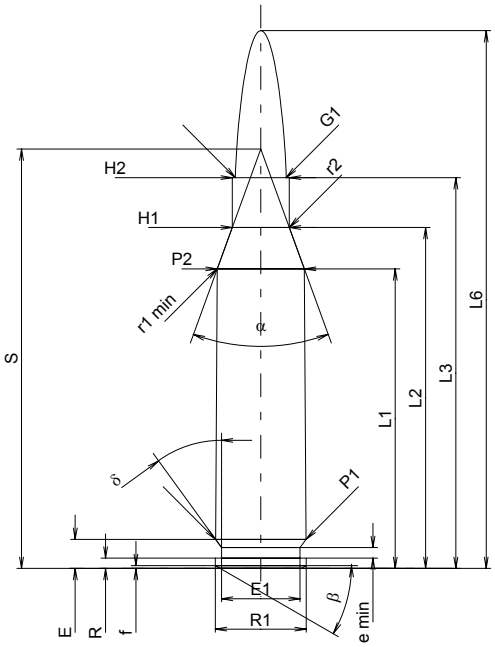
Notes: 1) Check for safety reasons
* Basic dimensions

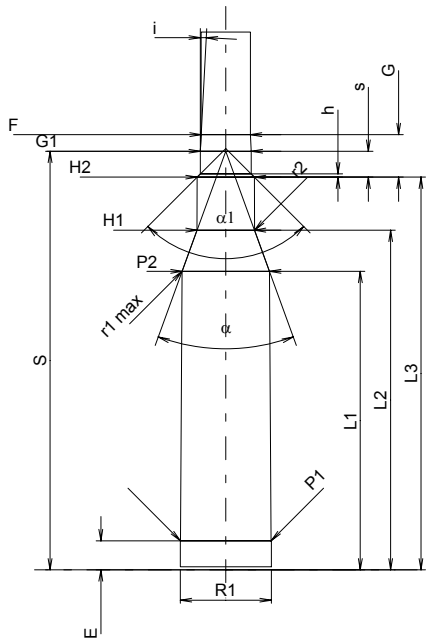
C.I.P.

260 Rem.

Country of Origin: US

TAB.	**I**
Date	**98-02-09**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	39.62	-0.20
L2 1)	=	45.10	-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	=	30°	

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 *	=	7.54	
H2 1)	=	7.54	

Projectile

G1 1)	=	6.72	
G2	=		
F	=		
L3+G 1)	=	57.31	

Pressures (Energies)
Method Transducer

Pmax	=	4150	bar
PK	=	4773	bar
PE	=	5190	bar
M	=	25.00	
EE	=	2770	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1	=	39.48	
L2	=	44.93	
L3 1)	=	51.94	

Breech

R	=		
R1	=	12.03	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.85	
P1 1)	=	11.98	
P2 *	=	11.56	

Junction Cone

α 1)*	=	40°	
S *	=	55.36	
r1 max	=	0.76	
r2	=	3.81	

Collar

H1 *	=	7.59	
H2 1)	=	7.57	

Commencement of Rifling

G1 1)*	=	6.73	
G 1)	=	5.62	
α1	=	90°	
h	=	0.42	
s *	=	3.43	
i 1)*	=	3°	
w	=		

Barrel

F 1)*	=	6.50	
Z 1)	=	6.71	

Grooves

b	=	2.42	
N	=	6	
u	=	229.00	
Q	=	34.74	mm²

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

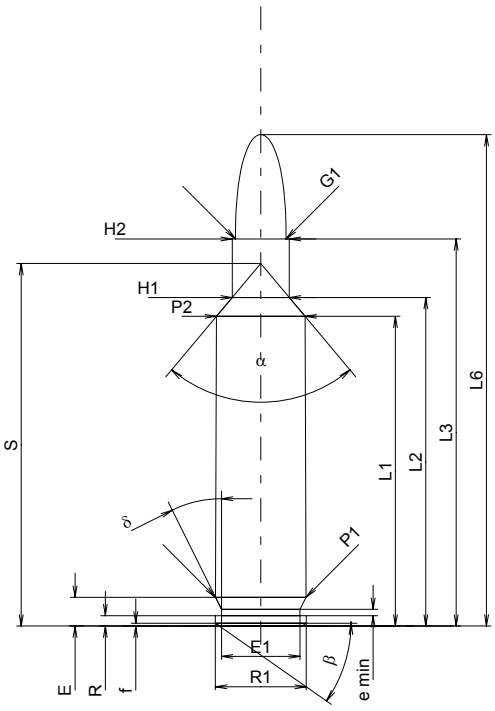
Notes: 1) Check for safety reasons
* Basic dimensions

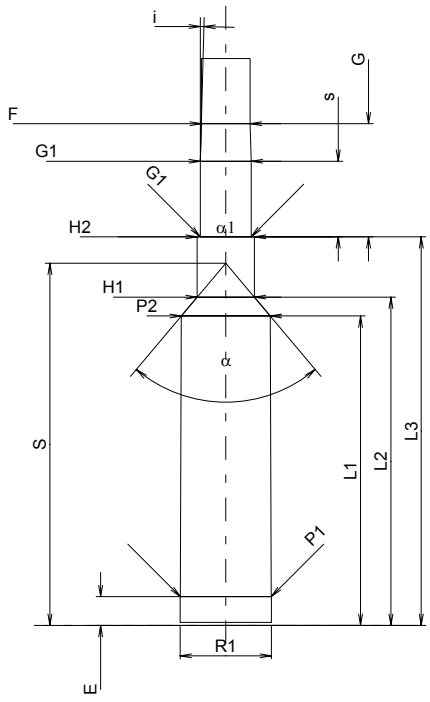
C.I.P.

264 Leroy N.E.

Country of Origin: DE

TAB.	**I**
Date	**94-03-01**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)*	=	40.96	-0.20
L2 1)*	=	43.45	-0.20
L3 1)	=	51.20	
L4	=		
L5	=		
L6	=	65.00	

Case Head

R	=	1.37
R1	=	12.01
R3	=	
E	=	3.80
E1	=	10.39
e min	=	0.84
δ	=	36°
f	=	0.38
β	=	35°

Powder Chamber

P1	=	11.97	
P2 1)*	=	11.72	-0.20

Junction Cone

α	=	80°01'02"
S	=	47.94
r1 min	=	
r2	=	

Collar

H1 *	=	7.54
H2 1)	=	7.54

Projectile

G1 1)	=	6.70
G2	=	
F	=	
L3+G 1)	=	66.16

Pressures (Energies)
Method Transducer

Pmax	=	4400	bar
PK	=	5060	bar
PE	=	5500	bar
M	=	25.00	
EE	=	3675	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10
delta L	=	

CHAMBER MINI

Lengths

L1 *	=	40.93
L2 *	=	43.42
L3 1)	=	51.40

Breech

R	=	1.37
R1	=	12.05
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	3.80
P1 1)	=	12.00
P2 *	=	11.75

Junction Cone

α 1)	=	80°09'07"
S	=	47.91
r1 max	=	
r2	=	

Collar

H1 *	=	7.56
H2 1)	=	7.56

Commencement of Rifling

G1 1)*	=	6.71
G 1)*	=	14.96
α1	=	180°
h	=	
s *	=	10.00
i 1)	=	1°30'05"
w	=	

Barrel

F 1)*	=	6.45
Z 1)	=	6.70

Grooves

b	=	1.30	
N	=	4	
u	=	200.00	
Q	=	33.33	mm²

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

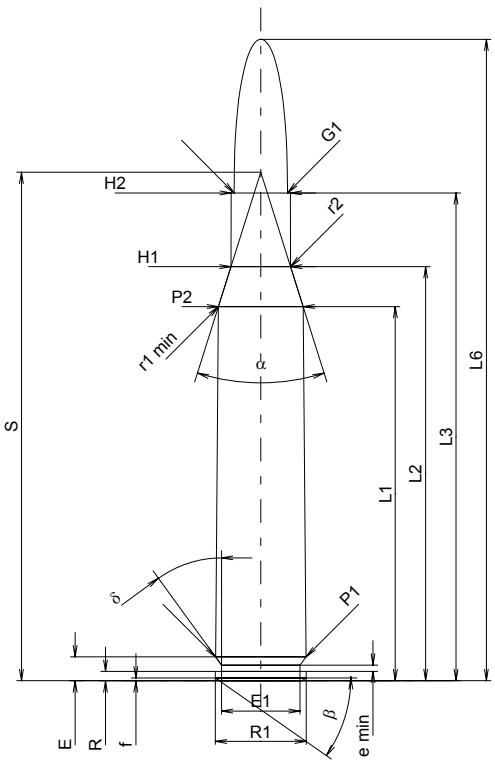
Notes: 1) Check for safety reasons
* Basic dimensions

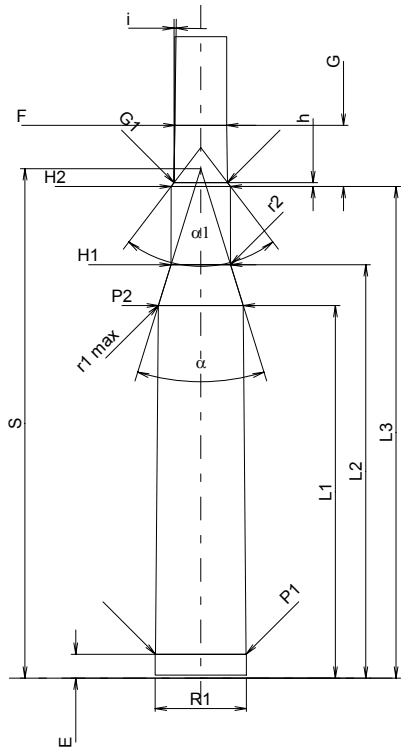
C.I.P.

270 Win.

Country of Origin: US

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





Scale 1:1

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	
δ	=	36°	
f	=	0.38	
β	=	35°	

Powder Chamber

P1	=	11.96	
P2 1)*	=	11.20	-0.20

Junction Cone

α *	=	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

α 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	
α1 *	=	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	mm²

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

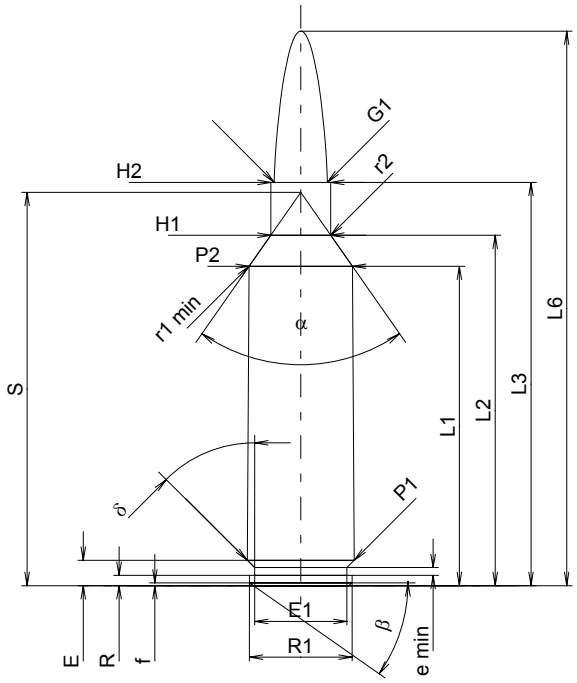
Notes: 1) Check for safety reasons
* Basic dimensions

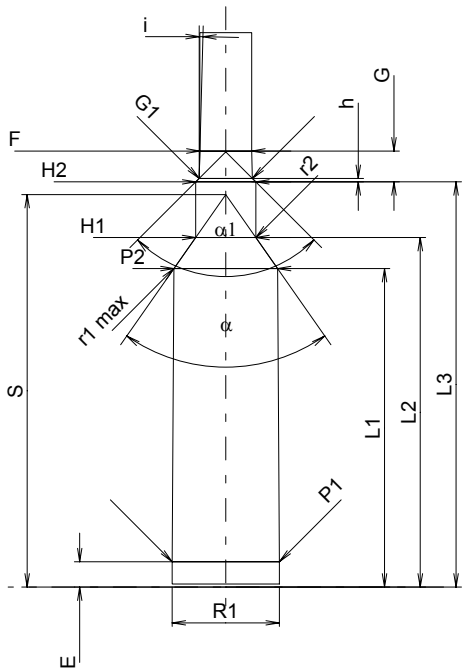
C.I.P.

270 Win. Short Mag.

Country of Origin: US

TAB.	**I**
Date	**02-01-22**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

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	=		

CHAMBER MINI

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	mm²

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

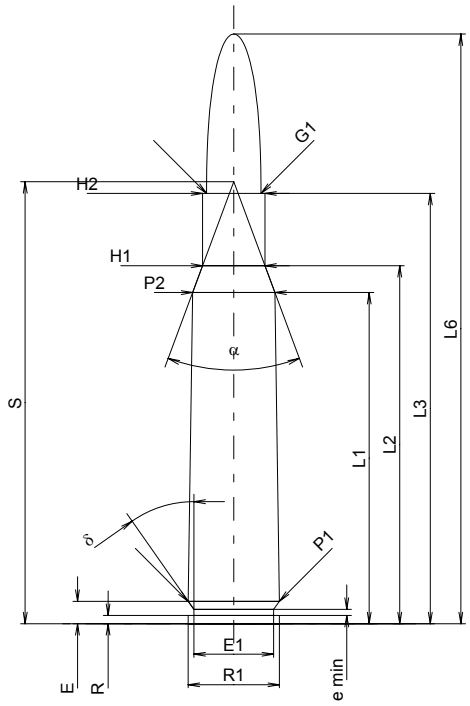
Notes: 1) Check for safety reasons
* Basic dimensions

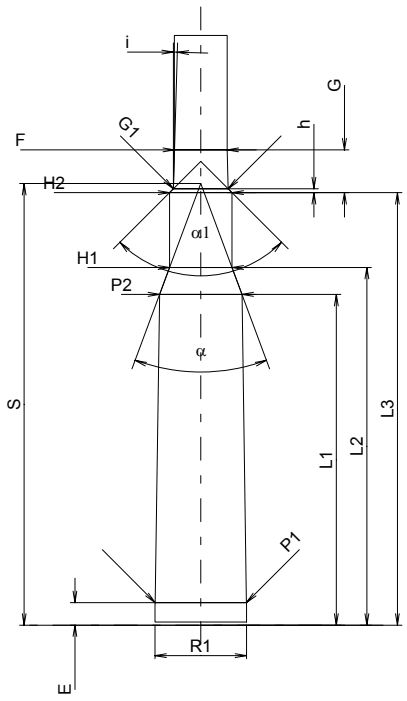
C.I.P.

275 H. V. Rigby

Country of Origin: GB

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





Scale 1:1

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	
δ	=	35°01'48"	
f	=		
β	=		

Powder Chamber

P1	=	12.04	
P2 1)*	=	10.87	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

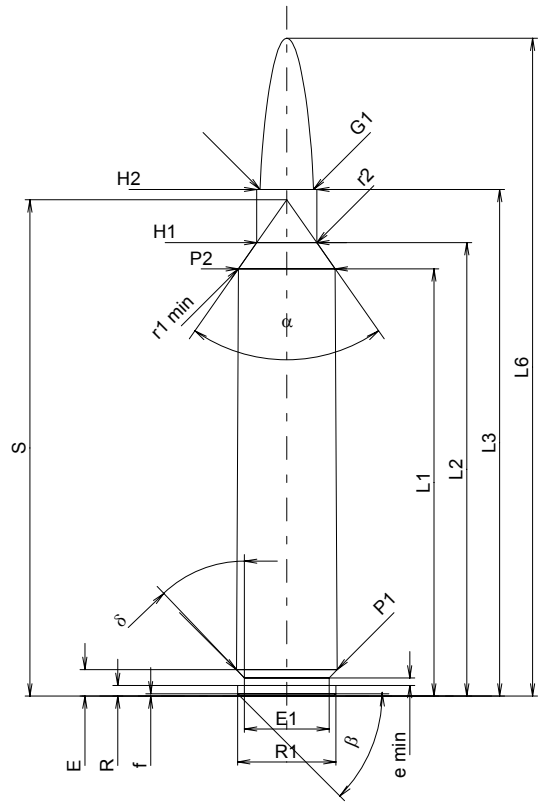
Notes: 1) Check for safety reasons
* Basic dimensions

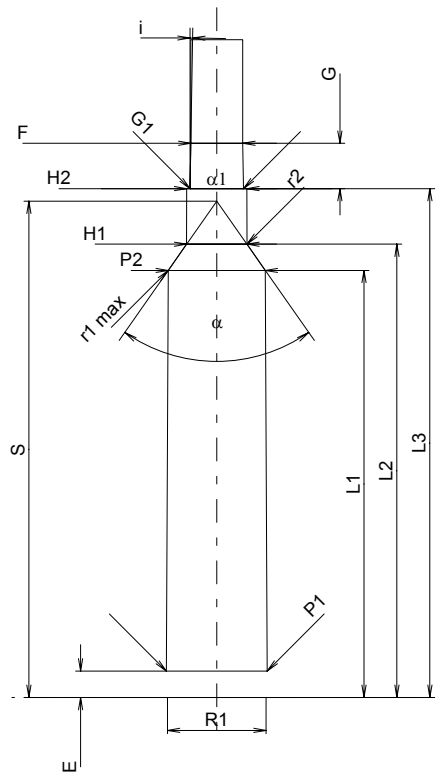
C.I.P.

277 GS

Country of Origin: IT

TAB.	**I**
Date	**96-11-26**
Revision	**02-05-15**





Scale 1:1

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	
δ	=	43°40'04"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	13.30	
P2 1)*	=	12.80	-0.20

Junction Cone

α	=	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

α 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	
α1	=	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	mm²

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

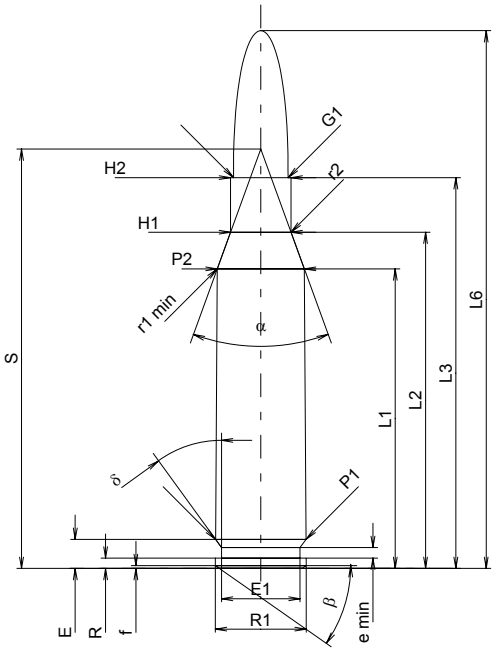
Notes: 1) Check for safety reasons
* Basic dimensions

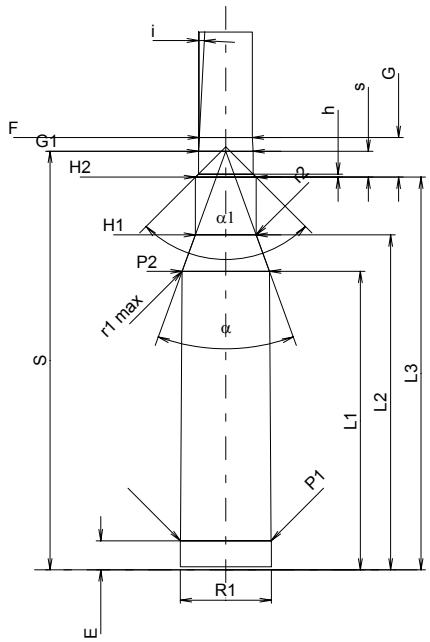
C.I.P.

7 mm - 08 Rem.

Country of Origin: US

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





Scale 1:1

CARTRIDGE MAXI

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	

CHAMBER MINI

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	mm²

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

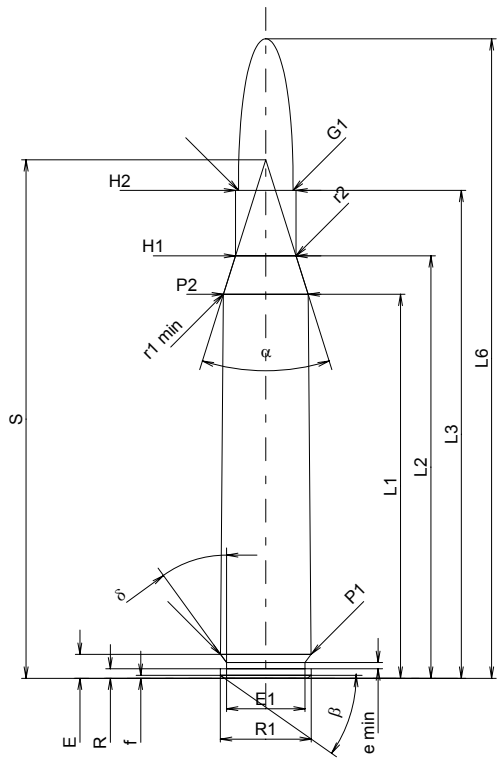
Notes: 1) Check for safety reasons
* Basic dimensions

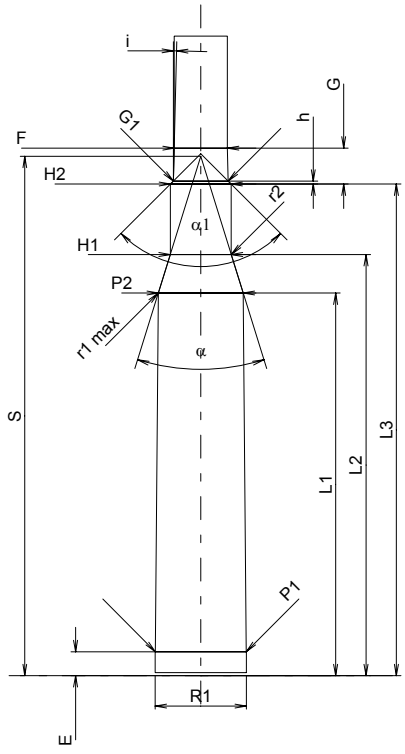
C.I.P.

280 Rem.

Country of Origin: US

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





Scale 1:1

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 *	=	35°	
S *	=	68.56	
r1 min	=	0.64	
r2	=	2.54	

Collar

H1 *	=	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 *	=	11.23

Junction Cone

α 1)*	=	34°30'
S *	=	68.69
r1 max	=	0.64
r2	=	3.18

Collar

H1 *	=	8.07
H2 1)	=	8.02

Commencement of Rifling

G1 1)*	=	7.25
G 1)	=	4.75
α1 *	=	90°
h	=	0.39
s	=	
i 1)*	=	1°22'34"
w	=	

Barrel

F 1)*	=	7.04
Z 1)	=	7.21

Grooves

b	=	4.06	
N	=	4	
u	=	254.00	
Q	=	40.39	mm²

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

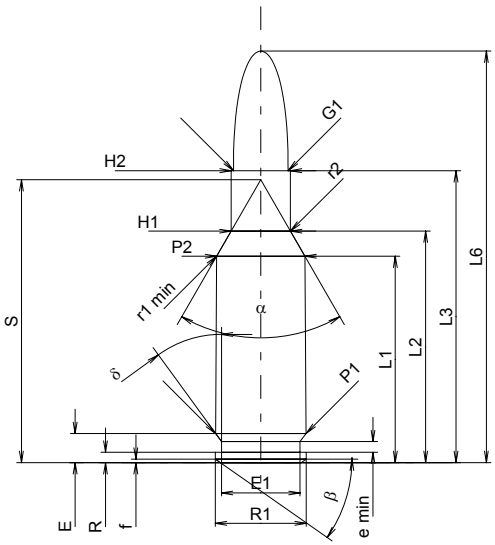
Notes: 1) Check for safety reasons
* Basic dimensions

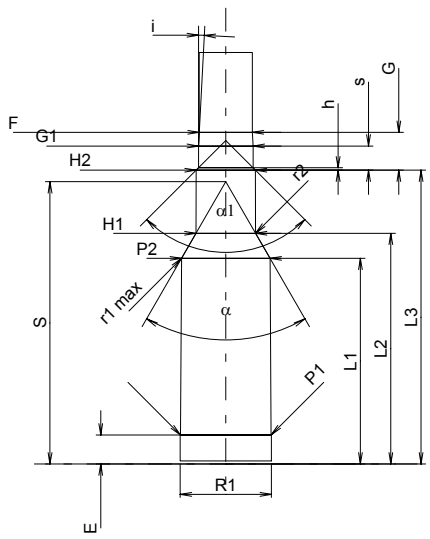
C.I.P.

7 mm BR Rem.

Country of Origin: US

TAB.	**I**
Date	**94-03-01**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	27.30	-0.20
L2 1)	=	30.61	-0.20
L3 1)	=	38.61	
L4	=		
L5	=		
L6	=	54.42	

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 *	=	7.86	
H2 1)	=	7.84	

Projectile

G1 1)	=	7.23	
G2	=		
F	=		
L3+G 1)	=	43.62	

Pressures (Energies)
Method Transducer

Pmax	=	4050	bar
PK	=	4658	bar
PE	=	5060	bar
M	=	17.50	
EE	=	3150	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1	=	27.20	
L2	=	30.52	
L3 1)	=	38.86	

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 *	=	7.87	
H2 1)	=	7.85	

Commencement of Rifling

G1 1)*	=	7.23	
G 1)	=	5.01	
α1 *	=	90°	
h	=	0.31	
s	=	3.20	
i 1)*	=	3°	
w	=		

Barrel

F 1)*	=	7.04	
Z 1)	=	7.21	

Grooves

b	=	2.79	
N	=	6	
u	=	241.30	
Q	=	40.39	mm²

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

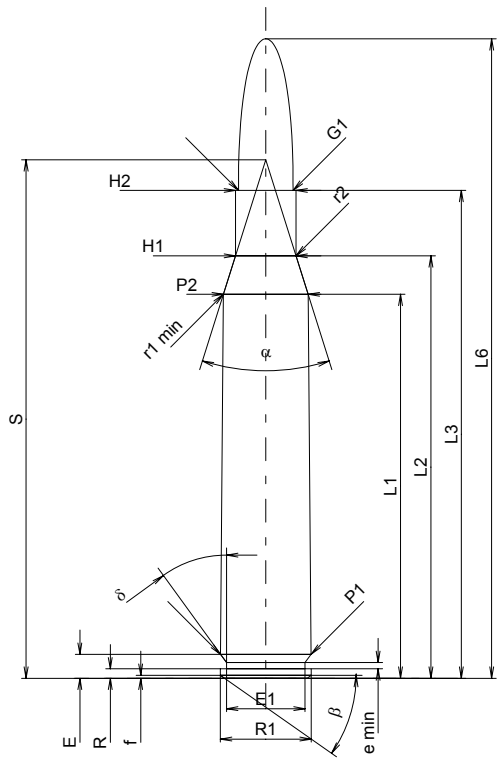
Notes: 1) Check for safety reasons
* Basic dimensions

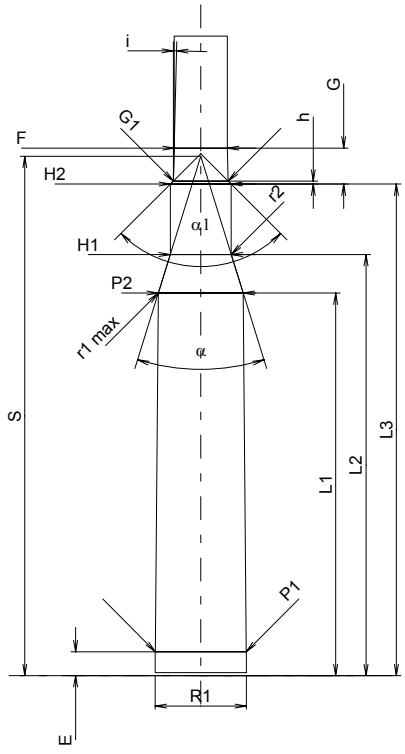
C.I.P.

7 mm Exp. Rem.

Country of Origin: US

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





Scale 1:1

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 *	=	35°	
S *	=	68.56	
r1 min	=	0.64	
r2	=	2.54	

Collar

H1 *	=	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 *	=	11.23

Junction Cone

α 1)*	=	34°30'
S *	=	68.69
r1 max	=	0.64
r2	=	3.18

Collar

H1 *	=	8.07
H2 1)	=	8.02

Commencement of Rifling

G1 1)*	=	7.25
G 1)	=	4.75
α1 *	=	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	mm²

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

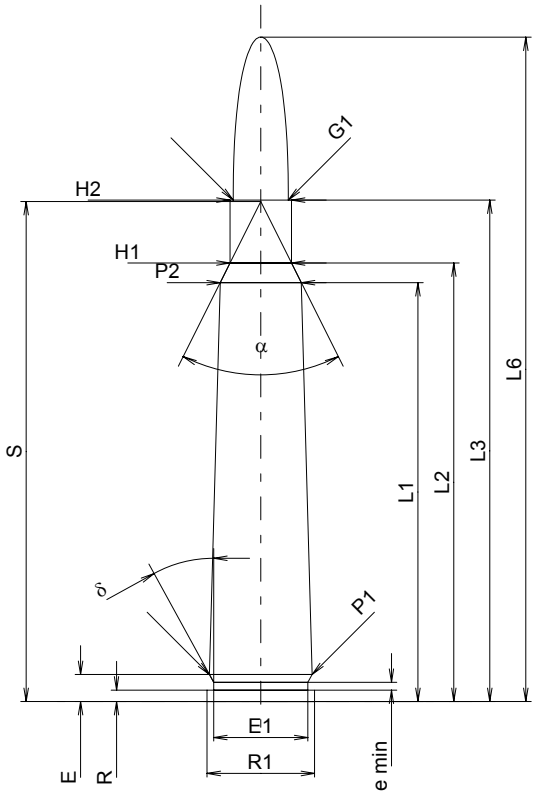
Notes: 1) Check for safety reasons
* Basic dimensions

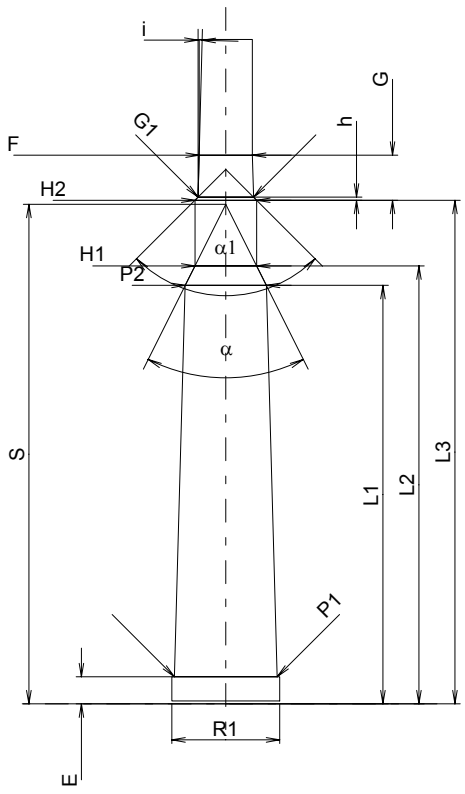
C.I.P.

280 Riml. N. E. Ross

Country of Origin: GB

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





Scale 1:1

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
δ	=	28°43'48"
f	=	
β	=	

Powder Chamber

P1	=	13.59	
P2 1)*	=	10.72	-0.20

Junction Cone

α	=	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

α 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
α1	=	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

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

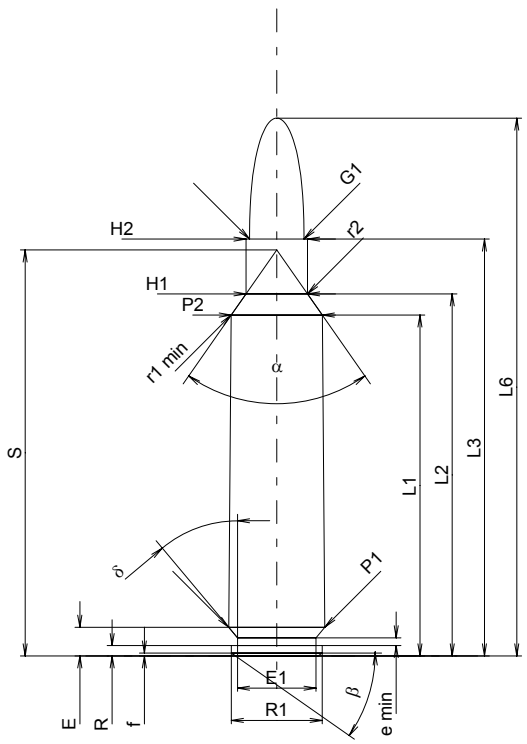
Notes: 1) Check for safety reasons
* Basic dimensions

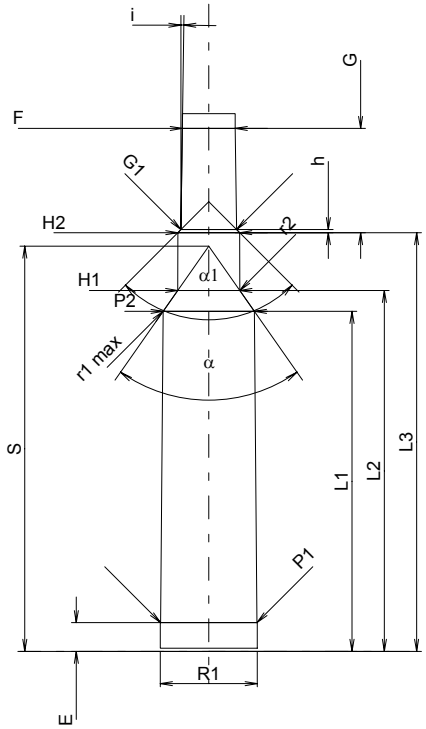
C.I.P.

284 Win.

Country of Origin: US

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





Scale 1:1

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

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

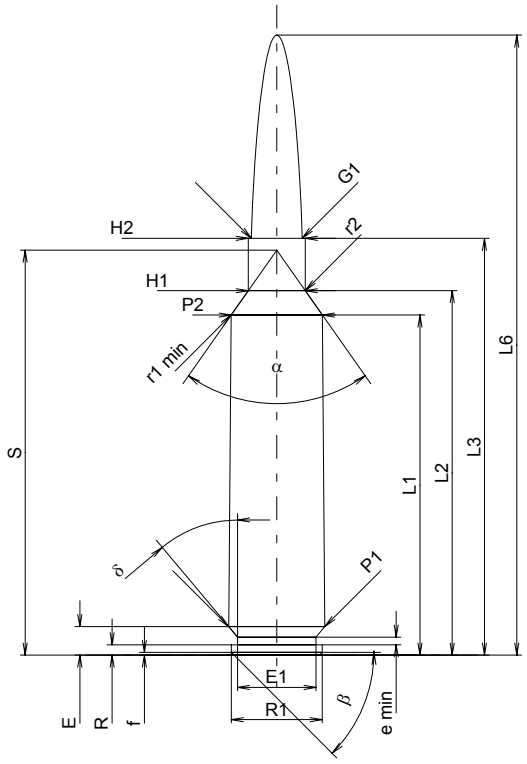
Notes: 1) Check for safety reasons
* Basic dimensions

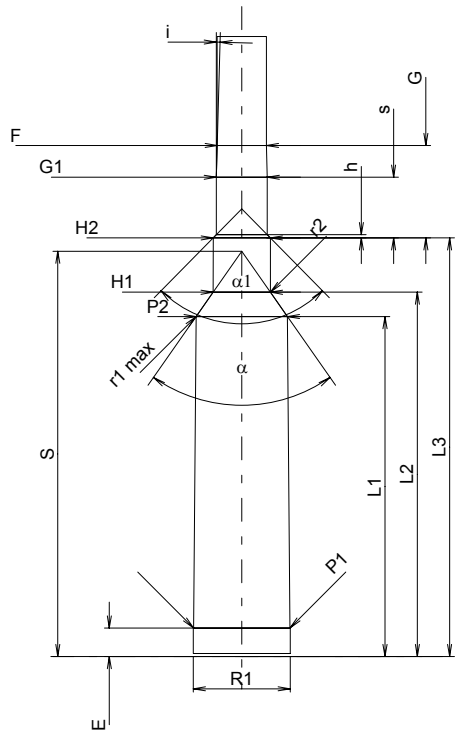
C.I.P.

6,5 - 284 Norma

Country of Origin: SE

TAB.	**I**
Date	**00-02-15**
Revision	**02-05-15**





Scale 1:1

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	
δ	=	40°	
f	=	0.35	
β	=	45°	

Powder Chamber

P1	=	12.72	
P2 1)*	=	12.06	-0.20

Junction Cone

α *	=	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

α 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
α1 *	=	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	mm²

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

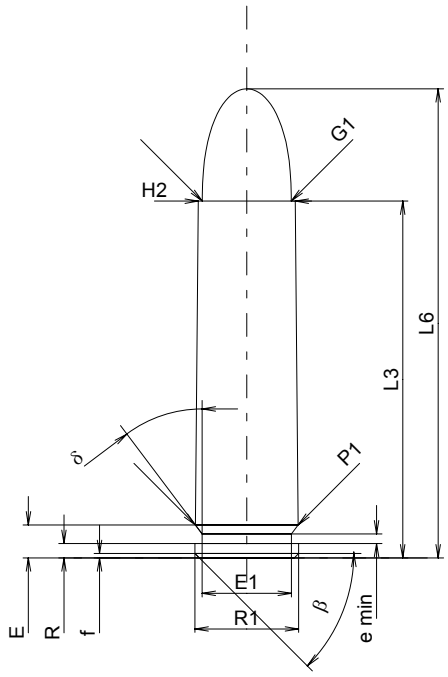
Notes: 1) Check for safety reasons
* Basic dimensions

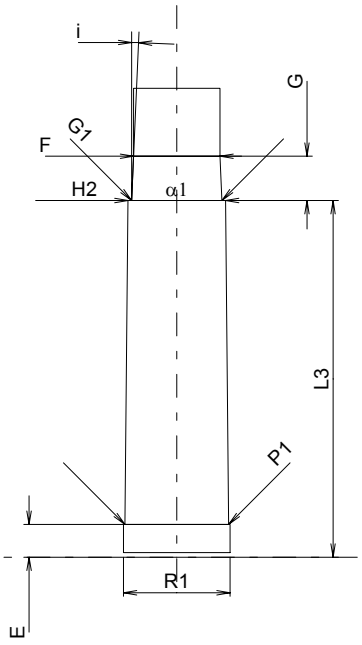
C.I.P.

30 Court

Country of Origin: DE

TAB.	**I**
Date	**91-05-17**
Revision	**02-05-15**





Scale 1.5:1

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	mm²

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

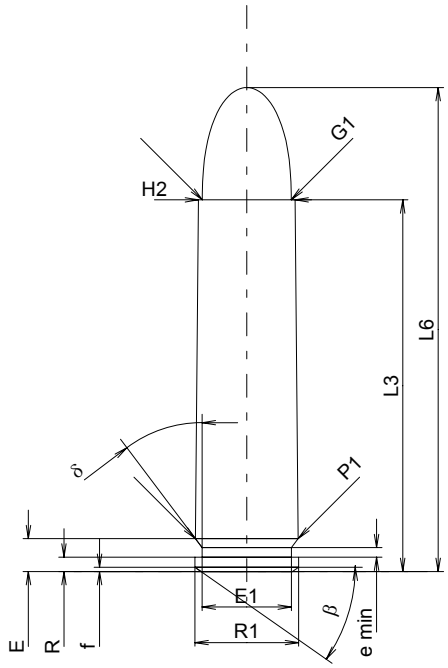
Notes: 1) Check for safety reasons
* Basic dimensions

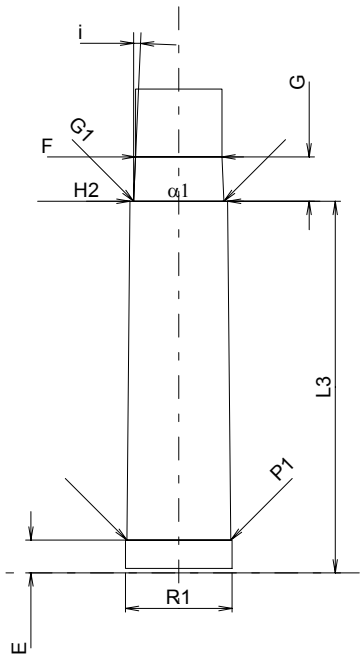
C.I.P.

30 Carbine

Country of Origin: US

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





Scale 1.5:1

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	mm²

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

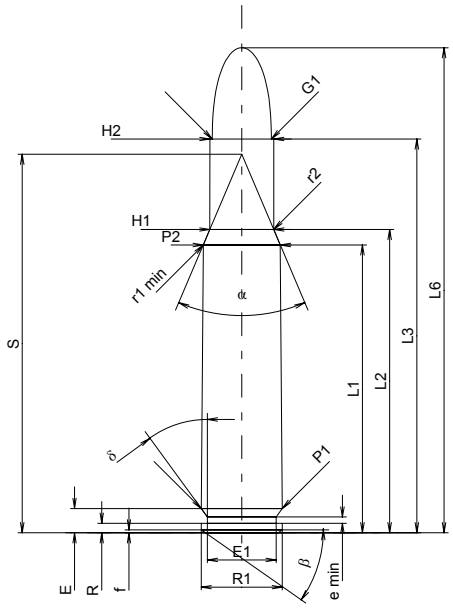
Notes: 1) Check for safety reasons
* Basic dimensions

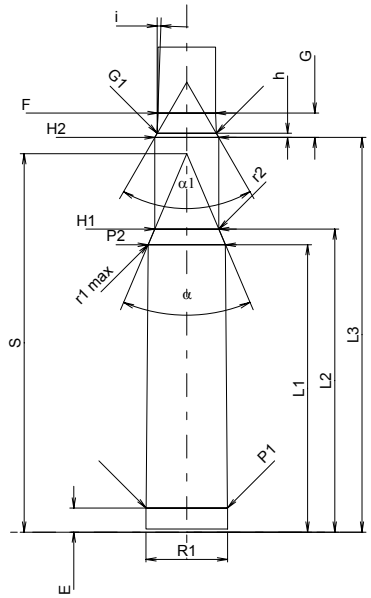
C.I.P.

30 Rem.

Country of Origin: US

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





Scale 1:1

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	mm²

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

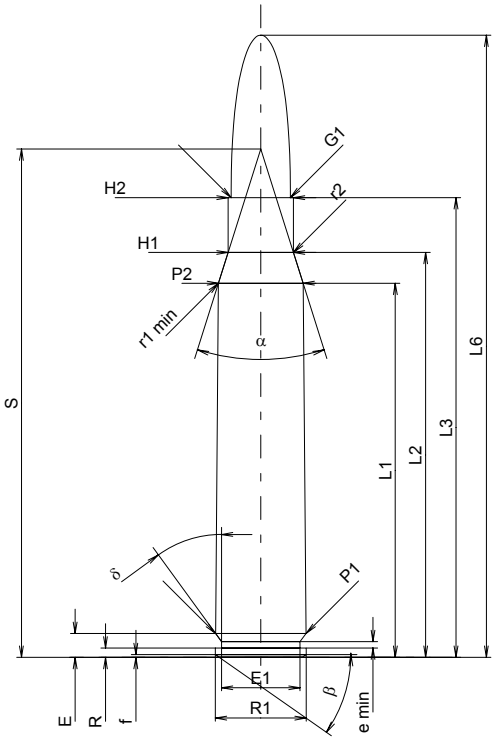
Notes: 1) Check for safety reasons
* Basic dimensions

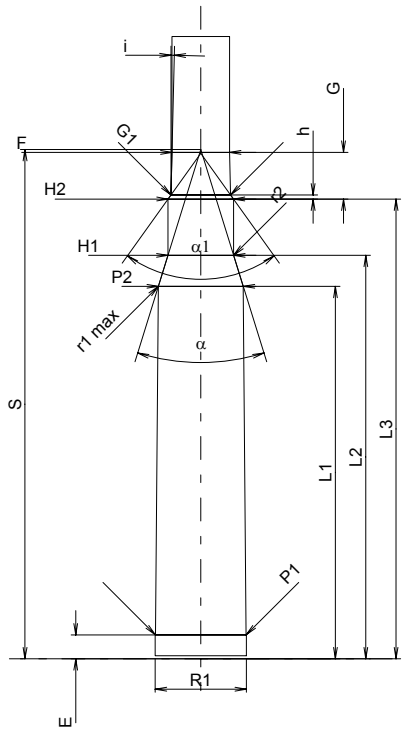
C.I.P.

30-06 Court Cartry

Country of Origin: FR

TAB.	**I**
Date	**95-12-10**
Revision	**02-05-15**





Scale 1:1

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
δ	=	36°
f	=	0.38
β	=	35°

Powder Chamber

P1	=	11.96	
P2 1)*	=	11.20	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

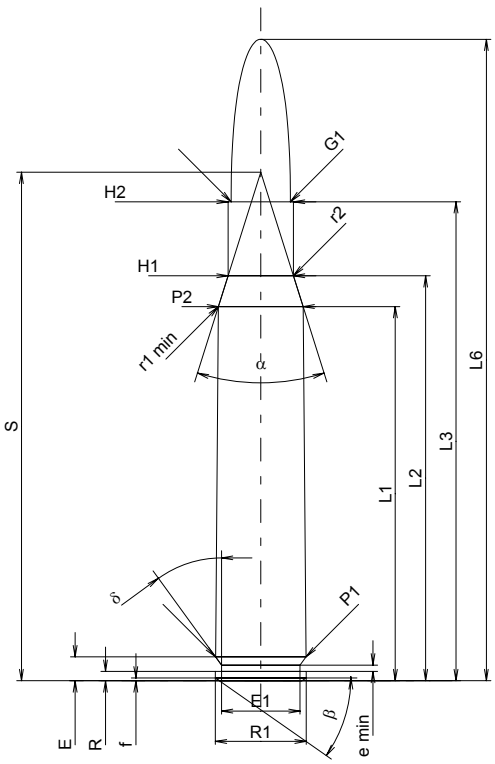
Notes: 1) Check for safety reasons
* Basic dimensions

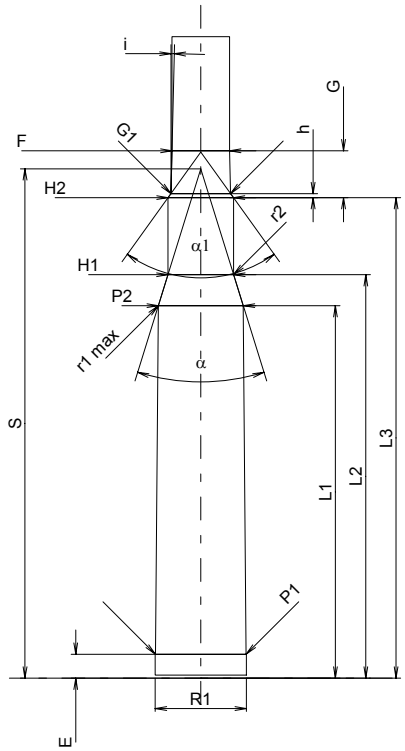
C.I.P.

30-06 Spring.

Country of Origin: US

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





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	49.49	-0.20
L2 1)	=	53.56	-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	=	0.38	
β	=	35°	

Powder Chamber

P1	=	11.96	
P2 1)*	=	11.20	-0.20

Junction Cone

α *	=	35°	
S *	=	67.25	
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)	=	69.54	

Pressures (Energies)
Method Transducer

Pmax	=	4050	bar
PK	=	4658	bar
PE	=	5060	bar
M	=	25.00	
EE	=	4335	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10	
delta L	=	0.15	

CHAMBER MINI

Lengths

L1	=	49.27	
L2	=	53.36	
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

α 1)*	=	34°30'	
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)	=	6.19	
α1 *	=	71°25'48"	
h	=	0.53	
s	=		
i 1)*	=	1°22'	
w	=		

Barrel

F 1)*	=	7.62	
Z 1)	=	7.82	

Grooves

b	=	4.49	
N	=	4	
u	=	254.00	
Q	=	47.55	mm²

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

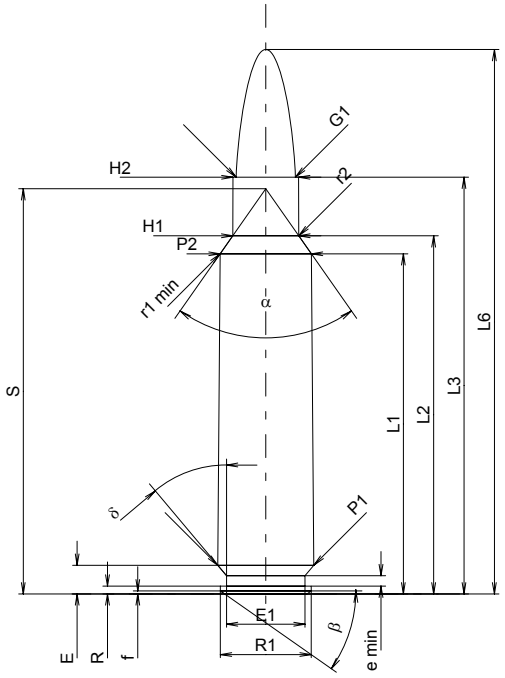
Notes: 1) Check for safety reasons
* Basic dimensions

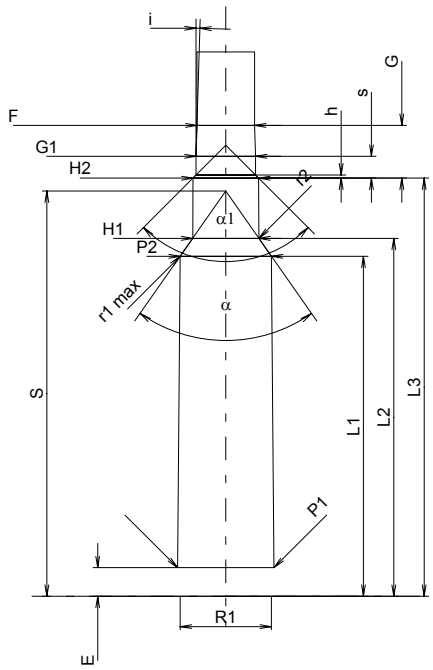
C.I.P.

30 - 284 Win.

Country of Origin: US

TAB.	**I**
Date	**98-02-09**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	44.98	-0.20
L2 1)	=	47.36	-0.20
L3 1)	=	55.10	
L4	=		
L5	=		
L6	=	72.00	

Case Head

R	=	1.02	
R1	=	12.01	
R3	=		
E	=	3.78	
E1	=	10.39	
e min	=	1.37	
δ	=	40°	
f	=	0.38	
β	=	35°	

Powder Chamber

P1	=	12.72	
P2 1)*	=	12.06	-0.20

Junction Cone

α *	=	70°	
S *	=	53.59	
r1 min	=	0.80	
r2	=	3.20	

Collar

H1 *	=	8.72	
H2 1)	=	8.67	

Projectile

G1 1)	=	7.85	
G2	=		
F 1)	=		
L3+G	=	62.08	

Pressures (Energies)
Method Transducer

Pmax	=	3800	bar
PK	=	4370	bar
PE	=	4750	bar
M	=	25.00	
EE	=	4300	Joule

Miscellaneous Dimensions

Fe 1)	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1	=	44.96	
L2	=	47.34	
L3 1)	=	55.30	

Breech

R	=		
R1	=	12.04	
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	=	0.80	
r2	=	3.20	

Collar

H1 *	=	8.75	
H2 1)	=	8.70	

Commencement of Rifling

G1 1)*	=	7.87	
G 1)	=	6.98	
α1	=	90°	
h	=	0.42	
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	mm²

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

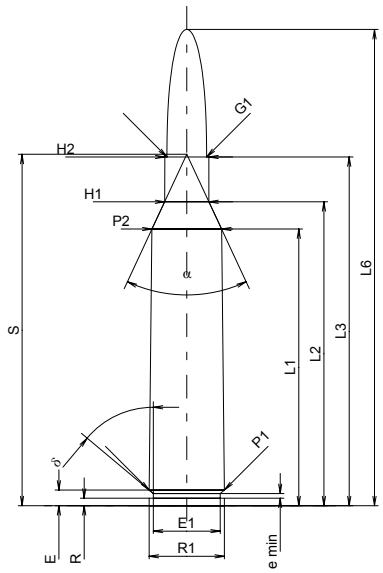
Notes: 1) Check for safety reasons
* Basic dimensions

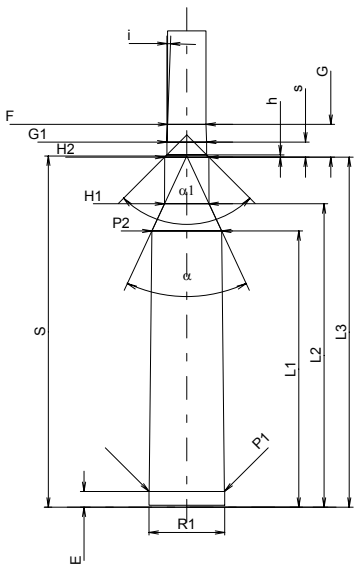
C.I.P.

300 Lapua Mag.

Country of Origin: FI

TAB.	**I**
Date	**89-10-06**
Revision	**02-05-15**





Scale 1:1.5

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	
δ	=	50°	
f	=		
β	=	45°	

Powder Chamber

P1	=	14.91	
P2 1)*	=	13.82	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

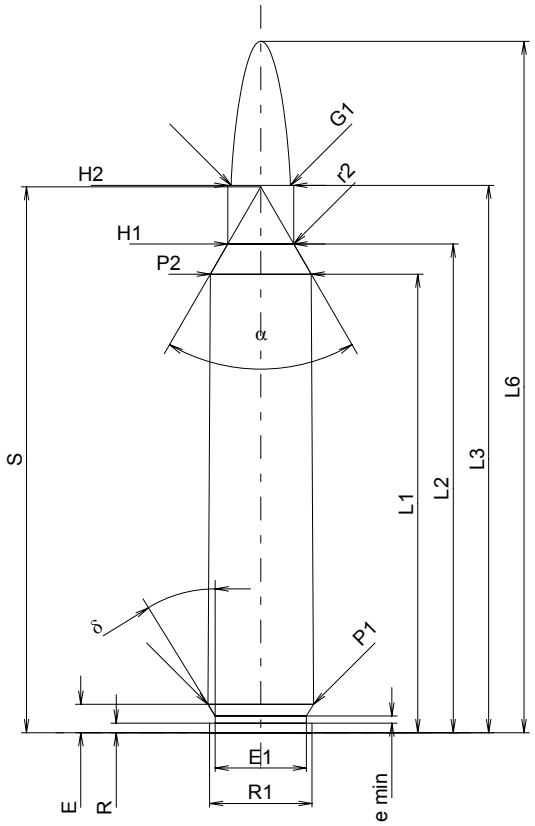
Notes: 1) Check for safety reasons
* Basic dimensions

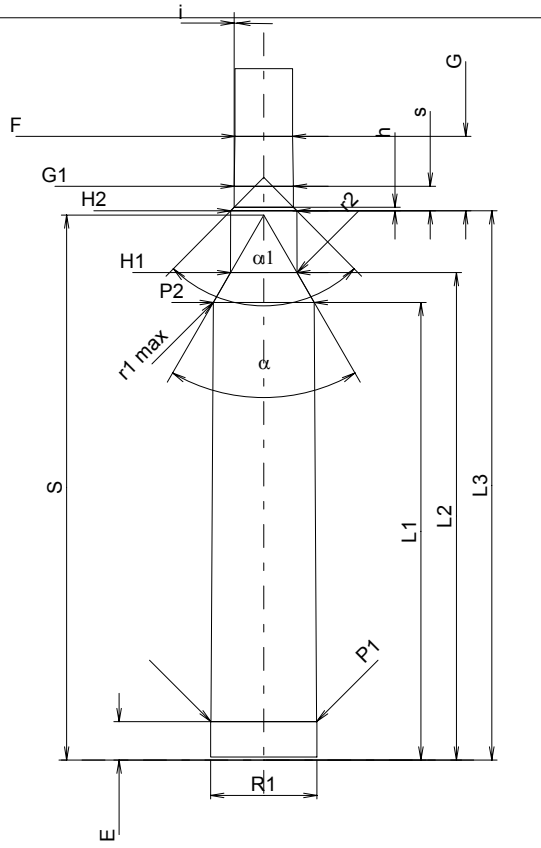
C.I.P.

300 Rem. Ultra Mag.

Country of Origin: US

TAB.	**I**
Date	**98-11-03**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	60.64	-0.20
L2 1)	=	64.62	-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	=		
β	=	35°	

Powder Chamber

P1	=	13.97	
P2 1)*	=	13.34	-0.20

Junction Cone

α *	=	60°	
S *	=	72.19	
r1 min	=		
r2	=	3.17	

Collar

H1 *	=	8.74	
H2 1)	=	8.74	

Projectile

G1 1)	=	7.85	
G2	=		
F	=		
L3+G 1)	=	82.23	

Pressures (Energies)
Method Transducer

Pmax	=	4480	bar
PK	=	5152	bar
PE	=	5600	bar
M	=	25.00	
EE	=	5985	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10	
delta L	=	0.22	

CHAMBER MINI

Lengths

L1	=	60.51	
L2	=	64.47	
L3 1)	=	72.64	

Breech

R	=		
R1	=	14.05	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	5.08	
P1 1)	=	14.00	
P2 *	=	13.36	

Junction Cone

α 1)*	=	60°	
S *	=	72.08	
r1 max	=	0.78	
r2	=	3.18	

Collar

H1 *	=	8.79	
H2 1)	=	8.76	

Commencement of Rifling

G1 1)*	=	7.85	
G 1)	=	9.84	
α1 *	=	89°22'26"	
h	=	0.46	
s	=	3.25	
i 1)*	=	1°	
w	=		

Barrel

F 1)*	=	7.62	
Z 1)	=	7.82	

Grooves

b	=	2.92	
N	=	6	
u	=	254.00	
Q	=	47.40	mm²

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

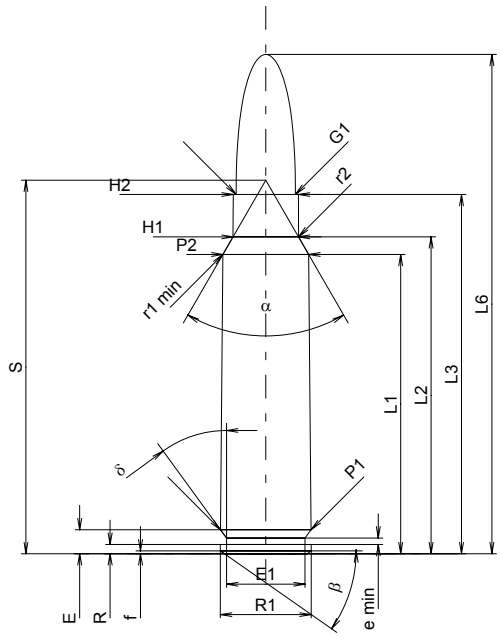
Notes: 1) Check for safety reasons
* Basic dimensions

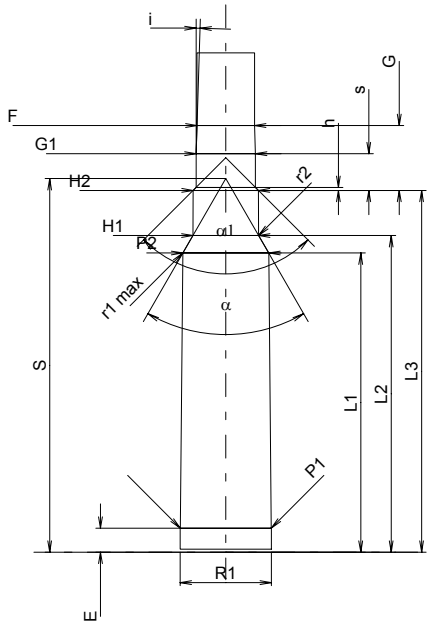
C.I.P.

300 Savage

Country of Origin: US

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





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	39.59	-0.20
L2 1)	=	41.92	-0.20
L3 1)	=	47.52	
L4	=		
L5	=		
L6	=	66.04	

Case Head

R	=	1.24	
R1	=	12.01	
R3	=		
E	=	3.18	
E1	=	10.39	
e min	=	0.84	
δ	=	36°	
f	=	0.38	
β	=	35°	

Powder Chamber

P1	=	11.99	
P2 1)*	=	11.34	-0.20

Junction Cone

α *	=	60°	
S *	=	49.41	
r1 min	=	0.76	
r2	=	3.18	

Collar

H1 *	=	8.65	
H2 1)	=	8.61	

Projectile

G1 1)	=	7.85	
G2	=		
F	=		
L3+G 1)	=	56.10	

Pressures (Energies)
Method Transducer

Pmax	=	3650	bar
PK	=	4198	bar
PE	=	4560	bar
M	=	25.00	
EE	=	3525	Joule

Miscellaneous Dimensions

Fe 1)	=	0.15	
delta L	=		

CHAMBER MINI

Lengths

L1	=	39.57	
L2	=	41.88	
L3 1)	=	47.85	

Breech

R	=		
R1	=	12.07	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.18	
P1 1)	=	12.02	
P2 *	=	11.36	

Junction Cone

α 1)*	=	60°	
S *	=	49.41	
r1 max	=	0.76	
r2	=	3.18	

Collar

H1 *	=	8.69	
H2 1)	=	8.64	

Commencement of Rifling

G1 1)*	=	7.86	
G 1)	=	8.58	
α1 *	=	90°	
h	=	0.39	
s	=	4.85	
i 1)*	=	1°43'	
w	=		

Barrel

F 1)*	=	7.62	
Z 1)	=	7.82	

Grooves

b	=	2.41	
N	=	6	
u	=	305.00	
Q	=	47.10	mm²

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

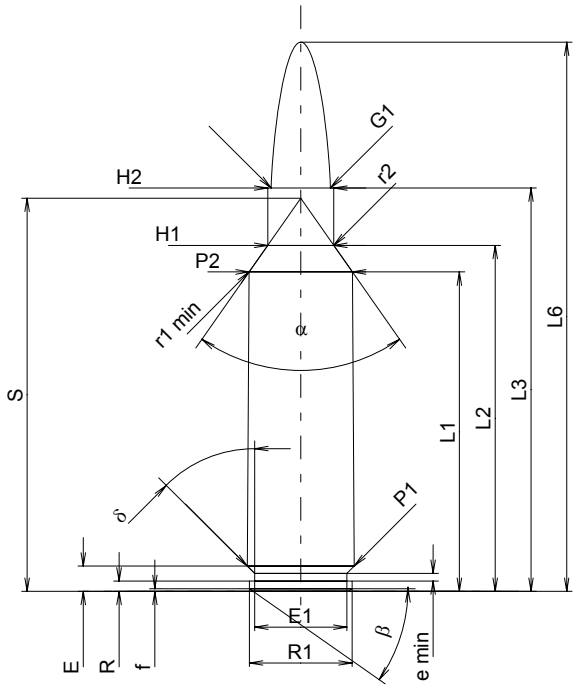
Notes: 1) Check for safety reasons
* Basic dimensions

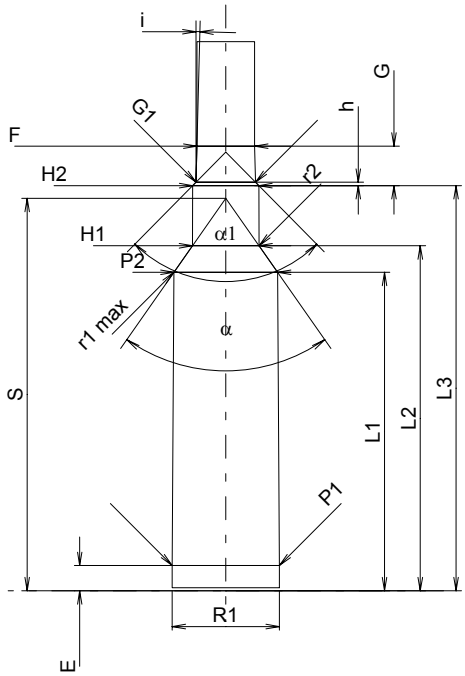
C.I.P.

300 Win. Short Mag.

Country of Origin: US

TAB.	I
Date	02-01-22
Revision	02-05-15





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	42.25	-0.20
L2 1)	=	45.77	-0.20
L3 1)	=	53.34	
L4	=		
L5	=		
L6	=	72.64	

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 *	=	8.74	
H2 1)	=	8.74	

Projectile

G1 1)	=	7.85	
G2	=		
F	=		
L3+G 1)	=	58.56	

Pressures (Energies)
Method Transducer

Pmax	=	4450	bar
PK	=	5118	bar
PE	=	5563	bar
M	=	25.00	
EE	=	5250	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1	=	42.13	
L2	=	45.63	
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 *	=	8.79	
H2 1)	=	8.76	

Commencement of Rifling

G1 1)*	=	7.87	
G 1)	=	5.22	
α1 *	=	89°21'35"	
h	=	0.45	
s	=		
i 1)*	=	1°30'	
w	=		

Barrel

F 1)*	=	7.62	
Z 1)	=	7.82	

Grooves

b	=	4.49	
N	=	4	
u	=	254.00	
Q	=	47.52	mm²

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

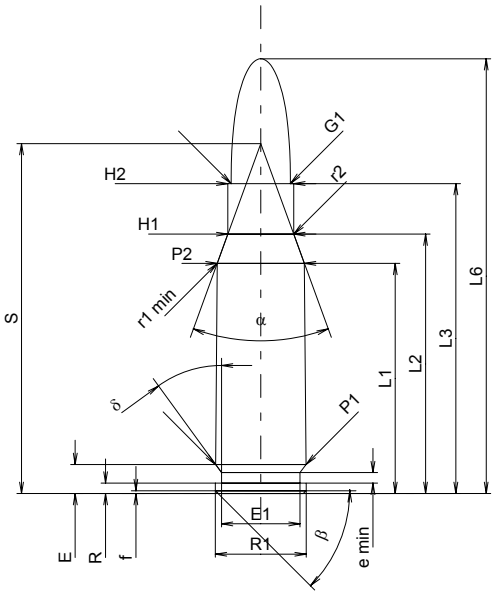
Notes: 1) Check for safety reasons
* Basic dimensions

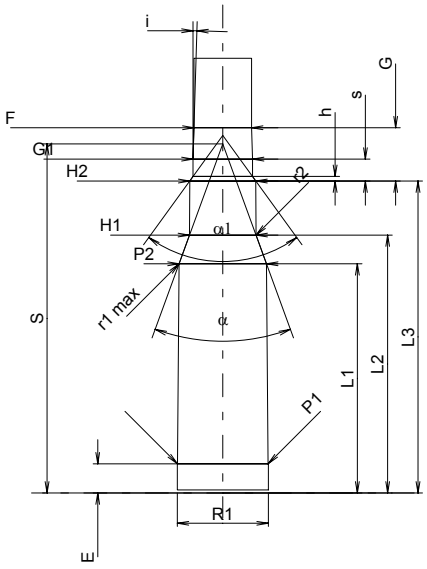
C.I.P.

308 EH

Country of Origin: FR

TAB.	**I**
Date	**89-09-20**
Revision	**02-05-15**





Scale 1:1

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
δ	=	36°
f	=	0.38
β	=	45°

Powder Chamber

P1	=	11.96	
P2 1)*	=	11.53	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

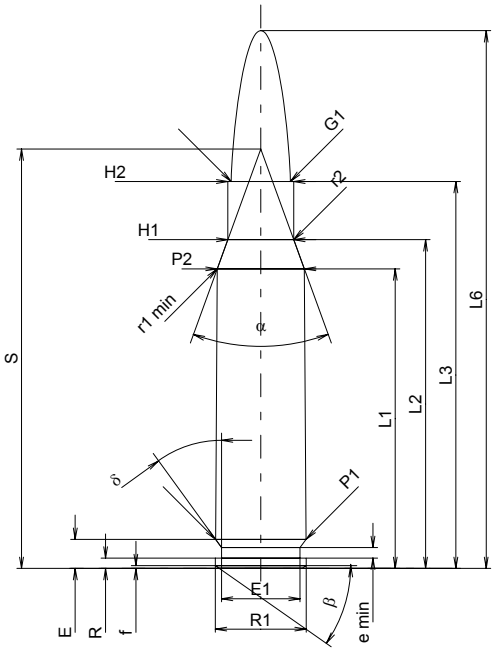
Notes: 1) Check for safety reasons
* Basic dimensions

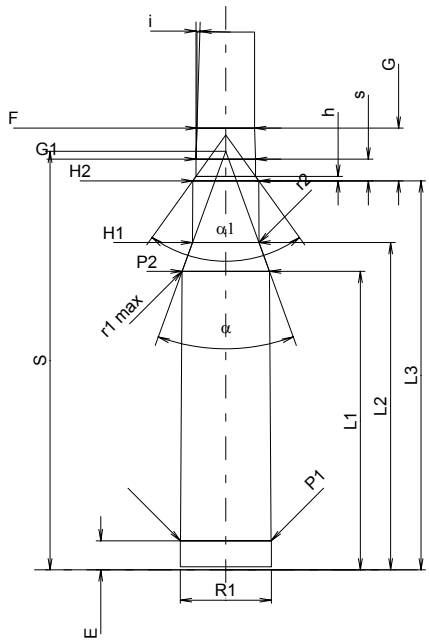
C.I.P.

308 Win.

Country of Origin: US

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





Scale 1:1

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

α 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
α1 *	=	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	mm²

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

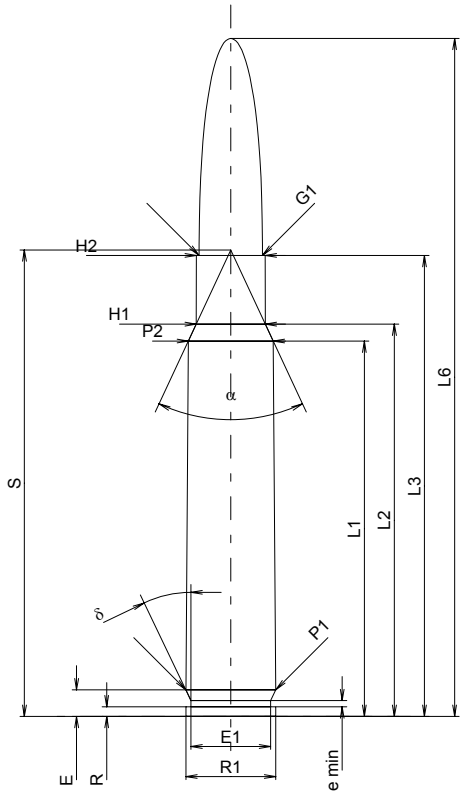
Notes: 1) Check for safety reasons
* Basic dimensions

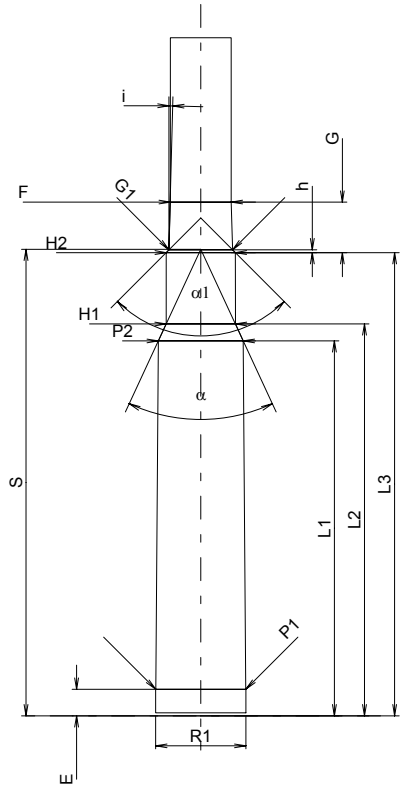
C.I.P.

318 Riml. N.E.

Country of Origin: GB

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





Scale 1:1

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	
δ	=	25°36'	
f	=		
β	=		

Powder Chamber

P1	=	11.89	
P2 1)*	=	11.23	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

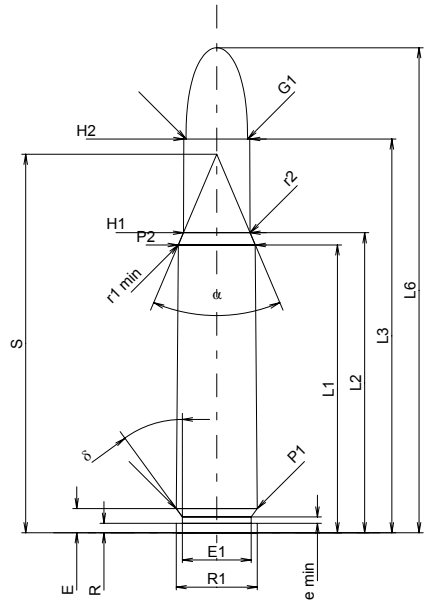
Notes: 1) Check for safety reasons
* Basic dimensions

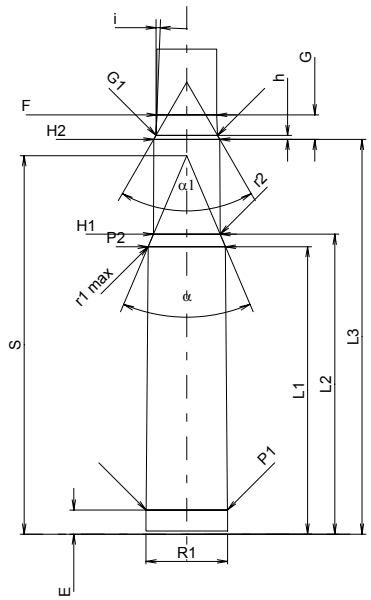
C.I.P.

32 Rem.

Country of Origin: US

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





Scale 1:1

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	mm²

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

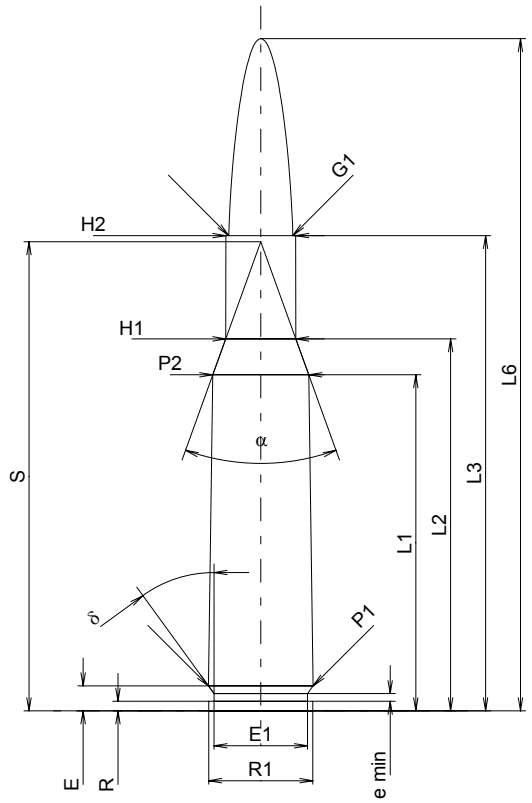
Notes: 1) Check for safety reasons
* Basic dimensions

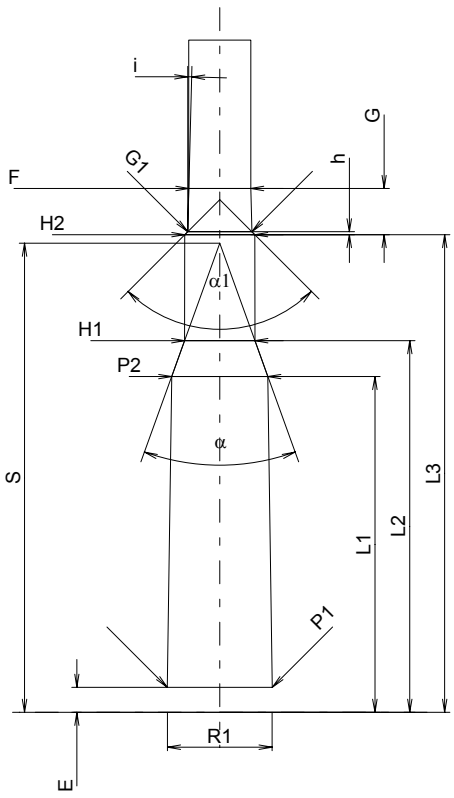
C.I.P.

333 Riml. N.E.

Country of Origin: GB

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





Scale 1:1

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	mm²

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

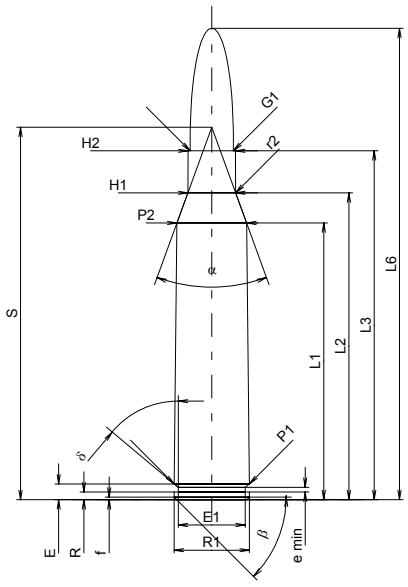
Notes: 1) Check for safety reasons
* Basic dimensions

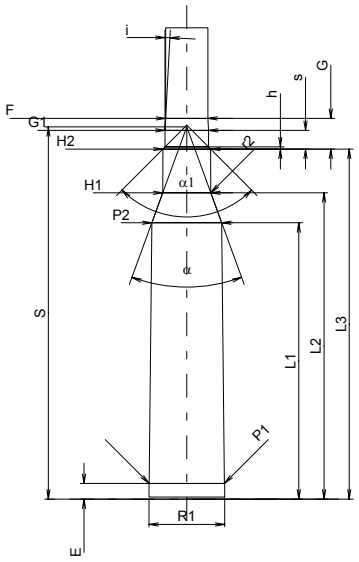
C.I.P.

338 Lapua Mag.

Country of Origin: FI

TAB.	**I**
Date	**89-09-09**
Revision	**02-05-15**





Scale 1:1.5

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	mm²

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

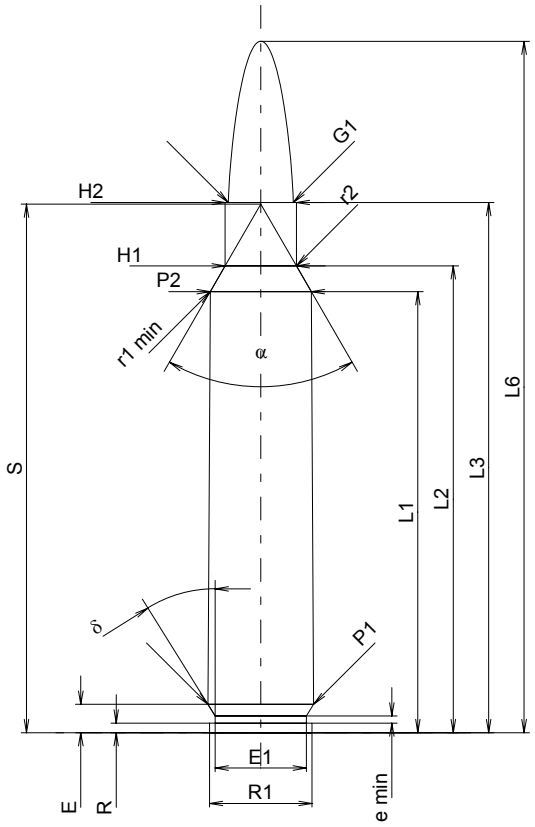
Notes: 1) Check for safety reasons
* Basic dimensions

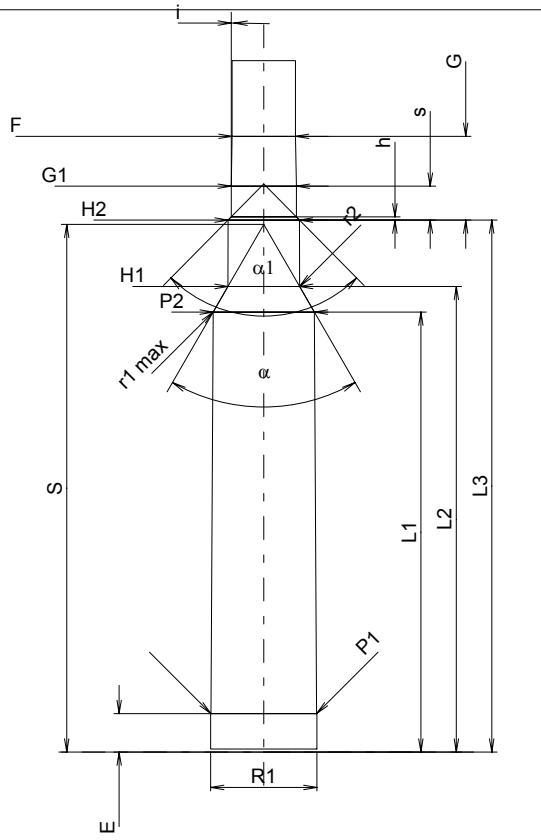
C.I.P.

338 Rem. Ultra Mag.

Country of Origin: US

TAB.	**I**
Date	**00-10-20**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	58.32	-0.20
L2 1)	=	61.73	-0.20
L3 1)	=	70.11	
L4	=		
L5	=		
L6	=	91.44	

Case Head

R	=	1.27	
R1	=	13.57	
R3	=		
E	=	3.75	
E1	=	12.06	
e min	=	0.94	
δ	=	32°	
f	=		
β	=	35°	

Powder Chamber

P1	=	13.98	
P2 1)*	=	13.37	-0.20

Junction Cone

α *	=	60°	
S *	=	69.90	
r1 min	=	1.52	
r2	=	3.17	

Collar

H1 *	=	9.43	
H2 1)	=	9.43	

Projectile

G1 1)	=	8.60	
G2	=		
F	=		
L3+G 1)	=	81.18	

Pressures (Energies)
Method Transducer

Pmax	=	4400	bar
PK	=	5060	bar
PE	=	5500	bar
M	=	25.00	
EE	=	6090	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1	=	58.19
L2	=	61.58
L3 1)	=	70.36

Breech

R	=	
R1	=	14.05
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	5.08
P1 1)	=	13.99
P2 *	=	13.38

Junction Cone

α 1)*	=	60°
S *	=	69.78
r1 max	=	0.76
r2	=	3.17

Collar

H1 *	=	9.47
H2 1)	=	9.44

Commencement of Rifling

G1 1)*	=	8.61
G 1)	=	11.07
α1	=	89°18'50"
h	=	0.42
s *	=	4.48
i 1)*	=	1°
w	=	

Barrel

F 1)*	=	8.38
Z 1)	=	8.59

Grooves

b	=	2.79	
N	=	6	
u	=	254.00	
Q	=	56.95	mm²

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

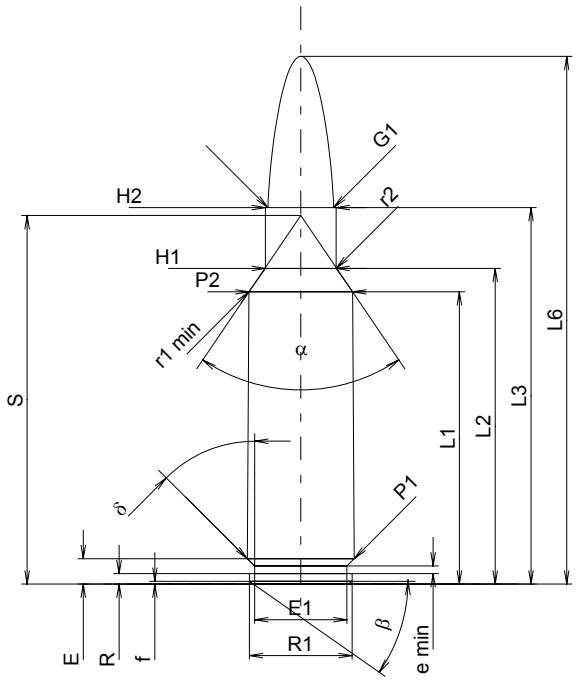
Notes: 1) Check for safety reasons
* Basic dimensions

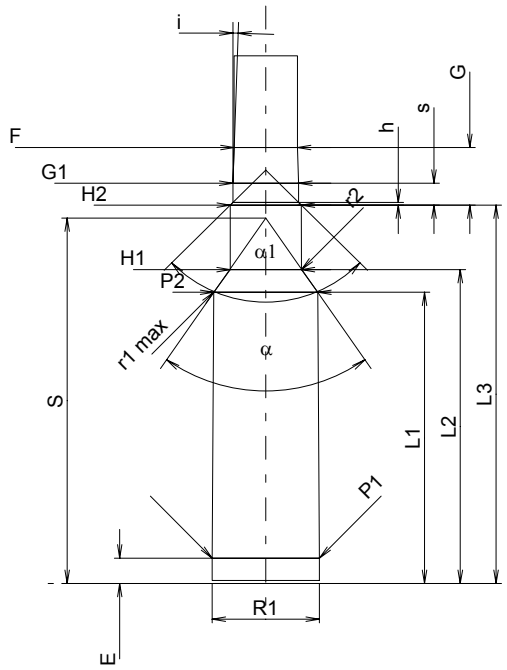
C.I.P.

338 Win. Short Mag.

Country of Origin: US

TAB.	**I**
Date	**02-01-22**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	38.64	-0.20
L2 1)	=	41.74	-0.20
L3 1)	=	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	
H2 1)	=	9.37	

Projectile

G1 1)	=	8.69	
G2	=		
F	=		
L3+G 1)	=	57.39	

Pressures (Energies)
Method Transducer

Pmax	=	4150	bar
PK	=	4773	bar
PE	=	5188	bar
M	=	25.00	
EE	=	4935	Joule

Miscellaneous Dimensions

Fe 1)	=	0.10	
delta L	=		

CHAMBER MINI

Lengths

L1	=	38.51	
L2	=	41.50	
L3 1)	=	50.04	

Breech

R	=		
R1	=	14.19	
R2	=		
R3	=		
r	=		

Powder Chamber

E	=	3.35	
P1 1)	=	14.15	
P2 *	=	13.75	

Junction Cone

α 1)*	=	70°	
S *	=	48.33	
r1 max	=	1.27	
r2	=	3.05	

Collar

H1 *	=	9.42	
H2 1)	=	9.40	

Commencement of Rifling

G1 1)*	=	8.71	
G 1)	=	7.61	
α1 *	=	90°50'11"	
h	=	0.34	
s	=	2.89	
i 1)*	=	2°	
w	=		

Barrel

F 1)*	=	8.38	
Z 1)	=	8.59	

Grooves

b	=	2.79	
N	=	6	
u	=	254.00	
Q	=	56.95	mm²

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

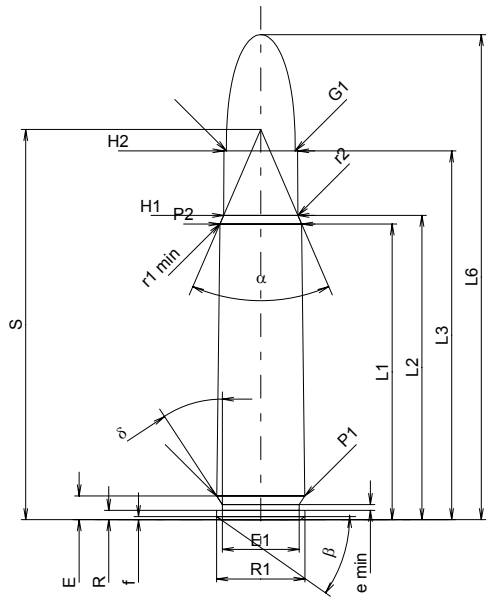
Notes: 1) Check for safety reasons
* Basic dimensions

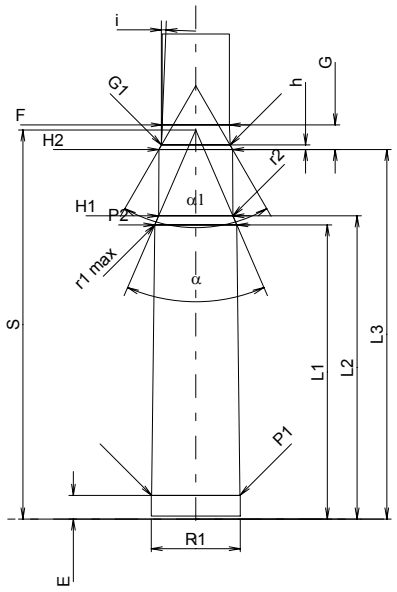
C.I.P.

35 Rem.

Country of Origin: US

TAB.	**I**
Date	**91-02-20**
Revision	**02-05-15**





Scale 1:1

CARTRIDGE MAXI

Lengths

L1 1)	=	39.10	-0.20
L2 1)	=	40.24	-0.20
L3 1)	=	48.77	
L4	=		
L5	=		
L6	=	64.14	

Case Head

R	=	1.24	
R1	=	11.68	
R3	=		
E	=	3.14	
E1	=	10.16	
e min	=	0.76	
δ	=	34°	
f	=	0.41	
β	=	35°	

Powder Chamber

P1	=	11.66	
P2 1)*	=	10.82	-0.20

Junction Cone

α *	=	46°49'59"
S *	=	51.59
r1 min	=	0.64
r2	=	1.27

Collar

H1 *	=	9.83
H2 1)	=	9.75

Projectile

G1 1)	=	9.12
G2	=	
F	=	
L3+G 1)	=	52.02

Pressures (Energies)
Method Transducer

Pmax	=	2750	bar
PK	=	3163	bar
PE	=	3575	bar
M	=	25.00	
EE	=	2655	Joule

Miscellaneous Dimensions

Fe 1)	=	0.15
delta L	=	

CHAMBER MINI

Lengths

L1	=	38.91
L2	=	40.10
L3 1)	=	48.88

Breech

R	=	
R1	=	11.78
R2	=	
R3	=	
r	=	

Powder Chamber

E	=	3.14
P1 1)	=	11.70
P2 *	=	10.86

Junction Cone

α 1)*	=	46°49'58"
S *	=	51.45
r1 max	=	0.64
r2	=	1.27

Collar

H1 *	=	9.83
H2 1)	=	9.75

Commencement of Rifling

G1 1)*	=	9.07
G 1)	=	3.25
α1 *	=	60°
h	=	0.59
s	=	
i 1)*	=	2°15'32"
w	=	

Barrel

F 1)*	=	8.86
Z 1)	=	9.07

Grooves

b	=	2.92	
N	=	7	
u	=	406.00	
Q	=	63.84	mm²

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

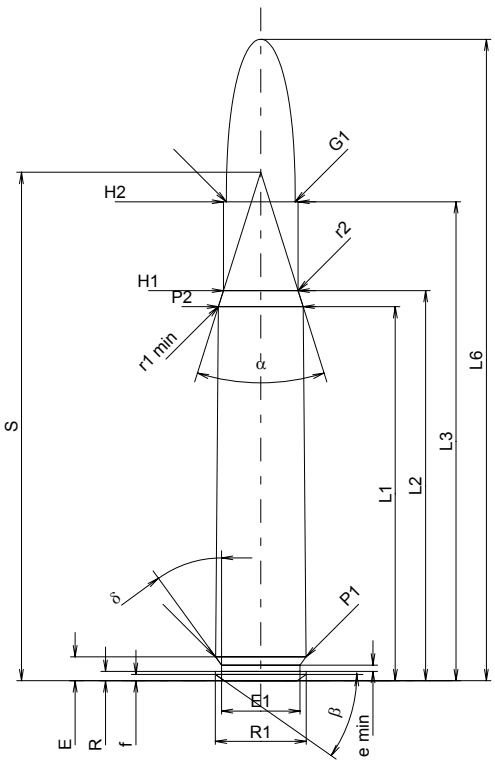
Notes: 1) Check for safety reasons
* Basic dimensions

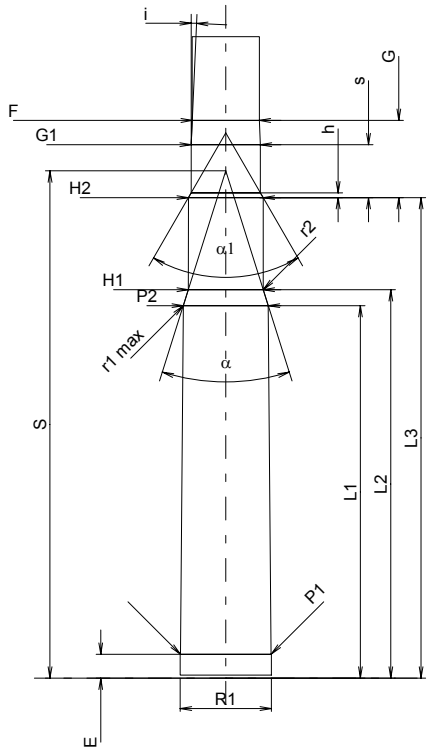
C.I.P.

35 Whelen

Country of Origin: US

TAB.	**I**
Date	**94-03-01**
Revision	**02-05-15**





Scale 1:1

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

Collar

H1 *	=	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 *	=	11.24	

Junction Cone

α 1)*	=	35°	
S *	=	67.09	
r1 max	=	1.27	
r2	=	2.54	

Collar

H1 *	=	9.91	
H2 1)	=	9.88	

Commencement of Rifling

G1 1)*	=	9.14	
G 1)	=	10.21	
α1 *	=	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	mm²

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

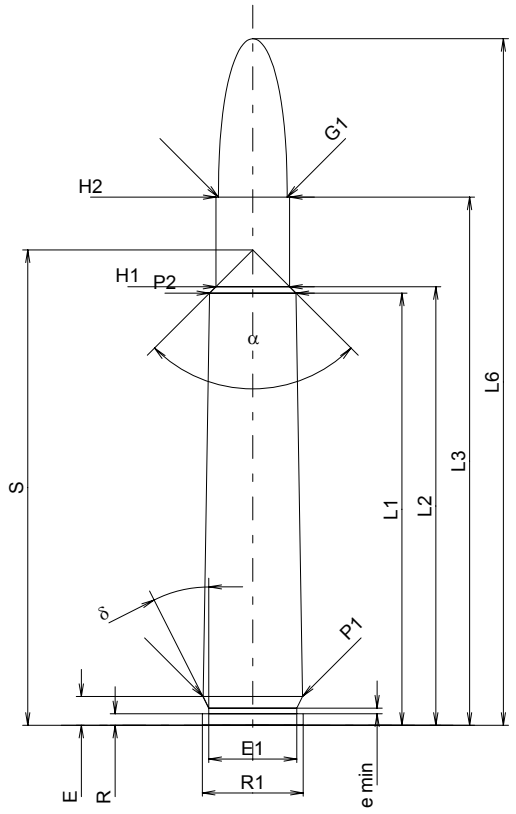
Notes: 1) Check for safety reasons
* Basic dimensions

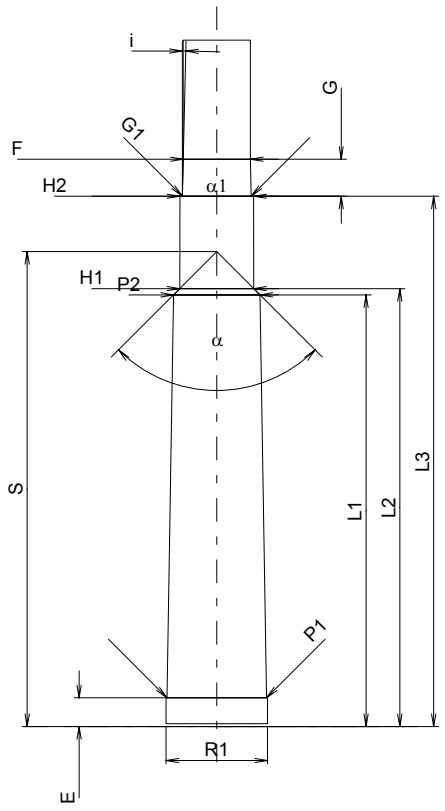
C.I.P.

350 Mag. Rigby

Country of Origin: GB

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





Scale 1:1

CARTRIDGE MAXI

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	=		

CHAMBER MINI

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

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

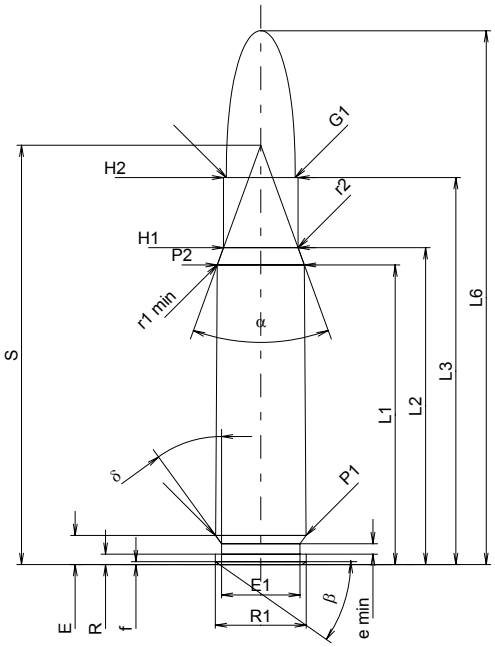
Notes: 1) Check for safety reasons
* Basic dimensions

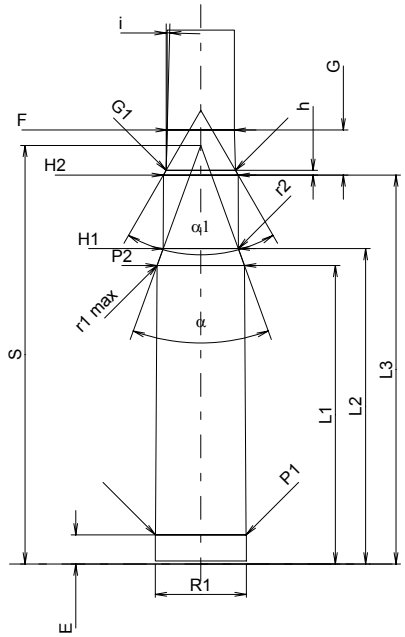
C.I.P.

358 Win.

Country of Origin: US

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





Scale 1:1

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	mm²

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

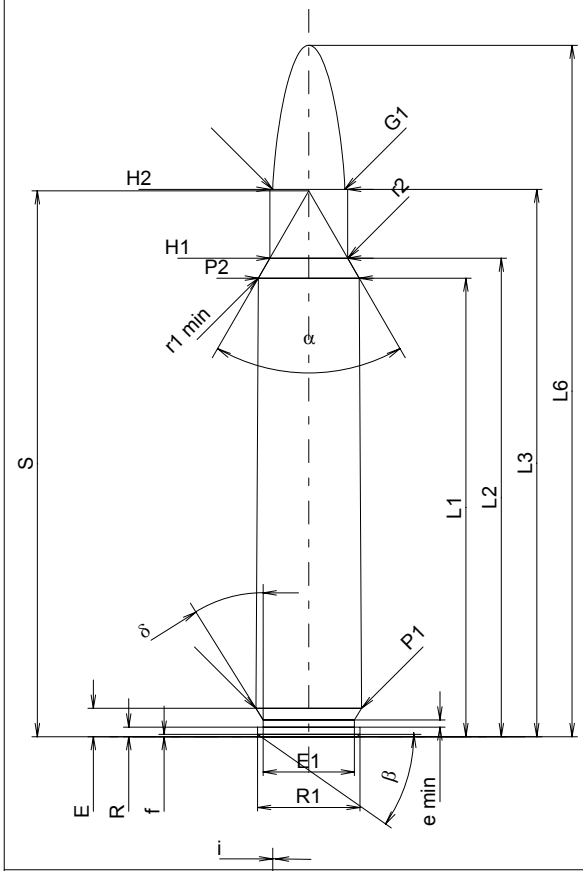
Notes: 1) Check for safety reasons
* Basic dimensions

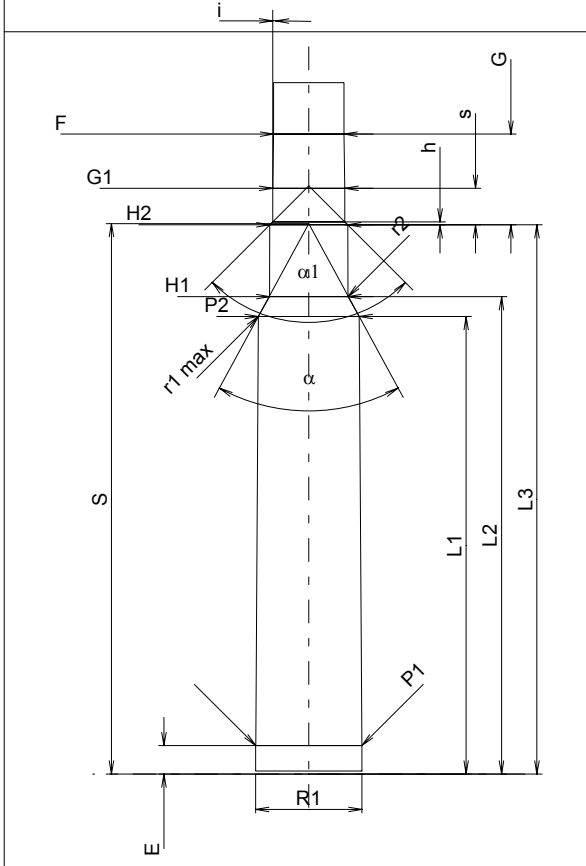
C.I.P.

375 Rem. Ultra Mag.

Country of Origin: US

TAB.	**I**
Date	**02-01-22**
Revision	**02-05-15**





Scale 1:1

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	mm²

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

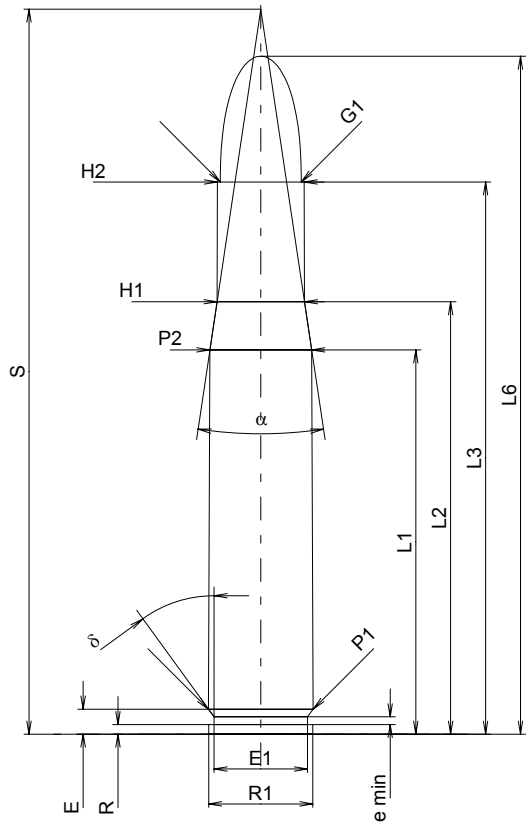
Notes: 1) Check for safety reasons
* Basic dimensions

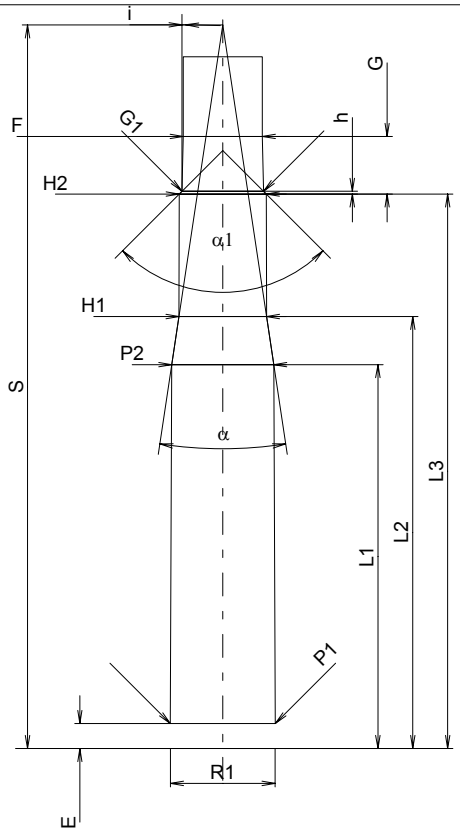
C.I.P.

404 Riml. N.E.

Country of Origin: GB

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





Scale 1:1

CARTRIDGE MAXI

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	=	

CHAMBER MINI

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

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

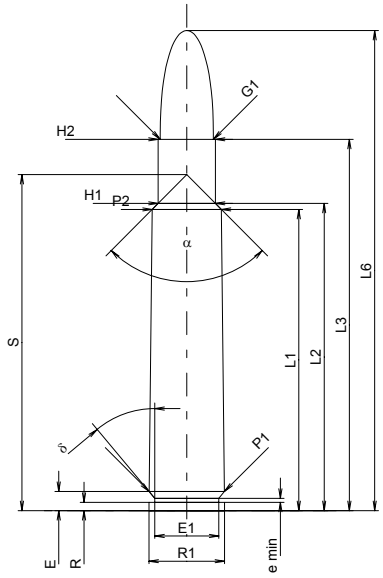
Notes: 1) Check for safety reasons
* Basic dimensions

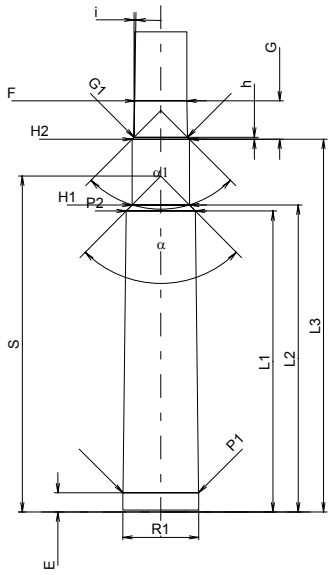
C.I.P.

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	mm²

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

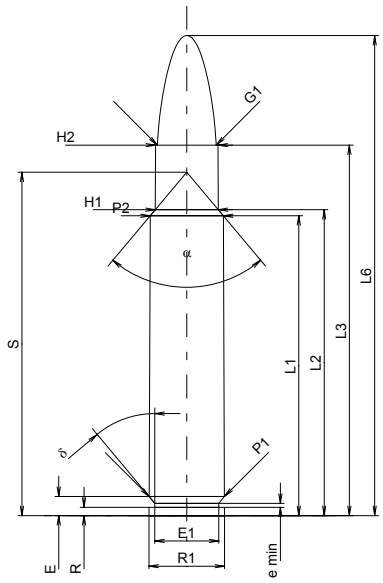
Notes: 1) Check for safety reasons
* Basic dimensions

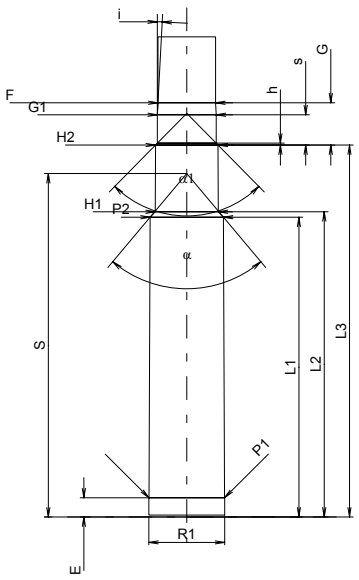
C.I.P.

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	
δ	=	39°55'50"	
f	=		
β	=		

Powder Chamber

P1	=	14.96	
P2 1)*	=	14.50	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

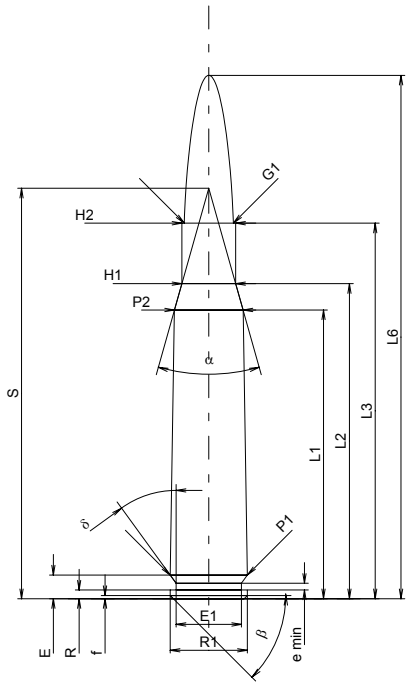
Notes: 1) Check for safety reasons
* Basic dimensions

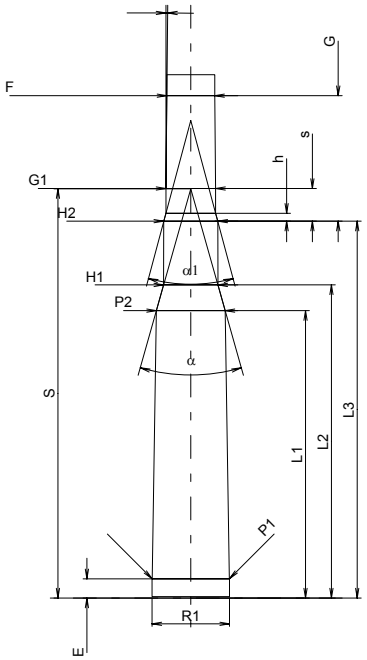
C.I.P.

50 Browning

Country of Origin: US

TAB.	**I**
Date	**95-05-31**
Revision	**02-05-15**





Scale 1:2

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	
δ	=	36°	
f	=	0.84	
β	=	45°	

Powder Chamber

P1	=	20.42	
P2 1)*	=	18.14	-0.20

Junction Cone

α *	=	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

α 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
α1	=	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	mm²

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

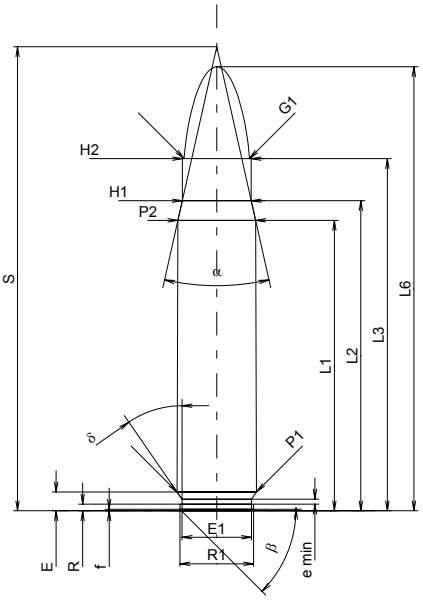
Notes: 1) Check for safety reasons
* Basic dimensions

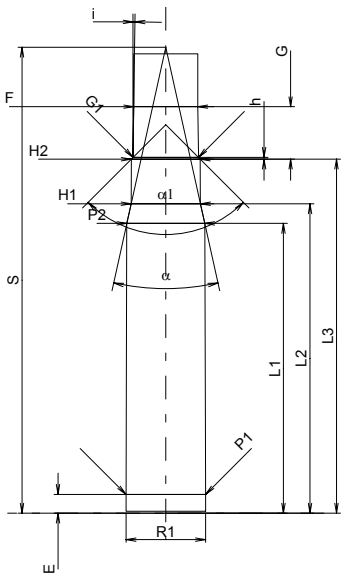
C.I.P.

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	
δ	=	34°39'36"	
f	=	0.30	
β	=	45°	

Powder Chamber

P1	=	15.72	
P2 1)*	=	15.42	-0.20

Junction Cone

α	=	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

α 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
α1	=	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	mm²

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

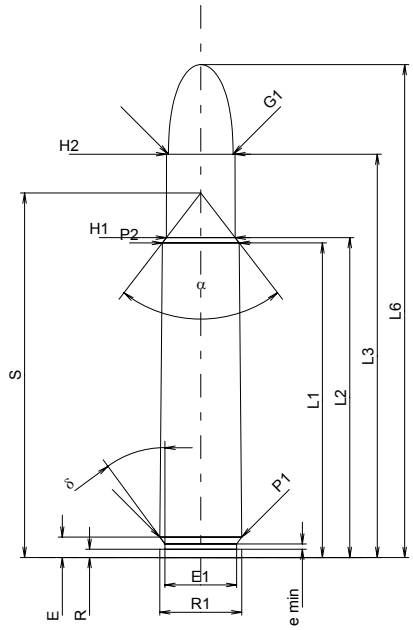
Notes: 1) Check for safety reasons
* Basic dimensions

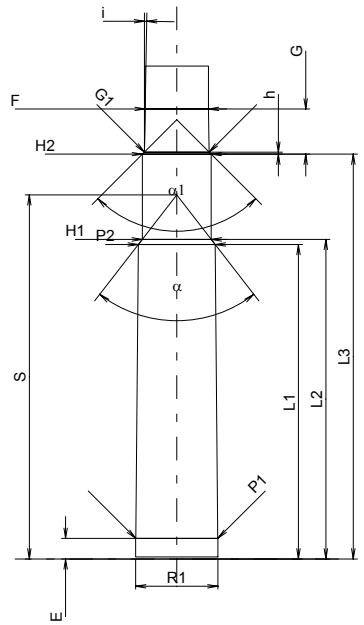
C.I.P.

505 Mag. Gibbs

Country of Origin: GB

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





Scale 1:1.5

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	mm²

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

Notes: 1) Check for safety reasons
* Basic dimensions