



## NURON TOOL SELECTOR

October 2022

## TABLE OF CONTENTS

Table of Contents .....	1
How to read the Tool Selector? .....	2
Rotary hammers cordless .....	3
Combi hammers- hammer drilling in concrete .....	4
Combi Hammers- Chiseling in concrete .....	5
Breakers- Chiseling to wall.....	5
Cordless drill drivers, hammer drills drivers, compact drill drivers.....	6
Impact Fastening – Impact drivers/ wrenches .....	7
Screwdrivers .....	8
Diamond cutting tools.....	8
Angle grinders .....	9
Saws.....	10
Hydraulic tools.....	11
Cutters & Crimpers.....	12
Press .....	13
Cordless cut-out tools .....	13
Cordless Fastening tools.....	13
Disclaimer.....	14

## HOW TO READ THE TOOL SELECTOR?

### Sound pressure Value

The sound pressure level is the physical value which is directly processed by the human ear. It is measured with standard microphones in accordance with EN 60745-2-X or EN62841-2-X. The sound pressure level is strongly dependent on the location of the tool in relation to the microphone. Due to this dependence, it is not a reliable quantity for technical documentation. Therefore, we also declare sound power value. Both values are measured in accordance with the relevant standard EN 60745-2-X or EN62841-2-X, while taking into account the measurement instructions for specific tool classes within the standards.

### Sound power value

This value is computed from several sound pressure levels at different measurement locations. It stands for an overall acoustic energy dissipated by the tool. While using a tool, protective equipment should be used as specified by the manufacturer in the relevant documents.

### Vibration values

Measured in accordance with EN 60745. In certain applications where EN 60745 may not apply, BS EN 5349 is used. All data complies with the Control of Vibration at Work Regulations 2005. The tri-axial vibration value is required for risk analysis.

#### EAV

The "Exposure Action Value" (EAV) of 2.5 m/s<sup>2</sup> is the safer limit and can be worked to without any additional controls in place (risk assessment, health surveillance, inspection etc.). Employees should always aim to work to the EAV.

#### ELV

The "Exposure Limit Value" (ELV) of 5 m/s<sup>2</sup> is the absolute maximum weighted average level for an 8-hour working shift. If an exposure of 2.5m/s<sup>2</sup> within an 8-hour working shift is exceeded, the employer has to take action in accordance with the local legislation.

### Consumables

All values given are valid only for the given tool and consumable as well as the base material.

### HSE Points

The exposure points system is a simple alternative for describing and managing exposures in the workplace. It helps to make the system more tangible and is useful especially when carrying out more than one application per day.

In this product selector the [HSE points](#) system have been combined with Hilti's productivity figures.

**The EAV allows a maximum of 100 point per day.**

**The ELV allows a maximum of 400 point per day.**

### Example:

Tool	Material	Detail	HSE Points	Applications	Total Points
TE 6-22	Concrete 50 N/mm <sup>2</sup>	Hole depth: 100 mm Hole diameter: 10 mm	0,68	20	13,6

This case comes in at below the EAV.

### Applications

#### Drilling

The number of holes that can be drilled for a particular tool and given diameter, depth, work piece material and consumable in a working day before the EAV and ELV (shown in brackets) are given under the productivity data section. The red value is the number of HSE points per hole for the given tool and application.

#### Breaking

The volume of material that can be broken for a particular tool and given work piece material and consumable in a working day before the EAV and ELV (shown in brackets) are given in the productivity data section. The red value is the number of HSE points per litre for the given tool and application.

#### Impact Fastening

The number of nails that can be set for a particular tool and given work piece material and nail type in a working day before the EAV and ELV (shown in brackets) are given under the productivity data section. The red value is the number of HSE points per hole for the given tool and application.

#### Diamond Coring

The number of holes that can be made for a particular tool given diameter, depth, work piece material and consumable in working day before reaching the EAV and ELV (shown in brackets) are given under the productivity data. The red value is the number of HSE points per hole for the given application (hand held).

#### Fastening

The cartridge colour is listed followed by the number of fastenings that can be made in a given day before reaching the EAV and ELV. The HSE points per fixing are listed.

#### Cutting

The length of material and number of cuts that can be made for a particular tool and application in one working day before reaching the EAV and ELV are listed under the productivity data.

## ROTARY HAMMERS CORDLESS

Tool	Dust removal available	Emission sound pressure level L <sub>pA</sub> *	Emission sound power level* dB(A)	Application for vibration value	Battery for vibration	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Work piece material of productivity data	Insert	Productivity data						
												Number of holes till EAV 2,5 m/s <sup>2</sup> for drilling diameter (mm)		Number of holes till ELV 5 m/s <sup>2</sup> for drilling diameter (mm)		HSE points per hole		
												6	8	10	12	14	16	
TE 6-22 & DRS (05)	TE DRS 4/6	91 dB(A)	102 dB(A)	Hammer drilling in concrete	B 22-85	10.6 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	26.7 min	106.8 min	C50	Hilti CX4	holes till EAV	208	181	146	113	90	80
					B 22-170	11.3 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	23.5 min	94.0 min			holes till ELV	831	722	585	453	361	319
	TE 2-22 (03)	92 dB(A)	103 dB(A)		B 22-55	14.7 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	13.9 min	55.5 min			HSE Points	0.48	0.55	0.68	0.88	1.11	1.26
					B 22-110	14.7 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	13.9 min	55.5 min			holes till EAV	183	159	129	100	79	70
												holes till ELV	731	636	515	399	317	280
												HSE Points	0.55	0.63	0.78	1.00	1.26	1.43
TE 2-22 (03)	TE-CX				holes till EAV	141	125	94	70			holes till ELV	564	500	376	282	235	196
					HSE Points	0.71	0.80	1.06	1.42			holes till EAV	141	125	94	70	59	49
					HSE Points	0.71	0.80	1.06	1.42			holes till ELV	564	500	376	282	235	196
					holes till EAV	141	125	94	70			HSE Points	0.71	0.80	1.06	1.42	1.70	2.04
					holes till ELV	564	500	376	282			HSE Points	0.71	0.80	1.06	1.42	1.70	2.04
					HSE Points	0.71	0.80	1.06	1.42									

\* Emission sound pressure level L<sub>pA</sub> and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

### Drilling

The number of holes that can be drilled for a particular tool and given diameter, depth, work piece material and consumable in a working day before the EAV and ELV (shown in brackets) are given in the productivity data section. The red value is the number of HSE points per hole for the given tool and application.

## COMBI HAMMERS- HAMMER DRILLING IN CONCRETE

Tool	Dust removal available	Basic tool data							Work piece material of productivity data	Core bit length or type	Productivity data						
		Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV										
TE 4-A22 (02)	DRS-4A	88 dB(A)	99 dB(A)	11.0 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	25 min	99 min	concrete C50/60	TE-CX		Number of holes to EAV 2,5 m/s <sup>2</sup> (ELV 5 m/s <sup>2</sup> ) for drilling diameter (mm) HSE points per hole 100mm Hole depth 100mm						
											6	8	10	12	14	16	
											holes till EAV	184	148	107	83	72	53
TE 6-A22 (04)	DRS-6A	89 dB(A)	100 dB(A)	13.4 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	17 min	67 min	concrete C50/60	TE-CX		holes till EAV	737	592	429	333	290	212
											HSE Points	0.54	0.68	0.93	1.20	1.38	1.89
											holes till EAV	130	116	91	74	60	48
TE 7-A(01)	DRS-M	88 dB(A)	99 dB(A)	11.0 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	25 min	99 min	concrete 40 N/mm <sup>2</sup>	TE-CX		holes till EAV	520	465	366	295	239	193
											HSE Points	0.77	0.86	1.09	1.35	1.68	2.07
											holes till EAV	#DIV/0!	123	#DIV/0!	105	#DIV/0!	67
TE 4-22 (03)	DRS-4A			12.0 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	21 min	83 min	concrete C50/60	TE-CX		holes till EAV	493	#DIV/0!	421	#DIV/0!	266	
											HSE Points	#DIV/0!	0.81	#DIV/0!	0.95	#DIV/0!	1.50
											holes till EAV	147	124	90	68	66	52
TE 6-22 (05)	DRS-6A	92 dB(A)	103 dB(A)	10.7 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	26 min	105 min	concrete C50/60	TE-CX		holes till EAV	816	709	574	445	354	207
											HSE Points	0.68	0.80	1.11	1.47	1.51	1.93
											holes till EAV	204	177	143	111	89	78
											holes till EAV	816	709	574	445	354	313
											HSE Points	0.49	0.56	0.70	0.90	1.13	1.28

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

Tool	Dust removal available	Basic tool data							Work piece material of productivity data	Core bit length or type	Productivity data										
		Emission sound pressure level LpA*	Emission sound power level*	Application for vibration value	Battery for vibration value	Triaxial vibration value*	Uncertainty K	Time to EAV			6	8	10	12	14	16	18	20	25	28	32
TE 30-22 (03)	TE DRS-D, TE DRS-C	91 dB(A)	102 dB(A)	hammer drilling in concrete	B 22-85	11.4 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	23 min	C50	TE-CX 4th gen	holes till EAV	163	161	129	114	105	87	66	60	38	24
					B 22-255	10.7 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	26 min			holes till ELV	653	643	517	457	420	349	265	241	152	97
				hammer drilling in concrete							HSE Points	0.61	0.62	0.77	0.87	0.95	1.15	1.51	1.66	2.63	4.10
											holes till EAV	185	182	147	130	119	99	75	68	43	28
											holes till ELV	741	730	587	519	477	396	301	274	173	111
											HSE Points	0.61	0.62	0.77	0.87	0.95	1.15	1.51	1.66	2.63	4.10
TE 60-22 (04)	TE DRS-Y, TE DRS-D	95 dB(A)	106 dB(A)	hammer drilling in concrete	B 22-110	10.9 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	25 min	C50	TE-YX (DB4000)	holes till EAV							121	103	75	
											holes till ELV							484	412	298	
											HSE Points							0.83	0.97	1.34	2.10

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

## COMBI HAMMERS- CHISELING IN CONCRETE

Basic tool data										Productivity data				
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level	Application for vibration value	Battery for vibration value	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Work piece material of productivity data	Consumables	Volume till EAV 2,5 m/s <sup>2</sup> (liter)	Volume till ELV 5 m/s <sup>2</sup> (liter)	HSE Points per Liter
TE 30-22 (03)	TE DRS-D, TE DRS-C	91 dB(A)	102 dB(A)	chiseling in concrete	B 22-85	7.4 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	55 min	219 min	B35	TE-CP-SM 18	23.55734112	94.2293645	4.2 HSE points per l
					B 22-255	8.4 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	43 min	170 min			18.28231293	73.1292517	5.5 HSE points per l
TE 60-22 (04)	TE DRS-Y, TE DRS-D	95 dB(A)	106 dB(A)	chiseling in concrete	B 22-110	8.6 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	41 min	162 min	B35	TE YPX-SM	44.61871282	178.4748513	2.2 HSE points per l
					B 22-255	7.8 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	49 min	197 min			54.24063116	216.9625247	1.8 HSE points per l

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

## BREAKERS- CHISELING TO WALL

Basic tool data										Productivity data				
Tool	Battery	Dust removal available	Emission sound pressure level L <sub>pA</sub> *	Emission sound power level	Battery for vibration level	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Work piece material of productivity data	Consumables	Volume till EAV 2,5 m/s <sup>2</sup> (liter)	Volume till ELV 5 m/s <sup>2</sup> (liter)	HSE Points per Liter
TE 2000-22 (01)	B22-255 Li-Ion (01)		87 dB(A)	98 dB(A)	B 22-170 B 22-225	3.8 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	208 min	831 min	Concrete C30	TE-SPX-SM 36			0.00 HSE Points per l
TE 500-22 (02)	B22-255 Li-Ion (01)		95 dB(A)	106 dB(A)	B 22-110	9.2 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	35 min	142 min	Concrete 50/60 N/mm <sup>2</sup>	TE-Y			0.00 HSE Points per l
					B 22-225	7.8 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	49 min	197 min					0.00 HSE Points per l

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

**CORDLESS DRILL DRIVERS, HAMMER DRILLS DRIVERS, COMPACT DRILL DRIVERS**

Tool	Dust removal available	Basic tool data								Work piece material	Core bit length or type	Productivity data													
		Emission sound pressure level L <sub>pA</sub> *	Emissi on sound power level*	Application for vibration	Battery for vibration	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV			Number of holes till EAV 2,5 m/s <sup>2</sup> for drilling diameter (mm) Number of holes till ELV 5 m/s <sup>2</sup> for drilling diameter (mm) <b>HSE points per hole</b> sheet steel thickness (mm) one-step drilling													
												1 mm	2 mm	3 mm	4 mm	5 mm	6 mm	7 mm	8 mm	9 mm	10 mm				
SF 4-22 (02)		75 dB(A)	86 dB(A)	drilling in metal	B 22-55	2.2 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	37190 s	148760 s	mild steel	HSS Spiral drill 6,0x93 mm	55508 (222030) 0.0018 82919 0.0012	27754 (111015) 0.0036 41459 0.0024	18503 (74010) 0.0054 27640 0.0036	13877 (55508) 0.0072 20730 0.0048	11102 (44406) 0.0090 16584 0.0060	9251 (37005) 0.0108 13820 0.0072	7930 (31719) 0.0126 11846 0.0084	6938 (27754) 0.0144 10365 0.0096	6168 (24670) 0.0162 9213 0.0109	5551 (22203) 0.0180 8292 0.0121				
					B 22-110	1.8 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	55556 s	222222 s			(331675) 0.0012	(165837) 0.0024	(110558) 0.0036	(82919) 0.0048	(66335) 0.0060	(55279) 0.0072	(47382) 0.0084	(41459) 0.0096	(36853) 0.0109	(22203) 0.0121				
		no	89 dB(A)	drilling in metal	B 22-55	2.1 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	40816 s	163265 s		mild steel	HSS Spiral drill 6,0x93 mm	60920 (243680) 0.0016 137070 0.0007	30460 (121840) 0.0033 68535 0.0015	20307 (81227) 0.0049 45690 0.0022	15230 (60920) 0.0066 34267 0.0029	12184 (48736) 0.0082 27414 0.0036	10153 (40613) 0.0115 22845 0.0044	8703 (34811) 0.0131 19581 0.0051	7615 (30460) 0.0148 17134 0.0058	6769 (27076) 0.0164 15230 0.0066	6092 (24368) 0.0164 13707 0.0073			
					B 22-110	1.4 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	91837 s	367347 s			(548279) 0.0007	(274140) 0.0015	(182760) 0.0022	(137070) 0.0029	(109656) 0.0036	(91380) 0.0044	(78326) 0.0051	(68535) 0.0058	(60920) 0.0066	(54828) 0.0073				
					hammer drilling in concrete	B 22-55	13.0 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	1065 s	4260 s															
					B 22-110	12.3 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	1190 s	4759 s																
		no	74.5 dB(A)	drilling in metal	B 22-85	1.0 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	180000 s	720000 s	mild steel	HSS Spiral drill 6,0x93 mm	268657 (1074627) 0.0004	134328 (537313) 0.0007	89552 (358209) 0.0011	67164 (268657) 0.0015	53731 (214925) 0.0019	44776 (179104) 0.0022	38380 (153518) 0.0026	33582 (134328) 0.0030	29851 (119403) 0.0034	26866 (107463) 0.0037				
					B 22-170	0.7 m/s <sup>2</sup>						367347 s	mild steel	548279 (2193116) 0.0002	274140 (1096558) 0.0004	182760 (731039) 0.0005	137070 (548279) 0.0007	109656 (438623) 0.0009	91380 (365519) 0.0011	78326 (313302) 0.0013	68535 (274140) 0.0015	60920 (243680) 0.0016	54828 (219312) 0.0018		
					B 22-85	1.2 m/s <sup>2</sup>																			
					B 22-170	1.1 m/s <sup>2</sup>																			
					hammer drilling in concrete	B 22-85	11.9 m/s <sup>2</sup>																		
					B 22-170	10.6 m/s <sup>2</sup>																			
SF 6H-22 (03)	no	94.5 dB(A)	105.5 dB(A)	drilling in metal	B 22-85	1.2 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	125000 s	500000 s	mild steel	HSS Spiral drill 6,0x93 mm	186567 (746269) 0.0005	93284 (373134) 0.0011	62189 (248756) 0.0016	46642 (186567) 0.0021	37313 (149254) 0.0027	31095 (124378) 0.0032	26652 (106610) 0.0038	23321 (93284) 0.0043	20730 (82919) 0.0048	18657 (74627) 0.0054				
					B 22-170	1.1 m/s <sup>2</sup>						148760 s	595041 s	mild steel	HSS Spiral drill 6,0x93 mm	222030 (888121) 0.0005	111015 (444061) 0.0009	74010 (296040) 0.0014	55508 (222030) 0.0018	44406 (177624) 0.0023	37005 (148020) 0.0027	31719 (126874) 0.0032	27754 (111015) 0.0036	24670 (98680) 0.0041	22203 (88812) 0.0045
					1271 s	1271 s																			
					1602 s	1602 s																			

\* Emission sound pressure level L<sub>pA</sub> and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

**IMPACT FASTENING – IMPACT DRIVERS/ WRENCHES**

Basic tool data									Productivity data			
Tool	Dust removal available	Emission sound pressure level L <sub>pA</sub> *	Emission sound power level*	Battery for vibration value	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Number of Screw settings till EAV 2,5 m/s <sup>2</sup>	Number of Screw settings till (ELV 5 m/s <sup>2</sup> )	HSE Points per setting	
SIW 8-22 (01)	no	98 dB(A)	109 dB(A)	B 22-85	15.6 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	740 s	2959 s	148	592	0.68 HSE Points per setting	
				B 22-170	16.5 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	661 s		210	842	0.48 HSE Points per setting	
									110	438	0.91 HSE Points per setting	
									132	529	0.76 HSE Points per setting	
							2645 s	188	752	0.53 HSE Points per setting		
								98	392	1.02 HSE Points per setting		
SID 6-22 (01)	no	90.5 dB(A)	101.5 dB(A)		13.4 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	1002 s	4010 s	397	1587	0.25 HSE Points per setting	
									386	1542	0.26 HSE Points per setting	
									200	802	0.50 HSE Points per setting	
									117	466	0.86 HSE Points per setting	
SIW 6-22 (02)	no	100 dB(A)	111 dB(A)	B 22-85	13.9 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	932 s	3727 s	186	745	0.54 HSE Points per setting	
				B 22-170	12.7 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	1116 s		205	821	0.49 HSE Points per setting	
									99	396	1.01 HSE Points per setting	
									223	893	0.45 HSE Points per setting	
							4464 s	246	984	0.41 HSE Points per setting		
								119	474	0.84 HSE Points per setting		

\* Emission sound pressure level L<sub>pA</sub> and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

## SCREWDRIVERS

Basic tool data									Productivity data		
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Battery for vibration value	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Number of screw settings till EAV 2,5 m/s <sup>2</sup>	Number of screw settings till ELV 5 m/s <sup>2</sup>	HSE Points per screw setting
SD 5000-22 (01)	no	75 dB(A)	86 dB(A)	Drilling without impact B 22-55	0.7 m/s <sup>2</sup>		367347 s	1469388 s	479446	1917784	0.00266 HSE Points per screw

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

## DIAMOND CUTTING TOOLS

Basic tool data									Productivity data			
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Application for vibration value	Battery for vibration value	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Meters / cuts till EAV 2,5 m/s <sup>2</sup>	Meters / cuts till ELV 5 m/s <sup>2</sup>	HSE Points per cutting meter
SJD 6-22 (02)	SJD DRS-6A	86.5 dB(A)	97.5 dB(A)	chipboard	B 22-55	4.8 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	7813 s	31250 s	117 m	469 m	0.85 HSE Points per cutting meter
					B 22-255	3.8 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	12465 s	49861 s	187 m	748 m	0.53 HSE Points per cutting meter
				metal sheet	B 22-55	4.7 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	8148 s	32594 s			
					B 22-255	4.3 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	9735 s	38940 s			
SJT 6-22 (02)		88.0 dB(A)	99.0 dB(A)	chipboard	B 22-55	5.2 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	6657 s	26627 s	100 m	399 m	1.00 HSE Points per cutting meter
					B 22-255	5.3 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	6408 s	25632 s	96 m	384 m	1.04 HSE Points per cutting meter
				metal sheet	B 22-55	8.5 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	2491 s	9965 s			
					B 22-255	7.2 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	3472 s	13889 s			

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

Basic tool data									Productivity data		
Tool	Battery for vibration values	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Meters / cuts till EAV 2,5 m/s <sup>2</sup>	Meters / cuts till ELV 5 m/s <sup>2</sup>	HSE Points per cutting metre
DSH 600-22 (01) neu	B 22-170	DSH-DRS	108 dB(A)	119 dB(A)	1.5 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	80000 s	320000 s	49 m	196 m	2.05 HSE Points per cutting meter
	B 22-255				1.2 m/s <sup>2</sup>		125000 s	500000 s	76 m	306 m	1.31 HSE Points per cutting meter

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

**ANGLE GRINDERS**

Basic tool data										Productivity data		
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Battery for vibration value	Application for vibration value	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Number of Cuts for diameter [mm] till EAV 2,5 m/s <sup>2</sup>	Number of Cuts for diameter [mm] till (ELV 5 m/s <sup>2</sup> )	HSE Points per g
AG 6D-22 (01)	DG-EX 125/5" (for 5" and 6")	85 dB(A)	96 dB(A)	B 22-55	Sanding with sandpaper with the vibration-absorbing side handle	2.7 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	24691 s	98765 s	3355.88 g till EAV	13423.52 g till ELV	0.03 HSE Points per g
				B 22-255		3.7 m/s <sup>2</sup>		13148 s	52593 s			
		85 dB(A)	96 dB(A)	B 22-55	Surface grinding with the vibration-absorbing side handle	6.2 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	4683 s	18730 s	1704.32 g till EAV	6817.28 g till ELV	0.06 HSE Points per g
				B 22-255		8.7 m/s <sup>2</sup>		2378 s	9512 s			
		85 dB(A)	96 dB(A)	B 22-55	cutting					3229.53 g till EAV	12918.11 g till ELV	0.03 HSE Points per g
				B 22-255								
		83 dB(A)	94 dB(A)	B 22-55	sanding		1.5 m/s <sup>2</sup>			2880.66 g till EAV	11522.63 g till ELV	0.03 HSE Points per g
				B 22-255			1.5 m/s <sup>2</sup>					
AG 4S-22 (02)	DC-EX 125/5" C or DC-EX 125/5" M or DG-EX 125/5" (depending on grinding type)	83 dB(A)	94 dB(A)	B 22-55	grinding	5.1 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	6920 s	27682 s	1026.26 g till EAV	4105.03 g till ELV	0.10 HSE Points per g
				B 22-255		5.4 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	6173 s	24691 s			
		83 dB(A)	94 dB(A)	B 22-55	cutting					1536.33 g till EAV	6145.33 g till ELV	0.07 HSE Points per g
				B 22-255								
AG 5D-22 (01)	DC-EX 125/5" C or DG-EX 125/5" (depending on grinding type)	94 dB(A)	105 dB(A)	B 22-55	sanding	3.5 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	14694 s	58776 s	1026.26 g till EAV	4105.03 g till ELV	0.10 HSE Points per g
				B 22-170		3.8 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	12465 s	49861 s			
		94 dB(A)	105 dB(A)	B 22-55	grinding	10.4 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	1664 s	6657 s	1536.33 g till EAV	6145.33 g till ELV	0.07 HSE Points per g
				B 22-170		8.5 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	2491 s	9965 s			
		94 dB(A)	105 dB(A)	B 22-55	cutting					3229.53 g till EAV	12918.11 g till ELV	0.03 HSE Points per g
				B 22-170								

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

**SAWS**

Basic tool data									Productivity data		
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Battery for vibration value	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Cuts till EAV 2,5 m/s <sup>2</sup>	Cuts till ELV 5 m/s <sup>2</sup>	HSE Points per m or cut
SR 4-22 (02)	no	83.5 dB(A)	94.5 dB(A)	B 22-55	11.5 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	1361 s	5444 s	164	656	0.61 HSE Points per cut
				B 22-84	12.2 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	1209 s	4837 s	146	583	0.69 HSE Points per cut
				B 22-55	12.8 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	1099 s	4395 s	69	275	1.46 HSE Points per cut
				B 22-84	11.1 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	1461 s	5844 s	91	365	1.10 HSE Points per cut
SR 6-22 (02)	no	83.0 dB(A)	94.0 dB(A)	B 22-55	18.3 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	537 s	2150 s	54	217	1.84 HSE Points per meter
					13.0 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	1065 s	4260 s	197	789	0.51 HSE Points per cut

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

Basic tool data									Productivity data			
Tool	Battery	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Battery for vibration value	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Meters till EAV 2,5 m/s <sup>2</sup>	Meters till ELV 5 m/s <sup>2</sup>	HSE Points per m
SC 4WL-22 (G1)			89.0 dB(A)	100.0 dB(A)	Cutting wood: B 22-85 B 22-170	0.8 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	281250 s	1125000 s	21634.61538	86538.46154	0.00462 HSE Points per m
										17578.12500	70312.50000	0.00569 HSE Points per m
										27573.52941	110294.11765	0.00363 HSE Points per m
										59326.17188	237304.68750	0.00169 HSE Points per m
										39062.50000	156250.00000	0.00256 HSE Points per m
										23730.46875	94921.87500	0.00421 HSE Points per m
										83705.35714	334821.42857	0.00119 HSE Points per m
SC 5ML-22 (G1)			103.0 dB(A)	114.0 dB(A)	Sawing metal B 22-4.0	1.31 m/s <sup>2</sup>	0.79 m/s <sup>2</sup>	104889 s	419556 s	1604.41311	6417.65243	0.06233 HSE Points per m
										1748.14987	6992.59950	0.05720 HSE Points per m
										806.83840	3227.35361	0.12394 HSE Points per m
										6314.04132	25256.16530	0.01584 HSE Points per m

Basic tool data									Productivity data					
Tool	Battery	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Application for vibration value		Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Cuts till EAV 2,5 m/s <sup>2</sup>	Cuts till ELV 5 m/s <sup>2</sup>	HSE Points per m or cut	
SB 4-22 (02)			86.5 dB(A)	88.0 dB(A)	Wood	B 22-55	1.4 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	91837 s	367347 s			0.06 HSE Points per meter	
						B 22-255	1.6 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	70313 s	281250 s				
					Metal	B 22-55	1.4 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	91837 s	367347 s				
						B 22-255	2.0 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	45000 s	180000 s				

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

## HYDRAULIC TOOLS

Tool	Dust removal available	Basic tool data							Productivity data				
		Emission sound pressure level LpA*	Emission sound power level*	Battery	Triaxial vibration value*	Insert	Uncertainty K	Time to EAV	Time to ELV	Work till EAV 2,5 m/s <sup>2</sup>	Work till ELV 5 m/s <sup>2</sup>	HSE Points per g or per meter	
GFB 6X-22 (02) Band file neu		78	89	B 22-55	2.9 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	357 min	1427 min	159 g	636 g	0.63 HSE Points per g	
				B 22-255	3.2 m/s <sup>2</sup>			293 min	1172 min	131 g	522 g	0.77 HSE Points per g	
GTB 6X-22 (02) Tube belt sander neu		78	89	B 22-55	1.3 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	1775 min	7101 min	879 g	3514 g	0.11 HSE Points per g	
				B 22-255	1.6 m/s <sup>2</sup>			1172 min	4688 min	580 g	2320 g	0.17 HSE Points per g	
GPB 6X-22 (02) Burnisher neu		78	89	B 22-55	2.2 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	620 min	2479 min	917 g	3669 g	0.11 HSE Points per g	
				B 22-255	2.3 m/s <sup>2</sup>			567 min	2268 min	839 g	3357 g	0.12 HSE Points per g	
SPN 6-22 (02) Nibbler neu		98	109	B 22-55	13.1 m/s <sup>2</sup>	(SPN CN)	1.5 m/s <sup>2</sup>	17 min	70 min	26 m	105 m	3.81 HSE Points per meter	
				B 22-255	13.3 m/s <sup>2</sup>			17 min	68 min	25 m	102 m	3.93 HSE Points per meter	
			105	B 22-55	13.8 m/s <sup>2</sup>	(SPN RN)		16 min	63 min	24 m	95 m	4.23 HSE Points per meter	
				B 22-255	14.6 m/s <sup>2</sup>			14 min	56 min	21 m	84 m	4.74 HSE Points per meter	
			106	B 22-55	13.2 m/s <sup>2</sup>	(SPN RL)		17 min	69 min	26 m	103 m	3.87 HSE Points per meter	
				B 22-255	13.5 m/s <sup>2</sup>			16 min	66 min	25 m	99 m	4.05 HSE Points per meter	
SSH 6-22 (02) shear neu		74	85	B 22-55	8.8 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	39 min	155 min	174 m	697 m	0.57 HSE Points per meter	
				B 22-255	9.2 m/s <sup>2</sup>			35 min	142 min	159 m	638 m	0.63 HSE Points per meter	
GDG 6-22 (02) Die grinder neu		72	83	B 22-55	2.4 m/s <sup>2</sup>	Insert <25 mm	1.5 m/s <sup>2</sup>	521 min	2083 min	1866 g	7465 g	0.05 HSE Points per g	
				B 22-255	2.2 m/s <sup>2</sup>			620 min	2479 min	2221 g	8884 g	0.05 HSE Points per g	
				B 22-55	5.0 m/s <sup>2</sup>	Insert 25 - 50 mm		120 min	480 min	430 g	1720 g	0.23 HSE Points per g	
				B 22-255	5.2 m/s <sup>2</sup>			111 min	444 min	398 g	1590 g	0.25 HSE Points per g	
				B 22-55	27.5 m/s <sup>2</sup>	Insert 50 - 55 mm		4 min	16 min	14 g	57 g	7.03 HSE Points per g	
				B 22-255	28.3 m/s <sup>2</sup>			4 min	15 min	13 g	54 g	7.45 HSE Points per g	

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

**CUTTERS & CRIMPERS**

Basic tool data										Productivity data		
Tool	Dust removal available	Battery	Emission sound pressure level L <sub>pA</sub> *	Emission sound power level*	Triaxial vibration value*	Insert	Uncertainty K	Time to EAV	Time to ELV	Work till EAV 2,5 m/s <sup>2</sup>	Work till ELV 5 m/s <sup>2</sup>	HSE Points per cycle
NCT 25 S-22 (02) Cutter			66.0 dB(A)	77.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	80	320	0.02 HSE Points per cycle
NCT 45 S-22 (02) Cutter			66.0 dB(A)	77.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	80	320	0.02 HSE Points per cycle
NCT 53 C-22 (02) Cutter			66.0 dB(A)	77.0 dB(A)	$\leq 2.5 \text{ m/s}^2$		1.5 m/s <sup>2</sup>	480 min	1920 min	36.92307692	147.6923077	0.05 HSE Points per cycle
								480 min	1920 min	36.92307692	147.6923077	0.05 HSE Points per cycle
								480 min	1920 min	48	192	0.03 HSE Points per cycle
								480 min	1920 min	48	192	0.03 HSE Points per cycle
								480 min	1920 min	50.52631579	202.1052632	0.03 HSE Points per cycle
NCT 85 C-22 (02) Cutter			66.0 dB(A)	77.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	29.09090909	116.3636364	0.06 HSE Points per cycle
										29.09090909	116.3636364	0.06 HSE Points per cycle
										41.73913043	166.9565217	0.04 HSE Points per cycle
NUN 54-22 (02) Cutter			70.0 dB(A)	80.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	43.63636364	174.5454545	0.04 HSE Points per cycle
										41.02564103	164.1025641	0.04 HSE Points per cycle
										120	480	0.01 HSE Points per cycle
										137.1428571	548.5714286	0.01 HSE Points per cycle
										137.1428571	548.5714286	0.01 HSE Points per cycle
										120	480	0.01 HSE Points per cycle
										102.1276596	408.5106383	0.02 HSE Points per cycle
NUN 54-22 (02) Crimper			70.0 dB(A)	80.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	102.1276596	408.5106383	0.02 HSE Points per cycle
										96	384	0.02 HSE Points per cycle
										120	480	0.01 HSE Points per cycle
										106.6666667	426.6666667	0.02 HSE Points per cycle
										120	480	0.01 HSE Points per cycle
NCR 60 D-22 (02) Crimper			66.0 dB(A)	77.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	160	640	0.01 HSE Points per cycle
										48	192	0.03 HSE Points per cycle
										62.33766234	249.3506494	0.03 HSE Points per cycle
										48	192	0.03 HSE Points per cycle
										64	256	0.03 HSE Points per cycle
										96	384	0.02 HSE Points per cycle
										68.57142857	0	0.00 HSE Points per cycle
NCR 120-22 (02) Crimper			66.0 dB(A)	77.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	45.71428571	182.8571429	0.04 HSE Points per cycle

\* Emission sound pressure level L<sub>pA</sub> and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

## PRESS

Tool	Dust removal available	Battery	Basic tool data						Productivity data			
			Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value*	Insert	Uncertainty K	Time to EAV	Time to ELV	Work till EAV 2,5 m/s <sup>2</sup>	Work till ELV 5 m/s <sup>2</sup>	HSE Points per cycle
NPR 19-22 (02)			66.0 dB(A)	77.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	45.71428571	182.8571429	0.036 HSE Points per cycle
										80	320	0.021 HSE Points per cycle
										68.57142857	274.2857143	0.024 HSE Points per cycle
NPR 24-22 (01)			66.0 dB(A)	77.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	120	480	0.014 HSE Points per cycle
										120	480	0.014 HSE Points per cycle
NPR 32-22 (02)			66.0 dB(A)	77.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	45.71428571	182.8571429	0.036 HSE Points per cycle
										80	320	0.021 HSE Points per cycle
										68.57142857	274.2857143	0.024 HSE Points per cycle
NPR 32 P-22 (01)			66.0 dB(A)	77.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	45.71428571	182.8571429	0.036 HSE Points per cycle
										80	320	0.021 HSE Points per cycle
										68.57142857	274.2857143	0.024 HSE Points per cycle
NPR 32 XL-22 (02)			66.0 dB(A)	77.0 dB(A)	< 2.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	480 min	1920 min	51.61290323	206.4516129	0.032 HSE Points per cycle
										96	384	0.017 HSE Points per cycle
										22.85714286	91.42857143	0.073 HSE Points per cycle

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

## CORDLESS CUT-OUT TOOLS

Tool	Battery	Basic tool data						Productivity data			
		Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Meters / cuts till EAV 2,5 m/s <sup>2</sup>	Meters / cuts till ELV 5 m/s <sup>2</sup>	HSE Points per cutting meter
SCO 6-22 (02)	B 22-85		76.0 dB(A)	87.0 dB(A)	1.67 m/s <sup>2</sup>		64542 s	258166 s	1930 m	7720 m	0.05 HSE Points per cutting meter
	B 22-110				1.62 m/s <sup>2</sup>		68587 s	274348 s	2051 m	8204 m	0.05 HSE Points per cutting meter

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

## CORDLESS FASTENING TOOLS

Tool	`	Basic tool data						Time to EAV 2.5m/s2	Time to ELV 5m/s2	HSE Points per fastening
		Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value*	Insert	Uncertainty K				
BX3-22 (03)	B22 55	89.0 dB(A)	100.0 dB(A)	3.3 m/s <sup>2</sup>	Setting of nails into steel	1.5 m/s <sup>2</sup>	275 min	1102 min	980 min	0.05 HSE Points per fastening
	B22 85			3.5 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	245 min			
	B22 55	85.0 dB(A)	96.0 dB(A)	2.5 m/s <sup>2</sup>	Setting of nails into concrete	1.5 m/s <sup>2</sup>	480 min	1920 min	1427 min	0.05 HSE Points per fastening
	B22 85			2.9 m/s <sup>2</sup>		1.5 m/s <sup>2</sup>	357 min			

\* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x or EN62841-2-X. Uncertainty (k): noise 3dB.

## DISCLAIMER

### Disclaimer for power tool selector

The vibration emission levels given in this information sheet have been measured in accordance with a standardised test described in EN 60745-1: 2006 or EN 61029 and may be used to compare one tool with another. They may be used for a preliminary assessment of exposure.

The declared vibration emission levels represent the main applications of the tools. However, if the tools are used for different applications, with different accessories or are poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Noise values are measured in accordance with EN 60745-1:2006 or EN 61029. Regardless of the noise value, Hilti strongly recommends that appropriate noise protection is worn.

The material used for the measurements is defined as following:

- Rotary hammers, combi hammers, breakers and diamond coring tools are measured on concrete with a minimum compressive strength of 40 N/mm<sup>2</sup> (after 28 days). The concrete is not reinforced. The depth of the holes drilled is stated in the respective table.
- Reciprocating saws are measured on chipboard with the dimensions of 600 x 38 mm and beams of fir wood with the dimensions of 100 x 100 mm.

The size of opening chiselled by the small breakers up to and including the TE 706 represents chiselling out an opening in a wall (e.g. for a window) in solid material, i.e. the opening is surrounded by concrete on all sides.

When chiselling at the edge of a slab, performance is higher by a factor of 2–3. With the TE 805 and TE 905- AVR, the application is demolition chiselling towards the ground on an edge.

Dust from material such as paint containing lead, some wood species, minerals and metal may be harmful.

Certain kinds of dust are classified as carcinogenic such as oak and beech dust especially in conjunction with additives for wood conditioning (chromate, wood preservative). Material containing asbestos must only be treated by specialists.

- Where the use of a dust extraction device is possible it shall be used.
- The workplace must be well ventilated.
- The use of a dust mask of filter class P2 is recommended.

Follow local requirements for the materials you want to work with.

The respective numbers shown in the selector indicate as follows:

– Rotary hammers (1):

Numbers of holes that can be drilled in one working day without exceeding the exposure action value or exposure limit value as defined in the EU vibration directive 2002/44/EC.

– Combi hammers (2):

Numbers of holes that can be drilled or respectively the size of opening that can be chiselled in one working day without exceeding the exposure action value or exposure limit value as defined in the EU vibration directive 2002/44/EC..

– Breakers (3):

The size of opening that can be chiselled in one working day without exceeding the exposure action value or exposure limit value as defined in the EU vibration directive 2002/44/EC.

– Diamond coring tools (4):

Numbers of hole that can be drilled in one working day without exceeding the exposure action value or exposure limit value as defined in the EU vibration directive 2002/44/EC.

– Reciprocating saws (5):

Number of cutting meters that can be cut or respectively the number of cuts that can be performed in one working day without exceeding the exposure action value or exposure limit value as defined in the EU vibration directive 2002/44/EC.

The vibration values listed are triaxial measurements made in accordance with EN 60745-1:2006 or EN 61029. The vibration values shown are generated from laboratory test data and do not guarantee actual vibration values for any specific application on site. The values are rounded averages.

### Disclaimer for direct fastening selector

The vibration and noise values listed in this table are generated from laboratory tests and do not guarantee actual recoil values in any specific application on site. The values are rounded averages.

These vibration and noise values are therefore to be used as a guideline only. The employer is responsible for adhering to local requirements applicable to workplace health and safety and for evaluation of the actual vibration and noise values by taking the appropriate on-site measurements.

Underlying measurements for vibration values are one-dimensional and taken in typical applications under laboratory conditions in accordance with ISO 8662-11.

Underlying measurements for noise values are taken in typical applications under laboratory conditions in accordance with EN 12 549 acoustics – noise test code for fastener driving tools.

The productivity values are calculated on the basis of the vibration value and performance of the tool and are measured in the procedures according to EN 60745-1:2006 or EN 61029. They vary, depending on many factors, such as the material, possible rebar hits, type and sharpness of the bit, chisel or blade used and the working behavior of the user etc. All values are measured using new Hilti power tools and bits, chisels, blades etc. Drilling into or through rebars influences the rate of drilling progress and vibration emissions. This, as a rule, leads to a significant reduction of overall productivity (decrease in the number of holes drilled).

The values given in the tool and application selectors are therefore to be used only as a guideline. The employer is responsible for ensuring that limit values are not exceeded.

The efficiency of dust removal systems depends strongly on their correct use as well as the conditions on the jobsite, e.g. the type and surface shape of the material worked on. The values given and statements made with respect to dust removal are therefore an indication only.