

KODIAK⁺ CONE CRUSHERS Specification Sheet



*Crushers shown without standard sheave

CRUSHER

- High efficiency roller bearing design Remote Close Side Setting (CSS) adjustment Digital read out setting control Patented brass bowl threads Patented "no creep" bowl clamp Patented mechanical "crusher duty" cone brake Patented liner retention assembly Low impact Tramp Iron Relief (TIR) system Pressure relief valves Large bore heavy duty relief cylinders Hydraulic "one button" chamber clearing Bronze field replaceable V-Seat liners Permanently precision balanced Protected counter weights Baseframe tub liners field replaceable 400BHN Manganese liners (Select from list of interchangeable liners) Crusher tools **Operation and Maintenance manuals Crusher Feed Hopper**
- HYDRAULIC POWER UNIT 40 gal (151L) reservoir (Filled at the factory)

15HP (11kW) TEFC motor 6 gpm (23Lpm) Remote control panel w/ 50' cable

OIL COOLER 1HP (.75kW) TEFC motor

LUBE ASSEMBLY

25 gal (94L) reservoir (Filled at the factory)
3HP (2.2kW) TEFC motor
6 gpm (23Lpm)
2 X 1500W heaters
Automatic oil cooler bypass
Oil flow meter with failsafe system

PHYSICAL/OPERATING CHARACTERISTICS

K200⁺ 200HP (150kW) K300⁺ 300HP (225kW) K400⁺ 400HP (300kW) Pinion Speeds 800 - 1000 RPM Standard pinion speed 900 RPM K200⁺ 6gr 8V 24.6PD drive sheave K300⁺ 10gr 8V 24.6PD drive sheave K400⁺ 12gr 8V 24.6PD drive sheave

CRUSHER OPTIONS

Cogged belt drive Longer remote cables (100', 150', 200') Hopper extention Hopper extention with overflow chute Cold climate oil recirculating kit Crusher automation package Hydraulic cone brake

Kodiak⁺ Dimensions

	K200 ⁺	K300 ⁺	K400 ⁺				
A	66 in 1667 mm	72.25 in 1835 mm	79.25 in 2013 mm				
В	37.125 in 943 mm	42.25 in 1073 mm	48 in 1219 mm	(G) MAX CLEAR (H)			
С	25.875 in 657 mm	30 in 762 mm	36.5 in 927 mm				
D	14.375 in 365 mm	14.875 in 378 mm	13.75 in 349 mm				
E	16.375 in 416 mm	16.875 in 429 mm	15.75 in 400 mm				
F	23.875 in 607 mm	28.875 in 734 mm	33.75 in 857 mm				
G	79.875 in 2029 mm	83.125 in 2111 mm	90.25 in 2292 mm	→	<	- L>	
н	73.875 in 1876 mm	77.75 in 1975 mm	85.125 in 2162 mm	<n< td=""><td></td><td> S (4X)</td><td></td></n<>		S (4X)	
J	65.5 in 1664 mm	68.25 in 1734 mm	75.375 in 1915 mm			-3 (4x)	
к	40.313 in 1024 mm	41 in 1041 mm	46.25 in 1175 mm		0 0		
L	53.52 in 1359 mm	56.52 in 1436 mm	62.125 in 1578 mm	P ¥ ∉ (- (~			
М	75.375 in 1915 mm	79.75 in 2026 mm	85.25 in 2165 mm	R	0 0	U U	
Ν	38.875 in 987 mm	42 in 1067 mm	44.5 in 1130 mm				
Р	77.5 in 1969 mm	84 in 2134 mm	89 in 2261 mm		~ W->	- V	
Q	38.875 in 987 mm	42 in 1067 mm	44. in 1130 mm		—X——►		
R	42 in 1067 mm	46 in 1168 mm	46.25 in 1175 mm		K200 ⁺	K300 ⁺	K400 ⁺
S	1.875 in 47.625 mm	1.625 in 47.625 mm	1.625 in 41.275 mm	HEAD DIAMETER	40 in 1016 mm	45 in 1143 mm	54 in 1372 mm
Т	52 in 1321 mm	55 in 1397 mm	59 in 1499 mm	OPERATING RANGE	800 — 950 rpm	800 — 950 rpm	800 — 950 rpm
U	26 in 660 mm	27.5 in 699 mm	29.5 in 749 mm	HORSEPOWER	200 150 kw	300 225 kw	400 300 kw
V	63.25 in 1607 mm	69.5 in 1765 mm	74 in 1880 mm	TOTAL WEIGHT	34,000 lbs 15,422 kg	41,295 lbs 18,731 kg	52,111 lbs 23,637 kg
W	26 in 660 mm	27.5 in 699 mm	29.5 in 749 mm	UPPER ASSEMBLY WITH LINER	12,560 lbs 5697 kg	18,476 lbs 8381 kg	19,350 lbs 8777 kg
х	52 in 1321 mm	55 in 1397 mm	59 in 1499 mm	LOWER ASSEMBLY WITH MANTLE & SHEAVE	20,300 lbs 9208 kg	23,552 lbs 10,683 kg	31,300 lbs 14,197 kg

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Kodiak⁺ Series Cone Crusher Liner Specification Sheet

K200⁺ Liners

K200 ⁺ Coarse C	hamber			K200 ⁺ Medium (Chamber					
Mantle: 406051X (1249lbs/567kg) Liner: 406053X (1443lbs/655kg)	Α	В	С	Mantle: 406051X (1249lbs/567kg) Liner: 406055X (1480lbs/671kg)	А	В	с			
	9 (228.6mm)	10 (254mm)	2 (50.8mm)		5 3/4 (146mm)	7 (177.8mm)	1 1/4 (31.7mm)			
	8 1/2 (215.9mm)	9 1/2 (241.3mm)	1 1/2 (38.1mm)		5 3/4 (146mm)	6 3/4 (171.4mm)	1 1/8 (28.6)			
	8 1/4 (209.5mm)	9 1/4 (234.9mm)	1 1/4 (31.7mm)	C C	5 1/4 (133.3mm)	6 1/2 (165.1mm)	7/8 (22.2mm)			
	8 (203.2mm)	9 (228.6mm)	1 (25.4mm)	Product Range: 5/8" to 1"	5 3/16 (131.8mm)	6 3/8 (161.9mm)	3/4 (19mm)			
Product Range: 3/4" to 2" Prinion Speed: 900RPM Reduction Ratio: 4:1 to 8:1 Max. (Based on no bowl float. If bowl float occurs then you have gone beyond the allowable eduction ratio.)	7 3/4 (196.8mm)	8 3/4 (222.2mm)	7/8 (22.2mm)	Pinion Speed: 900RPM Pinion Speed: 900RPM Reduction Ratio: 3:1 to 6:1 Max. (Based on no bowl float. If bowl float occurs then you have gone beyond the allowable reduction ratio.)	5 (127mm)	6 1/4 (158.8mm)	5/8 (15.9mm)			
K200 ⁺ Fine Ch	amber			K200 ⁺ Medium Chambe	r with Feed S					
Mantle: 406052X (1109lbs/503kg) _iner: 406056X (1308lbs/593kg)	Α	В	с	Mantle: 406051X(1249lbs/567kg) Liner: 406054X (1480lbs/671kg)	A	В	с			
	3 1/8 (79.4mm)	6 (152.4mm)	7/8 (22.2mm)		7 1/2 (190.5mm)	8 1/2 (215.9mm)	1 1/4 (31.7mm)			
	3 (76.2mm)	4 1/2 (114.3mm)	5/8 (15.9mm)		7 1/4 (184.2mm)	8 1/4 (209.5mm)	1 1/8 (28.6mm)			
C C	2 7/8 (73mm)	4 1/2 (114.3mm)	1/2 (12.7mm)	C C	7 (177.8mm)	8 (203.2mm)	7/8 (22.2mm)			
	2 3/4 (69.8mm)	4 1/2 (114.3mm)	3/8 (9.5mm)		6 7/8 (174.6mm)	7 7/8 (200mm)	3/4 (19mm)			
Product Range: 3/8" to 3/4"" inion Speed: 900RPM Reduction Ratio: 3:1 to 6:1 Max. (Based on no bowl float. If powl float occurs then you have gone beyond the allowable eduction ratio.)				Product Range: 5/8" to 1" Pinion Speed: 900RPM Reduction Ratio: 4:1 to 6:1 Max. (Based on no bowl float. If bowl float occurs then you have gone beyond the allowable reduction ratio.)	6 3/4 (171.4mm)	7 3/4 (196.8mm)	5/8 (15.9mm)			
300 ⁺ Liners	1	1			•					
K300 ⁺ Coarse C	hamber	1	1	K300 ⁺ Medium Coarse Chamber						
Mantle: 456262X (1600lbs/726kg) .iner: 456394 X (1743lbs/791kg)	Α	В	с	Mantle: 456262X (1600lbs/726kg) Liner: 456495X (1868lbs/847kg)	A	В	с			
	9 1/4 (234.9mm)	10 1/8 (257.1mm)	3/4 (19mm)		7 3/4 (196.8mm)	8 3/4 (222.2mm)	3/4 (19mm)			
	9 3/8 (238.1mm)	10 1/4 (260.3mm)	7/8 (22.2mm)	B	7 3/4 (196.8mm)	9 (228.6mm)	7/8 (22.2mm)			
	9 1/2 (241.3mm)	10 3/8 (263.5mm)	1 (25.4mm)		8 (203.2mm)	9 (228.6mm)	1 (25.4mm)			
	9 5/8 (244.4mm)	10 1/2 (266.7mm)	1 1/4 (31.7mm)		8 1/4 (209.5mm)	9 3/8 (238.1mm)	1 1/4 (31.7mm)			
roduct Range: 1" to 2 1/2"" inion Speed: 850RPM (eduction Ratio: 4.1 to 8:1 Max. (Based on no bowl float. If	9 3/4 (274.6mm)	10 3/4 (273mm)	1 1/2 (38.1mm)	Product Range: 3/4" to 1 1/2" Pinion Speed: 850RPM Reduction Ratio: 4:1 to 8:1 Max. (Based on no bowl float. If bowl float occurs then you have gone beyond the allowable	8 1/2 (215.9mm)	9 5/8 (244.4mm)	1 1/2 (38.1mm)			
owl float occurs then you have gone beyond the allowable eduction ratio.)	10 (254mm)	11 (279.4mm)	1 3/4 (44.4mm)	reduction ratio.)	8 3/4 (222.2mm)	9 7/8 (250.8mm)	1 3/4 (44.4mm)			
	10 1/4 (260.3mm)	11 1/4 (285.8mm)	2 (50.8mm)							
K300 ⁺ Medium Chamber with Feed Slots	1	1	1	K300 ⁺ Medium Chamber						
/antle: 456262X (1600lbs/726kg) .iner: 456396X (1871lbs/849kg)	A	В	с	Mantle: 456262X (1600lbs/726kg) Liner: 456395X (1862lbs/845kg)	A	В	с			
BAR	7 7/8 (200mm)	8 7/8 (225.4mm)	5/8 (15.9mm)		6 1/2 (165.1mm)	7 5/8 (193.7mm)	5/8 (15.9mm)			
	8 (203.2mm)	9 (228.6mm)	3/4 (19mm)		6 5/8 (168.2mm)	7 3/4 (196.8mm)	3/4 (19mm)			
C C	8 1/8 (206.4mm)	9 1/8 (231.8mm)	7/8 (22.2mm)		6 3/4 (171.4mm)	7 7/8 (200mm)	7/8 (22.2mm)			
Product Range: 3/4" to 1 3/4"" Pinion Speed: 900RPM Reduction Ratio: 3:1 to 6:1 Max. (Based on no bowl float. If	8 1/4 (209.5)	9 1/4 (234.9mm)	1 (25.4mm)	Product Range: 3/4" to 1 3/4" Pinion Speed: 900RPM	6 7/8 (174.6mm)	8 (203.2mm)	1 (25.4mm)			
		1	1	Reduction Ratio: 3:1 to 6:1 Max. (Based on no bowl float. If	7 1/8	8 1/4	1 1/4			

K300⁺ Liners

K300 ⁺ Medium Fine Chamber				K300 ⁺ Fine Chamber					
Mantle: 456262X (1600lbs/726kg) Liner: 456397X (1843lbs/836kg)	А	в	с	Mantle: 456322X (1604lbs/728kg) Liner: 456398X 1657lbs/752kg)	А	в	с		
	3 5/8 5 1/8 1/2 (92mm) (130.2mm) (12.7mm				2 3/4 (69.8mm)	4 3/8 (111.1mm)	1/4 (6.4mm)		
BA	3 3/4 (95.3mm)	5 1/4 (133.3mm)	5/8 (15.9mm)		2 7/8 ()	4 1/2 (114.3mm)	3/8 (9.5mm)		
	3 7/8 (98.4mm)	5 3/8 (136.5mm)	3/4 (19mm)	Product Range: 3/8" to 5/8"	3 (76.2mm)	4 5/8 (117.5mm)	1/2 (12.7mm)		
Product Range: 1/2" to 7/8"	4 (101.6mm)	5 1/2 (139.7mm)	7/8 (22.2mm)		3 1/8 (79.4mm)	4 3/4 (120.7mm)	5/8 (15.9mm)		
Pinion Speed: 900RPM Reduction Ratio: 3:1 to 6:1 Max. (Based on no bowl float. If bowl float occurs then you have gone beyond the allowable reduction ratio.)	4 1/8 (104.8)	5 5/8 (142.9mm)	1 (25.4mm)	Pinion Speed: 900RPM Reduction Ratio: 3:1 to 6:1 Max. (Based on no bowl float. If bowl float occurs then you have gone beyond the allowable reduction ratio.)	3 1/4 (82.5mm)	4 7/8 (123.8mm)	3/4 (19mm)		
				reduction ratio.)	3 3/8 (85.7mm)	5 (127mm)	7/8 (22.2mm)		

K400⁺ Liners

K400 ⁺ Coarse Chamber				K400 ⁺ Medium Chambe	r with Feed S	Slots	
Mantle: 546034X (2235lbs/1014kg)	A	в	с	Mantle: 546034X (2235lbs/1014kg)	А	в	С
Liner: 546745X (2477lbs/1124kg)	10 1/4 (260.3mm)	11 1/2 ()	3/4 (19mm)	Liner: 546747X (2261lbs/1026kg)	8 1/8 (206.3mm)	9 1/2 (241.3mm)	5/8 (15.9mm
BCA	10 3/8 (263.5mm)	11 5/8 (295.3mm)	7/8 (22.2mm)		8 1/4 (209.5mm)	9 5/8 (244.4mm)	3/4 (19mm)
∼ c	10 1/2 (266.7mm)	11 3/4 (298.4mm)	1 (25.4mm)		8 3/8 (212.7mm)	9 3/4 (274.6mm)	7/8 (22.2mm
Product Range: 1" to 2 1/2"	10 3/4 (273.1mm)	12 (304.8mm)	1 1/4 (31.7mm)		8 1/2 (215.9mm)	9 7/8 (250.8mm)	1 (25.4mm
Flocid relige: 850RPM Reduction Ratio: 4:1 to 8:1 Max. (Based on no bowl float. If bowl float occurs then you have gone beyond the allowable reduction ratio.)	11 1/8 (282.6mm)	12 1/4 (311.2mm)	1 1/2 (38.1mm)	Product Range: 3/4" to 1 1/4" Pinion Speed: 900RPM Reduction Ratio: 3:1 to 6:1 Max. (Based on no bowl float. If	8 3/4 (222.2mm)	10 1/4 (260.3mm)	1 1/4 (31.7mm)
	11 3/8 (288.9mm)	12 1/2 (317.5mm)	1 3/4 (44.4mm)	bowl float occurs then you have gone beyond the allowable reduction ratio.)			
	11 1/2 (292.1mm)	12 3/4 (323.8mm)	2 (50.8mm)				
K400 ⁺ Medium Chamber				K400 ⁺ Medium Fir	e Chamber		
Mantle: 546034X (2235lbs/1014kg) Liner: 546746X (2665lbs/1209kg)	А	в	с	Mantle: 546034X (2235lbs/1014kg) Liner: 546748X (2610lbs/1184kg)	Α	в	с
B C A	6 5/8 (168.2mm)	8 1/8 (206.3mm)	5/8 (15.9mm)		3 1/2 (88.9mm)	5 1/4 (133.4mm)	1/2 (12.7mm)
	6 3/4 (171.4mm)	8 1/4 (209.5mm)	3/4 (19mm)		3 3/4 (95.3mm)	5 3/8 (135.5mm)	5/8 (15.9mm)
C C	6 7/8 (174.6mm)	8 3/8 (212.7mm)	7/8 (22.2mm)		3 7/8 (98.4mm)	5 1/2 (139.7mm)	3/4 (19mm)
Product Range: 3/4" to 1 1/4"	7 (177.8mm)	8 1/2 (215.9mm)	1 (25.4mm)	Product Range: 1/8" to 7/8"	4 (101.6mm)	5 3/4 (146mm)	7/8 (22.2mm)
Pinion Speed: 900RPM Reduction Ratio: 3:1 to 6:1 Max. (Based on no bowl float. If bowl float occurs then you have gone beyond the allowable reduction ratio.)	7 3/8 (187.3mm)	8 3/4 (222.2mm)	1 1/4 (31.7mm)	Pinion Speed: 900 - 950 RPM Reduction Ratio: 3.1 to 6.1 Max. (Based on no bowl float. If bowl float occurs then you have gone beyond the allowable reduction ratio.)	4 1/8 (104.8mm)	5 7/8 (149.2mm)	1 (25.4mm)
K400 ⁺ Fine Chamber		1	1				
Mantle: 546038X (2235lbs/1014kg) Liner: 546749X (2588lbs/1174kg)	А	в	с				
	2 1/8 (54mm)	3 7/8 (98.4mm)	1/4 (6.3mm)				
	2 1/4 (57.2mm)	4 (101.6mm)	3/8 (9.5mm)				
∼ c	2 3/8 (60.3mm)	4 1/8 (104.8mm)	1/2 (12.7mm)				
Product Range: 1/4" to 5/8"	2 1/2 (63.5mm)	4 1/4 (107.9mm)	5/8 (15.9mm)				
Pinion Speed: 950RPM Reduction Ratio: 3:1 to 6:1 Max. (Based on no bowl float. If bowl float occurs then you have gone beyond the allowable reduction ratio.)	2 5/8 (66.7mm)	4 3/8 (111.1mm)	3/4 (19mm)				

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Kodiak⁺ Series Cone Crusher Production Capacities and Gradation Specifications

	Open Circuit Capacities in Tons-Per-Hour											
CLOSED SIDE SETTINGS (CSS)	1/2" (13 mm)	5/8" (16 mm)	3/4" (19 mm)	7/8" (22 mm)	1" (25 mm)	11/4" (32 mm)	11/2" (38 mm)	13/4" (44 mm)	2" (51 mm)			
K200+ GROSS	125-165	140-195	165-220	180-245	220-320	240-345	260-365	260-365	270-385			
THROUGHPUT	(113-150	(127-177	(150-200	(163-222	(200-290	(218-313	(236-331	(236-331	(245-350			
THROUGHFUT	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)			
K300+ GROSS	170-210	190-240	215-270	240-300	270-330	310-385	330-415	350-440	370-460			
THROUGHPUT	(154-191	(172-218	(195-245	(218-272	(245-299	(281-350	(299-376	(318-399	(335-435			
INKOUGHFUI	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)			
K400+ GROSS	210-260	250-315	290-365	315-395	340-425	405-505	440-550	475-595	500-625			
THROUGHPUT	(191-236	(227-286	(263-331	(286-358	(308-386	(367-458	(399-499	(431-540	(454-567			
INKOUGHFUI	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)	mtph)			

Closed Circuit Capacities in Tons-Per-Hour

			east expansion				
K200+ GROSS	115-145	144-190	165-220	185-250	205-275	225-300	245-320
THROUGHPUT	(104-132 mtph)	(131-172 mtph)	(150200 mtph)	(168-227 mtph)	(186-250 mtph)	(204-272 mtph)	(222-290 mtph)
K300+ GROSS	130-165	170-210	190-240	215-270	240-300	270-330	310-385
THROUGHPUT	(118-150 mtph)	(154-191 mtph)	(172-218 mtph)	(195-245 mtph)	(218-272 mtph)	(245-299 mtph)	(281-350 mtph)
K400+ GROSS	165-200	210-260	250-315	290-365	315-395	340-425	425-505
THROUGHPUT	(150-181 mtph)	(191-236 mtph)	(227-286 mtph)	(263-331 mtph)	(286-358 mtph)	(308-386 mtph)	(386-458 mtph)
K200+ NET	97-122	116-152	132-176	148-200	152-204	162-216	174-277
THROUGHPUT	(88-111 mtph)	(105-138 mtph)	(120-160 mtph)	(134-181 mtph)	(138-185 mtph)	(147-196 mtph)	(158-251 mtph)
K300+ NET	110-140	145-178	162-204	178-224	192-240	213-261	223-277
THROUGHPUT	(100-127 mtph)	(132-162 mtph)	(147-185 mtph)	(161-203 mtph)	(174-217 mtph)	(193-237 mtph)	(202-251 mtph)
K400+ NET	140-170	178-221	212-268	241-303	252-316	269-336	292-364
THROUGHPUT	(127-154 mtph)	(161-200 mtph)	(192-243 mtph)	(219-275 mtph)	(229-287 mtph)	(224-305 mtph)	(265-330 mtph)

CLOSED SIDE SETTINGS (CSS)	3/8" (10 mm)	1/2" (13 mm)	5/8" (16 mm)	3/4" (19 mm)	7/8" (22 mm)	1" (25 mm)	11/4" (32 mm)
K200+ RECIRCULATING LOAD	16%	20%	20%	20%	26%	28%	29%
K300+ RECIRCULATING LOAD	15%	15%	15%	17%	20%	21%	28%
K400+ RECIRCULATING LOAD	15%	15%	15%	17%	20%	21%	28%

Minimum closed side setting is the closet setting possible that does not induce bowl float.

Actual minimum closed side setting and production numbers will vary from pit to pit and are influenced by such factors as nature of feed material, ability to screen out fines, manganese condition, and low relief system pressure.

IMPORTANT: Estimated results may differ from published data due to variations in operating conditions and application of crushing and screening equipment. This information does not constitute an expressed or implied warranty, but shows estimated performance based on machine operation within recommended design parameters. Use this information for estimating purposes only.

Kodiak⁺ Product Gradation

Product size	Crusher closed side setting											
	5/16" 7.9mm	3/8" 9.5mm	7/16" 11.1	1/2" 12.7mm	5/8" 15.9mm	3/4" 19mm	7/8" 22.2mm	1" 25.4mm	1-1/4" 31.7mm	1-1/2" 38.1mm	1-3/4" 44.5mm	2" 50.8mm
4" 101.6mm												100
3-1/2" 88.9mm											100	96
3" 76.2mm										100	95	90
2-3/4" 69.8mm										98	92	86
2-1/2" 63.5mm									100	95	88	81
2-1/4" 57.1mm									97	91	83	74
2" 50.8mm								100	94	86	76	65
1-3/4" 44.5mm							100	97	88	79	66	55
1-1/2" 38.1mm						100	96	91	80	68	56	45
1-1/4" 31.7mm					100	97	90	83	70	56	46	38
1" 25.4mm				100	99	90	82	72	58	45	36	29
7/8" 22.2mm			100	99	93	86	74	64	48	38	30	25
3/4" 19mm		100	97	94	87	80	65	54	40	32	26	21
5/8" 15.9mm		98	94	87	80	69	55	46	34	28	22	18
1/2" 12.7mm	100	95	88	80	69	58	47	39	28	23	19	16
3/8" 9.8mm	91	84	73	63	52	44	37	28	21	17	14	12
5/16" 7.9mm	85	74	63	54	46	37	31	25	19	15	13	10
1/4" 6.4mm	74	61	50	44	36	32	26	21	16	13	11	9
4M	58	48	42	35	32	26	21	18	14	11	9	7
5/32" 3.9mm	50	41	36	30	28	23	18	15	12	10	8	6
8M	40	35	30	26	24	20	16	12	9	7	5	4
10M	35	31	26	22	20	18	14	10	8	6	4	3
16M	28	24	21	17	15	13	10	8	6	4	3	2
30M	20	18	15	11	9	8	6	5	4	3	2	1.5
40M	18	15	14	10	8	7	5	4	3	2	1.5	1
50M	14	12	12	8	7	6	4	3	2	1.5	1	0.8
100M	11	9	9	7	6	5	4	3	1.5	1	0.5	0.5
200M	8	7	6	6	5	4	3	2	1	0.5	0.5	0.3

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