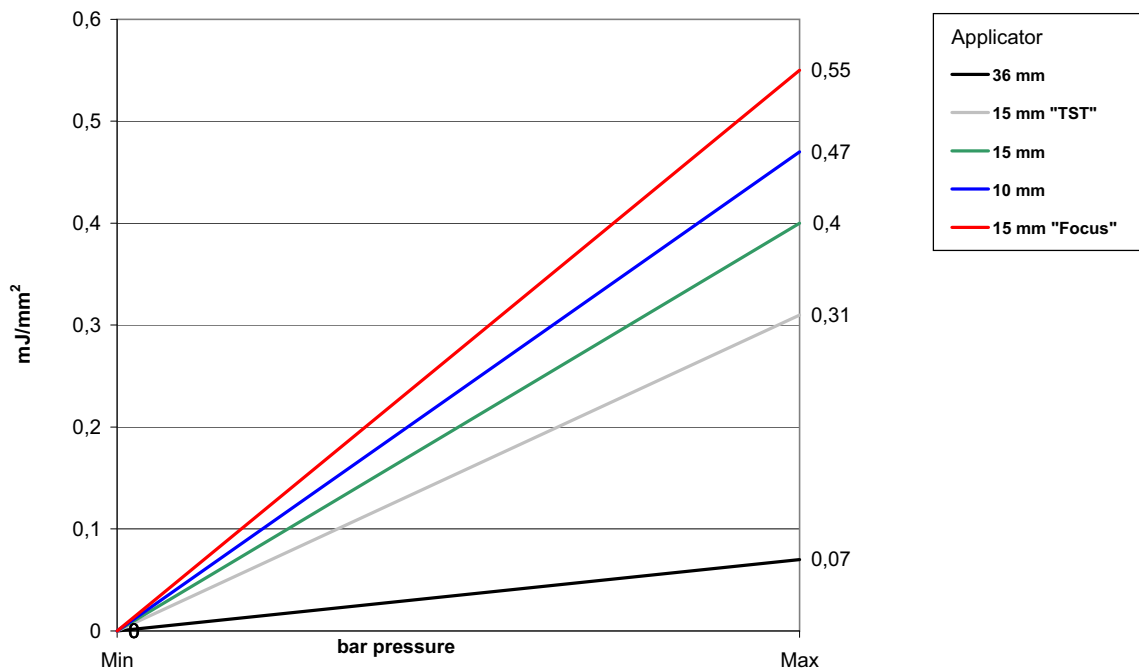
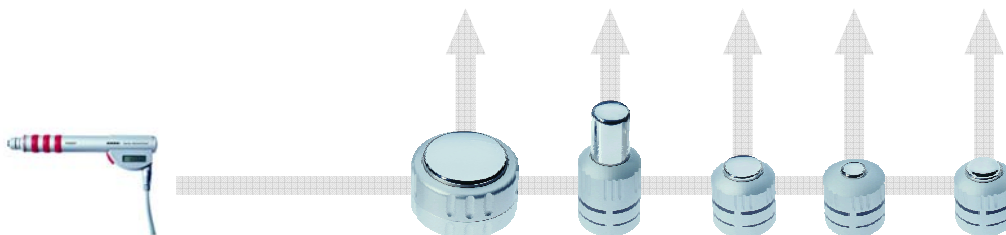


# Swiss DolorClast® - ESWT-POWER<sup>+</sup> - HANDPIECE



Physical means	Label	36 mm*	15 mm Trigger*	15 mm*	10 mm*	15 mm Focus*	Unit
Max positive pressure	$P_{+}^{max}$	7,6	12	16,1	19,9	19,2	MPa
Max negative pressure	$P_{-}^{max}$	-7,6	-9,2	-8,6	-8,2	-10,2	MPa
Max. positive energy flux density	$ED_{+}^{max}$	0,07	0,31	0,4	0,47	0,55	mJ/mm <sup>2</sup>
Rise time	$t_r$	2,97	3,4	2,6	2,5	2,4	µs
Half width positive peak	$\tau$	2,48	3,8	2,4	2,4	2,4	µs
-6dB focus x,y	$f_{x/y}^{-6dB}$	32,7	12,6	11,3	8,3	10,6	mm
-6dB focus z	$f_z^{-6dB}$	18,5	4,4	7,8	4,5	7,3	mm
-6dB focus volume	$V_{foc}$	1708	118	200	73	160	mm <sup>3</sup>
5 Mpa focus x,y	$f_{x/y}^{5MPa}$	10	7,4	8	4,9	8,3	mm
5 Mpa focus z	$f_z^{5MPa}$	10,3	10,1	19,5	12,8	20,9	mm
Positive pressure 5 mm x,y	$P_{+ x,y}^{5mm}$	5,3	7,2	8,2	-	7,5	Mpa
Positive pressure 5 mm z	$P_{+ z}^{5mm}$	6	6,9	10,3	8,6	11,7	Mpa
Positive total energy	$E$	34,2	18,2	23,7	10,2	26,8	mJ/pulse
Positive total energy in the -6dB focus	$E_{-6dB}$	32,0	13,5	15,9	10,2	19,1	mJ/pulse
Maximum penetration depth		25	35	40	43	45	mm



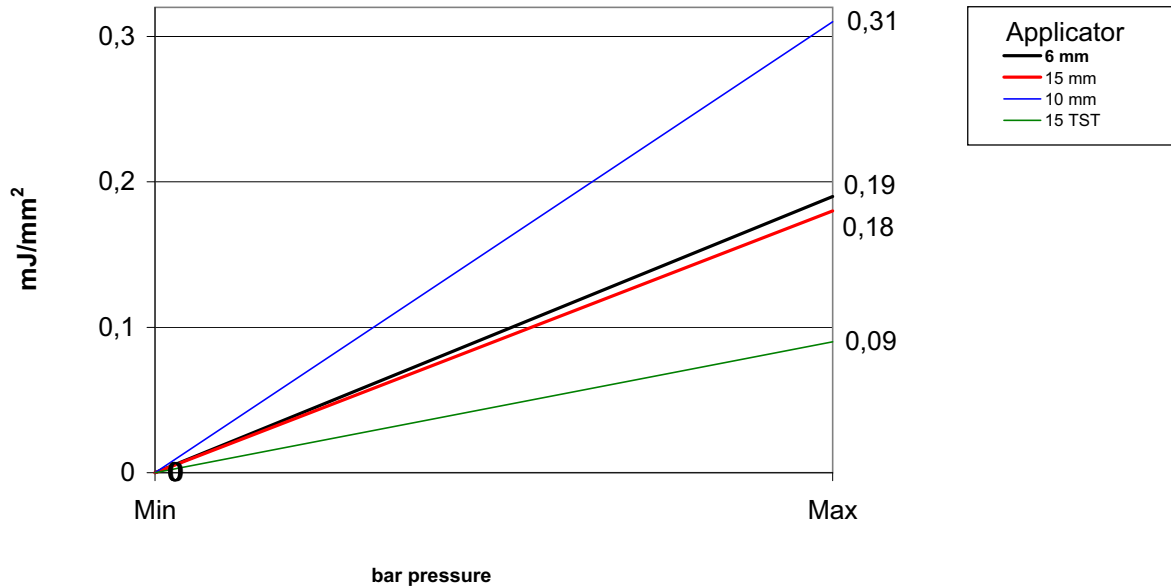
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\*Data origin: EMS Physical Laboratory

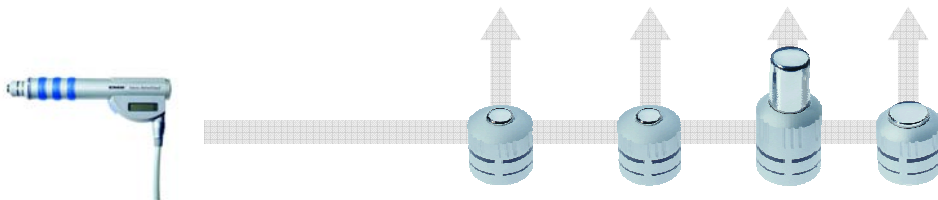
DATA SHEET - POWER<sup>+</sup>

**EMS**  
ELECTRO MEDICAL SYSTEMS

# Swiss DolorClast® - STANDARD - HANDPIECE



Physical means	Label	6 mm *	10 mm	15 mm TST	15 mm *	Unit
Max positive pressure	$P_{+max}$	12,3	17,1	7,6	11,9	Mpa
Max negative pressure	$P_{-max}$	-12	-4,4	-7,7	-5,9	Mpa
Max. positive energy flux density	$ED_{+max}$	0,19	0,31	0,09	0,18	mJ/mm <sup>2</sup>
Rise time	$t_r$	1,65	2,3	2,9	3	µs
Half width positive peak	$t_c$	2,1	2,2	2,3	2,5	µs
-6dB focus x,y	$f_{x/y -6dB}$	4,6	6,9	15	8	mm
-6dB focus z	$f_z -6dB$	3	3,9	5,8	8	mm
-6dB focus volume	$V_{foc}$	33	55	150	268	mm <sup>3</sup>
5 Mpa focus x,y	$f_{x/y 5MPa}$	6,2	5,1	7,8	9,2	mm
5 Mpa focus z	$f_z 5MPa$	4,2	9,4	3	10,7	mm
Positive pressure 5 mm x,y	$P_{+ x,y 5mm}$	-	5,0	4,8	4,14	MPa
Positive pressure 5 mm z	$P_{+ z 5mm}$	4,6	7,6	4,5	7,4	Mpa
Positive total energy	$E_{+}$	2,2	6,7	5,9	8,6	mJ/pulse
Positive total energy in the -6dB focus	$E_{-6dB}$	1,3	5,5	3,4	5,4	mJ/pulse
Maximum penetration depth		25	25	25	35	mm



\* Data origin: Universität Stuttgart, 1. Physikalisches Institut, Prof. Dr. W. Eisenmenger

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DATA SHEET - Standard

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