Tool selector

Choose the safest and most productive Hilti tool

Rotary hammers cordless

Basic tool data								Productivity data									
Tool	Dust removal available	Emission sound pressure level LpA *	Emission sound power level*	Triaxial vibration value*	Uncertaintv K	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s2 (ELV 5 m/s2) for drilling diameter (mm) HSE points per hole							
										6	8	10	12	14	16	18	20
TE 2-A (01)	DRS-S	86 dB(A)	97 dB(A)	14.5 m/s²	1.5 m/s²	14 min.	57 min.	concrete 40 N/mm²	TE-CX	129	119	47	36				
										(516)	(476)	(188)	(144)				
										0.80	0.84	2.13	2.78				
TE 2-A22 (02)	DRS-S	92 dB(A)	103 dB(A)	15.0 m/s²	1.5 m/s²	13 min.	52 min.	concrete 40 N/mm²	TE-CX	136	105	40	36				
										(544)	(420)	(160)	(144)				
										0.74	0.95	2.50	2.78				
TE 4-A22 (01)	no	88 dB(A)	99 dB(A)	11 m/s²	1.5 m/s²	25 min.	100 min.	concrete 40 N/mm²	TE-C3X	198	230	118	125	88	67		
										(792)	(920)	(472)	(500)	(352)	(268)		
										0.51	0.43	0.85	0.80	1.14	1.49		
TE 6-A (01)	DRS-S	90 dB(A)	101 dB(A)	11 m/s²	1.5 m/s²	25 min.	99 min.	concrete 40 N/mm²	TE-CX	251	219	94	75	61	45		
										(1004)	(876)	(376)	(300)	(244)	(180)		
										0.40	0.46	1.06	1.33	1.64	2.22		
TE 6-A36-AVR (03)	DRS-TE6-A	88 dB(A)	99 dB(A)	9 m/s²	1.5 m/s²	37 min.	148 min.	concrete 40 N/mm²	TE-C3X	318	366	162	185	139	90		
										(1272)	(1464)	(648)	(740)	(556)	(360)		
										0.31	0.27	0.62	0.54	0.72	1.11		
TE 6-A36-AVR (04)	DRS-TE6-A	91 dB(A)	102 dB(A)	13 m/s²	1.5 m/s²	13 min.	70 min.	concrete 40 N/mm²	TE-CX								
TE 7-A (01)	DRS-M	88 dB(A)	99 dB(A)	11 m/s²	1.5 m/s²	25 min.	99 min.	concrete 40 N/mm²	TE-CX	228	237	126	112	85	69		35
										(912)	(948)	(504)	(448)	(340)	(276)		(140)
										0.44	0.42	0.79	0.89	1.18	1.45		2.86

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Rotary hammers

Basic tool data								Productivity data													
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s2 (ELV 5 m/s2) for drilling diameter (mm) HSE points per hole											
										Hole depth 50mm		Hole depth 100mm									
										6	8	10	12	14	16	18	20	25	28		
TE 1 (02)	DRS-S	89 dB (A)	100 dB (A)	15 m/s²	1.5 m/s²	13 min.	52 min.	concrete 40 N/mm²	TE-CX		133	56	41								
											(532)	(224)	(164)								
											0.75	1.79	2.44								
TE 2 (all types) (01)	DRS-S	89 dB (A)	100 dB (A)	16 m/s²	1.5 m/s²	12 min.	47 min.	concrete 40 N/mm²	TE-CX		116	49	39								
											(464)	(196)	(156)								
											0.86	2.04	2.56								
TE 2 (02) all types	DRS-S	91 dB (A)	102 dB (A)	13.5 m/s²	1.5 m/s²	16 min.	66 min.	concrete 40 N/mm²	TE-CX	171	163	73	61								
										(684)	(662)	(292)	(244)								
										0.58	0.61	1.37	1.64								
TE 6-S (01)	DRS-M	87 dB (A)	98 dB (A)	11 m/s²	1.5 m/s²	25 min.	99 min.	concrete 40 N/mm²	TE-CX		247	111	79	73	56						
											(988)	(444)	(316)	(292)	(224)						
											0.40	0.90	1.27	1.37	1.79						
TE 7 (02)	DRS-M	89 dB (A)	100 dB (A)	11 m/s²	1.5 m/s²	25 min.	100 min.	concrete 40 N/mm²	TE-C3X			84									
												(336)									
												1.19									
TE 7-C (01)	DRS-S	89 dB (A)	100 dB (A)	17 m/s²	1.5 m/s²	10 min.	42 min.	concrete 40 N/mm²	TE-CX	103	107	52	45	34	28	18	14				
										(412)	(428)	(208)	(180)	(136)	(112)	(72)	(56)				
										0.97	0.93	1.92	2.22	2.94	3.57	5.56	7.14				
TE 16 (all types) (01)	DRS-S	89 dB (A)	100 dB (A)	16.5 m/s²	1.5 m/s²	11 min.	44 min.	concrete 40 N/mm²	TE-CX		123	63	60		40		19				
											(492)	(252)	(240)		(160)		(76)				
											0.81	1.59	1.67		2.50		5.26				

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-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.

Combihammers - hammer drilling in concrete

Basic tool data								Productivity data																
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) for drilling diameter (mm) HSE points per hole Hole depth 100mm														
										8	10	12	14	16	18	20	22	24	25	26	28	30
TE 3-C (01)	DRS-S	92 dB (A)	103 dB (A)	15.3 m/s²	1.5 m/s²	13 min.	51 min.	concrete 40 N/mm²	TE-CX, TE-C3X													
TE 3-M (01)	DRS-S	91 dB (A)	102 dB (A)	15.4 m/s²	1.5 m/s²	13 min.	51 min.	concrete 40 N/mm²	TE-CX, TE-C3X													
TE 30 (01)	DRS-S	90 dB (A)	101 dB (A)	16.5 m/s²	1.5 m/s²	11 min.	44 min.	concrete 40 N/mm²	TE-CX, TE-C3X		60 (240) 1.7	61 (244) 1.6		41 (164) 2.4		19 (76) 5.3						
TE 30-ATC/AVR (02)	DRS-S	88 dB (A)	99 dB (A)	10 m/s²	1.5 m/s²	30 min.	120 min.	concrete 40 N/mm²	TE-CX	280 (1120) 0.4	210 (840) 0.5	180 (720) 0.6		140 (560) 0.7		80 (320) 1.3		62 (248) 1.6			30 (120) 3.3	
TE 30-AVR (01)	DRS-S	90 dB (A)	101 dB (A)	12 m/s²	1.5 m/s²	21 min.	84 min.	concrete 40 N/mm²	TE-CX, TE-C3X		114 (456) 0.9	116 (464) 0.8		78 (312) 1.2		36 (144) 2.7						
TE 30-C-AVR (01)	DRS-S	90 dB (A)	100 dB (A)	12 m/s²	1.5 m/s²	21 min.	84 min.	concrete 40 N/mm²	TE-CX, TE-C3X		114 (456) 0.9	116 (464) 0.9		78 (312) 1.3		36 (144) 2.8						
TE 30-M-AVR (01)	DRS-S	90 dB (A)	101 dB (A)	12 m/s²	1.5 m/s²	21 min.	84 min.	concrete 40 N/mm²	TE-CX, TE-C3X		114 (456) 0.9	116 (464) 0.9		78 (312) 1.3		36 (144) 2.8						
TE 40 (01)	DRS-S	93 dB (A)	104 dB (A)	16.3 m/s²	1.5 m/s²	11 min.	45 min.	concrete 40 N/mm²	TE-CX					52 (208) 1.9		29 (116) 3.4		20 (80) 5.0				
TE 40-AVR (01)	DRS-S	94 dB (A)	105 dB (A)	10.7 m/s²	1.5 m/s²	26 min.	105 min.	concrete 40 N/mm²	TE-CX					121 (484) 0.8		67 (268) 1.5		46 (184) 2.2				
TE 50 (02)	DRS-Y	95 dB (A)	106 dB (A)	16.1 m/s²	1.5 m/s²	12 min.	46 min.	concrete 40 N/mm²	TE-YX					50 (200) 2.0		29 (116) 3.4		22 (88) 4.5	20 (80) 5.0			12 (48) 8.3
TE 50-AVR (02)	DRS-Y	93 dB (A)	104 dB (A)	11.4 m/s²	1.5 m/s²	23 min.	92 min.	concrete 40 N/mm²	TE-YX					99 (396) 1.0		57 (228) 1.8		44 (176) 2.3	40 (160) 2.5			24 (96) 4.2
TE 56 (01)	DRS-Y	92 dB (A)	103 dB (A)	17 m/s²	1.5 m/s²	10 min.	42 min.	concrete 40 N/mm²	TE-YX					47 (188) 2.1		29 (116) 3.4		22 (88) 4.5			17 (68) 5.9	13 (52) 7.7

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Combihammers - hammer drilling in concrete

Basic tool data								Productivity data																
Tool	**Dust removal available**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value***	**Uncertainty K**	**Time to EAV**	**Time to ELV**	**Work piece material**	**Consumable**	**Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) for drilling diameter (mm) HSE points per hole Hole depth 100mm**														
										16	**18**	**20**	**22**	**24**	**25**	**26**	**28**	**30**	**32**	**37**	**38**	**40**
TE 56-ATC (01)	DRS-Y	92 dB (A)	103 dB (A)	16 m/s²	1.5 m/s²	12 min.	47 min.	concrete 40 N/mm²	TE-YX			33 (132) 3.0		25 (100) 4.0			20 (80) 5.0	14 (56) 7.1				
TE 60-T-ATC (02)	DRS-Y	99 dB (A)	110 dB (A)	9 m/s²	1.5 m/s²	37 min.	148 min.	concrete 40 N/mm²	TE-YX			113 (452) 0.9			82 (328) 1.2			56 (224) 1.8				
TE 60-ATC (03)	DRS-Y	101 dB (A)	112 dB (A)	11 m/s²	1.5 m/s²	25 min.	100 min.	concrete 40 N/mm²	TE-YX			76 (304) 1.3			69 (276) 1.4				42 (168) 2.4			
TE 60-ATC-AVR (03)	DRS-Y	101 dB (A)	112 dB (A)	7.5 m/s²	1.5 m/s²	53 min.	212 min.	concrete 40 N/mm²	TE-YX			185 (740) 0.5			150 (600) 0.7				94 (376) 1.1			
TE 70 (02)	DRS-Y	99 dB (A)	110 dB (A)	22 m/s²	1.5 m/s²	6 min.	25 min.	concrete 40 N/mm²	TE-YX				25 (100) 4.0		21 (84) 4.8		18 (72) 5.6		15 (60) 6.7		10 (40) 10.0	7 (28) 14.3
TE 70-ATC (02)	DRS-Y	99.5 dB (A)	110.5 dB (A)	22 m/s²	1.5 m/s²	6 min.	25 min.	concrete 40 N/mm²	TE-YX				25 (100) 4.0		21 (84) 4.8		18 (72) 5.6		15 (60) 6.7		10 (40) 10.0	7 (28) 14.3
TE 70-AVR (03) **TE 70-D/AVR (03)** **TE 70-ATC/AVR (03)**	DRS-Y	102 dB (A)	113 dB (A)	10 m/s²	1.5 m/s²	30 min.	120 min.	concrete 40 N/mm²	TE-YX	140 (560) 0.7	120 (480) 0.8	125 (500) 0.8	120 (480) 0.8		105 (420) 1.0		90 (360) 1.1		65 (260) 1.5	50 (200) 2.0		40 (160) 2.5

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Combihammers - hammer drilling in concrete

Basic tool data								Productivity data																
Tool	**Dust removal available**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value***	**Uncertainty K**	**Time to EAV**	**Time to ELV**	**Work piece material**	**Consumable**	**Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) for drilling diameter (mm) HSE points per hole Hole depth 100mm**														
										16	**18**	**20**	**22**	**24**	**25**	**28**	**30**	**32**	**36**	**37**	**38**	**40**
TE 76 (01)	DRS-Y	91 dB (A)	102 dB (A)	17 m/s²	1.5 m/s²	10 min.	42 min.	concrete 40 N/mm²	TE-YX					29 (116) 3.45		21 (84) 4.76		17 (68) 5.88			13 (52) 7.69	
TE 76P-ATC (01)	DRS-Y	91 dB (A)	102 dB (A)	15 m/s²	1.5 m/s²	13 min.	53 min.	concrete 40 N/mm²	TE-YX					37 (148) 2.70		26 (104) 3.85		22 (88) 4.55			16 (64) 6.25	
TE 80-ATC (01)	DRS-Y	99.5 dB (A)	110.5 dB (A)	8.8 m/s²	1.5 m/s²	39 min.	155 min.	concrete 40 N/mm²	TE-YX				171 (684) 0.58		144 (576) 0.69	131 (524) 0.76	109 (436) 0.92	93 (372) 1.08	70 (280) 1.43			53 (212) 1.89
TE 80-ATC /AVR (03)	DRS-Y	102 dB (A)	113 dB (A)	7.5 m/s²	1.5 m/s²	53 min.	212 min.	concrete 40 N/mm²	TE-YX	250 (1000) 0.40	210 (840) 0.48	220 (880) 0.45	212 (848) 0.47		185 (740) 0.54	165 (660) 0.61		115 (460) 0.87		92 (368) 1.09		75 (300) 1.33

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Combihammers - chiseling to wall

Basic tool data								Productivity data				
Tool	**Dust removal available**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value***	**Uncertainty K**	**Time to EAV**	**Time to ELV**	**Work piece material**	**Consumable**	**Volume till EAV (liter)**	**Volume till ELV (liter)**	**HSE Points**
TE 30-ATC/AVR (02)	DRS-S	88 dB (A)	99 dB (A)	9 m/s^2	1.5 m/s^2	37 min.	148 min.	concrete 40 N/mm²	TE-CP-SM 25			
TE 30-C-AVR (01)	no	90 dB (A)	111 dB (A)	11 m/s^2	1.5 m/s^2	25 min.	100 min.	concrete 40 N/mm²	TE-CP-SM 25	7	28	14.29
TE 30-M-AVR (01)	no	90 dB (A)	111 dB (A)	11 m/s^2	1.5 m/s^2	25 min.	100 min.	concrete 40 N/mm²	TE-CP-SM 25	7	28	14.29
TE 56 / TE 56-ATC (01)	DRS-Y	92 dB (A)	103 dB (A)	13 m/s^2	1.5 m/s^2	18 min.	71 min.	concrete 40 N/mm²	TE-YP-SM 28	14.9	59	6.71
TE 60 (02)	DRS-Y	96 dB (A)	107 dB (A)	14 m/s^2	1.5 m/s^2	15 min.	61 min.	concrete 40 N/mm²	TE-YP-SM 28	12.9	52	7.75
TE 60 (03)	DRS-Y	96 dB (A)	107 dB (A)	15.5 m/s^2	1.5 m/s^2	12 min.	48 min.	concrete 40 N/mm²	TE-YP-SM 28	11.5	46	8.70
TE 60-T-ATC (02)	DRS-Y	99 dB (A)	110 dB (A)	8.5 m/s^2	1.5 m/s^2	42 min.	168 min.	concrete 40 N/mm²	TE-YP-SM 28	34	136	2.94
TE 60-ATC (03)	DRS-Y	101 dB (A)	112 dB (A)	10.5 m/s^2	1.5 m/s^2	27 min.	108 min.	concrete 40 N/mm²	TE-YP-SM 28	25	100	4.00
TE 60-ATC-AVR (03)	DRS-Y	101 dB (A)	112 dB (A)	7 m/s^2	1.5 m/s^2	61 min.	244 min.	concrete 40 N/mm²	TE-YP-SM 28	56.3	225	1.78
TE 70 (02)	DRS-Y	99 dB (A)	110 dB (A)	18 m/s^2	1.5 m/s^2	9 min.	37 min.	concrete 40 N/mm²	TE-YP-SM 28	11.9	48	8.40
TE 70-AVR (03)	DRS-Y	102 dB (A)	113 dB (A)	9 m/s2	1.5 m/s2	37 min,	148 min.	concrete 40 N/mm²	TE-YP-SM 28	51	204	1.96
TE 70-ATC/AVR (03)	DRS-Y	102 dB (A)	113 dB (A)	9 m/s2	1.5 m/s2	37 min.	148 min.	concrete 40 N/mm²	TE-YP-SM 28	51	204	1.96
TE 76 (01)	DRS-Y	91 dB (A)	102 dB (A)	15 m/s^2	1.5 m/s^2	13 min.	53 min.	concrete 40 N/mm²	TE-YP-SM 28	14.7	59	6.80
TE 80-ATC (01)	DRS-Y	99.5 dB (A)	110.5 dB (A)	8.5 m/s^2	1.5 m/s^2	42 min.	166 min.	concrete 40 N/mm²	TE-YP-SM 28	56.5	225	1.77
TE 80-ATC/AVR (03)	DRS-Y	102 dB (A)	113 dB (A)	7 m/s2	1.5 m/s2	61 min.	244 min.	concrete 40 N/mm²	TE-YP-SM 28	85	340	1.18

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Cordless Rotary - chiseling to wall

Basic tool data								Productivity data				
Tool	**Dust removal available**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value***	**Uncertainty K**	**Time to EAV**	**Time to ELV**	**Work piece material**	**Consumable**	**Volume till EAV (liter)**	**Volume till ELV (liter)**	**HSE points**
TE 30-A36 (02)	no	88 dB (A)	99 dB (A)	9 m/s^2	1.5 m/s^2	37 min.	148 min.	concrete 40 N/mm²	TE-CP SM 18	15.9	63.6	6.29

Breakers - chiseling to wall

Basic tool data								Productivity data				
Tool	**Dust removal available**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value***	**Uncertainty K**	**Time to EAV**	**Time to ELV**	**Work piece material**	**Consumable**	**Volume till EAV (liter)**	**Volume till ELV (liter)**	**HSE Points**
TE 106 (01)	no	90 dB (A)	101 dB (A)	14 m/s^2	1.5 m/s^2	15 min.	61 min.	concrete 40 N/mm²	TE-CP-SM 25	4.1	16	24.39
TE 300-AVR (01)	no	91 dB (A)	102 dB (A)	13.5 m/s^2	1.5 m/s^2	16 min.	64 min.	concrete 40 N/mm²	TE-YP-SM 28	5	20	20.00
TE 500 (01)	DRS-B	94 dB (A)	105 dB (A)	12.1 m/s^2	1.5 m/s^2	20 min.	82 min.	concrete 40 N/mm²	TE-YP-SM 28	22.1	88	4.52
TE 500-AVR (01)	DRS-B	94 dB (A)	105 dB (A)	10.1 m/s^2	1.5 m/s^2	29 min.	118 min.	concrete 40 N/mm²	TE-YP-SM 28	31.8	127	3.14
TE 700-AVR (01)	DRS-B	86 dB (A)	97 dB (A)	6.5 m/s^2	1.5 m/s^2	71 min.	284 min.	concrete 40 N/mm²	TE-YP-SM 28	60	240	1.67
TE 706 (01)	DRS-B	90 dB (A)	101 dB (A)	9 m/s^2	1.5 m/s^2	37 min.	148 min.	concrete 40 N/mm²	TE-YP-SM 28	41.5	165	2.41
TE 706-AVR (01)	DRS-B	87 dB (A)	98 dB (A)	5.5 m/s^2	1.5 m/s^2	99 min.	397 min.	concrete 40 N/mm²	TE-YP-SM 28	111.1	444	0.90
TE 800 (01)	DRS-B	87 dB (A)	98 dB (A)	16m/s^2	1.5 m/s^2	12 min.	48 min.	concrete 40 N/mm²	TE-SP-SM 36	25	100	4.00
TE 800-AVR (01)	DRS-B	87 dB (A)	98 dB (A)	9 m/s^2	1.5 m/s^2	37 min.	148 min.	concrete 40 N/mm²	TE-SP-SM 36	95	380	1.05

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Breakers - demolition on floor edge

Basic tool data								Productivity data				
Tool	**Dust removal available**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value***	**Uncertainty K**	**Time to EAV**	**Time to ELV**	**Work piece material**	**Consumable**	**Volume till EAV (liter)**	**Volume till ELV (liter)**	**HSE Points**
TE 800 (01)	DRS-B	87 dB (A)	98 dB (A)	16 m/s^2	1.5 m/s^2	12 min.	48 min.	concrete 40 N/mm²	TE-SP-SM 36	52	208	1.92
TE 800-AVR (01)	DRS-B	87 dB (A)	98 dB (A)	9 m/s^2	1.5 m/s^2	37 min.	148 min.	concrete 40 N/mm²	TE-SP-SM 36	192	768	0.52
TE 805 (01)	DRS-B	90 dB (A)	101 dB (A)	15 m/s^2	1.5 m/s^2	13 min.	53 min.	concrete 40 N/mm²	TE-SP-SM 36	44.4	177	2.25
TE 905-AVR (01)	DRS-B	92 dB (A)	103 dB (A)	8.5 m/s^2	1.5 m/s^2	42 min.	166 min.	concrete 40 N/mm²	TE-SP-SM 36	139.8	559	0.72
TE 1000-AVR (01)	DRS-B	87 dB (A)	98 dB (A)	6.5 m/s^2	1.5 m/s^2	71 min.	284 min.	concrete 40 N/mm²	TE-SP-SM 36	325	1300	0.31
TE 1000-AVR (02)	DRS-B	85 dB (A)	96 dB (A)	5 m/s^2	1.5 m/s^2	120 min.	480 min.	concrete 40 N/mm²	TE-SP-SM 36	900	3600	0.11
TE 1500-AVR (01)	DRS-B	89 dB (A)	100 dB (A)	12 m/s^2	1.5 m/s^2	21 min.	84 min.	concrete 40 N/mm²	TE-SP-SM 36	145	580	0.69
TE 3000-AVR (01)	DRS-B	94 dB (A)	105 dB (A)	7 m/s^2	1.5 m/s^2	61 min.	244 min.	concrete 40 N/mm²	TE Hex 28	2075	8300	0.05

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

How to read the Tool Selector

Breaking - The volume of material that can be broken for a particular tool and given workpiece 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.

Drilling in steel

Cordless drill drivers, hammer drills drivers, compact drill drivers

Basic tool data								Productivity data											
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points per hole sheet steel thickness (mm) one-step drilling									
										1	2	3	4	5	6	7	8	9	10
SF 2-A (01)	no	64 dB(A)	75 dB(A)	1.9 m/s²	1.5 m/s²	831 min.	>1440 min.	mild steel	HSS Spiral drill 6,0x93										
SF 14-A (01)	no	75 dB(A)	86 dB(A)	2 m/s²	1.5 m/s²	750 min.	>1440 min.	mild steel	HSS Spiral drill 6,0x93	11500	5700	3800	2800	2300	1900	1600	1400	1200	1100
										(46000)	(22800)	(15200)	(11200)	(9200)	(7600)	(6400)	(5600)	(4800)	(4400)
										0.01	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.09
SF 22-A (01)	no	75 dB(A)	86 dB(A)	2 m/s²	1.5 m/s²	750 min.	>1440 min.	mild steel	HSS Spiral drill 6,0x93	7680	3840	2560	1920	1530	1280	1090	960	850	760
										(30720)	(15360)	(10240)	(7680)	(6120)	(5120)	(4360)	(3840)	(3400)	(3040)
										0.01	0.03	0.04	0.05	0.07	0.08	0.09	0.10	0.12	0.13
SFH 22-A (01)	no	75 dB(A)	86 dB(A)	2 m/s²	1.5 m/s²	750 min.	>1440 min.	mild steel	HSS Spiral drill 6,0x93	8300	4100	2700	2000	1600	1300	1100	1000	900	800
										(33200)	(16400)	(10800)	(8000)	(6400)	(5200)	(4400)	(4000)	(3600)	(3200)
										0.01	0.02	0.04	0.05	0.06	0.08	0.09	0.10	0.11	0.13
SFC 14-A (01)	no	69 dB(A)	80 dB(A)	2 m/s²	1.5 m/s²	750 min.	>1440 min.	mild steel	HSS Spiral drill 6,0x93	12900	6400	4300	3200	2500	2100	1800	1600	1400	1300
										(51600)	(25600)	(17200)	(12800)	(10000)	(8400)	(7200)	(6400)	(5600)	(5200)
										0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.06	0.07	0.08
SFC 22-A (01)	no	69 dB(A)	80 dB(A)	2 m/s²	1.5 m/s²	750 min.	>1440 min.	mild steel	HSS Spiral drill 6,0x93	22200	11100	7400	5500	4400	3700	3100	2700	2400	2200
										(88800)	(44400)	(29600)	(22000)	(17600)	(14800)	(12400)	(10800)	(9600)	(8800)
										0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05
SFD 2-A (01)	no	64 dB(A)	75 dB(A)	1.9 m/s²	1.5 m/s²	831 min.	>1440 min.	mild steel	HSS Spiral drill 6,0x93										

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Drilling in steel

Electric drill driver

Basic tool data								Productivity data											
Tool	Dust removal system	Emission Sound pressure Level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty k	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points per hole sheet steel thickness (mm) one-step drilling									
										1	2	3	4	5	6	7	8	9	10
UD 30 (01)	no	86 dB(A)	97 dB(A)	6 m/s²	1.5 m/s2	83 min.	332 min.	mild steel	HSS Spiral drill 6,0x93	3010	1500	1000	750	600	500	430	370	330	300
										(12040)	(6000)	(4000)	(3000)	(2400)	(2000)	(1480)	(1480)	(1320)	(1200)
										0.03	0.07	0.10	0.13	0.17	0.20	0.23	0.27	0.30	0.33
									HSS Spiral drill 5,0x86	3610	1800	1200	900	720	600	510	450	400	360
										(14440)	(7200)	(4800)	(3600)	(2880)	(2400)	(2040)	(1800)	(1600)	(1440)
										0.03	0.06	0.08	0.11	0.14	0.17	0.20	0.22	0.25	0.28
									HSS Spiral drill 4,0x75	4510	2250	1500	1120	900	750	640	560	500	450
										(18040)	(9000)	(6000)	(4480)	(3600)	(3000)	(2560)	(2240)	(2000)	(1800)
										0.02	0.04	0.07	0.09	0.11	0.13	0.16	0.18	0.20	0.22
									HSS Spiral drill 3,0x61	6020	3010	2000	1500	1200	1000	860	750	660	600
										(24080)	(12040)	(8000)	(6000)	(4800)	(4000)	(3440)	(3000)	(2640)	(2400)
										0.02	0.03	0.05	0.07	0.08	0.10	0.12	0.13	0.15	0.17

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Drilling in steel - electric rotary hammers

Basic tool data								Productivity data											
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points per hole sheet steel thickness (mm) one-step drilling									
										1	2	3	4	5	6	7	8	9	10
TE 2-M (02)	no	n.a.	n.a.	4.5 m/s²	1.5 m/s²	148 min.	592 min.	mild steel	HSS Spiral drill 6,0x93	3030	1510	1010	750	600	500	430	370	330	300
										(12120)	(6040)	(4040)	(3000)	(2400)	(2000)	(1720)	(1480)	(1320)	(1200)
										0.03	0.07	0.10	0.13	0.17	0.20	0.23	0.27	0.30	0.33

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Drilling in steel - cordless rotary Hammers

Basic tool data								Productivity data											
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points per hole sheet steel thickness (mm) one-step drilling									
										1	2	3	4	5	6	7	8	9	10
TE 4-A22 (01)	no	n.a.	n.a.	5.5 m/s²	1.5 m/s²	99 min.	396 min.	mild steel	HSS Spiral drill 6,0x93	3070	1530	1020	760	610	510	430	380	340	300
										(12280)	(6120)	(4080)	(3040)	(2440)	(2040)	(1720)	(1520)	(1360)	(1200)
										0.03	0.07	0.10	0.13	0.16	0.20	0.23	0.26	0.29	0.33
TE 6-A36-AVR (03)	no	n.a.	n.a.	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	mild steel	HSS Spiral drill 6,0x93	7320	3660	2440	1830	1460	1220	1040	910	810	730
										(29280)	(14640)	(9760)	(7320)	(5840)	(4880)	(4160)	(3640)	(3240)	(2920)
										0.01	0.03	0.04	0.05	0.07	0.08	0.10	0.11	0.12	0.14
TE 30-A36 (02)	no	n.a.	n.a.	3 m/s²	1.5 m/s²	333 min.	1332 min.	mild steel	HSS Spiral drill 6,0x93	7110	3550	2370	1770	1420	1180	1010	880	790	710
										(28440)	(14200)	(9480)	(7080)	(5680)	(4720)	(4040)	(3520)	(3160)	(2840)
										0.01	0.03	0.04	0.06	0.07	0.08	0.10	0.11	0.13	0.14
								mild steel	HSS Spiral drill 5,0 x 86	8540	4270	2840	2130	1700	1420	1220	1060	940	850
										(34160)	(17080)	(11360)	(8520)	(6800)	(5680)	(4880)	(4240)	(3760)	(3400)
										0.01	0.02	0.04	0.05	0.06	0.07	0.08	0.09	0.11	0.12
								mild steel	HSS Spiral drill 4,0 x 75	10670	5330	3550	2660	2130	1770	1520	1330	1180	1060
										(42680)	(21320)	(14200)	(10640)	(8520)	(7080)	(6080)	(5320)	(4720)	(4240)
										0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.08	0.09
								mild steel	HSS Spiral drill 3,0 x 61	14230	7110	4740	3550	2840	2370	2030	1770	1580	1420
										(56920)	(28440)	(18960)	(14200)	(11360)	(9480)	(8120)	(7080)	(6320)	(5680)
										0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.06	0.06	0.07

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Rotary hammers

Basic tool data								Productivity data										
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points per hole sheet steel thickness (mm) pre drilling (6mm pre-hole)							
										3	4	5	6	7	8	9	10
TE 4-A22 (01)	no	n.a.	n.a.	5.5 m/s²	1.5 m/s²	99 min.	396 min.	mild steel	HSS Spiral drill 12,0 x 151	270	200	160	130	110	100	90	80
										(1080)	(800)	(640)	(520)	(440)	(400)	(360)	(320)
										0.37	0.50	0.63	0.77	0.91	1.00	1.11	1.25
									HSS Spiral drill 11,0 x 142	290	220	170	140	120	110	90	80
										(1160)	(880)	(680)	(560)	(480)	(440)	(360)	(320)
										0.34	0.45	0.59	0.71	0.83	0.91	1.11	1.25
									HSS Spiral drill 10,0 x 133	320	240	190	160	140	120	100	90
										(1280)	(960)	(760)	(640)	(560)	(480)	(400)	(360)
										0.31	0.42	0.53	0.63	0.71	0.83	1.00	1.11
									HSS Spiral drill 9,0 x 125	360	270	210	180	150	130	120	100
										(1440)	(1080)	(840)	(720)	(600)	(520)	(480)	(400)
										0.28	0.37	0.48	0.56	0.67	0.77	0.83	1.00
									HSS Spiral drill 8,0 x 117	410	300	240	200	170	150	130	120
										(1640)	(1200)	(960)	(800)	(680)	(600)	(520)	(480)
										0.24	0.33	0.42	0.50	0.59	0.67	0.77	0.83
TE 6-A36-AVR (03)	no	n.a.	n.a.	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	mild steel	HSS Spiral drill 12,0 x 151	550	410	330	270	230	200	180	160
										(2200)	(1640)	(1320)	(1080)	(920)	(800)	(720)	(640)
										0.18	0.24	0.30	0.37	0.43	0.50	0.56	0.63
									HSS Spiral drill 11,0 x 142	600	450	360	300	260	220	200	180
										(2400)	(1800)	(1440)	(1200)	(1040)	(880)	(800)	(720)
										0.17	0.22	0.28	0.33	0.38	0.45	0.50	0.56
									HSS Spiral drill 10,0 x 133	660	500	400	330	280	250	220	200
										(2640)	(2000)	(1600)	(1320)	(1120)	(1000)	(880)	(800)
										0.15	0.20	0.25	0.30	0.36	0.40	0.45	0.50
									HSS Spiral drill 9,0 x 125	740	550	440	370	310	270	240	220
										(2960)	(2200)	(1760)	(1480)	(1240)	(1080)	(960)	(880)
										0.14	0.18	0.23	0.27	0.32	0.37	0.42	0.45
									HSS Spiral drill 8,0 x 117	830	620	500	410	350	310	270	250
										(3320)	(2480)	(2000)	(1640)	(1400)	(1240)	(1080)	(1000)
										0.12	0.16	0.20	0.24	0.29	0.32	0.37	0.40
TE 2-M (02)	no	n.a.	n.a.	4.5 m/s²	1.5 m/s²	148 min.	592 min.	mild steel	HSS Spiral drill 12,0 x 151	80	60	50	40	30	30	20	20
										(320)	(240)	(200)	(160)	(120)	(120)	(80)	(80)
										1.25	1.67	2.00	2.50	3.33	3.33	5.00	5.00
									HSS Spiral drill 11,0 x 142	90	60	50	40	30	30	30	20
										(360)	(240)	(200)	(160)	(120)	(120)	(120)	(80)
										1.11	1.67	2.00	2.50	3.33	3.33	3.33	5.00
									HSS Spiral drill 10,0 x 133	100	70	60	50	40	30	30	30
										(400)	(280)	(240)	(200)	(160)	(120)	(120)	(120)
										1.00	1.43	1.67	2.00	2.50	3.33	3.33	3.33
									HSS Spiral drill 9,0 x 125	110	80	60	50	40	40	30	30
										(440)	(320)	(240)	(200)	(160)	(160)	(120)	(120)
										0.91	1.25	1.67	2.00	2.50	2.50	3.33	3.33
									HSS Spiral drill 8,0 x 117	120	90	70	60	50	40	40	30
										(480)	(360)	(280)	(240)	(200)	(160)	(160)	(120)
										0.83	1.11	1.43	1.67	2.00	2.50	2.50	3.33
TE 30-A36 (02)	no	n.a.	n.a.	3 m/s²	1.5 m/s²	333 min.	1332 min.	mild steel	HSS Spiral drill 12,0 x 151	430	320	260	210	180	160	140	130
										(1720)	(1280)	(1040)	(840)	(720)	(640)	(560)	(520)
										0.23	0.31	0.38	0.48	0.56	0.63	0.71	0.77
									HSS Spiral drill 11,0 x 142	470	350	280	230	200	170	150	140
										(1880)	(1400)	(1120)	(920)	(800)	(680)	(600)	(560)
										0.21	0.29	0.36	0.43	0.50	0.59	0.67	0.71
									HSS Spiral drill 10,0 x 133	520	390	310	260	220	190	170	150
										(2080)	(1560)	(1240)	(1040)	(880)	(760)	(680)	(600)
										0.19	0.26	0.32	0.38	0.45	0.53	0.59	0.67
									HSS Spiral drill 9,0 x 125	580	430	340	290	240	210	190	170
										(2320)	(1720)	(1360)	(1160)	(960)	(840)	(760)	(680)
										0.17	0.23	0.29	0.34	0.42	0.48	0.53	0.59
									HSS Spiral drill 8,0 x 117	650	490	390	320	280	240	210	190
										(2600)	(1960)	(1560)	(1280)	(1120)	(960)	(840)	(760)
										0.15	0.20	0.26	0.31	0.36	0.42	0.48	0.53

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Rotary hammers

Basic tool data								Productivity data					
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points per hole consumable diameter metal hole saw in mm			
										25	32	40	51
TE 4-A22 (01)	no	n.a.	n.a.	5.5 m/s²	1.5 m/s²	99 min.	396 min.	2 mm mild steel	Metal Hole Saw	180	180	110	110
										(720)	(720)	(440)	(440)
										0.56	0.56	0.91	0.91
TE 6-A36-AVR (03)	no	n.a.	n.a.	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	2 mm mild steel	Metal Hole Saw	290	290	180	180
										(1160)	(1160)	(720)	(720)
										0.34	0.34	0.56	0.56
TE 2-M (02)	no	n.a.	n.a.	4.5 m/s²	1.5 m/s²	148 min.	592 min.	2 mm mild steel	Metal Hole Saw	90	90	80	80
										(360)	(360)	(320)	(320)
										1.11	1.11	1.25	1.25
TE 30-A36 (02)	no	n.a.	n.a.	3 m/s²	1.5 m/s²	333 min.	1332 min.	2 mm mild steel	Metal Hole Saw		510		290
											(2040)		(1160)
											0.20		0.34

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Drilling in concrete

Cordless drill/drivers

Basic tool data								Productivity data				
Tool	Dust removal system	Emission Sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s² (ELV 5.0 m/s²) HSE points per hole Hole depth: 50 mm Drilling diameter: 8 mm	80 mm 10 mm	90 mm 12 mm
SFH 22-A (01)	no	96 dB(A)	107 dB(A)	20 m/s²	1.5 m/s²	8 min.	32 min.	Screed concrete	Masonry bit	300 (1200)	150 (600)	95 (380)
										0.33	0.67	1.05
	no	96 dB(A)	107 dB(A)	20 m/s²	1.5 m/s²	8 min.	32 min.	Sand-limestone (density 2.0)	Masonry bit	360 (1440)	140 (560)	80 (320)
										0.28	0.71	1.25
SFH 144-A (01)	no	91 dB(A)	102 dB(A)	12 m/s²	1.5 m/s²	21 min.	84 min.	Screed concrete	Masonry bit	330 (1320)	140 (560)	110 (440)
										0.30	0.71	0.91
	no	91 dB(A)	102 dB(A)	12 m/s²	1.5 m/s²	21 min.	84 min.	Sand-limestone (density 2.0)	Masonry bit	270 (1080)	110 (440)	55 (220)
										0.37	0.91	1.82
SFH 151-A (01)	no	93 dB(A)	104 dB(A)	11.8 m/s²	1.5 m/s²	22 min.	88 min.	Screed concrete	Masonry bit	250 (1000)	140 (560)	70 (280)
										0.40	0.71	1.43
	no	93 dB(A)	104 dB(A)	11.8 m/s²	1.5 m/s²	22 min.	88 min.	Sand-limestone (density 2.0)	Masonry bit	330 (1320)	135 (540)	70 (280)
										0.30	0.74	1.43
SFH 181-A (01)	no	91 dB(A)	102 dB(A)	13.1 m/s²	1.5 m/s²	17 min.	68 min.	Screed concrete	Masonry bit	260 (1040)	140 (560)	90 (360)
										0.38	0.71	1.11
	no	91 dB(A)	102 dB(A)	13.1 m/s²	1.5 m/s²	17 min.	68 min.	Sand-limestone (density 2.0)	Masonry bit	500 (2000)	180 (720)	90 (360)
										0.20	0.56	1.11

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Universal hammers

Basic tool data								Productivity data				
Tool	Dust removal system	Emission Sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty k	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s² (ELV 5.0 m/s²) HSE points per hole Hole depth: 50 mm Drilling diameter: 8 mm	80 mm 10 mm	90 mm 12 mm
UH 240-A (01)	no	93 dB(A)	104 dB(A)	13.9 m/s²	1.5 m/s²	16 min.	64 min.	Screed concrete	Masonry bit	210 (840)	150 (600)	120 (480)
										0.48	0.67	0.83
	no	93 dB(A)	104 dB(A)	13.9 m/s²	1.5 m/s²	16 min.	64 min.	Sand-limestone (density 2.0)	Masonry bit	370 (1480)	170 (680)	85 (340)
										0.27	0.59	1.18
UH 650 (01)	no	96 dB(A)	107 dB(A)	14 m/s²	1.5 m/s²	15 min.	60 min.	Screed concrete	Masonry bit	260 (1040)	140 (560)	70 (280)
										0.38	0.71	1.43
	no	96 dB(A)	107 dB(A)	14 m/s²	1.5 m/s²	15 min.	60 min.	Sand-limestone (density 2.0)	Masonry bit	280 (1120)	115 (460)	45 (180)
										0.36	0.87	2.22

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Rotary cordless - hammer drilling in concrete

Basic tool data								Productivity data								
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Consumable	Number of holes to EAV 2.5 m/s2 (ELV 5 m/s2) for drilling diameter (mm) HSE points per hole Hole depth 100mm						
										8	10	12	16	20	25	28
TE 30-A36 (02)	DRS-S	94 dB (A)	105 dB (A)	11 m/s²	1.5 m/s²	25 min.	100 min.	concrete 40 N/mm²	TE-CX	210	152	157	125	73	42	19
										(840)	(608)	(628)	(500)	(292)	(168)	(76)
										0.48	0.66	0.64	0.80	1.37	2.38	5.26

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Impact Fastening - Impact drivers/wrenches

Basic tool data								Productivity data			
Tool	**Dust removal system**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty k**	**Time to EAV**	**Time to ELV**	**Work piece material**	**Screw type**	**Number of screw settings to EAV 2.5 m/s² (ELV 5 m/s²)**	**HSE points per screw setting**
SI 100 (01)	no	95 dB(A)	106 dB(A)	8.4 m/s²	1.5 m/s²	43 min.	172 min.	concrete	HUS H 12.5 (10 mm)	635 (2540)	0.16
SID 2-A (01)	no	92 dB(A)	103 dB(A)	16.5 m/s²	1.5 m/s²	11 min.	44 min.				
SID 8-A (01)	no	95 dB(A)	106 dB(A)	13.5 m/s²	1.5 m/s²	16 min.	66 min.				
SID/SIW 14-A (01)	no	94 dB(A)	83 dB(A)	7.5 m/s²	1.5 m/s²	53 min.	212 min.	steel	M12 metal screw	1600 (6400)	0.06
				7.5 m/s²	1.5 m/s²	53 min.	212 min.	concrete	HUS H 6 screw (6 mm)	800 (3200)	0.13
SID/SIW 22-A (01)	no	86 dB(A)	97 dB(A)	11 m/s²	1.5 m/s²	25 min.	100 min.	steel	M12 metal screw	740 (2960)	0.14
				11 m/s²	1.5 m/s²	25 min.	100 min.	concrete	HUS H 7.5 screw (6 mm)	370 (1480)	0.27
SID/SIW 121-A (01)	no	85 dB(A)	96 dB(A)	7.4 m/s²	1.5 m/s²	55 min.	220 min.	steel	M12 metal	1600 (6400)	0.06
SID/SIW 144-A (01)	no	93 dB(A)	104 dB(A)	12 m/s²	1.5 m/s²	21 min.	84 min.	steel	M12 metal	625 (2500)	0.16
				12 m/s²	1.5 m/s²	21 min.	84 min.	steel	HUS H 7.5 (6 mm)	300 (1200)	0.33
SIW 22T-A (01)	no	97 dB(A)	108 dB(A)	14.5 m/s²	1.5 m/s²	14 min.	56 min.	steel	M20 metal	420 (1680)	0.24
				14.5 m/s²	1.5 m/s²	14 min.	56 min.	concrete	HUS H 10.5 (8 mm)	170 (680)	0.59
				14.5 m/s²	1.5 m/s²	14 min.	56 min.	concrete	HUS H 12.5 (10 mm)	110 (440)	0.91
				14.5 m/s²	1.5 m/s²	14 min.	56 min.	concrete	HUS H 16.5 (14 mm)	70 (280)	1.43
				14.5 m/s²	1.5 m/s²	14 min.	56 min.	wood	12 X wood (240 mm)	22 (88)	4.55

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Screwdrivers

Basic tool data								Productivity data			
Tool	**Dust removal system**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty k**	**Time to EAV**	**Time to ELV**	**Work piece material**	**Screw type**	**Number of screw settings to EAV 2.5 m/s² (ELV 5 m/s²)**	**HSE points per screw setting**
TKI 2500 (01)	no	97 dB(A)	108 dB(A)	12.3 m/s²	1.5 m/s²	20 min.	80 min.	steel	M10 metal	590 (2360)	0.17
				12.3 m/s²	1.5 m/s²	20 min.	80 min.	concrete	HUS H 7.5 (6 mm)	290 (1160)	0.34
ST 1800 (01)	no	84 dB(A)	95 dB(A)	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	1 mm metal sheet overlap mount 1 mm to 1 mm	S-MD 01Z 4,8 x 19	2500 (10000)	0.04
				2.5 m/s²	1.5 m/s²	480 min.	>1440 min.		S-MD 51Z 4,8 x 19	2100 (8400)	0.05
				2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	1 mm metal sheet mount on 4 mm steel beam	S-MD 03Z 5,5 x 25	800 (3200)	0.13
				2.5 m/s²	1.5 m/s²	480 min.	>1440 min.		S-MD 53Z 5,5 x 25	900 (3600)	0.11
				2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	1 mm metal sheet mount on 10 mm steel beam	S-MD 05Z 5,5 x 40	280 (1120)	0.36
				2.5 m/s²	1.5 m/s²	480 min.	>1440 min.		S-MD 55Z 5,5 x 45	330 (1320)	0.30
ST 1800-A22 (01)	no	70 dB(A)	81 dB(A)	0.5 m/s²	1.5 m/s²	>1440 min.	>1440 min.	1 mm metal sheet overlap mount 1 mm to 1 mm	S-MD 01Z 4.8 x 19	3000 (12000)	0.03
				0.5 m/s²	1.5 m/s²	>1440 min.	>1440 min.		S-MD 51Z 4.8 x 19	5200 (20800)	0.02
				0.5 m/s²	1.5 m/s²	>1440 min.	>1440 min.	1 mm metal sheet mount on 4 mm steel beam	S-MD 03Z 5.5 x 25	1500 (6000)	0.07
				0.5 m/s²	1.5 m/s²	>1440 min.	>1440 min.		S-MD 53Z 5.5 x 25	2700 (10800)	0.04
				0.5 m/s²	1.5 m/s²	>1440 min.	>1440 min.	1 mm metal sheet mount on 10 mm steel beam	S-MD 05Z 5.5 x 40	540 (2160)	0.19
				0.5 m/s²	1.5 m/s²	>1440 min.	>1440 min.		S-MD 55Z 5.5 x 45	800 (3200)	0.13
SD 5000 (01)	no	85 db(A)	96 db(A)	3.4 m/s²	1.5 m/s2	260 min.	>1440 min.				
SD 6000 (01)	no	85 dB(A)	96 dB(A)	2.8 m/s²	1.5 m/s²	383 min.	>1440 min.				

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Cordless drill/driver (screw fastening)

Basic tool data								Productivity data
Tool	**Dust removal system**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty k**	**Time to EAV**	**Time to ELV**	
SF2-A	no	64 dB(A)	75 dB(A)	0.5 m/s²	1.5 m/s²	>1440 min.	>1440 min.	
SFD 2-A	no	64 dB(A)	75 dB(A)	0.5 m/s²	1.5 m/s²	>1440 min.	>1440 min.	

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

How to read the Tool Selector - Impact Fastening

The number of screws that can be set for a particular tool and given workpiece material and screw 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 tools
Hand-held diamond core drilling with water in non reinforced concrete

Basic tool data								Productivity data												
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Core bit length or type	Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) for coring diameter [mm] HSE points per hole Hole depth 100 mm										
										8	12	16	18	20	24	28	35	52
DD EC 1 (01)	wet	87 dB(A)	98 dB(A)	10 m/s²	1.5 m/s²	30 min.	120 min.	concrete 40 N/mm²	150 mm		120 (480) 0.83		110 (440) 0.91	100 (400) 1.00				
				17 m/s²	1.5 m/s²	10 min.	40 min.	concrete 40 N/mm²	300 mm					47 (188) 2.13			28 (112) 3.57	
DD 130 (01)	wet	89 dB(A)	100 dB(A)	5 m/s²	1.5 m/s²	120 min.	480 min.	concrete 40 N/mm²	HWC						90 (360) 1.11			40 (160) 2.50
DD 150-U (01)	wet	87 dB(A)	98 dB(A)	7 m/s²	1.5 m/s²	61 min.	244 min.	concrete 40 N/mm²	HWC 66/350									30 (120) 3.33

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Hand-held dry diamond core drilling into sand-limestone

Basic tool data								Productivity data																						
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Core bit length or type	Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) for coring diameter [mm] HSE points per hole Hole depth 100 mm																				
										16	18	20	24	28	35	52	67	68	87	102	112	122	132	152	162
DD 110-D (01)	dry, vacuum	84 dB(A)	95 dB(A)	5.8 m/s²	1.5 m/s²	89 min.	356 min.	sand-limestone, density 2.0	SC HDMU								230 (920) 0.43			200 (800) 0.50		90 (360) 1.11			20 (80) 5.00
DD 130 (01)	dry, vacuum	89 dB(A)	100 dB(A)	6 m/s²	1.5 m/s²	83 min.	332 min.	sand-limestone, density 2.0	SC HDMU								370 (1480) 0.27			170 (680) 0.59		100 (400) 1.00			30 (120) 3.33
DD 150-U (01)	dry, vacuum	87 dB(A)	98 dB(A)	6.5 m/s²	1.6 m/s²	71 min.	284 min.	sand-limestone, density 2.0	DD-B HDMU								370 (1480) 0.27			170 (680) 0.59		100 (400) 1.00			30 (120) 3.33
				14.5 m/s²	4.5 m/s²	14 min.	56 min.	sand-limestone, density 2.0	DD-B PCM								280 (1120) 0.36								

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

Hand-held dry diamond socket cutting into sand-limestone

Basic tool data								Productivity data				
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Core bit length or type	Number of holes to EAV 2.5 m/s2 (ELV 5 m/s2) for coring diameter [mm] HSE points per hole Hole depth 60 mm		
										68	82	
DD 110-D (01)	dry, vacuum	84 dB(A)	95 dB(A)	5.8 m/s²	1.5 m/s²	89 min.	356 min.	sand-limestone, density 2.0	SC HDMU		320 (1280) 0.31	
				12 m/s²	1.5 m/s²	21 min.	84 min.	sand-limestone, density 2.0	SC PCM		130 (520) 0.77	
DD 130 (01)	dry, vacuum	89 dB(A)	100 dB(A)	6 m/s²	1.5 m/s²	83 min.	332 min.	sand-limestone, density 2.0	SC HDMU		280 (1120) 0.36	
				11 m/s²	2.5 m/s²	25 min.	100 min.	sand-limestone, density 2.0	SC PCM		190 (760) 0.53	

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 60745-2-x. Uncertainty (k): noise 3dB.

How to read the Tool Selector
Diamond coring
The number of holes that can be made for a particular tool given diameter, depth, work piece material and consumable in one working day befopre 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.

Diamond coring tools

Rig based diamond core drilling with water in non reinforced concrete (I)

Basic tool data								Productivity data											
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Core bit length or type	Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) for coring diameter [mm] HSE points per hole Hole depth 100 mm									
										8	12	16	18	20	24	28	35		
DD EC1- (DD-CR1 Rig) (01)	wet	84 dB(A)	97 dB(A)	7 m/s²	1.5 m/s²	61 min.	244 min.	concrete 40 N/mm²	DD-C 20/150 T2					110 (440) 0.91					
				11 m/s²	1.5 m/s²	25 min.	100 min.	concrete 40 N/mm²	DD-C 35/300 T2								65 (260) 1.54		

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 61029-2-6. Uncertainty (k): noise 3dB.

Rig based diamond core drilling with water in non reinforced concrete (II)

Basic tool data								Productivity data														
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Work piece material	Core bit length or type	Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) for coring diameter [mm] HSE points per hole Hole depth 200 mm												
										52	67	68	87	102	112	122	132	152	162	202		
DD 120 (01)	wet	89 dB(A)	102 dB(A)	2.5 m/s²	n.a.	480 min.	>1440 min.	concrete 40 N/mm²	DD BI…P2/PU	170 (680) 0.59				130 (520) 0.77		60 (240) 1.67		40 (160) 2.50				
DD 130-Rig (01)	wet	89 dB(A)	102 dB(A)	3.5 m/s²	n.a.	245 min.	980 min.	concrete 40 N/mm²	DD BI…P2/P130	290 (1160) 0.34				80 (320) 1.25		70 (280) 1.43		30 (120) 3.33				

* Emission sound pressure level L_{pA} and triaxial vibration value ahv according to the relevant European Standard EN 61029-2-6. Uncertainty (k): noise 3dB.

Diamond coring tools
Rig based diamond core drilling with water in non reinforced concrete (III)

Basic tool data								Productivity data									
Tool	**Dust removal system**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty K**	**Time to EAV**	**Time to ELV**	**Work piece material**	**Core bit length or type**	**Number of holes to EAV 2.5 m/s² (ELV 5 m/s²) for coring diameter [mm] HSE points per hole Hole depth 200 mm**							
										35	**82**	**102**	**112**	**132**	**152**	**162**	**202**
DD 150-U-Rig* (01)**	wet	93 dB(A)	104 dB(A)	3.5 m/s²	1.5 m/s²	245 min.	980 min.	concrete 40 N/mm²	DD-BI 102/430 P130			270 (408) 0.37					
									DD-BI 132/430 P130					95 (380) 1.05			
									DD-BI 162/320 PU							105 (420) 0.95	
DD 160 (02)	wet	93 dB(A)	106 dB(A)	4 m/s²	1.5 m/s²	188 min.	752 min.	concrete 40 N/mm²	DD-BI 35/430 P4	700 (2800) 0.14							
									DD-BI 82/430 P		270 (1080) 0.37						
									DD-BI 152/430 P130						54 (216) 1.85		
									DD-BI 202/430 P2								90 (360) 1.11
DD 200 (01)	wet	92 dB(A)	105 dB(A)	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	concrete 40 N/mm²	DD-BL 112/500 H2				390 (1560) 0.26				
									DD-BL 202/500 H2								90 (360) 1.11
DD 350 (01)	wet	95 dB(A)	108 dB(A)	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	concrete 40 N/mm²	DD-BL 112/500 H2				1100 (4400) 0.09				
									DD-BL 202/500 H2								290 (1160) 0.34
DD 350 - CA (01)	wet	95 dB(A)	108 dB(A)	<2.5 m/s²	1.5 m/s²	>1440 min.	>1440 min.	concrete 40 N/mm²									
DD 500-Rig (01)**	wet	100 dB(A)	115 dB(A)	4.5 m/s²	1.5 m/s2	148 min.	592 min.	concrete 40 N/mm²	DD BL 112/500 HX2S				700 (2800) 0.14				
									DD BL 202/500 HX2S								300 (1200) 0.33
DD 500-Rig- CA (01)**	wet	100 dB(A)	115 dB(A)	<2.5 m/s²	1.5 m/s²	>1440 min.	>1440 min.	concrete 40 N/mm²									

* Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 61029-2-6. Uncertainty (k): noise 3dB.
** Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 12348. Uncertainty (k) for sound pressure level LpA 4 dB(A). Uncertainty (k) for sound power level 2.5 dB(A).
*** Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745

Diamond grinding (minerals)

Basic tool data								Productivity data	
Tool	**Dust removal system**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty K**	**Time to EAV**	**Time to ELV**	**Work piece material**	
DG 150 (01)	integrated	88 dB(A)	99 dB(A)	5.8 m/s²	1.5 m/s²	89 min.	356 min.	concrete 40N/mm³	

*Emission sound pressure level LpA and triaxial vibration value ahv according to the relevant European Standard EN 60745

Diamond cutting tools - cutting

Basic tool data								Productivity data				
Tool	**Dust removal available**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty k**	**Time to EAV**	**Time to ELV**	**Cutting Wheel**	**Application & Work piece material**	**Meters till EAV 2.5 m/s²**	**Meters till ELV 5 m/s²**	**HSE Points**
DCH 230 (01)	integrated	102.5 dB(A)	113.5 dB(A)	4.7 m/s²	1.5 m/s²	136 min.	544 min.	DC-D 230 C1	cutting off 50 mm concrete pavement slabs (5 cm x 40 cm slab)	70	280	1.43
DCH 300 (01)	integrated	106 dB(A)	117 dB(A)	5.1 m/s²	1.5 m/s²	115 min.	460 min.	DCH-D 305-C1	cutting off 50 mm concrete pavement slabs (5 cm x 40 cm slab)	61	244	1.64
DSH 700 (30 cm/12") (01)	Water suppression	n/a	n/a	5.5 m/s²	n/a	99 min.	396 min.	DC-D 300/3.2/20 C1	cutting off 50 mm concrete pavement slabs (5 cm x 40 cm slab)	135	540	0.74

* Emission sound pressure level LpA and triaxial vibration value ahv according to EN 60745-2-x (Uncertainty (k): noise 3 dB(A), vibration 1,5 ….2,7 m/s² , depending on tool and application).

Wall chasing / slitting

Basic tool data								Productivity data				
Tool	**Dust removal available**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty k**	**Time to EAV**	**Time to ELV**	**Cutting Wheel**	**Application & Work piece material**	**Meters till EAV 2.5 m/s²**	**Meters till ELV 5 m/s²**	**HSE Points**
DC-SE 20 (01)	integrated	100 dB(A)	111 dB(A)	4.5 m/s²	1.5 m/s²	148 min.	592 min.	DC-D 125-SE M1	wall chasing 30 mm deep in sand-limestone	25.5	101	3.92
								DC-D 125-SE C1	wall chasing 30 mm deep in 40 N/mm² concrete	86	344	1.16
DSH 700 30 (01)	Water suppression	99 dB(A)	110 dB(A)	4.5 m/s²	2.4 m/s²	148 min.	592 min.	DC-D 300/3.2/20 C1	cutting grooves 45 mm deep in 40 N/mm² concrete	60	240	1.67
								DC-D 300/3.2/20 C1	cutting grooves 90 mm deep in sand-limestone (density 2.1)	110	440	0.91
								DC-D 300/3.2/20 C1	cutting 5 cm x 40 cm concrete pavement slab	135	540	0.74
DCH 180 SL (01)	integrated	106 dB(A)	117 dB(A)	5.6 m/s²	1.7 m/s2	96 min.	384 min.	DCH-D 185-SE M1	wall chasing 45 mm deep in sand-limestone	79	316	1.27
								DCH-D 185-SE C1	wall chasing 45 mm deep in 40 N/mm² concrete	32	128	3.13
DCH 300 (01)	integrated	106 dB(A)	117 dB(A)	8 m/s²	1.5 m/s²	115 min.	460 min.	DCH-D 305-C1	cutting grooves 45 mm deep in 40 N/mm² concrete	48	192	2.08
								DCH-D 305-M1	cutting grooves 45 mm deep in sand-limestone (density 2.0)	32	128	3.13
								DCH-D 305-M1	cutting grooves 90 mm deep in sand- limestone (density 2.0)	26	104	3.85
DCH 230 (01)	integrated	102.5 dB(A)	113.5 dB(A)	6.5 m/s²	1.5 m/s²	n/a	n/a	DC-D 230 C1	cutting grooves 45 mm deep in 40 N/mm² concrete	58	232	1.72
								DC-D 230-M1	cutting grooves 50 mm deep in sand-limestone (density 2.1)	109	436	0.92

* Emission sound pressure level LpA and triaxial vibration value ahv according to EN 60745-2-x (Uncertainty (k): noise 3 dB(A), vibration 1,5 ….2,7 m/s² , depending on tool and application).

Angle grinders

Grinding steel

Basic tool data								Productivity data				
Tool	**Dust removal system**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty k**	**Time to EAV**	**Time to ELV**	**Saw blade**	**Application & Work piece material**	**Metres till EAV 2.5 m/s²**	**Metres till ELV 5 m/s²**	**HSE Points**
AG 125-S (01)	n/a	88 dB(A)	99 dB(A)	5.2 m/s²	1.5 m/s²	111 min.	444 min.	AG-D 125 USP 6,4	grinding 5x5 mm chamfer (12.5 mm² on mild steel)	21	84	4.76
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4.6 m/s²	1.5 m/s²	142 min.	568 min.	AG-D 125 USP 6,4	grinding 5x5 mm chamfer (12.5 mm² on mild steel)	28	112	3.57
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1.5 m/s²	61 min.	244 min.	AG-D 125 USP 6,4	grinding 5x5 mm chamfer (12.5 mm² on mild steel)	46	184	2.17
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5.7 m/s²	1.5 m/s²	92 min.	368 min.	AG-D 125 USP 6,4	grinding 5x5 mm chamfer (12.5 mm² on mild steel)	50	200	2.00
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5.8 m/s²	1.5 m/s²	89 min.	356 min.	AG-D 230 USP 6,4	grinding 5x5 mm chamfer (12.5 mm² on mild steel)	11	44	9.09
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1.5 m/s²	120 min.	480 min.	AG-D 230 USP 6,4	grinding 5x5 mm chamfer (12.5 mm² on mild steel)	61	244	1.64

* Emission sound pressure level LpA and triaxial vibration value ahv according to EN 60745-2-x (Uncertainty (k): noise 3 dB(A).

Cutting minerals

Basic tool data								Productivity data				
Tool	**Dust removal system**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty k**	**Time to EAV**	**Time to ELV**	**Saw blade**	**Application & Work piece material**	**Metres till EAV 2.5 m/s²**	**Metres till ELV 5 m/s²**	**HSE Points**
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1.5 m/s²	120 min.	480 min.	DC-D 230-C1	cutting off 50 mm concrete slabs	61	244	1.64
								DC-D 230-C1	cutting grooves 30 mm deep in 40 N/mm² concrete	54	216	1.85
								DC-D 230-C1	cutting grooves 45 mm deep in sand-limestone	71	284	1.41
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1.5 m/s²	120 min.	480 min.	DC-D 230-C1	cutting off 50 mm concrete slabs	79	316	1.27
								DC-D 230-C1	cutting grooves 30 mm deep in 40 N/mm² concrete	60	240	1.67
								DC-D 230-C1	cutting grooves 45 mm deep in sand-limestone	117	468	0.85
DCG 230-DB (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1.5 m/s²	120 min.	480 min.	DC-D 230-C1	cutting off 50 mm concrete slabs	70	280	1.43
								DC-D 230-C1	cutting grooves 30 mm deep in 40 N/mm² concrete	80	320	1.25
								DC-D 230-C1	cutting grooves 45 mm deep in sand-limestone	108	432	0.93

* Emission sound pressure level LpA and triaxial vibration value ahv according to EN 60745-2-x (Uncertainty (k): noise 3 dB(A), vibration n.a.

Steel cutting tools

Cutting rebar

Basic tool data								Productivity data						
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Number of cuts for diamater [mm] to EAV 2.5 m/s2 (ELV 5 m/s2)				
									HSE Points				
									10	12	15	20	25
AG 125-A22 (01)	n/a	83 dB(A)	94 dB(A)	3,8 m/s²	1,5 m/s²	208 min.	832 min.	AC-D 125 Inox USP 1.0mm		2240 (8960) 0.04			640 (2560) 0.16
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5,8 m/s²	1,5 m/s²	89 min.	356 min.	AC-D 230 2.5mm USP		1860 (7440) 0.05	1150 (4600) 0.09	610 (2440) 0.16	380 (1520) 0.26
								AC-D 230 1.8mm Inox		1950 (7800) 0.05	1220 (4880) 0.08	660 (2640) 0.15	420 (1680) 0.24
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP	1140 (4560) 0.09	760 (3040) 0.13	480 (1920) 0.21	260 (1040) 0.38	170 (680) 0.59
								AC-D 125 2,5mm USP	450 (1800) 0.22	300 (1200) 0.33	190 (760) 0.53	100 (400) 1.00	70 (280) 1.43
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox		3790 (15160) 0.03	2200 (8800) 0.05	1070 (4280) 0.09	640 (2560) 0.16
								AC-D 230 2,5mm USP		3860 (15440) 0.03	2170 (8680) 0.05	1010 (4040) 0.10	580 (2320) 0.17
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5,7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 125 1,5mm Inox	1490 (5960) 0.07	1060 (4240) 0.09	720 (2880) 0.14	430 (1720) 0.23	300 (1200) 0.33
								AC-D 125 2,5mm USP	620 (2480) 0.16	410 (1640) 0.24	260 (1040) 0.38	140 (560) 0.71	90 (360) 1.11
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5,0 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox		3400 (13600) 0.03	2080 (8320) 0.05	1080 (4320) 0.09	680 (2720) 0.15
								AC-D 230 2,5mm USP		1480 (5920) 0.07	1550 (6200) 0.06	840 (3360) 0.12	540 (2160) 0.19
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 1,5mm Inox	1340 (5360) 0.07	890 (3560) 0.11	560 (2240) 0.18	300 (1200) 0.33	200 (800) 0.50
								AC-D 125 2,5mm USP	430 (1720) 0.23	280 (1120) 0.36	170 (680) 0.59	90 (360) 1.11	60 (240) 1.67

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

Steel cutting tools

Cutting channel installation systems

Basic tool data								Productivity data			
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Number of cuts through channel to EAV 2.5 m/s2 (ELV 5 m/s2) HSE Points		
									MQ 21/2	MQ 41/2	MQ 41/3
AG 125-A22 (01)	n/a	83 dB(A)	94 dB(A)	3,8 m/s²	1,5 m/s²	208 min.	832 min.	AC-D 125 Inox USP 1.0mm	1440		
									(5760)		
									0.07		
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5,8 m/s²	1,5 m/s²	89 min.	356 min.	AC-D 230 1.8 Inox	1210	820	550
									(4840)	(3280)	(2200)
									0.08	0.12	0.18
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP	470	320	220
									(1880)	(1280)	(880)
									0.21	0.31	0.45
								AC-D 125 2,5mm USP	190	130	90
									(760)	(520)	(360)
									0.53	0.77	1.11
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox	2790	1390	870
									(11160)	(5560)	(3480)
									0.04	0.07	0.11
								AC-D 230 2,5mm USP	2150	1330	810
									(8600)	(5320)	(3240)
									0.05	0.08	0.12
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5,7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 125 1,5mm Inox	720	520	370
									(2880)	(2080)	(1480)
									0.14	0.19	0.27
								AC-D 125 2,5mm USP	260	180	120
									(1040)	(720)	(480)
									0.38	0.56	0.83
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5,0 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox	2060	1370	900
									(8240)	(5480)	(3600)
									0.05	0.07	0.11
								AC-D 230 2,5mm USP	1540	1040	700
									(6160)	(4160)	(2800)
									0.06	0.10	0.14
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 1,5mm Inox	560	380	250
									(2240)	(1520)	(1000)
									0.18	0.26	0.40
								AC-D 125 2,5mm USP	170	120	80
									(680)	(480)	(320)
									0.59	0.83	1.25

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

Steel cutting tools

Cutting steel bars (square)

Basic tool data								Productivity data						
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Square steel Number of cuts through dimensions [mm] to EAV 2.5 m/s2 (ELV 5 m/s2) HSE Points				
									13	20	25	30	40
AG 125-A22 (01)	n/a	83 dB(A)	94 dB(A)	3,8 m/s²	1,5 m/s²	208 min.	832 min.	AC-D 125 Inox USP 1.0mm	1590 (6360) 0.06				
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5,8 m/s²	1,5 m/s²	89 min.	356 min.	AC-D 230 2.5mm USP	1200 (4800) 0.08	470 (1880) 0.21	290 (1160) 0.34	190 (760) 0.53	100 (400) 1.00
								AC-D 230 1,8mm Inox	1400 (5600) 0.07	540 (2160) 0.19			110 (440) 0.91
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP	550 (2200) 0.18	215 (860) 0.47			
								AC-D 125 2,5mm USP	220 (880) 0.45	80 (320) 1.25			
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 2,5mm USP	2570 (10280) 0.04	790 (3160) 0.13			110 (440) 0.91
								AC-D 230 1,8mm Inox	2580 (10320) 0.04	850 (3400) 0.12			140 (560) 0.71
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5,7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 125 2,5mm USP	300 (1200) 0.33	120 (480) 0.83			
								AC-D 125 1,5mm Inox	810 (3240) 0.12	370 (1480) 0.27			
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5,0 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 2,5mm USP	1780 (7120) 0.06	680 (2720) 0.15			140 (560) 0.71
								AC-D 230 1,8mm Inox	2400 (9600) 0.04	870 (3480) 0.11			170 (680) 0.59
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 2,5mm USP	200 (800) 0.50		70 (280) 1.43		
								AC-D 125 1,5mm Inox	640 (2560) 0.16		250 (1000) 0.40		

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

Steel cutting tools
Cutting steel bars (flat)

Basic tool data								Productivity data				
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Flat steel Number of cuts through dimensions [mm] to EAV 2.5 m/s2 (ELV 5 m/s2) HSE Points 10 x 50	20 x 60	30 x 60	30 x 80
AG 125-A22 (01)	n/a	83 dB(A)	94 dB(A)	3,8 m/s²	1,5 m/s²	208 min.	832 min.	AC-D 125 Inox USP 1.0mm	630 (2520) 0.16			
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5,8 m/s²	1,5 m/s²	89 min.	356 min.	AC-D 230 2.5mm USP	370 (1480) 0.27	140 (560) 0.71	90 (360) 1.11	65 (260) 1.54
								AC-D 230 1,8mm Inox	420 (1680) 0.24			70 (280) 1.43
DAG 115-S (02)	n/a	86 dB(A)	97 dB(A)	7,5 m/s²	1,5 m/s²	53 min.	212 min.	AC-D 115 1,0mm Inox USP	370 (1480) 0.27	140 (560) 0.71		
								AC-D 115 2,5mm USP	90 (360) 1.11			
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP	170 (680) 0.59			
								AC-D 125 2,5mm USP	70 (280) 1.43	30 (120) 3.33		
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 2,5mm USP	590 (2360) 0.17			60 (240) 1.67
								AC-D 230 1,8mm Inox	650 (2600) 0.15			80 (320) 1.25
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5,0 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 2,5mm USP	540 (2160) 0.19			100 (400) 1.00
								AC-D 230 1,8mm Inox	680 (2720) 0.15			90 (360) 1.11

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

Steel cutting tools
Cutting cable trays

Basic tool data								Productivity data						
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Number of cuts for diamater [mm] to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points					
									50mm	100mm	150mm	225mm	300mm	600mm
AG 125-A22 (01)	n/a	83 dB(A)	94 dB(A)	3,8 m/s²	1,5 m/s²	208 min.	832 min.	AC-D 125 Inox USP 1.0mm					980 (3920) 0.10	
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5,8 m/s²	1,5 m/s²	89 min.	356 min.	AC-D 230 1,8mm Inox USP	1590 (6360) 0.06	1120 (4480) 0.09	1340 (5360) 0.07	820 (3280) 0.12	740 (2960) 0.14	350 (1400) 0.29
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP	620 (2480) 0.16	440 (1760) 0.23	520 (2080) 0.19	320 (1280) 0.31	290 (1160) 0.34	155 (620) 0.65
								AC-D 125 2,5mm USP	250 (1000) 0.40	170 (680) 0.59	210 (840) 0.48	130 (520) 0.77	120 (480) 0.83	60 (240) 1.67
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox USP	3000 (12000) 0.03	2000 (8000) 0.05	2450 (9800) 0.04	1380 (5520) 0.07	1230 (4920) 0.08	520 (2080) 0.19
								AC-D 230 2,5mm USP	3000 (12000) 0.03	1950 (7800) 0.05	2420 (9680) 0.04	1320 (5280) 0.08	1160 (4640) 0.09	470 (1880) 0.21
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5,7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 125 1,5mm Inox USP	890 (3560) 0.11	670 (2680) 0.15	780 (3120) 0.13	520 (2080) 0.19	480 (1920) 0.21	240 (960) 0.42
								AC-D 125 2,5mm USP	340 (1360) 0.29	240 (960) 0.42	290 (1160) 0.34	180 (720) 0.56	160 (640) 0.63	85 (340) 1.18
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5,0 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox USP	2740 (10960) 0.04	1900 (7600) 0.05	2290 (9160) 0.04	1360 (5440) 0.07	1220 (4880) 0.08	560 (2240) 0.18
								AC-D 230 2,5mm USP	2020 (8080) 0.05	1420 (5680) 0.07	1700 (6800) 0.06	1040 (4160) 0.10	940 (3760) 0.11	450 (1800) 0.22
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 1,5mm Inox USP	730 (2920) 0.14	510 (2040) 0.20	610 (2440) 0.16	370 (1480) 0.27	340 (1360) 0.29	185 (740) 0.54
								AC-D 125 2,5mm USP	230 (920) 0.43	160 (640) 0.63	190 (760) 0.53	120 (480) 0.83	100 (400) 1.00	55 (220) 1.82

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

Cutting sheet steel metal

Basic tool data								Productivity data	
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Number of cuts for diamater [mm] to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points steel sheet metal (400mm x 1,4mm)
AG 125-A22 (01)	n/a	83 dB(A)	94 dB(A)	3,8 m/s²	1,5 m/s²	208 min.	832 min.	AC-D 125 Inox USP 1.0mm	580 (2320) 0.17

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

Circular sawing metal

Basic tool data								Productivity data			
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty k	Time to EAV	Time to ELV	Saw blade	Application & Work piece material HSE Points	Metres till EAV 2.5 m/s2	Metres till EAV 5 m/s2
SCM 22-A (01)	n/a	77 dB(A)	88 dB(A)	1.2 m/s²	1.5 m/s²	>1440 min.	>1440 min.	all, Quick, Multi, Qualicut	Cutting off 3 mm sheet metal	2500 0.04	10000

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

Steel cutting tools

Cutting round steel bars

Basic tool data								Productivity data							
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Number of cuts for diamater [mm] to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points					
									10mm	12mm	15mm	20mm	30mm	40mm
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5,8 m/s²	1,5 m/s²	89 min.	356 min.	AC-D 230 2,5mm USP	2770 (11080) 0.04	1860 (7440) 0.05		61 (244) 1.64	250 (1000) 0.40	130 (520) 0.77
								AC-D 230 1,8mm Inox USP		2180 (8720) 0.05	1320 (5280) 0.08			
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP		840 (3360) 0.12	520 (2080) 0.19			
								AC-D 125 2,5mm USP		330 (1320) 0.30	210 (840) 0.48			
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox USP		4320 (17280) 0.02	2410 (9640) 0.04			
								AC-D 230 2,5mm USP		4440 (17760) 0.02	2390 (9560) 0.04			
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5,7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 125 1,5mm Inox USP		1160 (4640) 0.09	770 (3080) 0.13			
								AC-D 125 2,5mm USP		460 (1840) 0.22	290 (1160) 0.34			
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5,0 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox USP		3830 (15320) 0.03	2260 (9040) 0.04			
								AC-D 230 2,5mm USP		2770 (11080) 0.04	1680 (6720) 0.06			
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 1,5mm Inox USP		990 (3960) 0.10	600 (2400) 0.17			
								AC-D 125 2,5mm USP		320 (1280) 0.31	190 (760) 0.53			

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

Steel cutting tools
Cutting steel pipes

Basic tool data								Productivity data			
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Number of cuts through diameter [mm] to EAV 2.5 m/s2 (ELV 5 m/s2) HSE points		
									1" steel pipe diameter: 33.8 mm thickness: 2.8 mm	2" steel pipe diameter: 60.4 mm thickness: 2.8 mm	3" steel pipe diameter: 89 mm thickness: 2.8 mm
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5,8 m/s²	1,5 m/s²	89 min.	356 min.	AC-D 230 2.5mm USP	710 (2840) 0.14	360 (1440) 0.28	
								AC-D 230 1,8mm Inox	880 (3520) 0.11	390 (1560) 0.26	
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP	350 (1400) 0.29	160 (640) 0.63	
								AC-D 125 2,5mm USP	140 (560) 0.71	60 (240) 1.67	
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 2.5mm USP	1440 (5760) 0.07	530 (2120) 0.19	270 (1080) 0.37
								AC-D 230 1,8mm Inox	1550 (6200) 0.06	590 (2360) 0.17	310 (1240) 0.32
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5,7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 230 1.8mm Inox	550 (2200) 0.18	280 (1120) 0.36	
								AC-D 230 2.5mm USP	190 (760) 0.53	90 (360) 1.11	
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5,0 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1.8mm Inox	1470 (5880) 0.07	630 (2520) 0.16	350 (1400) 0.29
								AC-D 230 2.5mm USP	1120 (4480) 0.09	500 (2000) 0.20	290 (1160) 0.34
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 1.5mm Inox	400 (1600) 0.25	180 (720) 0.56	
								AC-D 125 2.5mm USP	120 (480) 0.83	60 (240) 1.67	

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

Steel cutting tools

Cutting rods - M10

Basic tool data								Productivity data	
Tool	**Dust removal available**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty K**	**Time to EAV**	**Time to ELV**	**Cutting Wheel**	**Number of cuts for diamater [mm] to EAV 2.5 m/s² (ELV 5 m/s²)** HSE Points
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5,7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 125 1,5mm Inox USP	1340
									(5360)
									0.07
								AC-D 125 2,5mm USP	1080
									(4320)
									0.09
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 1,5mm Inox USP	2340
									(9360)
									0.04
								AC-D 125 2,5mm USP	760
									(3040)
									0.13
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP	1980
									(7920)
									0.05
								AC-D 125 2,5mm USP	770
									(3080)
									0.13

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

Cutting pipes

Basic tool data								Productivity data		
Tool	**Dust removal available**	**Emission sound pressure level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty K**	**Time to EAV**	**Time to ELV**	**Cutting Wheel**	**Number of cuts for diamater [mm] to EAV 2.5 m/s² (ELV 5 m/s²)** HSE Points	
									Pipe OD 42,4 x 2	**Pipe OD 42,4 x 3.25**
DAG 115-S (02)	n/a	86 dB(A)	97 dB(A)	7,5 m/s²	1,5 m/s²	53 min.	212 min.	AC-D 115 2,5mm USP	200	110
									(800)	(440)
									0.50	0.91
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP	350	210
									(1400)	(840)
									0.29	0.48
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 2,5mm USP	1450	780
									(5800)	(3120)
									0.07	0.13
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5,8 m/s²	1,5 m/s²	89 min.	356 min.	AC-D 230 1.8mm Inox USP	880	530
									(3520)	(2120)
									0.11	0.19
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5,7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 125 1,5mm Inox USP	550	360
									(2200)	(1440)
									0.18	0.28
								AC-D 125 2,5mm USP	190	110
									(760)	(440)
									0.53	0.91
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 2,5mm USP	1120	670
									(4480)	(2680)
									0.09	0.15
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 1,5mm Inox USP	400	250
									(1600)	(1000)
									0.25	0.40
								AC-D 125 2,5mm USP	130	70
									(520)	(280)
									0.77	1.43

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

Steel cutting tools
Cutting pipes

Basic tool data								Productivity data		
Tool	Dust removal available	Emission sound pressure Level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Number of cuts for diamater [mm] to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points 13mm steel pipe (Ø 13.1 x1.2mm)	22 mm steel pipe (Ø22.2 x 1.2mm)
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP	2320 (9280) 0.04	1250 5000 0.08
								AC-D 125 2,5mm USP	900 (3600) 0.11	490 (1960) 0.20
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5,7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 125 1,5mm Inox USP	2700 (10800) 0.04	1610 (6440) 0.06
								AC-D 125 2,5mm USP	1270 (5080) 0.08	690 (2760) 0.14
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 1,5mm Inox USP	2740 (10960) 0.04	1480 (5920) 0.07
								AC-D 125 2,5mm USP	900 (3600) 0.11	470 (1880) 0.21

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

Cutting C-Rails

Basic tool data								Productivity data	
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Number of cuts for diamater [mm] to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5,8 m/s²	1,5 m/s²	89 min.	356 min.	AC-D 230 1,8mm Inox USP	1060 (4240) 0.09
DAG 115-S (02)	n/a	86 dB(A)	97 dB(A)	7,5 m/s²	1,5 m/s²	53 min.	212 min.	AC-D 115 2,5mm USP	250 (1000) 0.40
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4.6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 1 25 1,5mm Inox USP	420 (1680) 0.24
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox USP	1880 (7520) 0.05
								AC-D 230 2,5mm USP	1830 (7320) 0.05
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5,7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 125 1,5mm Inox USP	640 (2560) 0.16
								AC-D 125 2,5mm USP	230 (920) 0.43
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5,0 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox USP	1800 (7200) 0.06
								AC-D 230 2,5mm USP	1350 (5400) 0.07
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 1,5mm Inox USP	490 (1960) 0.20
								AC-D 125 2,5mm USP	150 (600) 0.67

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

Steel cutting tools
Cutting sheet metal decking

Basic tool data								Productivity data		
Tool	**Dust removal available**	**Emission sound pressure Level LpA***	**Emission sound power level***	**Triaxial vibration value ahv***	**Uncertainty K**	**Time to EAV**	**Time to ELV**	**Cutting Wheel**	**Work piece material**	**Number of cuts for diameter [mm] to EAV 2.5 m/s2 (ELV 5 m/s2)**
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5,8 m/s²	1,5 m/s²	89 min.	356 min.	AC-D 230 1.8mm Inox	Structural metal decking 1.2mm thick cut along deck 1m	190 (760) 0.53
									Structural metal decking 1.2mm thick cut across 60mm width,"Comflor 51"&"Metfloor 51"	150 (600) 0.67
DAG 115-S (02)	n/a	86 dB(A)	97dB(A)	7,5 m/s²	1,5 m/s²	53 min.	212 min.	AC-D 115 2,5mm USP	Structural metal decking 1.2mm thick cut along deck 1m	45 (180) 2.22
									Structural metal decking 1.2mm thick cut across 60mm width,"Comflor 51"&"Metfloor 51"	35 (140) 2.86
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP	Structural metal decking 1.2mm thick cut along deck 1m	75 (300) 1.33
									Structural metal decking 1.2mm thick cut across 60mm width,"Comflor 51"&"Metfloor 51"	55 (220) 1.82
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox	Structural metal decking 1.2mm thick cut along deck 1m	340 (1360) 0.29
									Structural metal decking 1.2mm thick cut across 60mm width,"Comflor 51"&"Metfloor 51"	260 (1040) 0.38
								AC-D 230 2,5mm USP	Structural metal decking 1.2mm thick cut along deck 1m	330 (1320) 0.30
									Structural metal decking 1.2mm thick cut across 60mm width,"Comflor 51"&"Metfloor 51"	255 (1020) 0.39
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5,7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 125 1,5mm Inox USP	Structural metal decking 1.2mm thick cut along deck 1m	115 (460) 0.87
									Structural metal decking 1.2mm thick cut across 60mm width,"Comflor 51"&"Metfloor 51"	85 (340) 1.18
								AC-D 125 2,5mm USP	Structural metal decking 1.2mm thick cut along deck 1m	40 (160) 2.50
									Structural metal decking 1.2mm thick cut across 60mm width,"Comflor 51"&"Metfloor 51"	30 (120) 3.33
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5,0 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox USP	Structural metal decking 1.2mm thick cut along deck 1m	325 (1300) 0.31
									Structural metal decking 1.2mm thick cut across 60mm width,"Comflor 51"&"Metfloor 51"	250 (1000) 0.40
								AC-D 230 2,5mm USP	Structural metal decking 1.2mm thick cut along deck 1m	240 (960) 0.42
									Structural metal decking 1.2mm thick cut across 60mm width,"Comflor 51"&"Metfloor 51"	190 (760) 0.53
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 1,5mm Inox USP	Structural metal decking 1.2mm thick cut along deck 1m	85 (340) 1.18
									Structural metal decking 1.2mm thick cut across 60mm width,"Comflor 51"&"Metfloor 51"	65 (260) 1.54
								AC-D 125 2,5mm USP	Structural metal decking 1.2mm thick cut along deck 1m	25 (100) 4.00
									Structural metal decking 1.2mm thick cut across 60mm width,"Comflor 51"&"Metfloor 51"	20 (80) 5.00

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

Steel cutting tools

Cutting ducts

Basic tool data								Productivity data			
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Number of cuts for diamater [mm] to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points		
									100 mm Ø duct x 0.5mm w.t	200 mm Ø duct x 0.6mm w.t.	355 mm Ø duct x 0.8mm w.t.
AG 125-A22 (01)	n/a	83 dB(A)	94 dB(A)	3,8 m/s²	1,5 m/s²	208 min.	832 min.	AC-D 125 Inox USP 1.0mm	1190		
									(4760)		
									0.08		
DAG 125-S (01)	n/a	87 dB(A)	98 dB(A)	4,6 m/s²	1,5 m/s²	142 min.	568 min.	AC-D 125 1,5mm Inox USP	1230	280	100
									(4920)	(1120)	(400)
									0.08	0.36	1.00
								AC-D 125 2,5mm USP	480	110	35
									(1920)	(440)	(140)
									0.21	0.91	2.86
DAG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox USP	6750	1150	255
									(27000)	(4600)	(1020)
									0.01	0.09	0.39
								AC-D 230 2,5mm USP	7100	1100	220
									(28400)	(4400)	(880)
									0.01	0.09	0.45
DC 230-S (01)	n/a	92 dB(A)	103 dB(A)	5.8 m/s²	1,5 m/s²	89 min.	356 min.	AC-D 230 1,8mm Inox USP	3200	700	190
									(12800)	(2800)	(760)
									0.03	0.14	0.53
DCG 125-S (01)	n/a	90 dB(A)	101 dB(A)	5.7 m/s²	1,5 m/s²	92 min.	368 min.	AC-D 125 2,5mm USP	670	150	45
									(2680)	(600)	(180)
									0.15	0.67	2.22
								AC-D 125 1,5mm Inox USP	1590	460	140
									(6360)	(1840)	(560)
									0.06	0.22	0.71
DCG 230-D (01)	n/a	90 dB(A)	101 dB(A)	5,0 m/s²	1,5 m/s²	120 min.	480 min.	AC-D 230 1,8mm Inox USP	5750	1150	295
									(23000)	(4600)	(1180)
									0.02	0.09	0.34
								AC-D 230 2,5mm USP	4050	900	240
									(16200)	(3600)	(960)
									0.02	0.11	0.42
DEG 125-D (01)	n/a	89 dB(A)	100 dB(A)	7 m/s²	1,5 m/s²	61 min.	244 min.	AC-D 125 2,5mm USP	450	100	30
									(1800)	(400)	(120)
									0.22	1.00	3.33
								AC-D 125 1,5mm Inox USP	1450	325	100
									(5800)	(1300)	(400)
									0.07	0.31	1.00

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

Cutting pipes

Basic tool data								Productivity data			
Tool	Dust removal available	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty K	Time to EAV	Time to ELV	Cutting Wheel	Number of cuts for diamater [mm] to EAV 2.5 m/s² (ELV 5 m/s²) HSE Points		
									steel pipe 17.2x1.8mm EN 10216-1	steel pipe 21.3x2.0mm EN 10216-1	steel pipe 33.7x2.6mm EN 10216-1
AG 125-A22 (01)	n/a	83 dB(A)	94 dB(A)	3,8 m/s²	1,5 m/s²	208 min.	832 min.	AC-D 125 Inox USP 1.0mm	2800	2100	1130
									(11200)	(8400)	(4520)
									0.04	0.05	0.09

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

Direct fastening tools

Battery nail tool	Vibration				Noise
	Base material	Recommended number of fastenings per day		HSE Points	Workplace relevant emmission value $L_{pA^*,1s}$
		EAV 2.5 m/s²	ELV 5 m/s²		
BX 3-ME	concrete	11342	45369	0.01	89 dB(A)

* Sound pressure level $L_{pA,1s}$ measured at user`s ear according to standard EN 12549. Wear ear plugs according to operating instructions.

Gas actuated nail tool	Vibration				Noise
	Base material	Recommended number of fastenings per day		HSE Points	Workplace relevant emmission value $L_{pA^*,1s}$
		EAV 2.5 m/s²	ELV 5 m/s²		
GX 120/GX 120-ME	concrete	3500	14000	0.03	102 dB(A)
GX 100/GX 100-E	concrete	2700	10800	0.04	102 dB(A)
GX 90 WF	wood	25000	100000	0.00	106 dB(A)

* Sound pressure level $L_{pA,1s}$ measured at user`s ear according to standard EN 12549. Wear ear plugs according to operating instructions.

Cartridge tool	Vibration				Noise
	Cartridge color	Recommended number of fastenings per day		HSE Points	Workplace relevant emmission value $L_{pA^*,1s}$
		EAV 2.5 m/s²	ELV 5 m/s²		
DX 351	white	2100	8400	0.05	104 dB(A)
	green	1900	7600	0.05	
	yellow	1100	4400	0.09	
	red	800	3200	0.13	
DX 460	green	1300	5200	0.08	103 dB(A)
	yellow	1000	4000	0.10	
	red	1000	4000	0.10	
	black	600	2400	0.17	
DX 76	blue	700	2800	0.14	110 dB(A)
	red	600	2400	0.17	
	black	400	1600	0.25	

* Sound pressure level $L_{pA,1s}$ measured at user`s ear according to standard EN 12549. Wear ear plugs according to operating instructions.

Cartridge tool	Vibration				Noise
	Cartridge color	Recommended number of fastenings per day		HSE Points	Workplace relevant emmission value $L_{pA^*,1s}$
		EAV 2.5 m/s²	ELV 5 m/s²		
DX 860 ENP	blue	3500	1400	0.03	106 dB(A)
	red	2600	10400	0.04	
	black	1800	7200	0.06	
DX 860 HSN	yellow	5600	22400	0.02	100 dB(A)
	red	5500	22000	0.02	
	black	3000	12000	0.03	
DX E72	brown	1000	4000	0.10	109 dB(A)
	green	900	3600	0.11	
	yellow	700	2800	0.14	
DX 2	green	600	2400	0.17	104 dB(A)
	yellow	500	2000	0.20	
	red	500	2000	0.20	
DX 36	green	600	2400	0.17	100 dB(A)
	yellow	500	2000	0.20	
	red	500	2000	0.20	

* Sound pressure level $L_{pA,1s}$ measured at user`s ear according to standard EN 12549. Wear ear plugs according to operating instructions.

Cartridge tool	Vibration				Noise
	Cartridge color	Recommended number of fastenings per day		HSE Points	Workplace relevant emmission value $L_{pA^*,1s}$
		EAV 2.5 m/s²	ELV 5 m/s²		
DX A41	green	1300	5200	0.08	103 dB(A)
	yellow	1000	4000	0.10	
	red	1000	4000	0.10	
	black	600	2400	0.17	
DX 750	blue	600	2400	0.17	110 dB(A)
	red	500	2000	0.20	
	black	400	1600	0.25	

* Sound pressure level $L_{pA,1s}$ measured at user`s ear according to standard EN 12549. Wear ear plugs according to operating instructions.

Saws

Reciprocating saws

Basic tool data								Productivity data				
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty k	Time to EAV	Time to ELV	Saw blade	Application & Work piece material	Work till EAV 2.5 m/s²	Work till ELV 5 m/s²	HSE Points per m or cut
WSR 22-A (01)	n/a	82 dB(A)	93 dB(A)	16 m/s²	1.5 m/s²	12 min.	48 min.	WU 20	Cutting off 38 mm chipboard	19 m	76 m	5.26
				18 m/s²	1.5 m/s²	9 min.	36 min.	WF 23	Cutting off (100 x 100) mm wooden beam	4 cuts	16 cuts	25.00
WSR 36-A (01)	no	90 dB(A)	101 dB(A)	13 m/s²	5 m/s²	18 min.	72 min.	WU 20	Cutting chipboard (thickness 38 mm)	47 m	188 m	2.13
				16 m/s²	4 m/s²	12 min.	48 min.	WF 23	Cutting wooden beams (100 x 100 mm fir)	6 cuts	24 cuts	16.67
WSR 650-A (01)	no	84 dB(A)	95 dB(A)	12 m/s²	2.5 m/s²	21 min.	84 min.	WU 20	Cutting chipboard (thickness 38 mm)	61 m	244 m	1.64
				16 m/s²	5 m/s²	12 min.	48 min.	WF 23	Cutting wooden beams (100 x 100 mm fir)	10 cuts	40 cuts	10.00
WSR 900-PE (01)	no	89 dB(A)	100 dB(A)	16 m/s²	2.5 m/s²	12 min.	48 min.	WU 20	Cutting chipboard (thickness 38 mm)	48 m	192 m	2.08
				23 m/s²	3.5 m/s²	6 min.	24 min.	WF 23	Cutting wooden beams (100 x 100 mm fir)	4 cuts	16 cuts	25.00
WSR 1250-PE (01)	no	90 dB(A)	101 dB(A)	22 m/s²	2.5 m/s²	6 min.	24 min.	WU 20	Cutting chipboard (thickness 38 mm)	28 m	112 m	3.57
				26.5 m/s²	3.5 m/s³	4 min.	16. min	WF 23	Cutting wooden beams (100 x 100 mm fir)	4 cuts	16 cuts	25.00
WSR 1400-PE (01)	no	91 dB(A)	102 dB(A)	20 m/s²	2.5 m/s²	8 min.	32 min.	WU 20	Cutting chipboard (thickness 38 mm)	35 m	140 m	2.86
				28 m/s²	3.5 m/s³	4 min.	16 min.	WF 23	Cutting wooden beams (100 x 100 mm fir)	4 cuts	16 cuts	25.00

* Emission sound pressure level LpA and triaxial vibration value ahv according to EN 60745-2-x (Uncertainty (k): noise 3 dB(A), depending on tool and application).

Jig saws

Basic tool data								Productivity data				
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty k	Time to EAV	Time to ELV	Saw blade	Application & Work piece material	Work till EAV 2.5 m/s2	Work till ELV 5 m/s2	HSE Points
WSJ 750-EB (01)	WSJ-DRS	88 dB(A)	99 dB(A)	13 m/s²	1.5 m/s²	18 min.	72 min.	W91/P HCS	Cutting chipboard (thickness 38 mm)	50 m	200 m	2.00
				5 m/s²	1.5 m/s²	120 min.	480 min.	M50/2 BIM	Cutting off 3mm sheet metal	23 m	92 m	4.35
WSJ 750-ET (01)	WSJ-DRS	87 dB(A)	98 dB(A)	10.5 m/s²	1.5 m/s²	27 min.	108 min.	W91/P HCS	Cutting chipboard (thickness 38 mm)	70 m	280 m	1.43
				4 m/s²	1.5 m/s²	188 min.	752 min.	M50/2 BIM	Cutting off 3mm sheet metal	26 m	104 m	3.85
WSJ 850-EB (01)	WSJ-DRS	88 dB(A)	99 dB(A)	11 m/s²	1.5 m/s²	25 min.	100 min.	W91/P HCS	Cutting chipboard (thickness 38 mm)	75 m	300 m	1.33
				5 m/s²	1.5 m/s²	120 min.	480 min.	M50/2 BIM	Cutting off 3mm sheet metal	24 m	96 m	4.17
WSJ 850-ET (01)	WSJ-DRS	87 dB(A)	98 dB(A)	9 m/s²	1.8 m/s²	37 min.	148 min.	W91/P HCS	Cutting chipboard (thickness 38 mm)	110 m	440 m	0.91
				4 m/s²	1.5 m/s²	188 min.	752 min.	M50/2 BIM	Cutting off 3mm sheet metal	29 m	116 m	3.45

* Emission sound pressure level LpA and triaxial vibration value ahv according to EN 60745-2-x (Uncertainty (k): noise 3 dB(A), depending on tool and application).

Circular saws

Basic tool data								Productivity data				
Tool	Dust removal system	Emission sound pressure level LpA*	Emission sound power level*	Triaxial vibration value ahv*	Uncertainty k	Time to EAV	Time to ELV	Saw blade	Application & Work piece material	Metres till EAV 2.5 m/s2	Metres till ELV 5 m/s2	HSE Points
SCW 22-A (01)	VC	93 dB(A)	104 dB(A)	1.2 m/s²	1.5 m/s²	>1440 min.	>1440 min.	all, Quick, Multi, Qualicut	Cutting off 38 mm chipboard	13500 m	54000 m	0.01
								all, Quick, Multi, Qualicut	Cutting 55 mm softwood	1800 m	7200 m	0.06
SC 70W-A22 (01)	VC	81 dB(A)	92 dB(A)	1.3 m/s²	1.5 m/s²	>1440 min.	>1440 min.	Hilti Universal 190x1.8/1.1x30				
SC 55 W (01)	VC	89 dB(A)	100 dB(A)	2.2 m/s²	1.5 m/s²	620 min.	>1440 min.	Hilti Universal 190x1.8/1.1x30				
WSC 55-A24 (01)	VC	95 dB(A)	106 dB(A)	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	all, Quick, Multi, Qualicut	Cutting off 38 mm chipboard	5200 m	20800 m	0.02
								all, Quick, Multi, Qualicut	Cutting 55 mm softwood	3000 m	12000 m	0.03
WSC-55 (02)	VC	94 dB(A)	105 dB(A)	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	all, Quick, Multi, Qualicut	Cutting off 38 mm chipboard	9000 m	36000 m	0.01
								all, Quick, Multi, Qualicut	Cutting 55 mm softwood	4000 m	16000 m	0.03
WSC 70-A36 (01)	VC	97 dB(A)	108 dB(A)	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	all, Quick, Multi, Qualicut	Cutting off 38 mm chipboard	7400 m	29600 m	0.01
								all, Quick, Multi, Qualicut	Cutting 55 mm softwood	4800 m	19200 m	0.02
WSC 70 (01)	VC	94 dB(A)	105 dB(A)	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	all, Quick, Multi, Qualicut	Cutting off 38 mm chipboard	5000 m	20000 m	0.02
								all, Quick, Multi, Qualicut	Cutting 70 mm softwood	4000 m	16000 m	0.03
WSC 85 (01)	VC	100 dB(A)	111 dB(A)	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	all, Quick, Multi, Qualicut	Cutting off 38 mm chipboard	3300 m	13200 m	0.03
								all, Quick, Multi, Qualicut	Cutting 80 mm softwood	1200 m	4800 m	0.08
WSC 255 (01)	VC	92 dB(A)	103 dB(A)	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	all, Quick, Multi, Qualicut	Cutting off 38 mm chipboard	3500 m	14000 m	0.03
								all, Quick, Multi, Qualicut	Cutting 55 mm softwood	3300 m	13200 m	0.03
WSC-265-KE (01)	VC	89 dB(A)	100 dB(A)	2.5 m/s²	1.5 m/s²	480 min.	>1440 min.	all, Quick, Multi, Qualicut	Cutting off 38 mm chipboard	2500 m	10000 m	0.04
								all, Quick, Multi, Qualicut	Cutting 65 mm softwood	3000 m	12000 m	0.03

* Emission sound pressure level LpA and triaxial vibration value ahv according to EN 60745-2-x (Uncertainty (k): noise 3 dB(A), depending on tool and application).

Cutting

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

Saws

Reciprocating saws cutting steel pipes

Basic tool data								Productivity data				
Tool	**Dust removal system**	**Emission sound pressure level LpA*[1]**	**Emission sound power level*[1]**	**Triaxial vibration value ahv***	**Uncertainty k**	**Time to EAV**	**Time to ELV**	**Saw blade**	**Application & Work piece material**	**Work till EAV 2.5 m/s²**	**Work till ELV 5 m/s²**	**HSE Points per cut**
WSR 22-A (01)	n/a	>82 dB(A)	>89 dB(A)	n/a	n/a	n/a	n/a	W-CSR MS 15 P	cutting 17.2x1.8mm steelpipe	82 cuts	328 cuts	1.22
								W-CSR MS 15 P	cutting 21.3x2.0mm steelpipe	55 cuts	220 cuts	1.82
								W-CSR MS 15 P	cutting 33.7x2.6mm steelpipe	26 cuts	104 cuts	3.85
								W-CSR MS 15 P	cutting 60.3x2.9mm steelpipe	12 cuts	48 cuts	8.33
WSR 36-A (01)	no	>90 dB(A)	>101 dB(A)	n/a	n/a	n/a	n/a	W-CSR MQ 15	cutting 17.2x1.8mm steelpipe	170 cuts	680 cuts	0.59
								W-CSR MQ 15	cutting 21.3x2.0mm steelpipe	140 cuts	560 cuts	0.71
								W-CSR MQ 15	cutting 33.7x2.6mm steelpipe	45 cuts	180 cuts	2.22
								W-CSR MQ 15	cutting 60.3x2.9mm steelpipe	14 cuts	56 cuts	7.14
WSR 900-PE (01)	no	>89 dB(A)	>100 dB(A)	n/a	n/a	n/a	n/a	W-CSR MS 15 P	cutting 17.2x1.8mm steelpipe	175 cuts	700 cuts	0.57
								W-CSR MS 15 P	cutting 21.3x2.0mm steelpipe	135 cuts	540 cuts	0.74
								W-CSR MS 15 P	cutting 33.7x2.6mm steelpipe	47 cuts	188 cuts	2.13
								W-CSR MS 15 P	cutting 60.3x2.9mm steelpipe	19 cuts	76 cuts	5.26
								W-CSR MS 23 P	cutting 80.9x3.2mm steelpipe	9 cuts	36 cuts	11.11
WSR 1250-PE (01)	no	>89 dB(A)	>100 dB(A)	n/a	n/a	n/a	n/a	W-CSR MS 15 P	cutting 17.2x1.8mm steelpipe	84 cuts	336 cuts	1.19
								W-CSR MS 15 P	cutting 21.3x2.0mm steelpipe	48 cuts	192 cuts	2.08
								W-CSR MS 15 P	cutting 33.7x2.6mm steelpipe	19 cuts	76 cuts	5.26
								W-CSR MS 15 P	cutting 60.3x2.9mm steelpipe	14 cuts	56 cuts	7.14
								W-CSR MS 23 P	cutting 80.9x3.2mm steelpipe	7 cuts	28 cuts	14.29
WSR 1400-PE (01)	no	>89 dB(A)	>100 dB(A)	n/a	n/a	n/a	n/a	W-CSR MS 15 P	cutting 17.2x1.8mm steelpipe	188 cuts	752 cuts	0.53
								W-CSR MS 15 P	cutting 21.3x2.0mm steelpipe	127 cuts	508 cuts	0.79
								W-CSR MS 15 P	cutting 33.7x2.6mm steelpipe	44 cuts	176 cuts	2.27
								W-CSR MS 15 P	cutting 60.3x2.9mm steelpipe	21 cuts	84 cuts	4.76
								W-CSR MS 23 P	cutting 80.9x3.2mm steelpipe	10 cuts	40 cuts	10.00

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

Reciprocating saws cutting channels

Basic tool data								Productivity data				
Tool	**Dust removal system**	**Emission sound pressure level LpA*[1]**	**Emission sound power level*[1]**	**Triaxial vibration value ahv***	**Uncertainty k**	**Time to EAV**	**Time to ELV**	**Saw blade**	**Application & Work piece material**	**Work till EAV 2.5 m/s²**	**Work till ELV 5 m/s²**	**HSE Points per cut**
WSR 22-A (01)	n/a	>82 dB(A)	>93 dB(A)	n/a	n/a	n/a	n/a	W-CSR MQ 15	MQ 21/2 channel	28 cuts	112 cuts	3.57
								W-CSR MQ 15	MQ 41/3 channel	17 cuts	68 cuts	5.88
WSR 36-A (01)	n/a	>90 dB(A)	>101 dB(A)	n/a	n/a	n/a	n/a	W-CSR MQ 15	MQ 21/2 channel	55 cuts	220 cuts	1.82
								W-CSR MQ 15	MQ 41/3 channel	25 cuts	100 cuts	4.00
WSR 900-PE (01)	n/a	>89 dB(A)	>100 dB(A)	n/a	n/a	n/a	n/a	W-CSR MQ 15	MQ 21/2 channel	130 cuts	520 cuts	0.77
								W-CSR MQ 15	MQ 41/3 channel	47 cuts	188 cuts	2.13
WSR 1250-PE (01)	n/a	>89 dB(A)	>100 dB(A)	n/a	n/a	n/a	n/a	W-CSR MQ 15	MQ 21/2 channel	52 cuts	208 cuts	1.92
								W-CSR MQ 15	MQ 41/3 channel	25 cuts	100 cuts	4.00
WSR 1400-PE (01)	n/a	>89 dB(A)	>100 dB(A)	n/a	n/a	n/a	n/a	W-CSR MQ 15	MQ 21/2 channel	116 cuts	464 cuts	0.86
								W-CSR MQ 15	MQ 41/3 channel	45 cuts	180 cuts	2.22

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

[1] Emission sound pressure level and Emission sound power level values recorded here are for wood applications, so steel application values may differ depending on the work piece used

How to read the Tool Selector

Cutting

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

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. 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.

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. Ear protection should be used as defined by employer.

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/s² 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" (EAV) of 5 m/s² is the absolute maximum level allowed and only where additional controls are in place.

Consumables
All values given are valid only for the given tool and consumable.

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 applications 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 2	Concrete 40 N/mm²	Hole depth: 100 mm Hole diameter: 10 mm	2.0	20	40
TE 76-ATC	Concrete 40 N/mm²	Hole depth: 100 mm Hole diameter: 24 mm	2.7	10	27
DX 76	-	Cartridge: Red	0.1667	50	8.3
GX 120	-	-	0.0286	100	2.9
					78.2

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 screws that can be set for a particular tool and given work piece material and screw 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 ca be made for a particular tool given diameter, depth, work piece material and consumable in one 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.

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.

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.

Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

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.

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/mm2 (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.

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 legal 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 behaviour 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.

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

Contact with or inhalation of the dust may cause allergic reactions and/or respiratory diseases to the operator or bystanders.

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 work place must be well ventilated.
- The use of a dust mask of filter class P2 is recommended.

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