



Grismir® 3000

Competitive Comparison



Atlas Copco	Thor Power	Specification	CS Unitec	Bosch	DeWalt	Hitachi	Makita	
Brazor II	Grismir® 3000	Model Grinder only	Varilex 1600	1853-5	D2847W	G18MR	GA7020	GA9040S
7	2 - 7	Wheel Diameter, in	4 - 7	9 & 7	7	7	7	9
2300	1967	Watts output	1350	2292	3084	980	2200	2400
85	5 to 85	RPM x 100	20 – 73	50	80	60	85	60
6.4	4.7	Weight, lbs	5.3	10.5	13.15	11.9	10.4	12.4
359	419	Power, w/wt, lbs ratio	287	218	235	82	212	194
14	16	Length, in	16	17.5	19	19	18.5	20
n/a	n/a	Street price, \$	500	172	158	254	169	217

		Model eController
1 phase 230 V only	100 to 267 Vac, 50/60hz	Power uptake
>3	9.9	Peak Power, kW
22	9.9	Weight, lbs
5000	2500	Street price, \$

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- ⊖ Use it anywhere in the world – 100 to 267Vac, 50/60hz
- ⊖ **Variable speed** means replace at least **5 tools in one**
- ⊖ 50% Lighter/66% lower vibration/cut noise by 50%
- ⊖ More ergonomic & environmentally friendly (85 versus 91 db(A))*
- ⊖ Better power management means **operator can't freeze the tool** & Better disc wear means **70% less consumables** costs
- ⊖ **Longer life**, >2000 hours tool life versus 250 hours or less for others

⊖ Bottom line – a more productive crew, working longer

⊖ **the lowest total cost of ownership** unit in the market!

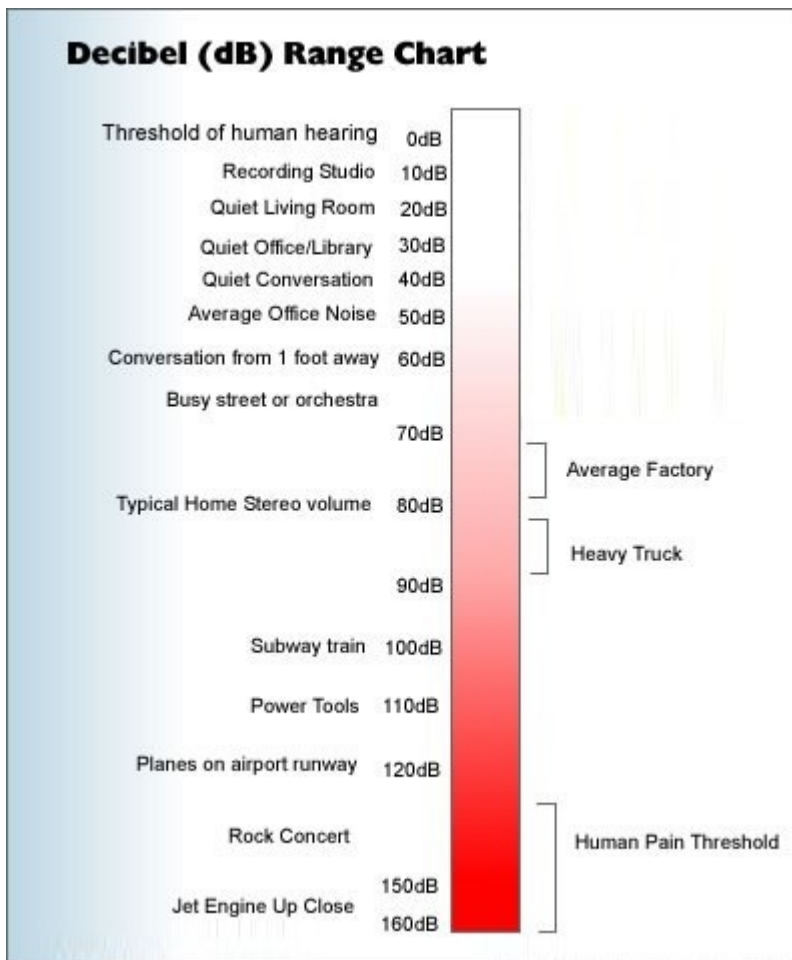
PLUS, DOUBLE EFFICIENT USE OF ELECTRICITY!!!
GRISMIR® 3000 IS 84% EFFICIENT!

*N.B.: 1. Lower vibration: Grismir = 2.5m/sec² versus Vac units = 7.5m/sec², means no carpal tunnel or Musculoskeletal Cumulative Trauma Disorders, and therefore, lower workers comp. claims;
 2. dB(A) sound intensity doubles every 3 dB. Hearing protection should be used for any level over 85 dB and double protection for any level over 105 dB.



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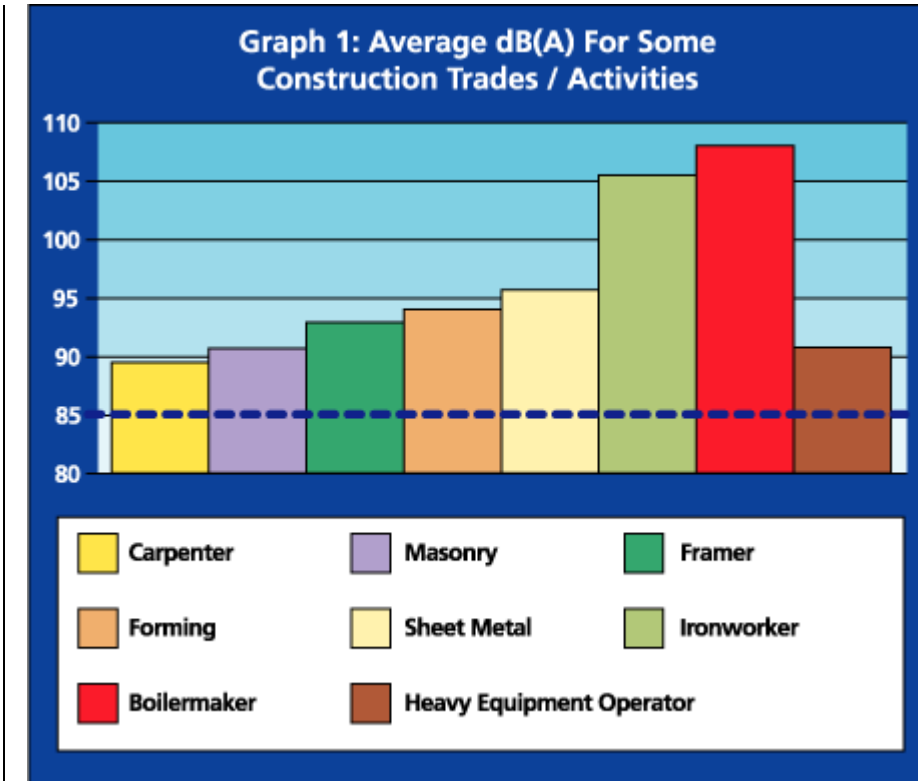
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DECIBEL - dB(A)		EQUIPMENT
Double protection recommended above 105 dB(A)	112	Pile driver
	110	Air arcing gouging
	108	Impact wrench
	107	Bulldozer - no muffle
	102-104	Air grinder
	102	Crane - uninsulated cab
	101-103	Bulldozer - no cab
	97	Chipping concrete
	96	Circular saw and hammering
	96	Jack hammer
Hearing protection recommended above 85 dB(A)	96	Quick-cut saw
	95	Masonry saw
	94	Compactor - no cab
	90	Crane - insulated cab
	87	Loader/backhoe - insulated cab
	86	Grinder
	85-90	Welding machine
	85	Bulldozer - insulated cab
	60-70	Speaking voice

Table 1: Some typical noise levels found on construction sites

HOW MUCH PROTECTION DO YOU NEED?

USE THIS CHART TO WORK OUT THE CORRECT GRADE OF HEARING PROTECTION FOR YOUR WORKPLACE:

HOW LOUD IS THE NOISE HAZARD	DECIBELS	TIME EXPOSED TO NOISE	ALLOWABLE LEVEL	NOISE LEVEL ABOVE LIMIT	RECOMMENDED HEARING PROTECTION GRADE
BELT SANDER	82-92	8 HOURS	85 dBA	Up to 12 dBA	Grade 2
BAND SAW	94-95	4 HOURS	88 dBA		
TRUCK/TRACTOR	90-110	2 HOURS	91 dBA		
SKILL SAW/CHAIN SAW	95-110	1 HOUR	94 dBA	Up to 18 dBA	Grade 3
BAND SAW	94-95	30 MINS	97 dBA		
WOOD PLANER	94-96	15 MINS	100 dBA		
BRAKE RIVETTER	97-99	8 MINS	103 dBA	Up to 24 dBA	Grade 4
GRINDER	83-100	4 MINS	106 dBA		
ROUTER	98-100	2 MINS	109 dBA		
GUILLOTINE	94-103	1 MIN	112 dBA	Up to 30 dBA	Grade 5
WELDING MACHINE	99-100	30 SECS	115 dBA		

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CIRCULAR SAW	100-106				
IMPACT WRENCH	104-107				
DIESEL GENERATOR	107-111				
SAND BLASTING	105-115				
COMPRESSOR	101-123				
PNEUMATIC DRILL	120-130				

APPROVED HEARING PROTECTION GRADES

Hearing Protection Grade	Equivalent Continuous Sound level (8 Hours)	Types of Approved Hearing Protection
1	86-91 dB(A)	Earplugs/Earmuffs
2	92-97 dB(A)	Earplugs/Earmuffs
3	98-103 dB(A)	Earmuffs
4	104-109 dB(A)	Earmuffs
5	110-115 dB(A)	Earmuffs



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Decibel (dB) is the unit used to measure a sound's strength. The decibel scale is not linear but logarithmic. This means that noise levels can't be added directly like other numbers. For example, a backhoe and a compressor each producing 90 dB have a combined output of 93 dB, not 180. But 93 dB is still twice as much noise as 90 dB. In other words, sound intensity doubles every 3 dB. Hearing protection should be used for any level over 85 dB and double protection for any level over 105 dB.

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Sounds must also be specified in terms of frequency or pitch. Most workplace noises include a wide band of frequencies and are measured through the "A" filter in sound-level meters. The noise level is therefore expressed in decibels (dB) on the "A" scale, or dB(A).

Duration of exposure is equally important. Duration is typically measured over a workday and accumulated through many years.

The chart below shows different types of power tools and their noise levels. Always wear hearing protection for anything over 85 dB.

The charts on this page will show you different noise levels for specific jobs, tools, and various situations. The important thing to remember is to always protect your hearing for noise levels above 85 dB and use double protection if levels go over 105dB.

Once your hearing has been damaged it can't be fixed...unless you like the idea of wearing a hearing aid all the time!

Submitted By: Brian

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