

CTB stainless steel enclosures

Eaton's Crouse-Hinds is premier manufacturer of high quality and robust enclosure and termination assemblies. They are specifically designed to meet the requirements of the most industrial and hazardous environmental. With over 30 years of experience in the design, engineering and manufacturing of enclosures and termination assemblies, Crouse-Hinds Series provides a proven, tried and tested solution to meet the toughest installation requirements.

The CTB range is an "ATEX" "IECEX" and "GB/CCC" certified explosion proof enclosure and termination solution available in various options of materials and finishes, fully compliant with the related impact, thermal and ingress protection requirements. It is also available in wide range of sizes ensuring we can meet a multitude of applications. Continuous and iterative engineering optimizations has been implementing to advance the CTB product performance.

upgraded

1 Mounting brackets

- Welding brackets eliminate any risk of leakage which may occur in those bolts fastening brackets
- Default horizontal and vertical optional



2 Enclosure hinge

- Robust hinges ensure IP66 when cover is closed and reliable mechanism in operation
- Easy to disassemble when cover change needed



3 Earth stud

- Standard SS316L M10 welding internal & external earth stud provides rapid means of earthing connection



4 Enclosure gasket

- Foaming silicone gasket in the view ensures IP66 sealing



5 Gland plates

- Special design bolts and threads provides high-efficiency gland plate fastening
- Available with up to 3 gland plates (3mm thick)

7 Enclosure material

- SS316L and SS304 options
- Surface powder coating optional



6 Cover fastening

- Standard cover features captive bolts provides cost-effective means of fastening
- Quarter-tun lock clamp provides a rapid means of fastening is also available

CTB stainless steel enclosures

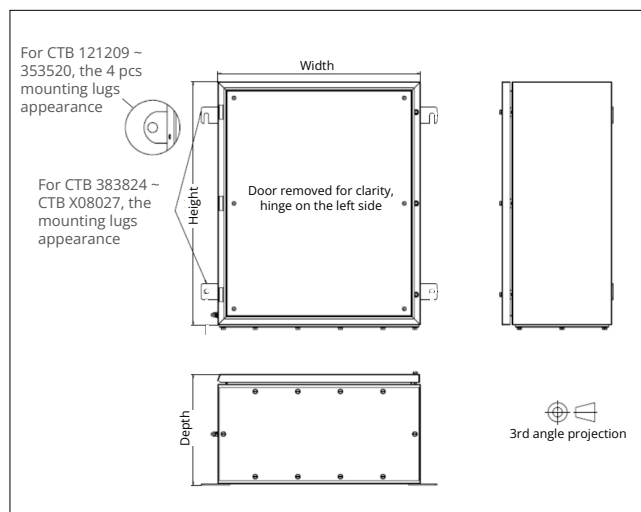
Technical data

Marking acc. to ATEX	II 2 G Ex e IIC T6/T5/T4 Gb, Ex e ia IIC T6/T5/T4 Gb, Ex ia IIC T6/T5/T4 Gb II 2 D Ex tb IIIC T110°C/T95°C/T80°C Db IP66
Marking acc. to IECEx	Ex e IIC T6/T5/T4 Gb, Ex e ia IIC T6/T5/T4 Gb, Ex ia IIC T6/T5/T4 Gb Ex tb IIIC T110°C/T95°C/T80°C Db IP66
Marking acc. to CCC	Ex e IIC T6/T5/T4 Gb, Ex e ia IIC T6/T5/T4 Gb, Ex ia IIC T6/T5/T4 Gb Ex td A21 IP66 T110°C/T95°C/T80°C Db
Material/Finish	316L (standard), 304 (optional) Brush finish (standard), electro polish or painting (optional)
Gasket material	Silicone
Door fastening	Bolt fasten door (standard) 1/4 turn lock in zinc alloy or SS316 material (optional)
Enclosure thickness	1.5mm thick body&door (standard) 2mm or 3mm thick body&door (optional)
Enclosure mounting	4 external welded lugs with 8mm diameter mounting holes for CTB 121209 ~ 353520 and 11mm diameter mounting holes for CTB 383824 ~ CTB X08027
Internal equipment mounting	CTB 121209, CTB 151510, CTB 191912 have default welding pillars for DIN rail. CTB 203015, CTB 203020, CTB 203814, CTB 252514 have default TAS20 rail for DIN rail. Other CTB sizes have default welding pillars for DIN rail or mounting plate. Contact Eaton for different internal mounting required. (TAS20 is 20mm width supporting rail, DIN rail refers to 35mm width rail)
Gland plate	0-3 pieces, 3mm thickness. GP can be placed on any side of enclosure and limited to 3 pieces. GP is not available for CTB 121209, CTB 151510, also only top and/or bottom available for CTB 203814.
Enclosure earth/ground	Standard SS316L M10 int/ext. earth stud
Degree of protection	IP66 to IEC/EN60079
Ambient temperature range	-55 ~ +55°C
Impact resistance	7J (Nm) to IEC/EN 60079-0
Inside components	Phoenix or Weidmuller brand of terminal options

CTB enclosure sizes

CTB types	Dimension / mm (Height x Width x Depth)	CTB types	Dimension / mm (Height x Width x Depth)
CTB121209	120*120*95	CTB403020	400*300*205
CTB151510	150*150*105	CTB404015	400*400*155
CTB191912	190*190*125	CTB404020	400*400*205
CTB203015	200*300*155	CTB405015	400*500*155
CTB203020	200*300*205	CTB405020	400*500*205
CTB203814	200*380*145	CTB406015	400*600*155
CTB252514	250*250*145	CTB406020	400*600*205
CTB252520	250*250*205	CTB406024	400*600*245
CTB252524	250*250*245	CTB504015	500*400*155
CTB253515	250*350*155	CTB504020	500*400*205
CTB253520	250*350*205	CTB504027	500*400*275
CTB254015	250*400*155	CTB505015	500*500*155
CTB254020	250*400*205	CTB505020	500*500*205
CTB254024	250*400*245	CTB604015	600*400*155
CTB303015	300*200*155	CTB604020	600*400*205
CTB303020	300*200*205	CTB605015	600*500*155
CTB303015	300*300*155	CTB605020	600*500*205
CTB303020	300*300*205	CTB605027	600*500*275
CTB303024	300*300*245	CTB606015	600*600*155
CTB352515	350*250*155	CTB606020	600*600*205
CTB352520	350*250*205	CTB706027	700*600*275
CTB383824	380*380*245	CTB807027	800*700*275
CTB403015	400*300*155	CTBX08027	1000*800*275

CTB range enclosure-general arrangement



CTB stainless steel enclosures

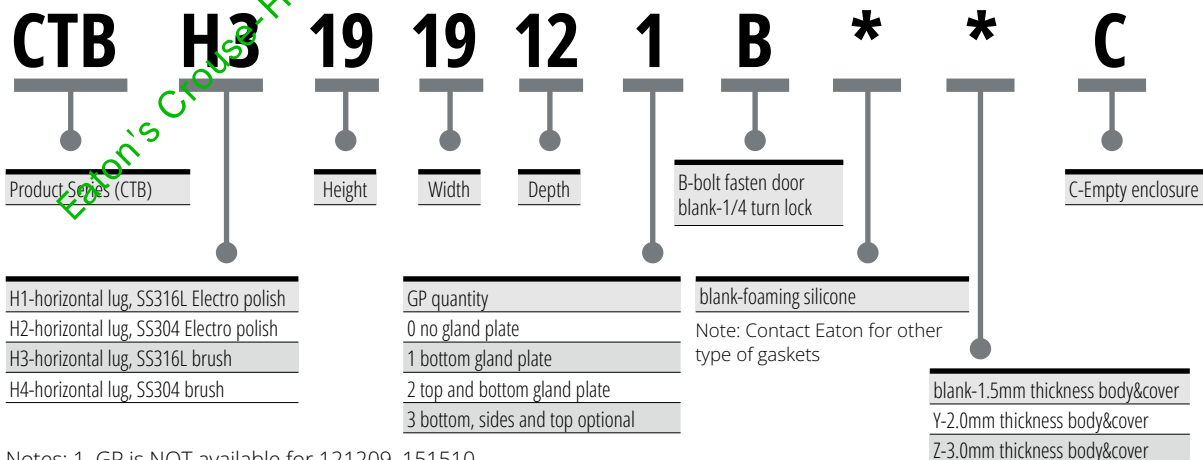
CTB enclosure technical data

ECH part No.	CTB121209	CTB151510	CTB191912	CTB203015	CTB203020	CTB203814	CTB252514	CTB252520	CTB252524	CTB253515
Enclosure dimensions, mm (Height x Width x Depth)	120*120*95	150*150*105	190*190*125	200*300*155	200*300*205	200*380*145	250*250*145	250*250*205	250*250*245	250*350*155
Enclosure fixing centres, mm (Vertical x Horizontal)	95*145	70*175	110*215	120*325	120*325	120*405	150*275	150*275	150*275	150*375
Number of chosen gland plates	0	0	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3
Material thickness, mm	Body 1.5, 2 Lid 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2
Weight in kg (empty enclosure)	1.4	2.3	3.2	3.4	4.1	4	3.4	3.4	3.4	6.1
Terminal mounting rail										
Rail fixing centres, mm vertical	60	90	130	140	140	300	170	170	170	170
Overall rail length, mm	80	110	150	160	160	320	200	200	200	200
Available glanding area, mm without GP										
Top or Bottom	117X63	147X73	187X93	297X123	297X123	377X113	247X113	247X173	247X213	347X123
Left or Right	117X63	147X73	187X93	197X123	197X123	197X113	247X113	247X173	247X213	247X123
Maximum entries with GP										
Top or Bottom	/	/	144X42	254X72	254X122	334X62	204X62	204X122	204X162	304X72
M16	/	/	5	20	40	26	16	32	48	24
M20	/	/	4	16	24	10	18	30	18	18
M25	/	/	3	6	18	9	15	20	8	8
M32	/	/	/	5	10	7	4	8	12	6
M40	/	/	/	4	8	6	3	6	9	5
M50	/	/	/	3	3	/	/	3	6	4
M63	/	/	/	/	3	/	/	2	4	/
Left or Right	/	/	67X42	77X72	77X122	127X62	127X122	127X162	127X62	127X62
M16	/	/	2	4	8	/	10	20	30	10
M20	/	/	2	4	6	/	4	12	20	4
M25	/	/	1	1	3	/	3	9	12	3
M32	/	/	/	1	/	/	2	4	6	2
M40	/	/	/	1	2	/	2	4	6	2
M50	/	/	/	1	1	/	/	1	2	/
M63	/	/	/	/	/	/	/	1	2	/
Terminal content										
2.5mm ² (UT2.5)	1X10	1X20	1X25	2X25=30	2X25=50	3X25=75	2X35=70	2X35=70	2X35=70	3X35=105
4mm ² (UT4)	1X8	1X15	1X25	3X20=40	2X20=40	3X20=60	2X30=60	2X30=60	2X30=60	3X30=90
6mm ² (UT6)	1X6	1X12	1X18	2X16=32	2X16=32	3X16=48	2X22=44	2X22=44	2X22=44	3X22=66
10mm ² (UT10)	1X4	1X8	1X12	2X12=24	2X12=24	1X30=30	2X17=34	2X17=34	2X17=34	2X26=52
16mm ² (UT16)			1X18	1X18	1X18	1X25	2X14=28	2X14=28	2X14=28	2X20=40
35mm ² (UT35)			1X14	1X14	1X14	1X20	1X12	1X12	1X12	1X18

Notes: 1. The types and quantities of terminals are for reference of box size selection, contact EATON for more information.
2. The drilling capacity/maximum entries of gland plates is assessed according to diameter of cable glands in below table.

Gland size	M16	M20	M25	M32	M40	M50	M63
Max. diagonal distance of glands	21	27	33	39.6	48.4	60.6	73.8

Order information for empty enclosure



Notes: 1. GP is NOT available for 121209, 151510
2. Only bolt fasten door for 121209
3. Vertical lug is available, contact Eaton for more information

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CTB253520	CTB254015	CTB254020	CTB254024	CTB302015	CTB302020	CTB303015	CTB303020	CTB303024	CTB352515	CTB352520	CTB383824	CTB403015
250*350*205	250*400*155	250*400*205	250*400*245	300*200*155	300*200*205	300*300*155	300*300*205	300*300*245	350*250*155	350*250*205	380*380*245	400*300*155
150*375	150*425	150*425	150*425	180*225	180*225	180*325	180*325	180*325	230*275	230*275	250*435	264*356
0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3
1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2
1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2
7.1	6.8	7.3	7.9	4	4.8	5.4	6.3	7	5.3	6.1	7.1	6.3
170	170	170	170	220	220	220	220	220	270	270	300	320
200	200	200	200	250	250	250	250	250	300	300	330	350
347X173	397X123	397X173	397X213	197X123	197X173	297X123	297X173	297X213	247X123	247X173	377X213	297X123
247X173	247X123	247X173	247X213	297X123	297X173	297X123	297X173	297X213	347X123	347X173	377X213	397X123
304X122	354X72	354X122	354X162	154X72	154X122	254X72	254X122	254X162	204X72	204X122	334X162	254X72
48	28	56	84	12	24	20	40	60	32	32	78	20
27	22	33	55	8	12	16	24	40	12	18	50	16
24	9	27	36	4	12	6	18	24	5	15	36	6
12	8	16	24	3	6	5	10	15	4	8	21	5
10	6	12	18	2	4	4	8	8	3	6	18	4
4	5	5	10	2	2	3	3	6	3	3	10	3
3	/	4	8	/	1	/	3	6	/	2	8	/
127X122	127X162	127X122	127X162	154X72	154X122	154X72	154X122	127X162	204X72	204X122	204X162	254X72
20	30	20	30	12	24	12	24	30	16	32	48	20
12	20	12	20	8	12	8	12	20	12	18	30	16
9	12	9	12	4	12	4	12	12	5	15	20	6
4	6	4	6	3	6	3	6	6	4	8	12	5
4	6	4	6	2	4	2	4	6	3	6	9	4
1	2	1	2	2	2	2	2	2	3	3	6	3
1	2	1	2	/	1	/	1	2	/	2	4	/
3X35=105	2X60=120	2X60=120	2X60=120	2X25=50	2X25=50	2X42=84	2X42=84	2X42=84	3X35=105	3X35=105	3X60=180	2X60=120
3X30=90	2X52=104	2X52=104	2X52=104	2X20=40	2X20=40	2X37=74	2X37=74	2X37=74	3X30=90	3X30=90	3X50=150	3X37=111
3X22=66	2X40=80	2X40=80	2X40=80	2X16=32	2X16=32	2X28=56	2X28=56	2X28=56	3X22=66	3X22=66	3X38=114	3X28=84
2X26=52	2X32=64	2X32=64	2X32=64	2X12=24	2X12=24	2X22=44	2X22=44	2X22=44	2X26=52	2X26=52	3X30=90	3X22=66
2X20=40	2X26=52	2X26=52	2X26=52	1X18	1X18	2X18=36	2X18=36	2X18=36	2X20=40	2X20=40	2X25=50	2X25=50
1X18	1X18	1X18	1X18	1X14	1X14	1X14	1X14	1X14	1X18	1X18	1X20	1X21

Eaton's Crouse-Hinds series Authorized distributor - Kunshan Beiyuan electric co.,ltd - 11/cst@ksbyel.com

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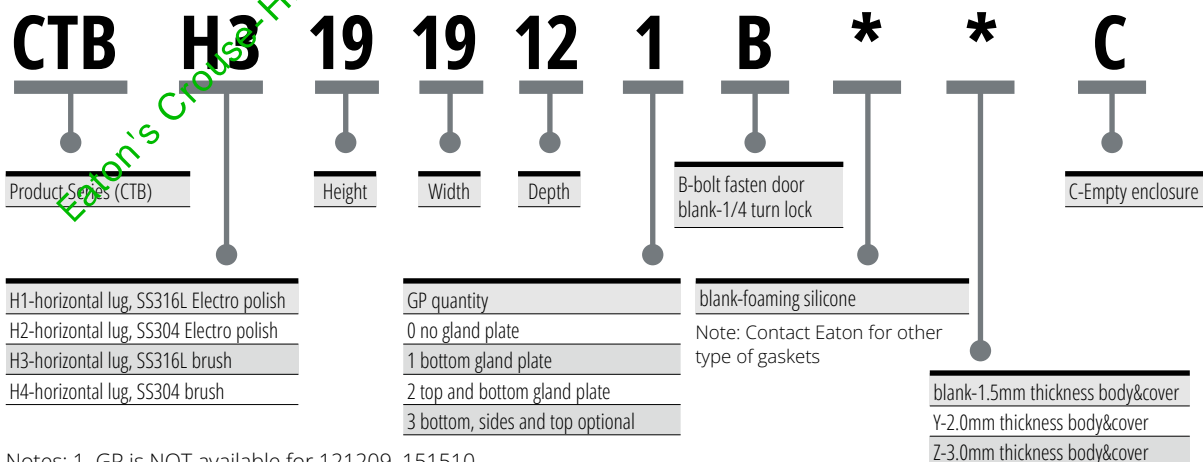
CTB enclosure technical data

ECH part No.	CTB403020	CTB404015	CTB404020	CTB405015	CTB405020	CTB406015	CTB406020	CTB406024	CTB504015	CTB504020
Enclosure dimensions, mm (Height x Width x Depth)	400*300*205	400*400*155	400*400*205	400*500*155	400*500*205	400*600*155	400*600*205	400*600*245	500*400*155	500*400*205
Enclosure fixing centres, mm (Vertical x Horizontal)	264*356	264*456	264*456	264*556	264*556	264*656	264*656	264*656	350*456	350*456
Number of chosen gland plates	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3
Material thickness, mm	Body 1.5, 2 Lid 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2	1.5, 2 1.5, 2
Weight in kg (empty enclosure)	7.3	7.8	9	9.4	10.6	10.9	12.3	13.4	10.3	11.8
Terminal mounting rail										
Rail fixing centres, mm vertical	320	320	320	320	320	320	320	320	420	420
Overall rail length, mm	350	350	350	350	350	350	350	350	450	450
Available glanding area, mm without GP										
Top or Bottom	297X173	397X123	397X173	497X123	497X173	597X123	597X173	597X213	397X123	397X173
Left or Right	397X173	397X123	397X173	397X123	397X173	397X123	397X173	397X213	497X123	497X173
Maximum entries with GP										
Top or Bottom	254X122	354X72	354X122	454X72	454X122	554X72	554X122	554X162	354X72	354X122
M16	40	28	56	36	72	44	88	132	28	56
M20	24	22	33	28	42	36	54	90	22	33
M25	18	9	27	12	36	15	45	60	9	27
M32	10	8	16	10	20	12	24	36	8	16
M40	8	6	12	8	16	10	20	30	6	12
M50	3	5	5	7	7	8	8	16	5	5
M63	3	/	4	/	5	/	7	14	/	4
Left or Right	254X122	254X72	254X122	254X72	254X122	254X72	254X122	204X162	354X72	354X122
M16	40	20	40	20	40	20	40	48	28	56
M20	24	16	24	16	24	16	24	30	22	33
M25	18	6	18	6	18	6	18	20	9	27
M32	10	5	10	5	10	5	10	12	8	16
M40	8	4	8	4	8	4	8	9	6	12
M50	3	3	3	3	3	3	3	6	5	5
M63	3	/	3	/	3	/	3	4	/	4
Terminal content										
2.5mm ² (UT2.5)	2X65=130	3X65=195	3X65=195	3X83=249	3X83=249	3X100=300	3X100=300	3X100=300	3X83=249	3X83=249
4mm ² (UT4)	3X37=111	3X52=156	3X52=156	3X68=204	3X68=204	3X85=255	3X85=255	3X85=255	3X68=204	3X68=204
6mm ² (UT6)	3X28=84	3X40=120	3X40=120	3X52=156	3X52=156	3X65=195	3X65=195	3X65=195	3X52=156	3X52=156
10mm ² (UT10)	3X22=66	3X31=93	3X31=93	3X42=126	3X42=126	3X50=150	3X50=150	3X50=150	3X42=126	3X42=126
16mm ² (UT16)	2X25=50	3X25=75	3X25=75	3X35=105	3X35=105	3X42=126	3X42=126	3X42=126	3X35=105	3X35=105
35mm ² (UT35)	1X22	2X21=42	2X21=42	2X25=50	2X25=50	2X32=64	2X32=64	2X32=64	2X25=50	2X25=50

- Notes: 1. The types and quantities of terminals are for reference of box size selection, contact EATON for more information.
2. The drilling capacity/maximum entries of gland plates is assessed according to diameter of cable glands in below table.

Gland size	M16	M20	M25	M32	M40	M50	M63
Max. diagonal distance of glands	21	27	33	39.6	48.4	60.6	73.8

Order information for empty enclosure



- Notes: 1. GP is NOT available for 121209, 151510
2. Only bolt fasten door for 121209
3. Vertical lug is available, contact Eaton for more information

CTB stainless steel enclosures

CTB504027	CTB505015	CTB505020	CTB604015	CTB604020	CTB605015	CTB605020	CTB605027	CTB606015	CTB606020	CTB706027	CTB807027	CTBX08027
500*400*275	500*500*155	500*500*205	600*400*155	600*400*205	600*500*155	600*500*205	600*500*275	600*600*155	600*600*205	700*600*275	800*700*275	1000*800*275
350*456	350*556	350*556	435*456	435*456	435*556	435*556	435*556	435*656	435*656	466*656	534*756	666*856
0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3	0, 1, 2, 3
1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2
1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2
13.7	10.6	11.9	10.3	11.6	12.3	13.7	15.8	15.4	17.1	22	23	37.6
420	420	420	520	520	520	520	520	520	520	620	720	920
450	450	450	550	550	550	550	550	550	550	650	750	950
397X243	497X123	497X173	397X123	397X173	497X123	497X173	497X243	597X123	597X173	597X243	697X243	797X243
497X243	497X123	497X173	597X123	597X173	597X123	597X173	597X243	597X123	597X173	697X243	797X243	997X243
354X192	454X72	454X122	354X72	354X122	454X72	454X122	454X192	554X72	554X122	502X192	602X192	754X192
98	36	72	28	56	36	72	126	44	88	140	168	217
66	28	42	22	33	28	42	84	36	54	96	114	144
45	12	36	9	27	12	36	60	15	45	65	80	100
32	10	20	8	16	10	20	40	12	24	44	52	68
18	8	16	6	12	8	16	24	8	20	27	33	42
10	7	7	5	5	7	7	14	8	8	14	18	22
8	/	5	/	4	/	5	10	/	7	12	14	18
354X192	354X72	354X122	454X72	454X122	454X72	454X122	454X192	454X72	454X122	554X192	654X192	802X192
98	28	56	36	72	36	72	126	36	72	154	189	231
66	22	33	28	42	28	42	84	28	42	108	126	156
45	9	27	12	36	12	36	60	12	36	75	90	110
32	8	16	10	20	10	20	40	10	20	48	60	72
18	6	12	8	16	8	16	24	8	16	30	36	45
10	5	5	7	7	7	7	14	7	7	16	20	24
8	/	4	/	5	/	5	10	/	5	14	16	20
3X83=249	4X82=328	4X82=328	3X100=300	3X100=300	4X100=400	4X100=400	4X100=400	4X100=400	4X100=400	4X120=480	5X120=600	5X136=680
3X68=204	4X70=280	4X70=280	3X85=255	3X85=255	4X85=288	4X85=340	4X85=340	4X85=340	4X85=340	4X100=400	5X100=500	5X150=750
3X52=156	4X52=208	4X52=208	3X65=195	3X65=195	4X65=260	4X65=260	4X65=260	4X65=260	4X65=260	4X75=300	5X75=375	5X110=550
3X42=126	4X42=168	4X42=168	3X50=150	3X50=150	4X50=200	4X50=200	4X50=200	4X50=200	4X50=200	4X60=240	5X70=350	5X90=450
3X35=105	3X35=105	3X35=105	3X42=126	3X42=126	3X45=135	3X45=135	3X45=135	4X42=168	4X42=168	4X42=168	4X50=200	4X75=300
2X25=50	3X25=75	3X25=75	2X32=64	2X32=64	3X32=96	3X32=96	3X32=96	3X32=96	3X32=96	4X32=128	4X40=160	4X55=220

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