



WOMA[®] WATER TOOLS 2019

Technical Data

TECHNICAL DATA

1. High pressure guns

	Operating pressure (bar)	Flow rate (l/min)	Medium temperature (°C)	Size (mm) L x W x H	Weight (kg)
High pressure guns					
HP-V	1,500	65	+95	395 x 48 x 200	2.90
HP-VE 24V / EX	1,500	65	+95	395 x 48 x 200	2.95
HP-VRC	1,500	65	+95	395 x 48 x 200	3.0
HP-E 24V / EX	3,000	65	+95	310 x 44 x 200	2.0
HP-RC	3,000	65	+95	310 x 44 x 200	2.0
HP-DG	3,000	45	+95	340 x 50 x 200	3.3
Rotable hose connectors					
DSA 1500	1,500	65	+95	116 x 39	0.55
DSA 3000	3,000	45	+95	157 x 39	0.7

1.2 Surface preparation

	Operating pressure (bar)	Flow rate (l/min)	Working width (mm)	Speed (l/min)	Size (mm) L x W x H	Weight (kg)
Manipulators for surface preparation						
FloorMaster	1,000	25	300	1,500	800 x 300 x 1,100	23
VacuJet	2,500	20	225	2,500	750 x 440 x 1,100	36
ETRC	2,500	20	180	2,500	405 x 310 x 355	9.4
Magnet Lizard	3,000	45	370	2,500	650 x 1,000 x 415	56

2. Pipe cleaning

	Operating pressure (bar)	Flow rate (l/min)	Pipe diameter (mm)	Size (mm) L x W x H	Weight (kg)
EcoTopDrill					
EcoTopDrill E-24V	3,000	45	> 10	770 x 80 x 210	7.0
EcoTopDrill E-EXI	3,000	45	> 10	770 x 80 x 210	7.0
Sewer cleaning					
SkipJack small	200	1,000	< 400	1.740 x 140	22.5
SkipJack big	200	1,000	> 400	1.845 x 155	34.5
Tube cleaning systems					
Turbo nozzle with tube cleaning head	3,000	45	100 - 350	350 x 350	2.3
Tube cleaning carriage	-	-	100 - 350	350 x 350	1.0
Centering carriage	1,500/3,000	-	410 - 1,500	1346	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, 37, 38, 71	1,400	19 - 255	> 17	40 - 67	< 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
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

1.1 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	1.21
Orbimaster 2500	2,500	24	+95	49	135	1.21
Turbo nozzles						
TD3000-SCS	3,000	45	+95	75	226	1.3
Whirl disc						
Whirl disc 400 bar	400	100	+95	100	88	0.82
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 - 61.8	-	0.5 - 5.0	10 - 25	< 0.1
Form 1, 21	3,000	0.1 - 34.0	-	0.1 - 3.9	10 - 20	< 0.1
Flat jet nozzles						
Form 19	1,500	2.3 - 56.8	-	0.6 - 3.0	20	< 0.1
Form 8	3,000	9.0 - 23.6	-	0.7 - 2.4	20	< 0.1

2.1 Foot valves

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

2.2 Hose systems

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

3. 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

4. Multiport Swivels

	Operating pressure (bar)	Flow rate (l/min)	Medium temperature (°C)	Rotation speed (1/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

5. Valve technology

	Operating pressure (bar)	Flow rate (l/min)	Medium temperature (°C)	Length (mm)	Diameter (mm)	Height (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 bracket	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

3.1 Positioning devices

	Operating pressure (bar)	Slewing range vertical/horizontal (°)	Length (mm)	Diameter (mm)	Height (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

6. 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

7. Hoses

	Operating pressure (bar)	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

8. 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

9. Protective equipment

	Operating pressure (bar)	Equipment	Sizes
Protective equipment			
Protective equipment	2,000/3,000	Trousers, Jacket, Waistcoat, Apron, Hand protection, Boots, Gaiters, Overalls, Complete kits, Helmet	5-3XL/42-48



WHATEVER THE TASK - WE HAVE THE SOLUTION.

WOMA GmbH
Werthausen Straße 77-79
47226 Duisburg

P: +49 2065 304 0
F: +49 2065 304 200

info@woma.kaercher.com
www.woma-group.com

WOMA® WATER TOOLS 2019



HP-GUN

ACCESSORIES



Body support

ACTUATORS



HP / HP-E / HP-RC

PRESSURE HOUSINGS



Dry Shut Dump Gun TV

WATER TOOLS



Speedy TD3000-SCS

NOZZLE CARRIER HEADS



E02-3000 E03-3000 E05-3000 E09-3000 E24-3000

JET NOZZLES



Round jet nozzle F1 Round jet nozzle F4 Flat jet nozzle F8 Flat jet nozzle F19 Round jet nozzle F21

SURFACE PREPARATION

MANIPULATORS FOR SURFACE PREPARATION



Magnet Lizard ETRC

ACCESSORIES



Vacuum system

CLEANING MANIPULATOR



MCS Safety

TUBE CLEANING

HOSE FEEDING DEVICES



TubeMaster



TLX



FlexLanceMaster



1-XS

HOSE CATCHER SYSTEMS



PreventMaster

HP GUN



EcoTopDrill

PIPE CLEANING HOSES



Up to 3000 bar

PIPE CLEANING NOZZLE LANCES



Up to 3000 bar Connection adapter Nozzle adapter

TUBE CLEANING SYSTEMS



Tube cleaning carriage

TURBO NOZZLES



TD3000-SCS

NOZZLE CARRIER HEADS



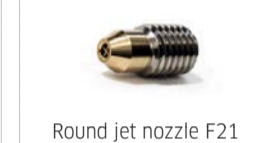
TD3000-SCS

EXTENSION ARMS



TD3000-SCS

CLEANING NOZZLES



Round jet nozzle F21

SEWER CLEANING



SkipJack nozzle

FOOT VALVES



FV

PIPE CLEANING NOZZLES



RRD 10 RRD 14 RRD 16

WHIRL JET NOZZLES



WSD-R WSD-FR

TURBO NOZZLES



TD1200-S

NOZZLE CARRIER HEADS



TD1200-S

EXTENSION ARMS



TD1200-S

CLEANING NOZZLES



Round jet nozzles F4 + F19

TANK CLEANING

POSITIONING DEVICES



Ball joint TV 5000 Divided flange

TANKMASTER



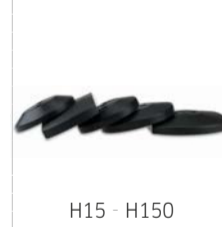
TM 500-200 EX TM S TM SL TM L

ROTORS



H15 - H150

ROTOR PROTECTIONS



H15 - H150

ACCESSORIES



Impact protection Rotable suspension

CONNECTION SYSTEMS



Stabilizing pipe HP hose Hose connection

MULTI-PORT SWIVELS

PNEUMATIC



DDF3000-45 with flange DDF3000-25 DDF3000-45 without flange

HYDRAULIC



DDF3000-65

ELECTRIC



DDF3000-65

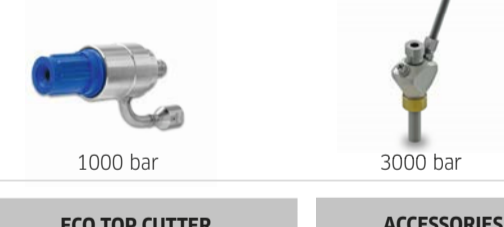
SELF-PROPELLED



DDF3000-45 DDF3000-65 without splash guard DDF3000-65 with splash guard

ABRASIVE- AND CUTTING TECHNOLOGY

ABRASIVE BLASTERS



1000 bar 3000 bar

ECO TOP CUTTER



ETC

ACCESSORIES



Abrasive container

VALVE TECHNOLOGY

OVERFLOW VALVES MANUAL



400 bar 750 bar 1500 bar

OVERFLOW VALVES PNEUMATIC



400 bar 750 bar 1500 bar 3000 bar 4000 bar

MULTI CONSUMER VALVES



MVV-Station 1500 bar 3000 bar

BYPASS VALVE



3000 bar

SAFETY EQUIPMENT



VSV Bursting disc bracket

CHECK VALVES



RV 400 RV 3000

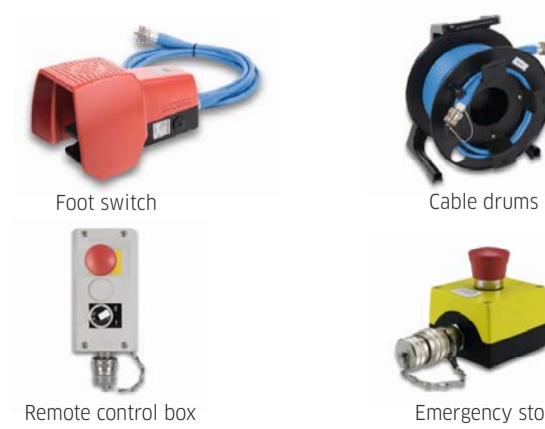
BALL VALVE



1500 bar

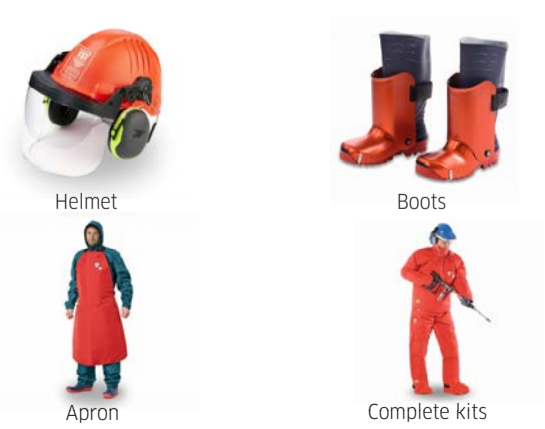
ACCESSORIES

ELECTRIC ACCESSORIES



Foot switch Remote control box Cable drums Emergency stop

PROTECTIVE EQUIPMENT



Helmet Apron Boots Complete kits