Column3

Last updated: 30 May 2023

You are welcome to contribute to this list by suggesting new mining machines, specifying the real average efficiency for a given equipment type, or providing estimates on the number of machines sold per type. The more information you add to your comment, the more likely it will be considered.

Lejonta D. Jones is the owner of this data

likely it will be considered.	Lejonia D. Jon	ies is the owner	บา แทร นสเส	
Lejonta D. Jones	Туре	Date of release	UNIX_date_of _release	Hashing power (Th/s)
Intel Core i5-650	CPU	01/01/2009	1,230,768,000	0.0000051
Intel Core i7-990x (overclocked)	CPU		<u> </u>	
Nvidia GPU GTX 570 (overclocked)	GPU		1,283,299,200	
AMD GPU 7970 (overclocked) Xilinx Spartan-6s	GPU FPGA		1,322,697,600 1,306,886,400	
X6500 FPGA Miner	FPGA		1,312,156,800	
Avalon 1	ASIC		1,359,676,800	
Bitmain Antminer S1	ASIC		1,383,264,000	
Bitmain Antminer S3		01/07/2014	1,404,172,800	0.4780000
Bitmain Antminer S5		01/12/2014	1,417,392,000	1
Bitmain Antminer S7		01/09/2015	1,441,065,600	5
Bitmain Antminer S9 (11.5Th)		01/06/2016	1,464,739,200	12
Bitmain Antminer S7-LN		01/06/2016	1,464,739,200	3
Bitmain Antminer R4		01/02/2017	1,485,907,200	9
Bitmain Antminer S9 (12.5Th)		01/02/2017	1,485,907,200	13
Bitmain Antminer T9 (11.5Th)		01/04/2017	1,491,004,800	12
Canaan AvalonMiner 741		01/04/2017	1,491,004,800	7
Bitmain Antminer S9 (13Th)		01/07/2017	1,498,867,200	13
Bitmain Antminer T9 (12.5Th)		01/08/2017	1,501,545,600	13
Bitmain Antminer S9 (13.5Th)		01/09/2017	1,504,224,000	14
Pantech SX6		01/09/2017	1,504,224,000	9
Bitmain Antminer S9 (14Th)		01/11/2017	1,509,494,400	14
Bitfury B8		01/12/2017	1,512,086,400	49
Ebang Ebit E9+		01/01/2018	1,514,764,800	9
Bitmain Antminer T9+ (10.5Th)		01/01/2018	1,514,764,800	11
MicroBT Whatsminer M3		01/01/2018	1,514,764,800	12
Bitfily Snow Panther A1		01/01/2018	1,514,764,800	49
Pantech WX6		01/01/2018	1,514,764,800	34
Ebang Ebit E10		01/02/2018	1,517,443,200	18
Canaan AvalonMiner 821		01/02/2018	1,517,443,200	12
Bitmain Antminer V9 (4Th)		01/03/2018	1,519,862,400	4
MicroBT Whatsminer M3X		01/03/2018	1,519,862,400	13
Halong Mining DragonMint T1		01/04/2018	1,522,540,800	16
Canaan AvalonMiner 841		01/04/2018	1,522,540,800	14
ASICminer 8 Nano Pro		01/05/2018	1,525,132,800	76
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Innosilicon T2 Terminator	01/05/2018 1,525,132,800	17
Bitmain Antminer S9i (14Th)	01/05/2018 1,525,132,800	14
Bitmain Antminer S9i (13.5Th)	01/05/2018 1,525,132,800	14
Bitmain Antminer S9i (13Th)	01/05/2018 1,525,132,800	13
Ebang Ebit E9.2	01/05/2018 1,525,132,800	12
Ebang Ebit E9.3	01/05/2018 1,525,132,800	16
Bitfily Snow Panther B1	01/07/2018 1,530,403,200	16
Aladdin Miner 16Th/s Bitcoin	01/07/2018 1,530,403,200	16
Ebang Ebit E9i	01/07/2018 1,530,403,200	14
Innosilicon T2 Turbo	01/08/2018 1,533,081,600	24
Bitfily Snow Panther B1+	01/08/2018 1,533,081,600	25
Bitmain Antminer S9j (14.5Th)	01/08/2018 1,533,081,600	15
Bitmain Antminer S9 Hydro (18Th)	01/08/2018 1,533,081,600	18
MicroBT Whatsminer M10S	01/09/2018 1,535,760,000	55
MicroBT Whatsminer M10	01/09/2018 1,535,760,000	33
Innosilicon T2 Turbo+ 32T	01/09/2018 1,535,760,000	32
Canaan AvalonMiner 921	01/09/2018 1,535,760,000	20
Ebang Ebit E11++	01/10/2018 1,538,352,000	44
ASICminer 8 Nano 44Th	01/10/2018 1,538,352,000	44
Ebang Ebit E11+	01/10/2018 1,538,352,000	37
Ebang Ebit E11	01/10/2018 1,538,352,000	30
GMO miner B2	01/10/2018 1,538,352,000	24
Bitfury Tardis	01/11/2018 1,541,030,400	80
Bitmain Antminer S11 (20.5Th)	01/11/2018 1,541,030,400	21
GMO miner B3	01/11/2018 1,541,030,400	33
Holic H22	01/12/2018 1,543,622,400	22
Holic H28	01/12/2018 1,543,622,400	28
Bitmain Antminer S15 28T	01/12/2018 1,543,622,400	28
Bitmain Antminer T15 23T	01/12/2018 1,543,622,400	23
Innosilicon T3 43T	01/01/2019 1,546,300,800	43
Innosilicon T3 39T	01/03/2019 1,551,398,400	39
Bitmain Antminer S17 Pro (53Th)	01/04/2019 1,554,076,800	53
Bitmain Antminer S17 Pro (50Th)	01/04/2019 1,554,076,800	50
Bitmain Antminer S17 (56Th)	01/04/2019 1,554,076,800	56
Bitmain Antminer S17 (53Th)	01/04/2019 1,554,076,800	53
Innosilicon T3+ 52T	01/05/2019 1,556,668,800	52
Bitmain Antminer T17 (40Th)	01/05/2019 1,556,668,800	40
MicroBT Whatsminer M21S	01/06/2019 1,559,347,200	56
StrongU STU-U8	01/07/2019 1,561,939,200	46
Innosilicon T3	01/07/2019 1,561,939,200	50
Bitmain Antminer S9 SE	01/07/2019 1,561,939,200	16
MicroBT Whatsminer M21	01/08/2019 1,564,617,600	31
MicroBT Whatsminer M20S	01/08/2019 1,564,617,600	68
Bitmain Antminer S9k	01/08/2019 1,564,617,600	14
StrongU STU-U8 Pro	01/09/2019 1,567,296,000	60
Ebang Ebit E12+	01/09/2019 1,567,296,000	50
Innosilicon T3+	01/09/2019 1,567,296,000	57

Ebang Ebit E12	01/09/2019 1,567,296,000	44
Canaan AvalonMiner 1066	01/09/2019 1,567,296,000	50
Canaan AvalonMiner 1047	01/09/2019 1,567,296,000	37
Bitmain Antminer S17e	01/11/2019 1,572,566,400	
		64
Bitmain Antminer T17e	01/11/2019 1,572,566,400	53
Bitmain Antminer S17+	01/12/2019 1,575,158,400	73
Bitmain Antminer T17+	01/12/2019 1,575,158,400	64
ASICminer 8 Nano S 58Th	01/12/2019 1,575,158,400	58
MicroBT Whatsminer M30S	01/04/2020 1,585,699,200	86
MicroBT Whatsminer M31S	01/04/2020 1,585,699,200	70
Bitmain Antminer S19 Pro (110Th)	01/05/2020 1588291200	110
Bitmain Antminer S19 (95Th)	01/05/2020 1588291200	95
Bitmain Antminer T19 (84Th)	01/06/2020 1590969600	84
MicroBT Whatsminer M32	01/07/2020 1593561600	62
Canaan AvalonMiner 1166 Pro	01/08/2020 1596240000	81
Canaan AvalonMiner 1146 Pro	01/08/2020 1596240000	63
StrongU Hornbill H8	01/10/2020 1601510400	74
MicroBT Whatsminer M30S+	01/10/2020	100
MicroBT Whatsminer M30S++	01/10/2020	112
MicroBT Whatsminer M32S	01/11/2020 1604188800	66
MicroBT Whatsminer M31S+	01/12/2020	80
Canaan AvalonMiner 1246	01/02/2021 1612137600	90
Aisen A1 Pro	01/05/2021 1619827200	23
Bitmain Antminer S19j (90Th)	01/06/2021 1622505600	90
Bitmain Antminer S19j Pro (100Th)	01/06/2021 1622505600	100
Bitmain Antminer S19j Pro (104Th)	01/07/2021	104
Canaan AvalonMiner 1126 Pro	01/08/2021	68
Bitmain Antminer T19 (88Th)	01/08/2021	88
Bitmain Antminer S19j Pro (96Th)	01/08/2021	96
Canaan Avalon 1266	02/04/2022	100
MicroBT Whatsminer M50	01/04/2022	114
MicroBT Whatsminer M50S	01/04/2022	126
MicroBT Whatsminer M53	01/04/2022	230
MicroBT Whatsminer M53S	01/04/2022	260
Bitmain Antminer S19 Pro+ Hyd Bitmain Antminer S19 XP	01/05/2022	198
Bitmain Antminer T19 Hydro	01/07/2022 01/10/2022	140 145
Bitmain Antminer 119 Hydro	01/10/2022	158
Bitmain Antminer S19 XP Hydro	01/10/2022	255
Canaan Avalon 1346	01/11/2022	110
Canaan Avalon 1366	01/11/2022	130
MicroBT Whatsminer M33S++	01/12/2022	242
Bitmain Antminer S19j Pro+	01/12/2022	122
MicroBT Whatsminer M50S+	01/12/2022	136
Bitmain Antminer S19 Pro Hydro	01/01/2023	177
MicroBT WhatsMiner M56	01/01/2023	194
MicroBT WhatsMiner M56S	01/01/2023	212
Bitmain Antminer S19k Pro	01/04/2023	136
MicroBT Whatsminer M50S++	01/05/2023	150
MicroBT Whatsminer M53S++	01/05/2023	320
MicroBT Whatsminer M56S++	01/05/2023	230
Bitmain Antminer S19j XP	01/06/2023	151
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01/09/2023	135
01/09/2023	150
01/09/2023	170
01/09/2023	200
01/09/2023	335
02/2024	172
02/2024	186
02/2024	190
	01/09/2023 01/09/2023 01/09/2023 01/09/2023 02/2024 02/2024

			Efficience	
	Efficiency		Efficiency:	Included in
Power (W)	(J/Gh)	Weight in kg	suggested alternative(s)	version
1 Owel (W)	(3/311)	Weight in kg	arternative(3)	Version
73	14313.7255			1.1.1
224	6787.8788			1.1.1
373 375	2405.1613 554.8148			1.1.1
60	75.0000			1.1.1
17	43.0000			1.1.1
595	9.9167			1.1.1
360	2.0000			1.1.1
366	0.7657	5.2		1.0.0
590	0.5108	12.5		1.0.0
1,293	0.2734	3.9		1.0.0
1,127	0.0980	4.2		1.0.0
697	0.2581	7.5		1.0.0
845	0.0971	2.5		1.0.0
1,225	0.0980	4.2		1.0.0
1,450	0.1261	3.8		1.0.0
1,150	0.1575	4.3		1.0.0
1,300	0.1000	4.2		1.0.0
1,576	0.1261	3.8		1.0.0
1,323	0.0980	4.2		1.0.0
1,000	0.1176	3		1.0.0
1,372	0.0980	4.2		1.0.0
6,400	0.1306	37		1.0.0
1,300	0.1444	4.7		1.0.0
1,432	0.1364	4.2		1.0.0
2,000	0.1667	8.1		1.0.0
5,400		40		1.0.0
5,000		13		1.0.0
1,650		9.8		1.0.0
1,200		4.7		1.0.0
1,027		3.05		1.0.0
2,050		7.5		1.0.0
1,480		6		1.0.0
1,290	0.0949	4.7		1.0.0
4,000		68		1.0.0
7,000	0.0020	30		1.0.0

1	,570	0.0913	7.5	1.0.0
1	,320	0.0943	4.2	1.0.0
1	,310	0.0970	4.2	1.0.0
1	,280	0.0985	4.2	1.0.0
1	,320	0.1100	4.7	1.0.0
1	,760	0.1100	6.9	1.0.0
1	,380	0.0863	4.5	1.0.0
1	,400	0.0875	4.48	1.0.0
1	,420	0.1052	5.5	1.0.0
1	,980	0.0825	7.5	1.0.0
2	2,100	0.0857	5.7	1.0.0
1	,350	0.0931	4.2	1.0.0
1	,728	0.0960	5.15	1.0.0
3	3,500	0.0636	10.7	1.0.0
2	2,145	0.0650	8.55	1.0.0
2	2,200	0.0688	7.5	1.0.0
1	,700	0.0850	5.5	1.0.0
1	,980	0.0450	6	1.0.0
2	2,100	0.0477	27	1.0.0
2	2,035	0.0550	6	1.0.0
1	,950	0.0650	6	1.0.0
1	,950	0.0813	4	1.0.0
6	6,300	0.0788	37	1.0.0
1	,530	0.0746	6.5	1.0.0
3	3,417	0.1035	5	1.0.0
1	,700	0.0773	5	1.0.0
2	2,100	0.0750	5	1.0.0
1	,596	0.0570		1.3.1
1	,541	0.0670		1.3.1
2	2,100	0.0488	10	1.0.0
2	2,150	0.0551	8.65	1.0.0
2	2,094	0.0395	9.5	1.0.0
1	,975	0.0395	9.5	1.0.0
2	2,520	0.0450	9.5	1.0.0
2	2,385	0.0450	9.5	1.0.0
	2,200	0.0423	10	1.0.0
	2,200	0.0550	11.5	1.0.0
	3,360	0.0600	12.5	1.0.1
	2,100	0.0457	8.2	1.0.1
	3,100	0.0620	10	1.0.1
	,280	0.0800	4.56	1.0.1
	,860	0.0600	7.15	1.0.1
	3,360	0.0494	12.5	1.0.1
	,310	0.0970	4.2	1.0.1
	2,800	0.0467	8.2	1.0.1
	2,500	0.0500	10.5	1.0.1
3	3,300	0.0579	10.38	1.0.1

2,500	0.0568	10.15	1.0.1
3,250	0.0650	11.4	1.0.1
2,380	0.0643	7.6	1.0.1
2,880	0.0450	10.5	1.0.1
2,915	0.0550	12.21	1.0.1
2,920	0.0400	11	1.0.1
3,200	0.0500	10	1.0.1
2,500	0.0431	27	1.0.2
3,268	0.0380	10.5	1.0.2
3,220	0.0460	12.5	1.0.2
3,250	0.0295	13.2	1.0.2
3,250	0.0342	13.2	1.0.2
3150	0.0375	14.2	1.0.3
3348	0.0540	10.5	1.0.3
3400	0.0420	12.8	1.0.3
3276	0.0520	12.8	1.0.3
3330	0.0450	11.5	1.0.5
3472	0.0347		1.2.0
3400	0.0304		1.2.0
3432	0.0520	12.5	1.0.5
3360	0.0420	10.0	1.2.0
3420	0.0380	12.8	1.0.5
2200	0.0957	9	1.0.5
3250	0.0361	13.2	1.0.5
3050	0.0305	13.2	1.0.5
3068	0.0295		1.2.0
3420	0.0503		1.3.1
3344	0.0380		1.2.0 1.2.0
2832 3500	0.0295 0.0350		1.4.0
3306	0.0390		1.2.0
3276	0.0260		1.2.0
6670	0.0290		1.4.0
6760	0.0260		1.4.0
5445	0.0275		1.2.0
3010	0.0215		1.2.0
5451	0.0213		1.3.1
5438	0.0344		1.3.1
5304	0.0208		1.3.1
3300	0.0300		1.3.1
3250	0.0250		1.3.1
7260	0.0300		1.3.1
3355	0.0275		1.3.1
3264	0.0240		1.4.0
5221	0.0295		1.3.1
5550	0.0286		1.3.1
5550	0.0262		1.3.1
3264	0.0240		1.4.0
3300	0.0220		1.4.0
7040	0.0220		1.4.0
5060	0.0220		1.4.0
3247	0.0215		1.4.0

3310	0.0245		
3230	0.0215		
3280	0.0193		
3500	0.0175		
5360	0.0160		
3422	0.0199		
3441	0.0185		
3610	0.0190		

Column1	0
\ dditions	al comments
Additiona	il Collinellis
Dood on	Toylor (2016). For the leak of available heabrate
	Taylor (2016). For the lack of available hashrate
	nce data on other CPU models, we use this
	spite it only being released in January 2010.
	Taylor (2016).
	Taylor (2016).
	Taylor (2016)
	Taylor (2016).
Based on	Taylor (2016).
Based on	Taylor (2016).
Based on	Taylor (2016).
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You are welcome to contribute to this list by suggesting new mining machines, specifying the real ave

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Miner_name	Туре	Brand	Date of release	UNIX_date_of _release	Hashing power (Mh/s)
iPollo V1 Mini SE Plu		iPollo	01/08/2022	_lelease	400
iPollo V1 Mini SE	asic	iPollo	01/08/2022		200
Bitmain Antminer E9		Bitmain	01/07/2022		2400
iPollo V1 Classic	asic	iPollo	01/06/2022		1550
Jasminer X4-Q	asic	Jasminer	01/06/2022		1040
iPollo V1 Mini Classic		iPollo	01/06/2022		280
iPollo V1 Mini	asic	iPollo	01/06/2022		300
iPollo V1 Mini Classio	asic	iPollo	01/06/2022		130
iPollo V1	asic	iPollo	01/06/2022		3600
AMD RX 6650 XT	gpu	AMD	01/05/2022		37
AMD RX 6750 XT	gpu	AMD	01/05/2022		57.92
AMD RX 6950 XT	gpu	AMD	01/05/2022		77.21
AMD RX 6500 XT 4G		AMD	19/01/2022		13.1
Nvidia RTX 3050	gpu	Nvidia	04/01/2022		23.20288
Nvidia RTX 3090Ti	gpu	Nvidia	01/01/2022		132
Jasminer X4 Brick (65	asic	Jasminer	01/12/2021		65
Innosilicon A11 Pro E	asic	Innosilicon	01/11/2021		1500
Jasminer X4 Server (	t asic	Jasminer	01/11/2021		520
Jasminer X4 Server (	asic	Jasminer	01/11/2021		2500
Jasminer X4 Server (	asic	Jasminer	01/11/2021		450
AMD RX 6600	gpu	AMD	01/10/2021		29.14245
Nvidia CMP 170HX	gpu	Nvidia	01/09/2021		161.55
Nvidia RTX A2000	gpu	Nvidia	10/08/2021		32.70748
AMD RX 6600 XT	gpu	AMD	01/08/2021		32.32455
Nvidia CMP 90HX	gpu	Nvidia	28/07/2021		89.4
Nvidia CMP 50HX	gpu	Nvidia	24/06/2021		54.12
Innosilicon A11	asic	Innosilicon	01/06/2021		1500
Nvidia RTX 3070Ti	gpu	Nvidia	01/06/2021		81.818
Nvidia RTX 3080Ti	gpu	Nvidia	01/06/2021		112.78
Nvidia RTX 3050Ti La	gpu	Nvidia	10/05/2021		23.018
Nvidia RTX A4000	gpu	Nvidia	01/05/2021		61.21572
Nvidia RTX A5000	gpu	Nvidia	01/05/2021		105.1
Nvidia RTX A30	gpu	Nvidia	01/04/2021		102
AMD RX 6700 XT	gpu	AMD	01/03/2021		47.02455
Nvidia CMP 30HX	gpu	Nvidia	25/02/2021		29.426
Nvidia CMP 40HX	gpu	Nvidia	25/02/2021		40.89
Nvidia RTX 3060	gpu	Nvidia	01/02/2021		49.64
Linzhi Phoenix	asic	Linzhi	01/12/2020		2600
Innosilicon A10 Pro+		Innosilicon	01/12/2020		750
Innosilicon A10 Pro+	asic	Innosilicon	01/12/2020		720
Nvidia RTX 3060Ti	gpu	Nvidia	01/12/2020		60.21

AMD RX 6900 XT	gpu	AMD	01/12/2020	64.08
Nvidia RTX A6000	gpu	Nvidia	01/12/2020	93.6
AMD RX 6800	gpu	AMD	01/11/2020	63.18
AMD RX 6800 XT	gpu	AMD	01/11/2020	61.81
Nvidia A40	GPU	Nvidia	05/10/2020	83
Nvidia RTX 3070	gpu	Nvidia	01/10/2020	61.7857
Nvidia RTX 3080	gpu	Nvidia	01/09/2020	97.878
Nvidia RTX 3090	gpu	Nvidia	01/09/2020	121.162
NVIDIA Tesla A100	GPU	Nvidia	14/05/2020	170
Innosilicon A10 Pro	asic	Innosilicon	01/05/2020	500
AMD RX 5600	gpu	AMD	01/01/2020	40.454
AMD RX 5600 XT	gpu	AMD	01/01/2020	40.454
AMD RX 5500 XT	gpu	AMD	12/12/2019	30.683
Nvidia GTX 1650 Sup	gpu	Nvidia	22/11/2019	5.649376
Nvidia GTX 1660 Sup	gpu	Nvidia	29/10/2019	31.606
AMD RX 5500	gpu	AMD	01/10/2019	30.683
Nvidia RTX 2080 Sup	gpu	Nvidia	23/07/2019	44.543
Nvidia RTX 2060 Sup	gpu	Nvidia	09/07/2019	38.75065
Nvidia RTX 2070 Sup	gpu	Nvidia	09/07/2019	37.451
AMD RX 5700 XT	gpu	AMD	01/07/2019	54.282
AMD RX 5700	gpu	AMD	01/07/2019	54.86
Nvidia Quadro P2200	GPU	Nvidia	10/06/2019	13.78
AMD Radeon VII	gpu	AMD	01/06/2019	104.6
Nvidia GTX 1650	gpu	Nvidia	23/04/2019	13.887
Nvidia GTX 1660	gpu	Nvidia	14/03/2019	21.33533
Nvidia GTX 1660Ti	gpu	Nvidia	22/02/2019	25.84274
Nvidia RTX 2060	gpu	Nvidia	07/01/2019	27.735
Nvidia TITAN RTX	GPU	Nvidia	18/12/2018	56
Nvidia Quadro RTX 4		Nvidia	13/11/2018	37.04
AMD RX 590	gpu	AMD	01/11/2018	29.533
Nvidia RTX 2070	gpu	Nvidia	17/10/2018	36.623
Nvidia RTX 2080Ti	gpu	Nvidia	27/09/2018	59.21295
Nvidia RTX 2080	gpu	Nvidia	20/09/2018	37.30829
Nvidia Tesla T4	GPU	Nvidia	13/09/2018	24
Innosilicon A10	asic	Innosilicon	01/09/2018	500
Nvidia Quadro RTX 8		Nvidia	13/08/2018	55.8
Antminer E3	asic	Bitmain	01/07/2018	180
Antminer E3	asic	Bitmain	01/07/2018	190
Nvidia GTX 1050	gpu	Nvidia	21/05/2018	12.529
Nvidia P102-100	gpu	Nvidia	12/02/2018	44.54744
Nvidia P104-100	gpu	Nvidia	12/12/2017	32.50744
Nvidia Titan V	gpu	Nvidia	07/12/2017	74.365
Antminer G2	ASIC	Bitmain	01/12/2017	220
Nvidia GTX 1070Ti	gpu	Nvidia	02/11/2017	28.444
AMD RX Vega 56		AMD	28/08/2017	47.52453
AMD RX Vega 50	gpu	AMD	14/08/2017	49.24512
Nvidia P106-100	gpu	Nvidia	19/06/2017	21.36714
1441019 1 TOO-TOO	gpu	inviula	19/00/2017	21.30/14

AMD Vega Frontier	E gpu	AMD	01/06/2017	31.1363
AMD RX 570	gpu	AMD	01/04/2017	31.314
AMD RX 580	gpu	AMD	01/04/2017	32.74
AMD RX 560	gpu	AMD	01/04/2017	10.272
AMD RX 550	gpu	AMD	01/04/2017	11.967
Nvidia GTX 1080Ti	gpu	Nvidia	10/03/2017	45.67582
Nvidia GTX 1050Ti	gpu	Nvidia	03/01/2017	15.984
Nvidia Quadro GP1	0( GPU	Nvidia	01/10/2016	40
Nvidia Tesla P40	GPU	Nvidia	13/09/2016	35
AMD RX 460	gpu	AMD	08/08/2016	13.12675
AMD RX 470	gpu	AMD	04/08/2016	31.5678
Nvidia GTX 1060	gpu	Nvidia	19/07/2016	19.9714
AMD RX 480	gpu	AMD	29/06/2016	25
Nvidia Tesla P100-P	C gpu	Nvidia	20/06/2016	44.84675
Nvidia GTX 1070	gpu	Nvidia	10/06/2016	25.911
Nvidia GTX 1080	gpu	Nvidia	27/05/2016	35.158
AMD R9 380X	GPU	AMD	01/11/2015	22
AMD R9 380	GPU	AMD	18/06/2015	20
AMD R9 390	GPU	AMD	18/06/2015	18
Nvidia GTX 980 Ti	GPU	Nvidia	02/06/2015	21.5
Nvidia Titan XP	gpu	Nvidia	17/03/2015	49.023
Nvidia TITAN X	GPU	Nvidia	17/03/2015	32.28
Nvidia GTX 960	GPU	Nvidia	22/01/2015	1.63
Nvidia GTX 970	GPU	Nvidia	19/09/2014	31.25
Nvidia GTX 980	GPU	Nvidia	19/09/2014	1.88

## h Mining Equipment List .ast updated:

.ast updated:						
	a given equip	ment type, or prov	iding estimates		f machines sol	d per type. The
Memory size				Efficiency:		A dditional
in Gigabyte (GB) P	ower (W)	Efficiency_Mh/J	Weight in ka	suggested alternative(s)	Version	Additional comments
(GB) P	232	1.724137931	weight ill kg	anemanve(3)	1.0	
5.8	116	1.724137931			1.0	
6	1920	1.724137931			1.0	
3.75	1240	1.25			1.0	
3.75	480	2.166666667			1.0	
5.75	270	1.037037037			1.0	
6	240	1.25			1.0	
3.8	104	1.25			1.0	
6	3100	1.161290323			1.0	
8	55	0.672727273			1.0	
12	100	0.5792			1.0	
16	145	0.532482759			1.0	
4	90	0.145555556			1.0	
8	75	0.309371733			1.0	
24	346	0.38150289			1.0	
5	30	2.166666667			1.0	
8	2350	0.638297872			1.0	
5	240	2.166666667			1.0	
5	1200	2.083333333			1.0	
5	240	1.875			1.0	
8	56	0.520400893			1.0	
16	223	0.724439462			1.0	
6	69	0.474021449			1.0	
8	59	0.547873729			1.0	
10	249	0.359036145			1.0	
10	180	0.300666667			1.0	
8	2300	0.652173913			1.0	)
8	189	0.432899471			1.0	1
12	278	0.405683453			1.0	1
4	75	0.306906667			1.0	1
16	123	0.49768878			1.0	1
24	222	0.473423423			1.0	1
24	140	0.728571429			1.0	1
12	121	0.388632645			1.0	1
8	80	0.367825			1.0	1
10	176	0.232329545			1.0	1
12	110	0.451272727			1.0	1
8	3000	0.866666667			1.0	)
7	1350	0.55555556			1.0	1
6	1300	0.553846154			1.0	1
8	120	0.50175			1.0	1

16	146	0.43890411	1.0
48	240	0.43090411	1.0
16	122	0.517868852	1.0
16	160	0.3863125	1.0
48	190	0.436842105	1.0
8	117	0.528082906	1.0
10	224	0.436955357	1.0
24	290	0.4178	1.0
40	200	0.85	1.0
5	950	0.526315789	1.0
6	101	0.400534653	1.0
6	101	0.400534653	1.0
8	94	0.326414894	1.0
4	75	0.075325013	1.0
6	90	0.351177778	1.0
4	94	0.326414894	1.0
8	192	0.231994792	1.0
8	131	0.295806489	1.0
8	176	0.212789773	1.0
8	91	0.596505495	1.0
8 5	112 65	0.489821429 0.212	1.0 1.0
16	195	0.536410256	1.0
4	75	0.18516	1.0
6	87	0.245233678	1.0
6	105	0.246121333	1.0
6	141	0.196702128	1.0
24	250	0.224	1.0
8	83	0.44626506	1.0
8	160	0.18458125	1.0
8	163	0.224680982	1.0
11	150	0.394753	1.0
8	154	0.242261623	1.0
16	65	0.369230769	1.0
4	750	0.666666667	1.0
48	160	0.34875	1.0
4	800	0.225	1.0
4	760	0.25	1.0
3 5	65	0.192753846	1.0 1.0
5 4	220 122	0.202488364 0.266454426	1.0
12	160	0.46478125	1.0
8	1200	0.46478125	1.0
8	147	0.193496599	1.0
8	165	0.288027455	1.0
8	170	0.289677176	1.0
6	108	0.197843889	1.0
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16	141	0.220824823	1.0
8	80	0.391425	1.0
8	84	0.389761905	1.0
4	45	0.228266667	1.0
4	70	0.170957143	1.0
11	210	0.217503905	1.0
4	70	0.228342857	1.0
16	150	0.266666667	1.0
24	160	0.21875	1.0
2	42	0.312541667	1.0
8	70	0.450968571	1.0
6	104	0.192032692	1.0
4	65	0.384615385	1.0
16	138	0.324976449	1.0
8	133	0.194819549	1.0
8	160	0.2197375	1.0
4	250	0.088	1.0
2	170	0.117647059	1.0
8	300	0.06	1.0
6	250	0.086	1.0
12	240	0.2042625	1.0
12	230	0.140347826	1.0
2	100	0.0163	1.0
4	150	0.208333333	1.0
4	220	0.008545455	1.0