



WOMA® WATER TOOLS

Technical Data

TECHNICAL DATA

High-pressure guns

	Operating pressure (bar)	Flow rate (l/min)	Medium temperature (C°)	Size (mm) L × W × H	Weight (kg)
High-pressure guns					
HP-V	1,500	65	+95	395 × 48 × 200	2.9
HP-VE 24V / EX	1,500	65	+95	395 × 48 × 200	2.9
HP-VRC	1,500	65	+95	395 × 48 × 200	3.0
HP-E 24V / EX	3,000	65	+95	310 × 44 × 200	2.0
HP-RC	3,000	65	+95	310 × 44 × 200	2.0
HP-DG	3,000	45	+95	340 × 50 × 200	3.3
HP-750	750	65	+50	860 × 60 × 175	6.2
Rotable hose connectors					
DSA 1500	1,500	65	+95	116 × 39	0.6
DSA 3000	3,000	45	+95	157 × 39	0.7

Surface preparation

	Operating pressure (bar)	Flow rate (l/min)	Working width (mm)	Rotating speed (1/min)	Size (mm) L × W × H	Weight (kg)
Manipulators for surface preparation						
FloorMaster	1,000	25	300	1,500	800 × 300 × 1,100	23
VacuJet	2,500	20	225	2,500	750 × 440 × 1,100	36
ETRC	2,500	20	180	2,500	405 × 310 × 355	9
Magnet Lizard	3,000	45	370	2,500	650 × 1,000 × 415	56
Jetty	3,000	90	-	-	1,500 × 1,150 × 880	560
MCS Safety	3,000	65	-	-	-	-
VacuTec Master	-	45	-	-	2,500 × 980 × 980	165

Foot valves

	Operating pressure (bar)	Flow rate (l/min)	Medium temperature (C°)	Size (mm) L × W × H	Weight (kg)
Foot valves					
FV 1500 S-V	1,500	85	+95	500 × 185 × 200	10.5
FV 1500 S-V-E	1,500	85	+95	500 × 185 × 200	10.5
FV 1500 VDF	1,500	45	+95	500 × 185 × 200	11.0
FV 3000 VDF	3,000	45	+95	500 × 185 × 200	11.0

Hose systems

	Operating pressure (bar)	Flow rate (l/min)	Medium temperature (C°)	Feeding speed (m/min)	Size (mm) L × W × H	Weight (kg)
Hose feeding devices						
TLX	3,000	114	-	24 - 42	-	-
1-XS	3,000	38	-	9 - 42	-	7.5
FlexLanceMaster	3,000	38	-	8	350 × 150 × 200	12
TubeMaster	1,400	180	+60	24	2,500 × 1,400 × 470	100
Hose catching systems						
PreventMaster	-	-	-	-	1,200 × 410 × 1,500	38

Water tools

	Operating pressure (bar)	Flow rate (l/min)	Medium temperature (C°)	(Nozzle) diameter (mm)	Length (mm)	Weight (kg)
Orbimaster						
Orbimaster 500	500	61	+95	43	109	0.7
Orbimaster 800	800	43	+95	43	109	0.7
Orbimaster 1500	1,500	180	+95	49	135	1.2
Orbimaster 2500	2,500	24	+95	49	135	1.2
Turbo nozzle						
TD3000-SCS	3,000	45	+95	75	226	1.3
Whirl disc						
Whirl disc 400 bar	400	100	+95	100	88	0.8
Whirl disc 750 bar	750	70	+95	100	88	1.4
Speedy						
Speedy	3,000	25	+60	105	400	2.5
RotorLance						
RotorLance	1,500	25	+50	-	800	5.5
RotorLance	3,000	25	+50	-	800	5.5
Round jet nozzles						
Form 4	1,500	2.1 - 71.3	+95	0.5 - 5.0	10 - 25	< 0.1
Form 1	3,000	0.1 - 24.7	+95	0.4 - 3.9	10 - 20	< 0.1
Form 21LL, 21S	3,000	0.1 - 34.0	+95	0.1 - 1.4	20	< 0.1
Flat jet nozzles						
Form 19	1,500	2.3 - 56.8	+95	0.6 - 3.0	20	< 0.1
Form 8	3,000	9.0 - 23.6	+95	0.7 - 2.4	20	< 0.1

Pipe cleaning

	Operating pressure (bar)	Flow rate (l/min)	Pipe diameter (mm)	Size (mm) L × W × H	Weight (kg)
EcoTopDrill					
EcoTopDrill E-24V	3,000	45	> 10	770 × 80 × 210	7.0
EcoTopDrill E-EXI	3,000	45	> 10	770 × 80 × 210	7.0
Sewer cleaning					
SkipJack small	200	1,000	< 400	1,740 × 140	22.5
SkipJack big	200	1,000	> 400	1,845 × 155	34.5
Tube cleaning systems					
Turbo nozzle with tube cleaning head	3,000	45	100 - 350	350 × 350	2.3
Bulldog UHP	1,000	40	65 - 150	186 × 60	2.4
Tube cleaning carriage	-	-	100 - 350	350 × 350	1.0
Centering carriage	1,500/3,000	-	410 - 1,500	1,346	18
Pipe cleaning nozzles					
Form 31, 33, 34	750	28 - 315	> 13.5	25 - 42	< 0.2
Form 24, 25, 35, 36	1,000	30 - 122	> 13	40 - 60	< 0.1
Form 26, 27	1,400	19 - 142	> 17	60 - 67	< 0.2
Form 37, 38, 71	1,400	33 - 255	> 17	40 - 55	< 0.2
RRD 10, 14, 16	1,500	10 - 76	> 10.5	25 - 35	< 0.1
Form 101, 102	2,000/2,500	11 - 45	> 15	40 - 45	< 0.1
RRD	1,000/1,500	75-226	> 51	98 - 136	1.1 - 5.0
Whirl jet nozzles					
WSD-R	1,000/1,500/2,500	7 - 337	> 10	50 - 100	0.02 - 1.9
WSD-FR	1,000/1,500/2,500	8 - 182	> 12	50 - 164	0.03 - 1.9
UC-09	1,000/1,500	15-36	> 12	39	0.02

Tank cleaning						
	Operating pressure (bar)	Flow rate (l/min)	Medium temperature (°C)	Smallest required opening diameter (mm)	Height (mm)	Weight (kg)
TankMaster						
TM 500/200 EX	500	200	+70	125	337	13
TM S	1,500	200	+95	128	338	13
TM SL	1,500	200	+95	130	336	9
TM L	1,500	400	+95	185	413	25

Multiport Swivels						
	Operating pressure (bar)	Flow rate (l/min)	Medium temperature (°C)	Rotating speed (l/min)	Size (mm) L × W × H	Weight (kg)
DDF3000-25						
Pneumatic	3,000	25	+60	2,500	105 × 203	2.2
DDF3000-45						
Pneumatic	3,000	45	+60	2,500	200 × 97 × 268	9.5
Self-propelled	3,000	45	+60	2,500	97 × 97 × 268	6
DDF3000-65						
Hydraulic	3,000	65	+60	2,340	235 × 160 × 280	20
Electric	3,000	65	+60	2,850	286 × 160 × 445	28
Self-propelled	3,000	65	+60	2,500	158 × 160 × 319	11
TD1200-S						
Self-propelled	1,200	120	+95	1,500	271 × 120	15

Valve technology						
	Operating pressure (bar)	Flow rate (l/min)	Medium temperature (°C)	Length (mm)	Diameter (mm)	Weight (kg)
Check valves						
RV 400	400/450	400/600/900	+98	185/250	118/163	13 - 33
RV 3000	3,000	40/100	+98	124 - 220	36/55	1 - 3
Overflow valves						
Manual	400/750/1,500	130 - 720	+98	350 - 560	90 - 330	9 - 45
Pneumatic	400/750/1,500/3,000/4,000	45 - 650	+98	148 - 576	195 - 303	4 - 43
Bypass valve						
Bypass valve	3,000	45	+98	148	200	4.5
Safety equipment						
VSV	150 - 1,500	60 - 740	+60	270 - 340	62 - 140	2 - 8
Bursting disc	3,000	750	+60	90	40	0.5
Multi consumer valves						
MVV 1500S	1,500	120	+95	350	200	14
MVV-Station	1,500	120	+95	460	300 × 295	30
MVV 3000	3,000	30	+95	605	309 × 200	39
Ball valves						
DN 20 lockable	1,400	300	+60	350	180	12
DN 20	1,400	-	-	172	90	4.8
DN 12	1,500	-	-	150	70	3.4

Positioning devices					
	Operating pressure (bar)	Slewing range vertical / horizontal (°)	Length (mm)	Diameter (mm)	Weight (kg)
Positioning devices					
Divided flange	-	-	115	330	16.5
Ball joint	1,500	90/360	270	330	19
TV 5000	1,500	65/180	6,000	710	250

Abrasive- and cutting technology						
	Operating pressure (bar)	Flow rate (l/min)	Medium temperature (°C)	Air demand at full load (l/min at 6 bar)	Size (mm) L × W × H	Weight (kg)
Abrasive blasters						
Abrasive blaster 1000	1,000	35	+95	-	183 × 57 × 100	1.4
Abrasive blaster 3000	3,000	30	+95	-	155 × 67 × 41	1.2
Eco Top Cutter						
ETC 3000	3,000	23	+45	400	528 × 529 × 328	40

Hoses					
	Operating pressure (bar)	Size (DN)	Length (m)	Thread	
High-pressure hoses					
Standard hoses	420 - 4,000	4 - 32	1 - 40	9/16-18 UNF LH, 3/8-24 UNF LH, M24×1,5, M7, M22×1,5, M18×1,5 LH, M30×1,5, M36×2, M38×1,5, M42×2, M52×2	
Pipe cleaning hoses	900 - 3,010	3 - 8	6 - 20	M5, M7, G 1/8", G 1/4", 3/8-24 UNF LH, 9/16-18 UNF LH	
Hot water hoses	600/1,250	10	2 - 50	M22 × 1,5, M24 × 1,5	

Electric accessories				
	Description	Cable length (m)	Size (mm) L × W × H	Weight (kg)
Electric accessories				
Foot switch	24V / E-Exi	5	360 × 260 × 225	1.5
Cable drums	24V / E-Exi	30/50	365 × 315 × 225	5.8 - 9.5
Remote control box	24V / E-Exi	-	255 × 125 × 85	0.5
Emergency Stop	24V / E-Exi	-	180 × 85 × 115	0.5

Protective equipment			
	Operating pressure (bar)	Equipment	Size
Protective equipment			
Protective equipment	2,000/3,000	Trousers, Jacket, Waistcoat, Apron, Hand protection, Boots, Gaiters, Overalls, Complete kits, Helmet	S-3XL/42-48
Protective equipment	500	Trousers, Jacket, Hand protection	S-3XL

WHATEVER THE TASK – WE HAVE THE SOLUTION.

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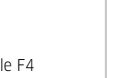
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WOMA WATER TOOLS



HP-GUN

SURFACE PREPARATION

ACCESSORIES		ACTUATORS		PRESSURE HOUSINGS		WATER TOOLS		NOZZLE CARRIER HEADS					JET NOZZLES			HAND-GUIDED MANIPULATORS		REMOTE CONTROLLED MANIPULATORS		VACUUM SYSTEM																			
	Body support		HP / HP-E / HP-RC		Dry Shut		Dump Gun		T-Valve		Speedy		TD3000-SCS		E02-3000		E03-3000		E05-3000		E09-3000		E24-3000		Round jet nozzle F1		Round jet nozzle F4		Flat jet nozzle F8		Flat jet nozzle F19		Round jet nozzle F21		ETRC		Magnet Lizard		VacuTec Master
	HP-750		up to 3,000 bar		DSA 1500		DSA 3000		Nipples		Whirl disc		RotorLance		Orbimaster		up to 3,000 bar		Two-hand control		Handle		Handle		F1 + F8		F4 + F19		F21		FloorMaster		VacuJet		Jetty		MCS Safety		

PIPE CLEANING

TUBE CLEANING

HOSE FEEDING DEVICES		HOSE CATCHING SYSTEMS		HP GUN		PIPE CLEANING HOSES		PIPE CLEANING ACCESSORIES		HOSE ROTATION SYSTEM		GUIDING SYSTEMS		ROTATING NOZZLES		NOZZLE CARRIER HEADS		CLEANING NOZZLES		SEWER CLEANING	
 FlexLanceMaster		 PreventMaster		 EcoTopDrill		 up to 3,000 bar		 up to 3,000 bar Connection adapter Nozzle adapter		 TubeMaster		 Centering carriage		 Bulldog UHP		 TD3000-SCS  TD1200-S		 Flat jet nozzle F19		 SkipJack	
 1-XS  TLX				 FV		 RRD 10  RRD 14  RRD 16  RRD		 UC-09  WSD-R  WSD-FR				 Tube cleaning carriage		 TD3000-SCS  TD1200-S		 TD3000-SCS  TD1200-S		 Round jet nozzle F4 + F21			

TANK CLEANING

MULTI-PORT SWIVELS

ABRASIVE- AND CUTTING TECHNOLOGY

POSITIONING DEVICES			TANK CLEANING HEADS TANKMASTER				ROTORS		ROTOR PROTECTIONS		ACCESSORIES		PNEUMATIC			HYDRAULIC		ELECTRIC		SELF-PROPELLED		ABRASIVE BLASTERS																					
																																											
Ball joint			TV 5000				Divided flange		TM 500/200 EX				TM S		TM SL		TM L		H15 - H150		H15 - H150		Impact protection		DDF3000-25			DDF3000-45 with flange		DDF3000-45 without flange		DDF3000-65		DDF3000-65		DDF3000-45		DDF3000-65 without splash guard		1,000 bar		3,000 bar	
CONNECTION SYSTEMS							EXTENSION ARMS				ACCESSORIES										ECO TOP CUTTER		ACCESSORIES																				
																																											
Stabilizing pipe			HP hose				Hose connection						H15 - H150		H15 - H150		Ratable suspension		Nozzle bar		Connection flange		Extension arms		Round jet nozzle F4		TD1200-S		DDF3000-65 with splash guard		ETC		Abrasive container										

VALVE TECHNOLOGY

ACCESSORIES

OVERFLOW VALVES MANUAL		OVERFLOW VALVES PNEUMATIC			BALL VALVE	MULTI CONSUMER VALVES		SAFETY EQUIPMENT		ELECTRIC ACCESSORIES		PROTECTIVE EQUIPMENT			
	400 bar														
	750 bar														
	1,500 bar				BYPASS VALVE			CHECK VALVES							