

2023 WATERBLAST

YOUR SUPPLIER OF HIGH PRESSURE WATER
JETTING TOOLS & ACCESSORIES

www.fluidjetting.com



WATERBLAST TOOLS

FOR INDUSTRIAL CLEANING

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FLUID WATER JETTING CO LTD IN THE UK

Company introduction

FLUID Water Jetting Co Ltd, a Cambridgeshire, UK based company, specialises in the Sales and R&D of high-pressure water jetting tools and accessories. FLUID Water Jetting Technology (Tianjin) Co Ltd is our subsidiary who are focusing on the production and testing of high-pressure water jetting tools and accessories.

Our mission is to continue developing and innovating new designs, incorporating advanced solutions to create simpler, more efficient, eco-friendly water jetting products for all our customers.

We pride ourselves on our existing range of quality waterblast tools, offering cleaning for tubes, pipes, sewage cleaning, road marking removal, airport runway cleaning, surface cleaning and surface preparation for paint and rust removal, catering to a variety of customer's needs within the cleaning industry.

FLUID WATER JETTING TECHNOLOGY (TIANJIN) CO LTD



Excellent equipment and advanced technology



FLUID WATER JETTING R & D CENTRE



HIGH PRECISION CNC MACHINES IN THE UK



ULTRA HIGH AND HIGH PRESSURE WATER JETTING TOOLS



FACTORY & 4500BAR TESTING CENTRE IN CHINA



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Tube Cleaning Tools



Surface Cleaning Tools



Cheetah Series



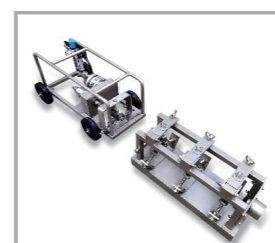
Surface/Floor Cleaner



Falcon Series



Dark Storm Series



Rotary Unit for HP Hose



Falcon Series



Hand-held Control Gun



Swiveling/Rotating Hose Reel



Wild Boar Series



Foot Valve



Custom-Made Products

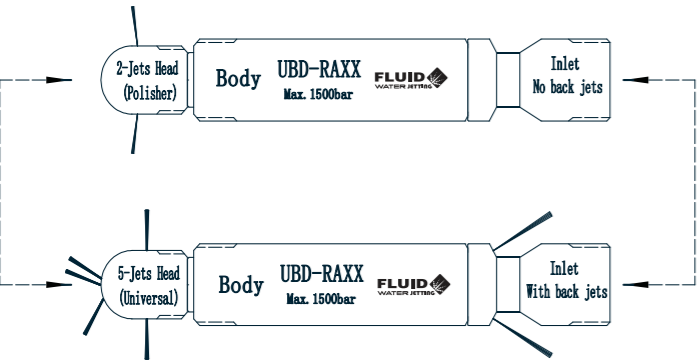
WATERBLAST TOOLS
FOR INDUSTRIAL CLEANING



TUBE CLEANING TOOLS

UBD-RAXX SERIES

▶ UBD-RA12 / RA14 / RA17 / RA20 / RA25 (Max. 1500 bar)



UBD Body Type (O/d)	Head Type		Inlet Type	Flow Rate L/min @500bar	Flow Rate L/min @1000bar	Flow Rate L/min @1500bar	Inlet Thread (FLUID Code)	Remark	
UBD-RA12 (ø12mm)	2-jets Polisher	H12-2A	T12 (No Back Jets)	6	9	12	M8*1 (3R) M8 (4R) M7 (2R) 1/4-28 LH (1L) 1/4-28 RH (1R)	Use with Rigid Lance ONLY	
		H12-2B		8	13	16			
		H12-2C		11	16	21			
		H12-2D		14	20	26			
		H12-2A	T12-65 (With Back Jets)	14	20	25		Use with Flexible & Rigid Lance	
		H12-2B		16	23	29			
		H12-2C		19	27	34			
		H12-2D		22	32	39			
	5-jets Universal	H12-5A	T12 (No Back Jets)	11	16	21			Use with Rigid Lance ONLY
		H12-5B		13	20	24			
		H12-5C		14	20	25			
		H12-5D		16	23	29			
		H12-5A	T12-65 (With Back Jets)	19	27	34		Use with Flexible & Rigid Lance	
		H12-5B		21	31	37			
		H12-5C	T12-75 (With Back Jets)	25	37	45			
		H12-5D		27	39	48			
UBD-RA14 (ø14mm)	2-jets Polisher	H14-2A	T14 (No Back Jets)	6	9	12	M8*1 (3R) M8 (4R) M10*1 (7R) 1/8 BSPP (6R) 1/4-28 LH (1L) 1/4-28 RH (1R) 3/8-24 LH (5L) 3/8-24 RH (5R)	Use with Rigid Lance ONLY	
		H14-2B		8	13	16			
		H14-2C		11	16	21			
		H14-2D		14	21	26			
		H14-2E	T14-65 (With Back Jets)	18	26	32		Use with Flexible & Rigid Lance	
		H14-2A		13	20	25			
		H14-2B		16	24	29			
		H14-2C		19	27	34			
		H14-2D		22	32	38			
		H14-2E		26	37	45			

UBD Body Type (O/d)	Head Type		Inlet Type	Flow Rate L/min @500bar	Flow Rate L/min @1000bar	Flow Rate L/min @1500bar	Inlet Thread (FLUID Code)	Remark		
UBD-RA14 (ø14mm)	5-jets Universal	H14-5A	T14 (No Back Jets)	11	16	21	M8*1 (3R) M8 (4R) M10*1 (7R) 1/8 BSPP (6R) 1/4-28 LH (1L) 1/4-28 RH (1R) 3/8-24 LH (5L) 3/8-24 RH (5R)	Use with Rigid Lance ONLY		
		H14-5B		13	20	24				
		H14-5C		14	20	25				
		H14-5D		16	23	29				
		H14-5E		19	27	34				
		H14-5A	T14-65 (With Back Jets)	19	27	34			Use with Flexible & Rigid Lance	
		H14-5B		21	31	37				
		H14-5C	T14-75 (With Back Jets)	25	36	44				
		H14-5D		27	39	48				
		H14-5E		30	43	53				
UBD-RA17 (ø17mm)	2-jets Polisher	H17-2A	T17 (No Back Jets)	7	10	13	1/8 BSPP (6R) 3/8-24 LH (5L) 3/8-24 RH (5R) M10*1 (7R) 1/4NPT (9R)			Use with Rigid Lance ONLY
		H17-2B		9	14	17				
		H17-2C		12	17	22				
		H17-2D		15	22	27				
		H17-2E		18	27	33				
		H17-2F	22	32	40					
		H17-2A	T17-65 (With Back Jets)	15	21	26		Use with Flexible & Rigid Lance		
		H17-2B		17	25	30				
		H17-2C		20	28	35				
		H17-2D		23	33	40				
	H17-2E	26		35	46					
	H17-2F	30	43	53						
	5-jets Universal	H17-5A	T17 (No Back Jets)	12	17	22			Use with Rigid Lance ONLY	
		H17-5B		14	21	26				
		H17-5C		17	24	30				
		H17-5D		19	28	35				
		H17-5E		22	33	40				
		H17-5F	26	37	46					
		H17-5A	T17-65 (With Back Jets)	20	28	35			Use with Flexible & Rigid Lance	
		H17-5B		25	37	45				
H17-5C		T17-75 (With Back Jets)	28	40	49					
H17-5D			30	44	54					
H17-5E	33		49	59						
H17-5F	37	53	64							
UBD-RA20 (ø20mm)	2-jets Polisher	H20-2A	T20 (No Back Jets)	7	11	13	M10*1 (7R) 1/4 BSPP (8R) 1/4NPT (9R) 9/16-18 LH (10L) 9/16-18 RH (10R)	Use with Rigid Lance ONLY		
		H20-2B		9	14	17				
		H20-2C		12	18	22				
		H20-2D		15	22	27				
		H20-2E		19	27	33				
		H20-2F		23	33	40				
		H20-2A	T20-65 (With Back Jets)	15	22	26		Use with Flexible & Rigid Lance		
		H20-2B		17	25	30				
		H20-2C		20	29	35				
		H20-2D		23	33	40				
		H20-2E		27	38	46				
		H20-2F		31	44	53				

UBD Body Type (O/d)	Head Type		Inlet Type	Flow Rate L/min @500bar	Flow Rate L/min @1000bar	Flow Rate L/min @1500bar	Inlet Thread (FLUID Code)	Remark
UBD-RA20 (ø20mm)	5-jets Universal	H20-5A	T20 (No Back Jets)	12	18	22	M10*1 (7R) 1/4 BSPP (8R) 1/4NPT (9R) 9/16-18 LH (10L) 9/16-18 RH (10R)	Use with Rigid Lance ONLY
		H20-5B		15	22	27		
		H20-5C		17	25	31		
		H20-5D		20	29	35		
		H20-5E		23	33	41		
		H20-5F		26	38	47		
		H20-5G	T20-65 (With Back Jets)	30	43	53		Use with Flexible & Rigid Lance
		H20-5A		20	29	35		
		H20-5B	T20-75 (With Back Jets)	26	38	46		
		H20-5C		28	41	50		
		H20-5D	T20-85 (With Back Jets)	31	45	54		
		H20-5E		38	54	67		
		H20-5F		41	59	73		
		H20-5G		45	64	79		
UBD-RA25 (ø25mm)	2-jets Polisher	H25-2A	T25 (No Back Jets)	8	12	16	M10*1 (7R) 1/4 BSPP (8R) 3/8 BSPP (11R) 1/4NPT (9R) 9/16-18 LH (10L) 9/16-18 RH (10R) M20*1.5 (12R)	Use with Rigid Lance ONLY
		H25-2B		10	16	20		
		H25-2C		13	19	25		
		H25-2D		16	23	30		
		H25-2E		19	29	36		
		H25-2F		23	34	43		
		H25-2G	T25-65 (With Back Jets)	28	40	50		Use with Flexible & Rigid Lance
		H25-2A		16	23	30		
		H25-2B		18	27	33		
		H25-2C		21	30	38		
		H25-2D		24	34	43		
		H25-2E		27	40	49		
	5-jets Universal	H25-2F	T25 (No Back Jets)	31	45	56		Use with Rigid Lance ONLY
		H25-2G		36	51	63		
		H25-5A		13	19	25		
		H25-5B		15	23	29		
		H25-5C		18	26	33		
		H25-5D		20	30	38		
		H25-5E	T25-65 (With Back Jets)	24	35	44		Use with Flexible & Rigid Lance
		H25-5F		27	39	49		
		H25-5G	T25-75 (With Back Jets)	30	44	55		
		H25-5H		34	50	62		
		H25-5A		21	30	38		
		H25-5B		26	39	48		
		H25-5C	T25-85 (With Back Jets)	29	42	52		
		H25-5D		31	46	57		
		H25-5E	T25-85 (With Back Jets)	39	56	70		
		H25-5F		42	60	75		
		H25-5G		45	65	81		
		H25-5H		49	71	88		

SURFACE CLEANING & SURFACE PREPARATION TOOLS

Self-rotating tools designed for handheld shotgun waterblast cleaning.

► RWT-OS16



■ FEATURES:

- Magnetic speed control, no need of regular maintenance.
- Easy to change seal parts.
- Light weight, easy to operate.

Technical Specification:

Max. operating pressure : 1600bar	Flow range : 10~30 l/min
Rotation Speed : 500~2500 rpm	Diameter : ø37 mm
Total length: 168mm	Approx. weight: 0.78 kg
Connection Thread: M20*1.5 female or custom-made adapter provided	
Sapphire nozzle : 2xM10*1.5	

Nozzle size (mm)	Min.pressure (bar)	Max.pressure (bar)	Flow range (l/min)
ø0.6*2	800	1600	10~14
ø0.7*2	600	1500	11~18
ø0.8*2	500	1400	13~22
ø0.9*2	400	1000	15~24
ø1.0*2	300	800	16~27
ø1.1*2	250	600	18~28
ø1.2*2	200	500	19~30

► RWT-OF18



■ FEATURES:

- Magnetic speed control, no need of regular maintenance.
- Easy to change seal parts.
- Two jets ideal for removing thick deposits, four jets ideal for faster removal of thin coatings/scales.

Technical Specification:

Max. Operating pressure : 1800bar	Flow range : 15~38 l/min
Rotation speed : 500~2500 rpm	Diameter : ø49 mm
Total length: 200 mm	Approx. weight: 1.52 kg
Connection thread : 1-1/8-12 UNF Female seal with 60-degree cone or custom-made adapter provided	
Sapphire nozzle : 4xM10*1.5(Or 2 sapphire nozzles + 2 plugs)	

Nozzle size (mm)	Min.pressure (bar)	Max.pressure (bar)	Flow range (l/min)
ø0.6*2(A)+ ø 0.6*2(B)	800	1600	19~27
ø0.7*2(A)+ ø 0.7*2(B)	600	1400	26~34
ø0.8*2(A)+ ø 0.8*2(B)	500	1000	27~38
ø0.8*2(A)+2 plugs(B)	800	1800	17~25
ø0.9*2(A)+2 plugs(B)	650	1500	19~29
ø1.0*2(A)+2 plugs(B)	600	1200	23~32
ø1.1*2(A)+2 plugs(B)	500	1000	25~36
ø1.2*2(A)+2 plugs(B)	400	800	27~38

Note: (A) means at 20° jet angle; (B) means at 15° jet angle.

► RWT-OF28S



■ FEATURES:

- Magnetic speed control, no need of regular maintenance.
- Easy to change seal parts.
- Adjustable (internal) 3-speed settings

Technical Specification:

Max. Operating pressure : 2800 bar	Flow range : 10~18 l/min
Rotation speed : 800~2500 rpm	Diameter : ø49mm
Total length: 189 mm	Approx. weight: 1.30 kg
Connection thread : 1-1/8-12 UNF Female seal with 60-degree cone or custom-made adapter provided	
Sapphire nozzle : 4xM10*1.5	

Nozzle size (mm)	Pressure Range(bar)			Flow range (l/min)
	High speed	Mid-speed	Low speed	
4 x ø0.38	1500~2800	×	×	11~14
4 x ø0.40	1400~2000	1600~2500	1700~2800	12~16
4 x ø0.45	1200~1500	1500~2000	1600~2200	13~18

X- Not recommended to operate in this speed setting.

► RWT-F30



■ FEATURES:

- Magnetic speed control, no need of regular maintenance.
- Externally adjustable rotation speed.
- Dynamic seal assembly provides longer lifetime.

Technical Specification:

Max. Operating pressure : 3000 bar	Max. flow rate: 42 l/min
Rotation speed : 1000~3000 rpm	Diameter : ø56mm
Total length: 172 mm	Approx. weight: 1.35 kg
Connection thread : 1-1/8-12 UNF Female seal with 60-degree cone or custom-made adapter provided	
Sapphire nozzles: 4xM10*1.5	

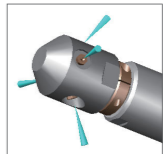
Nozzle size (mm)		High speed		Mid speed		Low speed		Reaction Force Reference (approx.)
		Pressure (bar)	Flow rate (l/min)	Pressure (bar)	Flow rate (l/min)	Pressure (bar)	Flow rate (l/min)	
ø0.40 x 4	Min	2000	14	Not recommended		Not recommended		At 2300bar-150 N At 3000bar-200 N
	Max	3000	17					
ø0.45 x 4	Min	1000	12	1500	15	2000	17	At 1800bar-150 N At 3000bar-250 N
	Max	2000	17	3000	21	3000	21	
ø0.50 x 4	Min	800	13	1500	18	2000	21	At 1500bar-150 N At 2500bar-250 N At 3000bar-310 N
	Max	2000	17	2000	24	3000	26	

PIPE CLEANING TOOLS

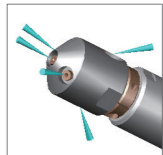
Self-rotating tools designed for internal pipe cleaning.

FALCON SERIES (STRAIGHT PIPE CLEANING)

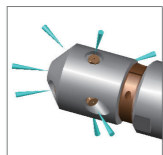
► RWT-FC55 SERIES



4 jet (Polisher)



5 jet (Unplugging)



7 jet (Universal)

■ FEATURES:

- Magnetic rotation speed control will reduce wear and gives better jetting impact.
- Three head configurations available for different applications.
- Easy to change seal parts.

RWT-FC55-16M*

Technical Specification:

Max. Operating pressure : 1600 bar	Max. Flow rate : 75 l/min
Rotation speed : approx. 200~1500rpm	Body diameter: ø55 mm
Connection thread : 1-1/8-12 UNF Female or custom-made adapter provided	

RWT-FC55-16M4 (Polisher)

With four 1/4-28 sapphire nozzles screwed in nozzle head. Two at 90 degrees, two back jets.

RWT-FC55-16M5 (Unplugging)

With five 1/4-28 sapphire nozzles screwed in nozzle head. Three forward jets, two back jets.

RWT-FC55-16M7 (Universal)

With seven 1/4-28 sapphire nozzles screwed in nozzle head. Three forward jets, two at 90 degrees, two back jets.

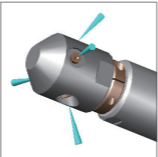
RWT-FC55-30M*

Technical specifications:

Max. Operating pressure : 3000 bar	Max. Flow rate : 42 l/min
Rotation speed : approx. 200~1500rpm	Body diameter: ø55 mm
Connection thread : 1-1/8-12 UNF Female seal with 60-degree cone or custom-made adapter provided	

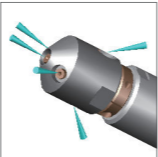
RWT-FC55-30M4 (Polisher)

With four 1/4-28 sapphire nozzles screwed in nozzle head Two at 90 degrees, two back jets.



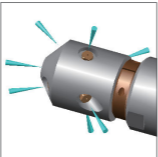
RWT-FC55-30M5 (Unplugging)

With five 1/4-28 sapphire nozzles screwed in nozzle head Three forward jets, two back jets.

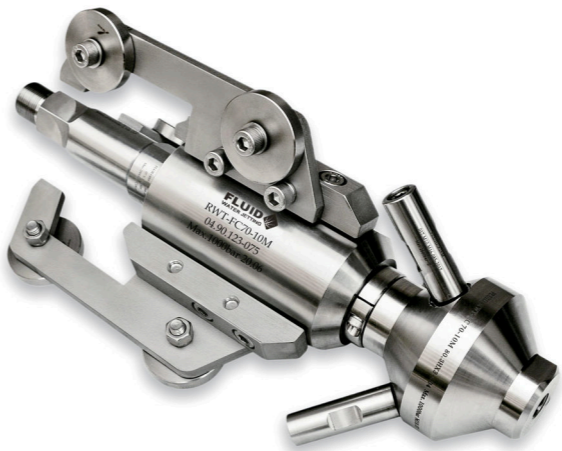


RWT-FC55-30M7 (Universal)

With seven 1/4-28 sapphire nozzles screwed in nozzle head Three forward jets, two at 90 degrees ,two back jets.



RWT-FC70 SERIES



RWT-FC70-10M*

Technical specifications:

Max. Operating pressure : 1000 bar	Max. Flow rate : 168 l/min
Rotation speed : approx. 200~1500rpm	Body diameter: ø70 mm
Connection thread: 1-1/8-12 UNF Female or custom-made adapter provided	

RWT-FC70-10M3

With three M10*1.5 sapphire nozzles screwed in nozzle extensions" T" and back jets.

RWT-FC70-10M4

With four M10*1.5 sapphire nozzles screwed in nozzle extensions" T" Two at 90 degrees, two back jets.

RWT-FC70-10M6

With total six M10*1.5 sapphire nozzles screwed in nozzle head or nozzles extensions" S". Two forward jets, two at 90 degrees ,two back jets.

RWT-FC70-10M7

With total seven sapphire nozzles screwed in nozzle head
Three 1/4-28 nozzles forward jets, two M10*1.5 nozzles at 90 degrees, two M10*1.5 nozzles back jets.

RWT-FC70-20M*

Technical specifications:

Max. Operating pressure : 2000 bar	Max. Flow rate : 117 l/min
Rotation speed : approx. 200~1500rpm	Body diameter: ø70 mm
Connection thread : 1-1/8-12 UNF Female or custom-made adapter provided	

RWT-FC70-20M3

With three M10*1.5 sapphire nozzles screwed in nozzle extensions "T" and back jets.



RWT-FC70-20M4

With four M10*1.5 sapphire nozzles screwed in nozzle extensions "T" Two at 90 degrees ,two back jets.



RWT-FC70-20M6

With total six M10*1.5 sapphire nozzles screwed in nozzle head or nozzles extensions "S". Two forward jets, two at 90 degrees ,two back jets.



RWT-FC70-20M7

With total seven sapphire nozzles screwed in nozzle head
Three 1/4-28 nozzles forward jets, two M10*1.5 nozzles at 90 degrees, two M10*1.5 nozzles back jets.



RWT-FC70-30M*

Technical Specifications:

Max. Operating pressure : 3000 bar	Max. Flow rate : 75 l/min
Rotation speed : approx. 200~1500rpm	Body diameter: ø70 mm
Connection thread : 1-1/8-12 UNF Female seal with 60-degree cone or custom-made adapter provided	

RWT-FC70-30M3

With three M10*1.5 sapphire nozzles screwed in nozzle extensions "T" and back jets.



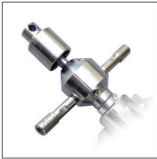
RWT-FC70-30M4

With four M10*1.5 sapphire nozzles screwed in nozzle extensions "T" Two at 90 degrees,two back jets.



RWT-FC70-30M6

With total six M10*1.5 sapphire nozzles screwed in nozzle head or nozzles extensions "S". Two forward jets, two at 90 degrees ,two back jets.



RWT-FC70-30M7

With total seven sapphire nozzles screwed in nozzle head
Three 1/4-28 nozzles forward jets, two M10*1.5 nozzles at 90 degrees, two M10*1.5 nozzles back jets.



► RWT-FC90 SERIES



RWT-FC90-12M*

Technical Specifications:

Max. Operating pressure : 1200 bar	Max. Flow rate : 230 l/min
Rotation speed : approx. 200~1500rpm	Body diameter: ø90 mm
Connection thread : 1-1/8-12 UNF Female or custom-made adapter provided	

RWT-FC90-12M3

With three M10*1.5 sapphire nozzles screwed in nozzle extensions "T" and back jets.

RWT-FC90-12M4

With four M10*1.5 sapphire nozzles screwed in nozzle extensions" T" Two at 90 degrees ,two back jets.

RWT-FC90-12M6

With total six M10*1.5 sapphire nozzles screwed in nozzle head or nozzles extensions" S". Two forward jets, two at 90 degrees ,two back jets.

RWT-FC90-12M7

With total seven sapphire nozzles screwed in nozzle head
Three 1/4-28 nozzles forward jets, two M10*1.5 nozzles at 90 degrees, two M10*1.5 nozzles back jets.

RWT-FC90-20M*

Technical Specifications:

Max. Operating pressure : 2000 bar	Max. Flow rate : 168 l/min
Rotation speed : approx. 200~1500rpm	Body diameter: ø90 mm
Connection thread : 1-1/8-12 UNF Female or custom-made adapter provided	

RWT-FC90-20M3

With three M10*1.5 sapphire nozzles screwed in nozzle extensions "T" and back jets.



RWT-FC90-20M4

With four M10*1.5 sapphire nozzles screwed in nozzle extensions" T" Two at 90 degrees, two back jets.



RWT-FC90-20M6

With total six M10*1.5 sapphire nozzles screwed in nozzle head or nozzles extensions" S". Two forward jets, two at 90 degrees ,two back jets.



RWT-FC90-20M7

With total seven sapphire nozzles screwed in nozzle head
Three 1/4-28 nozzles forward jets, two M10*1.5 nozzles at 90 degrees, two M10*1.5 nozzles back jets.



RWT-FC90-30M*

Technical Specifications:

Max. Operating pressure : 3000 bar	Max. Flow rate : 117 l/min
Rotation speed : approx. 200~1500rpm	Body diameter: ø90 mm
Connection thread : 1-1/8-12 UNF Female seal with 60-degree cone or custom-made adapter provided	

RWT-FC90-30M3

With three M10*1.5 sapphire nozzles screwed in nozzle extensions "T" and back jets.



RWT-FC90-30M4

With four M10*1.5 sapphire nozzles screwed in nozzle extensions "T" Two at 90 degrees, two back jets.



RWT-FC90-30M6

With total six M10*1.5 sapphire nozzles screwed in nozzle head or nozzles extensions "S". Two forward jets, two at 90 degrees, two back jets.



RWT-FC90-30M7

With total seven sapphire nozzles screwed in nozzle head
Three 1/4-28 nozzles forward jets, two M10*1.5 nozzles at 90 degrees, two M10*1.5 nozzles back jets.



▶ RWT-FC/SR88 SERIES (ADJUSTABLE ROTATION SPEED)



3 jet-T type



4 jet-T type



6 jet-S type



7 jet-U type

RWT-FC/SR88-10M*

Technical Specifications:

Max. Operating pressure : 1000 bar	Max. Flow rate : 168 l/min
Rotation speed : approx. 200~1500rpm	Body diameter: ø88 mm
Connection thread : 1-1/8-12 UNF Female or custom-made adapter provided	

RWT-FC/SR88-10M3

With three M10*1.5 sapphire nozzles screwed in nozzle extensions "T" and back jets.

RWT-FC/SR88-10M4

With four M10*1.5 sapphire nozzles screwed in nozzle extensions "T" Two at 90 degrees, two back jets.

RWT-FC/SR88-10M6

With total six M10*1.5 sapphire nozzles screwed in nozzle head or nozzles extensions "S".
Two forward jets, two at 90 degrees, two back jets.

RWT-FC/SR88-10M7

With total seven sapphire nozzles screwed in nozzle head
Three 1/4-28 nozzles forward jets, two M10*1.5 nozzles at 90 degrees, two M10*1.5 nozzles back jets.

RWT-FC/SR88-20M*

Technical Specifications:

Max. Operating pressure : 2000 bar	Max. Flow rate : 117 l/min
Rotation speed : approx. 200~1500rpm	Body diameter: ø88 mm
Connection thread : 1-1/8-12 UNF Female or custom-made adapter provided	

RWT-FC/SR88-20M3

With three M10*1.5 sapphire nozzles screwed in nozzle extensions "T" and back jets.

RWT-FC/SR88-20M6

With total six M10*1.5 sapphire nozzles screwed in nozzle head or nozzles extensions "S".
Two forward jets, two at 90 degrees, two back jets.

RWT-FC/SR88-20M4

With four M10*1.5 sapphire nozzles screwed in nozzle extensions "T" Two at 90 degrees, two back jets.

RWT-FC/SR88-20M7

With total seven sapphire nozzles screwed in nozzle head
Three 1/4-28 nozzles forward jets, two M10*1.5 nozzles at 90 degrees, two M10*1.5 nozzles back jets.

RWT-FC/SR88-30M*

Technical Specifications:

Max. Operating pressure : 3000 bar	Max. Flow rate : 75 l/min
Rotation speed : approx. 200~1500rpm	Body diameter: ø88 mm
Connection thread : 1-1/8-12 UNF Female seal with 60-degree cone or custom-made adapter provided	

RWT-FC/SR88-30M3

With three M10*1.5 sapphire nozzles screwed in nozzle extensions "T" and back jets.

RWT-FC/SR88-30M6

With total six M10*1.5 sapphire nozzles screwed in nozzle head or nozzles extensions "S".
Two forward jets, two at 90 degrees, two back jets.

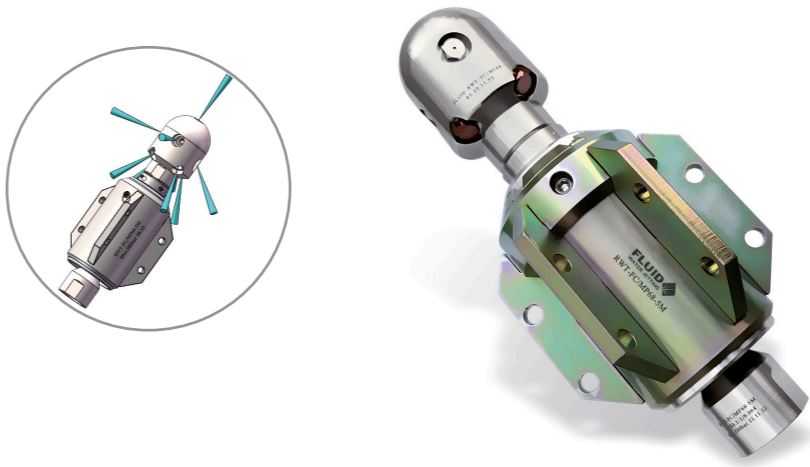
RWT-FC/SR88-30M4

With four M10*1.5 sapphire nozzles screwed in nozzle extensions "T" Two at 90 degrees, two back jets.

RWT-FC/SR88-30M7

With total seven sapphire nozzles screwed in nozzle head
Three 1/4-28 nozzles forward jets, two M10*1.5 nozzles at 90 degrees, two M10*1.5 nozzles back jets.

► RWT- FC/MP68 SERIES (SEWERAGE/DRAINAGE CLEANING)



Technical Specifications:

Max. Operating pressure and Max.flow rate : A: 500 bar/230 l/min ; B: 1500bar/117 lmin	
Rotation speed : approx. 200~1000rpm	Body diameter: ø68 mm
Total Length : Approx.240mm	
Connection thread: M36*2 female; or custom-made (One adapter will be supplied)	

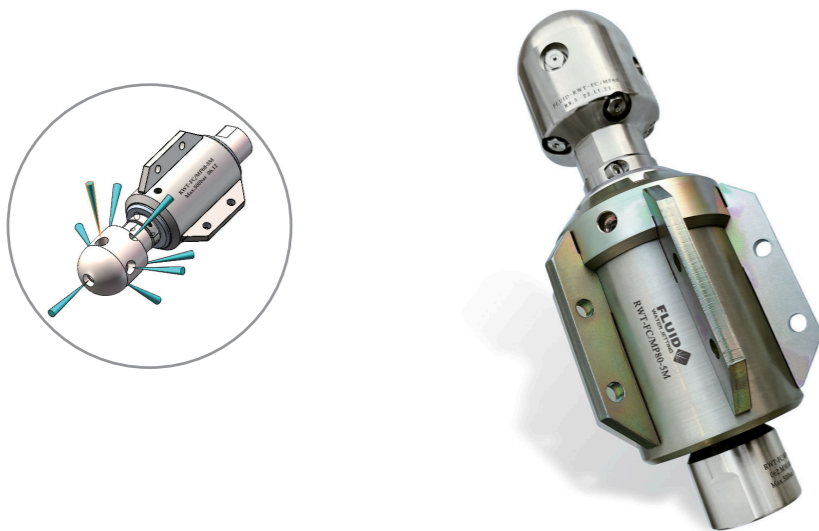
RWT-FC/MP68-5M9* (Max.500bar/230 l/min)

With nine M10*1 nozzles screwed in nozzle head. One front jet at 15 degree, and two back jets at 80 degree, two back jets at 60 degree, and four back jets at 30 degree.

RWT-FC/MP68-15M9* (Max.1500bar/117 l/min)

With nine M10*1 nozzles screwed in nozzle head. One front jet at 15 degree, and two back jets at 80 degree, two back jets at 60 degree, and four back jets at 30 degree.

▶ RWT-FC/MP80 SERIES (SEWERAGE/DRAINAGE CLEANING)



Technical Specifications:

Max. Operating pressure and Max.flow rate : A: 500 bar/468 l/min ; B: 1500bar/168 lmin	
Rotation speed : approx. 200~1000rpm	Max. Outer diameter : ø80mm
Total Length : Approx.270mm	
Connection thread: M36*2 female; or custom-made (One adapter will be supplied)	

RWT-FC/MP80-5M9* (Max.500bar/468 l/min)

With nine M14*1.5 nozzles screwed in nozzle head. One front jet at 15 degree, and two back jets at 80 degree, two back jets at 60 degree, and four back jets at 30 degree.

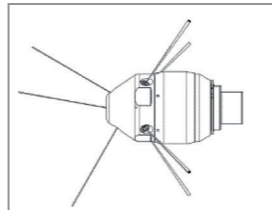
RWT-FC/MP80-15M9* (Max.1500bar/168 l/min)

With nine M14*1.5 nozzles screwed in nozzle head. One front jet at 15 degree, and two back jets at 80 degree, two back jets at 60 degree, and four back jets at 30 degree.

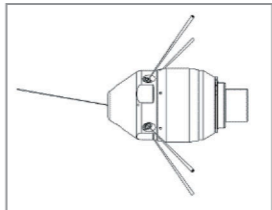
WILD BOAR SERIES STRAIGHT AND CURVED PIPE CLEANING TOOLS

■ FEATURES:

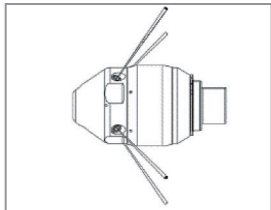
- Magnetic rotation speed control will reduce wear and gives better jetting impact.
- Three jets forward provide more flexible options for pipe cleaning.



3 forward jets
ideal for fully blocked pipes



1 forward jet+ 2 plugs
ideal for non-fully blocked pipes



0 forward jet (3 plugs)
ideal for pipe wall cleaning



RWT-WE16 SERIES

▶ RWT-WE16M3

Technical Specifications:

Max. Operating pressure : 1600bar	Max. Flow rate : 58 l/min
Rotation speed : 200~1500rpm	Max. Outer diameter : 68 mm
Length : 152 mm	
Connection thread : M24*1.5 male with 24-degree cone angle or custom-made	
Number of nozzles : 7 ;three (1/4-28) forward jets, four (M10*1.5) back jets	

▶ RWT-WE16L3

Technical specifications:

Max. Operating pressure : 1600bar	Max. Flow rate : 117 l/min
Rotation speed : 200~1500rpm	Max. Outer diameter : 78 mm
Length : 158 mm	
Connection thread : M24*1.5 male with 24-degree cone angle or custom-made	
Number of nozzles : 7; three (1/4-28) forward jets, four (M10*1.5) back jets	

► RWT-WE16XL3

Technical specifications:

Max. Operating pressure : 1600bar	Max. Flow rate : 168 l/min
Rotation speed : 200~1500rpm	Max. Outer diameter : 100mm
Length : approx.168 mm	
Connection thread : M36*2 male with 24-degree cone angle or custom-made	
Number of nozzles : 7; three (1/4-28) forward jets, four (M10*1.5) back jets	



RWT-WE28 SERIES

► RWT-WE28M3

Technical specifications:

Max. Operating pressure : 2800bar	Max. Flow rate : 42 l/min
Rotation speed : 200~1500rpm	Max. Outer diameter : 68 mm
Length : 145 mm	
Connection thread : 1-1/8-12 UNF Female or custom-made	
Number of nozzles : 7; three (1/4-28) forward jets, four (M10*1.5) back jets	

► RWT-WE28L3

Technical Specifications:

Max. Operating pressure : 2800bar	Max. Flow rate : 75 l/min
Rotation speed : 200~1500rpm	Max. Outer diameter : 78 mm
Length : 148 mm	
Connection thread: 1-1/8-12 UNF Female or custom-made	
Number of nozzles : 7; three (1/4-28) forward jets, four (M10*1.5) back jets	

CHEETAH SERIES

► RWT-S35



Technical Specifications:

Body Max. Operating pressure :2800bar	Max. Flow rate : 42 l/min
Rotation speed : 500~1500rpm	Body diameter: ø35 mm
Length : 156mm	
Connection thread : M24*1.5 male with 24-degree cone angle or M20*1.5 female or custom-made	

Magnetic rotation speed control will reduce wear and gives better jetting impact.

Nozzle Heads:

Three standard head designs are available with drilled orifices (Max1600bar) or M4 hardened steel nozzles (Max.2000bar) or M4 sapphire nozzles (Max.2800bar). The universal head has total seven orifices or nozzles, three forward jet, two jets at 90 degrees and another two back jets. The polisher head has four orifices or nozzles, two at 90 degrees and another two back jets. The unplugging head has five orifices or nozzles, three forward jet and two back jet.

RWT-S35-16M4 (Pulisher)
RWT-S35-16M5 (Unplugging)
RWT-S35-16M7 (Universal)



Max.1600bar

RWT-S35-20MN4 (Pulisher)
RWT-S35-20MN5 (Unplugging)
RWT-S35-20MN7 (Universal)



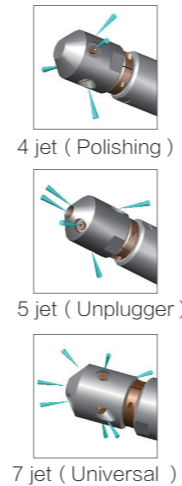
Max.2000bar

RWT-S35-28MS4 (Pulisher)
RWT-S35-28MS5 (Unplugging)
RWT-S35-28MS7 (Universal)



Max.2800bar

► RWT-S40-28MS*



Technical Specifications:

Max. Operating pressure : 2800bar	Max. Flow rate : 42 l/min
Rotation speed : 500~1500rpm	Max. Outer diameter : 40 mm
Length : 165mm	
Connection thread : 1-1/8-12 UNF Female or custom-made adapter provided	

Magnetic rotation speed control will reduce wear and gives better jetting impact.

Nozzle Heads:

Three standard head designs are available with 1/4-28 sapphire nozzles. The universal head has total seven sapphire nozzles, three forward jet, two jets at 90 degrees and another two back jets; the polisher head has four sapphire nozzles, two at 90 degrees and another two back jet; the unplugging head has five sapphire nozzles, three forward jets and two back jets.

RWT-S40-28MS4

With four 1/4-28 sapphire nozzles screwed in nozzle head, two at 90 degree, two back jets.

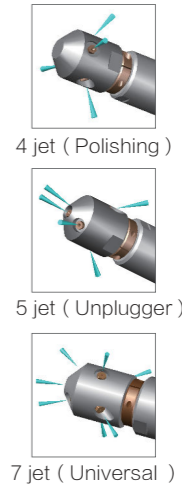
RWT-S40-28MS5

With five 1/4-28 sapphire nozzles screwed in nozzle head, three forward jet, two back jet.

RWT-S40-28MS7

With seven 1/4-28 sapphire nozzles screwed in nozzle head, three forward jet, two jets at 90 degrees and another two back jets.

► RWT-S44-28MS*



Technical Specifications:

Max. Operating pressure : 2800bar	Max. Flow rate : 42 l/min
Rotation speed : 500~1500rpm	Max. Outer diameter : 44 mm
Length : 183mm	
Connection thread : 1-1/8-12 UNF Female or custom-made adapter provided	

Magnetic rotation speed control will reduce wear and gives better jetting impact.

Nozzle Heads:

Three standard head designs are available with 1/4-28 sapphire nozzles. The universal head has total seven sapphire nozzles, three forward jet, two jets at 90 degrees and another two back jets; the polisher head has four sapphire nozzles, two at 90 degrees and another two back jet; the unplugging head has five sapphire nozzles, three forward jets and two back jets.

RWT-S44-28MS4

With four 1/4-28 sapphire nozzles screwed in nozzle head, two at 90 degree, two back jets

RWT-S44-28MS5

With five 1/4-28 sapphire nozzles screwed in nozzle head, three forward jet, two back jet.

RWT-S44-28MS7

With seven 1/4-28 sapphire nozzles screwed in nozzle head, three forward jet, two jets at 90 degrees and another two back jets

DARKSTORM SERIES

▶ RWT-S20M-U40



Technical Specifications:

Max. Operating pressure : 2000bar	Max. Flow rate : 80 l/min
Rotation speed : 1000~2000rpm	Max. Outer diameter : 40mm
Length : 116mm (Not incl. adapter)	
Connection thread : M22*1.5 Female or custom-made adapter provided.	
Number of nozzle : 4xM4 hardened steel nozzles in the rotary body (two jets at 90 degrees + two back jets)	

DARKSTORM SERIES

▶ RWT-S20M-U40T4



Technical Specifications:

Max. Operating pressure : 2000bar	Max. Flow rate : 80 l/min*
Rotation speed : 1000~2000rpm	Max. Outer diameter : 40mm
Length : 116mm (Not incl. adapter)	
Connection thread : M22*1.5 Female or custom-made adapter provided.	
Number of nozzle : 4xM4 hardened steel nozzles in the rotary body (two jets at 90 degrees + two back jets) and 4xM4 hardened steel nozzles or 4xM4 plugs in the thruster	

*- flow rate is for rotary body nozzles only, not including thrust nozzles.

▶ RWT-S20M-U55



Technical Specifications:

Max. Operating pressure : 2000bar	Max. Flow rate : 80 l/min
Rotation speed : 1000~2000rpm	Max. Outer diameter : 55mm
Length : 116mm (Not incl. adapter)	
Connection thread : M22*1.5 Female or custom-made adapter provided.	
Number of nozzle : 4x1/4-28 sapphire nozzles in the rotary body (two jets at 90 degrees + two back jets)	

▶ RWT-S20M-U55T4



Technical Specifications:

Max. Operating pressure : 2000bar	Max. Flow rate : 80 l/min*
Rotation speed : 1000~2000rpm	Max. Outer diameter : 55mm
Length : 116mm (Not incl. adapter)	
Connection thread : M22*1.5 Female or custom-made adapter provided.	
Number of nozzle : 4x1/4-28 sapphire nozzles in the rotary body (two jets at 90 degrees + two back jets) and 4x1/4-28 sapphire nozzles or 4x1/4-28 plugs in the thruster	

*- flow rate is for rotary body nozzles only, not including thrust nozzles.

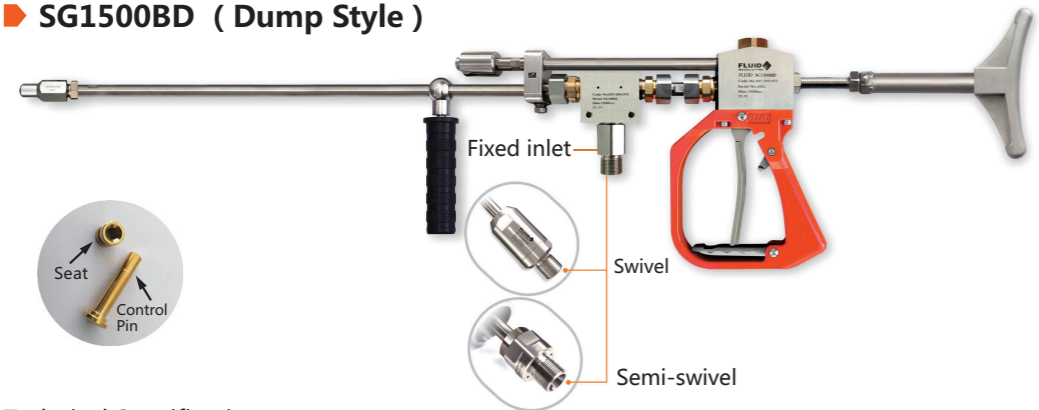
HAND-HELD CONTROL GUN

The hand-held dump style control guns allow the operator to have complete control of the pressure at all times. The water is dumped by the dump valve when the dump gun is deactivated.

■ **FEATURES:**

- Cartridge is specially designed to replace the worn-out parts including control pin and seat alone. No need to replace the full cartridge and save money.
- available in fixed, semi-swivel and full swivel inlet connection options.

► **SG1500BD (Dump Style)**



Technical Specifications:

Max. Operating pressure : 1500bar	Max. Flow rate : 60 l/min
Lance type : 9/16"	Lance length: 1100mm or Custom-made
Weight : approx.6.8kg	
Connection thread : M24*1.5 male with 24-degree cone angle or custom-made	

► **SG2800BB (Dump Style)**



Technical Specifications:

Max. Operating pressure : 2800bar	Max. Flow rate : 50 l/min
Lance type : 9/16"	Lance length: 1100mm or Custom-made
Weight : approx.6.9kg	
Connection thread : 1-1/8-12 UNF Female with 60-degree cone angle or custom-made	

► **SGD2800BB Hand-Held Double Dump Gun**



Technical Specifications:

Max. Operating pressure : 2800bar	Max. Flow rate : 50 l/min
Lance type : 9/16"	Lance length: 1100mm or Custom-made
Weight : approx.9.6kg	
Connection thread : 1-1/8-12 UNF Female with 60-degree cone angle or custom-made	

► **SG1600BB (Dump Style)**



Technical Specifications:

Max. Operating pressure : 1600bar	Max. Flow rate : 60 l/min
Lance type : 9/16"	Lance length: 1100mm or Custom-made
Weight : approx.6.4kg	
Connection thread : M24*1.5 male with 24-degree cone angle or custom-made	

► **SGD1600BB Hand-Held Double Dump Gun**



Technical Specifications:

Max. Operating pressure : 1600bar	Max. Flow rate : 60 l/min
Lance type : 9/16"	Lance length: 1100mm or Custom-made
Weight : approx.9.3kg	
Connection thread : M24*1.5 male with 24-degree cone angle or custom-made	

1600 Hand-Held Zero Thrust Gun

► UWSG1600BB



Technical Specifications:

Max. Operating pressure : 1600bar	Max. Flow rate : 60 l/min
Lance type : 9/16"	Lance length: 750mm or Custom-made
Weight : approx.9.1kg	
Connection thread : M24*1.5 male with 24-degree cone angle or custom-made	

► SG1600CB (Shut in Style)



The hand-held shut in style gun is used when remote dumping is required to keep discharge water in the blasting area to a minimum.

Technical Specifications:

Max. Operating pressure : 1600bar	Max. Flow rate : 60 l/min
Lance type : 9/16"	Lance length: 1100mm or Custom-made
Weight : approx.5.8kg	
Connection thread : M24*1.5 male with 24-degree cone angle or custom-made	

► RSG3000/42TA (Pneumatic)



Specially designed for heat exchanger tube cleaning.

Technical Specifications:

Max. Operating pressure : 3000bar	Max. Flow rate : 42 l/min
Weight : approx. 7.8kg	Rotation speed : 10~500 rpm
Air pressure : 4~6bar	Air input : Max.7m ³ /h
Lance length : custom-made as per client requirement	
Connection thread : 1-1/8-12 UNF Female with 60-degree cone angle	

■ FEATURES:

- Lightweight aluminum & stainless steel construction.
- The barrel supported on a ball bearing for smooth operation.
- Highest quality air motor.
- Quick change swivel seal assembly.
- Can be ordered lance sizes in different lengths.

► RSG3000/42SA (Pneumatic)



Specially designed for surface cleaning; wide selection of multi-orifice heads.

Technical Specifications:

Max. Operating pressure : 3000bar	Max. Flow rate : 42 l/min
Weight : approx. 8.8kg	Rotation speed : 0~2000 rpm
Air pressure : 4~6bar	Air input : Max.7m ³ /h
Lance length : 800mm or Custom-made	
Connection thread : 1-1/8-12 UNF Female with 60-degree cone angle	

■ FEATURES:

- Lightweight aluminum & stainless steel construction.
- The barrel supported on a ball bearing for smooth operation.
- Highest quality air motor.
- Quick change swivel seal assembly.
- Can be ordered lance sizes in different lengths.
- The ability to accept a wide range of nozzles for almost any application.

FOOT VALVE

DUMP STYLE FOOT VALVE

Dump style foot valves allow the operator to have complete control of the pressure at all times. Ideal for a variety of waterblast tube cleaning applications.

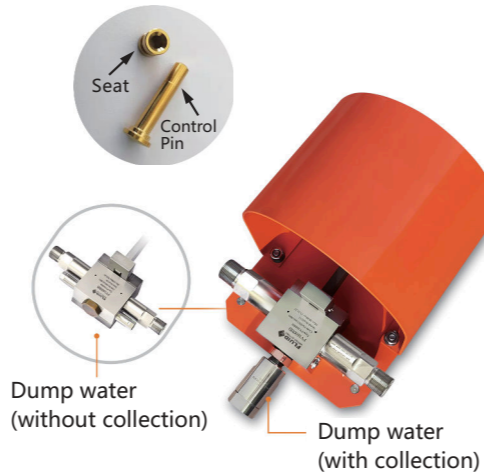
FEATURES:

- Cartridge is specially designed to replace the worn-out parts including control pin and seat alone. No need to replace the full cartridge and save money.
- available with diffuser to route dump water for collection.

► FV1600BD (Dump Style)

Technical Specifications:

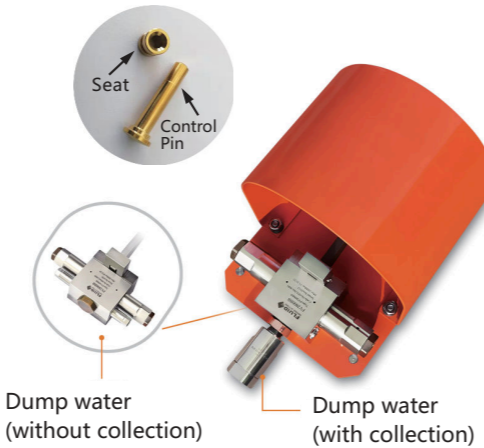
Max. Operating pressure : 1600bar
Max. Flow rate : 80 l/min
Weight : approx. 14kg
Connection thread : M24*1.5 male with 24-degree cone angle on both sides or custom-made



► FV2800BB (Dump Style)

Technical Specifications:

Max. Operating pressure : 2800bar
Max. Flow rate : 50 l/min
Weight : approx. 14kg
Connection thread : 1-1/8-12 UNF Female on both sides with 60-degree cone angle



SHUT IN STYLE FOOT VALVE

► FV1500CA (Shut in Style)

Shut-in style foot valve allows the operator to have complete control of the pressure at all times. Do not dump water when the foot pedal is released. Useful in applications where excess water spillage and disposal are concerns.

Technical Specifications:

Max. Operating pressure : 1500bar
Max. Flow rate : 80 l/min
Weight : approx. 14kg
Connection thread : M24*1.5 male with 24-degree cone angle on both sides or custom-made



SWIVEL AND ROTARY

► SC-U3000/58 (SWIVEL)



Technical Specifications:

Max. Operating pressure : 3000bar
Max. Flow rate : 58 l/min
Connection thread : 1-1/8-12 UNF Female with 60-degree cone angle

► SC-U1600/80 (SWIVEL)



Technical Specifications:

Max. Operating pressure : 1600bar
Max. Flow rate : 80 l/min
Connection thread : M24*1.5 male with 24-degree cone angle or custom-made

► RC3000/58 (ROTARY high speed)



Technical Specifications:

Max. Operating pressure : 3000bar
Max. Flow rate : 58 l/min
Connection thread : 1-1/8-12 UNF Female with 60-degree cone angle

► RC1800/117 (ROTARY high speed)



Technical Specifications:

Max. Operating pressure : 1800bar
Max. Flow rate : 117 l/min
Connection thread : M24*1.5 male with 24-degree cone angle or custom-made

SURFACE/FLOOR CLEANER

The surface/floor cleaner perform a wide range of applications, such as: removing paint markings, coatings, contaminations, degreasing surfaces and concrete scarification.

FS3000/58A (Self- rotary)

- FEATURES:
- The rotating spray arms driven by recoil force, no additional resources needed to power rotation.
- Pressure control via a dump gun.
- Adjustable rotation speed ideal for heavier deposits and lighter deposits.
- Protective nozzle guards help keep nozzles protected from splashback.



Technical specifications:

Max. operating pressure : 3000bar	Max. flow rate : 58 l/min
Max. rotation speed (Adjustable) : 1500rpm	
Number of sapphire nozzles: ten or custom-made	
Blasting width: 268 mm or custom-made (the Max. blasting width won't exceed 500mm)	
Connection thread: 1-1/8-12 UNF Female with 60-degree cone angle	

FSV3000/58A (With Self-vacuum recycling)

FSV-S3000/58A is a self-rotary and self-vacuum recycling Surface Cleaner, does not require hydraulic, electrical, or pneumatic power to operate, which perform a wide range of functions such as : removing paint markings, coatings, contaminations, and membranes and degreasing surfaces.

- FEATURES:
- The rotating spray arms driven by recoil force, no additional resources needed to power rotation.
- Pressure control via a dump gun.
- Adjustable rotation speed ideal for heavier deposits and lighter deposits.
- Waste water and material from work area are recovered via the vacuum force generated when HP water is sprayed in a pipe at high speed.
- Protective nozzle guards help keep nozzles protected from splashback.

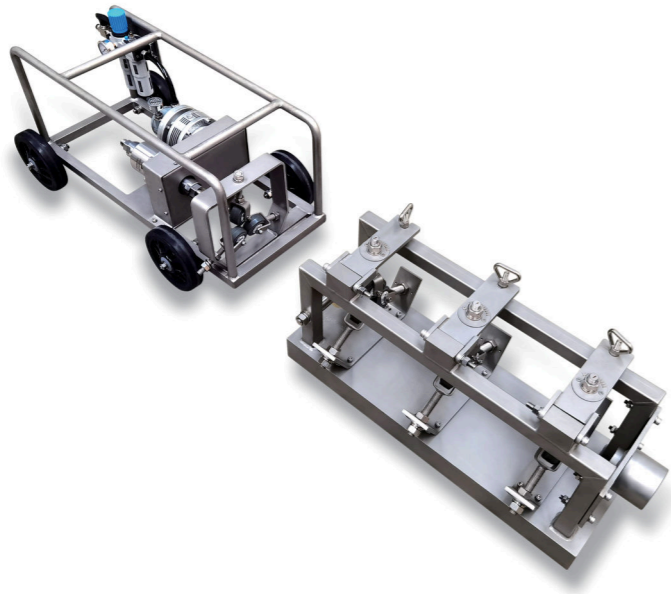


Technical Specification:

Max. operating pressure : 3000bar	Max. flow rate : 58 l/min
Max. rotation speed (Adjustable) : 1500rpm	
Number of sapphire nozzles: ten or custom-made	
Blasting width: 268 mm or custom-made (the Max. blasting width won't exceed 500mm)	
Connection thread: 1-1/8-12 UNF Female with 60-degree cone angle	

EQUIPMENT

ROTRAY UNIT FOR HOSE



► HSR-R3000/58 (Pneumatic)

Technical Specification:

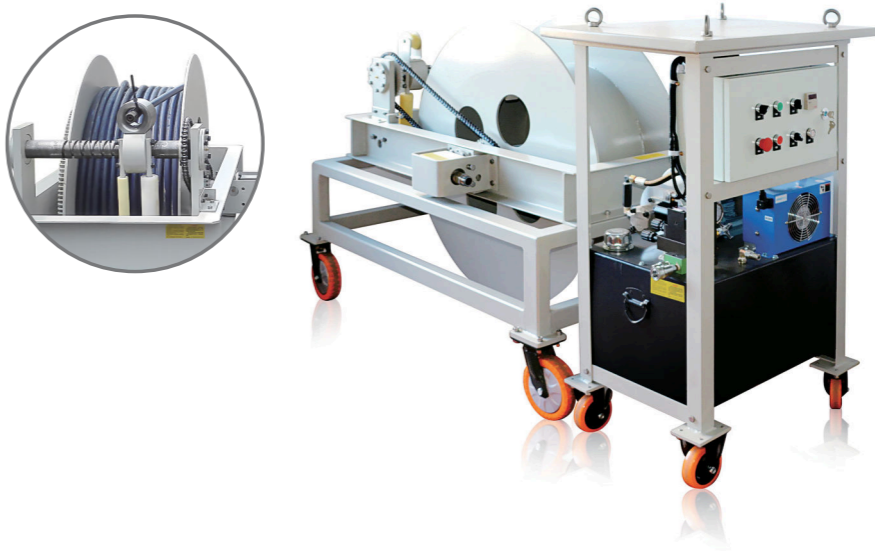
Max. Operating pressure : 3000bar	Max. Flow rate : 58 l/min
Rotation speed : 0~40rpm	Hose OD : ϕ 16~33mm
Air pressure : 5~8bar	Air supply : 108 m³/h

► HSR- R1800/117 (Pneumatic)

Technical Specification:

Max. Operating pressure : 1800bar	Max. Flow rate : 117 l/min
Rotation speed : 0~40rpm	Hose OD : ϕ 16~33mm
Air pressure : 5~8bar	Air supply : 108 m³/h

HOSE STORAGE REEL



► HSR-W2000/250 (Hydraulic)

Technical Specification:

Max. Operating pressure : 2000bar	Max. Flow rate : 250 l/min
Length : 1500mm	Width : 1010mm
Height : 1231mm	Weight : 350 kg
Feeding speed : 1~20m/min	Power unit : 2.2KW, 380V
Capacity : i/d13- o/d27 Max.120m ; i/d20- o/d34 Max.100m	



► MSR-W1600/200 (Manual)

Technical Specification:

Max. Operating pressure : 1600bar	Max. Flow rate : 200 l/min
Length : 1400mm	Width : 1000mm
Height : 1400mm	Weight : 520 kg
Capacity : i/d13- o/d27 Max.120m ; i/d20- o/d34 Max.100m	

► MSR- W3000/117 (Manual)

Technical Specification:

Max. Operating pressure : 3000bar	Max. Flow rate : 117 l/min
Length : 1400mm	Width : 1000mm
Height : 1400mm	Weight : 520 kg
Capacity: i/d8-o/d20: Max. 150m	

SWIVELING/ROTATING HOSE REEL



► HSR-2000/250 (Hydraulic)

Technical Specification:

Max. Operating pressure : 2000bar	Max. Flow rate : 250 l/min
Length : 2650mm	Width : 1350mm
Height : 1400mm	Weight : 1800 kg
Rotation speed : 0~30 rpm	Feeding speed : 1~20m/min
Power unit : 4.0 KW 380 V AC	
Hydraulic oil : 120 L 46#	
Capacity : i/d13- o/d27 Max.120m ; i/d20- o/d34 Max.100m	

CUSTOM-MADE CLEANING TOOLS



NOZZLE HOLDERS



NOZZLE HOLDERS



NOZZLE HOLDERS



RUNWAY CLEANING



3-D PIPE CLEANING



CLEANING TOOLS FOR ROBOT



MODULAR SPRAY ARM



HYDRAULIC MOTOR
DRIVEN ROTARY NOZZLE



CLEANING AND DECOATING DEVICE

ACCESSORIES

NOZZLES



S1(1/4-28UNF)



S2(M10X1.5)



S3(M4X0.5)



S4(M4X0.5)



H1(M3)



H2(M4)



H3(1/8NPT)



H4(1/4NPT)



H5(Round jet)



H6(Fan jet)



H7(M10*1)



H8(M14*1.5)

CENTRALIZERS



TYPE A

for Falcon tools



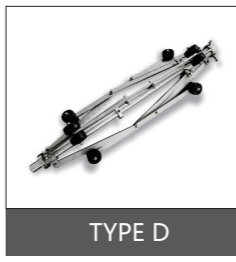
TYPE B

for Falcon tools



TYPE C

for Falcon tools



TYPE D

for Falcon tools



TYPE E

for Falcon tools



TYPE F

for Wild Boar tools

Style	A	B	C	D	E	F
Range of i/d pipes	130-400mm	400-800mm	400-1000mm	400-1200mm	custom-made	150-300mm

PERFORMANCE (M10*1.5、1/4-28UNF、 M4 SAPPHIRE NOZZLES)

Nozzles ϕ d mm	200 bar L/min	500 bar L/min	750 bar L/min	1000 bar L/min	1500 bar L/min	2000 bar L/min	2500 bar L/min	3000 bar L/min
0.10	0.064	0.1	0.122	0.141	0.171	0.196	0.217	0.237
0.125	0.1	0.157	0.191	0.22	0.267	0.306	0.34	0.37
0.15	0.143	0.226	0.275	0.316	0.385	0.441	0.489	0.532
0.175	0.197	0.309	0.377	0.434	0.527	0.604	0.671	0.73
0.20	0.255	0.401	0.489	0.563	0.684	0.784	0.87	0.946
0.25	0.402	0.632	0.771	0.887	1.078	1.235	1.371	1.492
0.30	0.574	0.903	1.101	1.266	1.538	1.763	1.957	2.13
0.35	0.808	1.27	1.549	1.781	2.165	2.481	2.754	2.997
0.40	1.026	1.614	1.969	2.264	2.751	3.153	3.5	3.808
0.45	1.301	2.046	2.495	2.869	3.486	3.996	4.436	4.827
0.50	1.638	2.577	3.143	3.614	4.391	5.032	5.587	6.079
0.55	1.982	3.118	3.802	4.373	5.313	6.089	6.76	7.356
0.60	2.343	3.685	4.494	5.168	6.28	7.197	7.99	8.694
0.65	2.769	4.355	5.311	6.107	7.421	8.505	9.442	10.274
0.70	3.2	5.034	6.139	7.06	8.578	9.831	10.914	11.876
0.75	3.7	5.82	7.098	8.162	9.918	11.367	12.619	13.731
0.80	4.261	6.702	8.174	9.399	11.421	13.09	14.531	15.812
0.85	4.81	7.566	9.228	10.611	12.893	14.777	16.404	17.85
0.90	5.401	8.495	10.36	11.913	14.475	16.59	18.417	20.04
0.95	6.094	9.584	11.689	13.441	16.332	18.718	20.78	22.611
1.00	6.93	10.9	13.293	15.287	18.574	21.288	23.632	25.751
1.10	8.39	13.19	16.08	18.5	22.48	25.76	28.6	31.12
1.20	9.99	15.72	19.17	22.04	26.78	30.7	34.08	37.08
1.30	11.73	18.45	22.5	25.87	31.43	36.02	39.99	43.52
1.40	13.6	21.39	26.09	30	36.46	41.78	46.38	50.47
1.50	15.61	24.56	29.95	34.44	41.85	47.96	53.24	57.94
1.60	17.16	27.94	34.08	39.19	47.61	54.57	60.58	65.92
1.70	20.05	31.54	38.47	44.24	53.75	61.6	68.39	74.42
1.80	22.24	34.98	42.66	49.06	59.61	68.32	75.84	82.53
1.90	25.05	39.4	48.05	55.26	67.14	76.95	85.43	92.96
2.00	27.76	43.66	53.25	61.23	74.4	85.27	94.66	103
2.10	30.6	48.13	58.7	67.5	82.02	94.01	104.36	113.56
2.20	35.95	56.54	68.95	79.29	96.35	110.42	122.58	133.39
2.30	39.19	61.64	75.17	86.45	105.04	120.38	133.64	145.42
2.40	42.67	67.12	81.85	94.13	114.37	131.08	145.52	158.34
2.50	46.3	72.83	88.82	102.13	124.1	142.23	157.9	171.81
2.60	50.08	78.77	96.06	110.47	134.23	153.84	170.78	185.83
2.70	54.1	84.95	103.6	119.13	144.75	165.9	184.17	200.4
2.80	58.08	91.35	111.41	128.12	155.67	178.41	198.06	215.52
2.90	62.3	98	119.51	137.43	166.99	191.39	212.46	231.59
3.00	66.67	104.87	127.9	147.07	178.71	204.81	227.37	247.41

Note: When manually operating high pressure guns and lances the reaction force on the axis should not exceed 250N!
if the reaction force exceeds 150N, a shoulder stock is required!

<150N

<250N

>250N

PERFORMANCE (M3, M4,1/8NPT,1/4NPT,M10*1,M14*1.5 NOZZLES)
(Note: M3, M4–Hardened Steel nozzles;1/8NPT,1/4NPT, M10*1, M14*1.5–Sapphire nozzles)

Nozzles ϕ d mm	150 bar L/min	250 bar L/min	350 bar L/min	450 bar L/min	550 bar L/min	750 bar L/min	850 bar L/min	1000 bar L/min	1200 bar L/min	1400 bar L/min	1500 bar L/min
0.4	1.2	1.5	1.8	2.1	2.3	2.7	2.8	3.1	3.4	3.6	3.8
0.5	1.9	2.4	2.8	3.2	3.6	4.2	4.4	4.8	5.3	5.7	5.9
0.6	2.7	3.5	4.1	4.6	5.1	6.0	6.4	6.9	7.6	8.2	8.5
0.7	3.6	4.7	5.6	6.3	7.0	8.1	8.7	9.4	10.3	11.1	11.5
0.8	4.8	6.1	7.3	8.2	9.1	10.6	11.3	12.3	13.4	14.5	15.0
0.9	6.0	7.8	9.2	10.4	11.5	13.4	14.3	15.5	17.0	18.4	19.0
1.0	7.4	9.6	11.3	12.9	14.2	16.6	17.7	19.2	21.0	22.7	23.5
1.1	9.0	11.6	13.7	15.6	17.2	20.1	21.4	23.2	25.4	27.4	28.4
1.2	10.7	13.8	16.3	18.5	20.5	23.9	25.5	27.6	30.2	32.7	33.8
1.3	12.5	16.2	19.2	21.7	24.0	28.1	29.9	32.4	35.5	38.3	39.7
1.4	14.6	18.8	22.2	25.2	27.9	32.5	34.6	37.6	41.2	44.5	46.0
1.5	16.7	21.6	25.5	28.9	32.0	37.4	39.8	43.1	47.3	51.0	52.8
1.6	19.0	24.5	29.0	32.9	36.4	42.5	45.3	49.1	53.8	58.1	60.1
1.7	21.5	27.7	32.8	37.2	41.1	48.0	51.1	55.4	60.7	65.6	67.9
1.8	24.1	31.1	36.7	41.7	46.1	53.8	57.3	62.1	68.0	73.5	76.1
1.9	26.8	34.6	40.9	46.4	51.3	59.9	63.8	69.2	75.8	81.9	84.8
2.0	29.7	38.3	45.4	51.4	56.9	66.4	70.7	76.7	84.0	90.7	93.9
2.2	35.9	46.4	54.9	62.2	68.8	80.4	85.6	92.8	101.7	109.8	113.6
2.4	42.8	55.2	65.3	74.1	81.9	95.6	101.8	110.4	121.0	130.7	135.3
2.6	50.2	64.8	76.7	86.9	96.1	112.2	119.5	129.6	142.0	153.4	158.7
2.8	58.2	75.2	88.9	100.8	111.5	130.2	138.6	150.3	164.7	177.8	184.1
3.0	66.8	86.3	102.1	115.8	128.0	149.4	159.1	172.6	189.0	204.2	211.3

Note: ① Above M3-Max. Nozzles size is ϕ 0.8mm M4-Max. Nozzles size is ϕ 1.0mm
② 1/8NPT、1/4NPT、M10*1、M14*1.5-Max. Nozzles size is ϕ 3.0mm

ROUND JET NOZZLE PERFORMANCE DATA																	
Flow rate (l/min) at Pressure (bar)																	
Nozzles ϕ d mm	350 bar	400 bar	450 bar	500 bar	550 bar	600 bar	650 bar	700 bar	750 bar	800 bar	900 bar	1000 bar	1100 bar	1200 bar	1300 bar	1400 bar	1500 bar
0.6	4.2	4.5	4.8	5.0	5.3	5.5	5.7	6.0	6.2	6.4	6.8	7.1	7.5	7.8	8.1	8.4	8.7
0.7	5.7	6.1	6.5	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.2	9.7	10.2	10.6	11.1	11.5	11.9
0.8	7.5	8.0	8.5	9.0	9.4	9.8	10.2	10.6	11.0	11.3	12.0	12.7	13.3	13.9	14.4	15.0	15.5
0.9	9.5	10.1	10.8	11.3	11.9	12.4	12.9	13.4	13.9	14.3	15.2	16.0	16.8	17.6	18.3	19.0	19.6
1.0	11.7	12.5	13.3	14.0	14.7	15.3	16.0	16.6	17.1	17.7	18.8	19.8	20.8	21.7	22.6	23.4	24.2
1.1	14.2	15.2	16.1	16.9	17.8	18.6	19.3	20.0	20.7	21.4	22.7	24.0	25.1	26.2	27.3	28.3	29.3
1.2	16.9	18.0	19.1	20.2	21.1	22.1	23.0	23.9	24.7	25.5	27.0	28.5	29.9	31.2	32.5	33.7	34.9
1.3	19.8	21.2	22.4	23.7	24.8	25.9	27.0	28.0	29.0	29.9	31.7	33.5	35.1	36.7	38.1	39.6	41.0
1.4	23.0	24.5	26.0	27.4	28.8	30.1	31.3	32.5	33.6	34.7	36.8	38.8	40.7	42.5	44.2	46.9	47.5
1.5	26.4	28.2	29.9	31.5	33.0	34.5	35.9	37.3	38.6	39.8	42.3	44.5	46.7	48.8	50.8	52.7	54.6
1.6	30.0	32.1	34.0	35.8	37.6	39.3	40.9	42.4	43.9	45.3	48.1	50.7	53.2	55.5	57.8	60.0	62.1
1.7	33.8	36.2	38.4	40.5	42.4	44.3	46.1	47.9	49.5	51.2	54.3	57.2	60.0	62.7	65.2	67.7	70.1
1.8	37.9	40.6	43.0	45.4	47.6	49.7	51.7	53.7	55.6	57.4	60.9	64.1	67.3	70.3	73.1	75.9	78.6
1.9	42.3	45.2	47.9	50.5	53.0	55.4	57.6	59.8	61.9	63.9	67.8	71.5	75.0	78.3	81.5	84.6	87.5
2.0	46.8	50.1	53.1	56.0	58.7	61.3	63.8	66.3	68.6	70.8	75.1	79.2	83.1	86.7	90.3	93.7	97.0
2.1	51.7	55.2	58.6	61.7	64.7	67.6	70.4	73.0	75.6	78.1	82.8	87.3	91.6	95.6	99.5	103	107
2.2	56.7	60.6	64.3	67.8	71.1	74.2	77.3	80.2	83.0	85.7	90.9	95.8	100	105	109	113	117
2.3	62.0	66.2	70.3	74.1	77.7	81.1	84.4	87.6	90.7	93.7	99.4	105	110	115	119	124	128
2.4	67.5	72.1	76.5	80.6	84.6	88.3	91.9	95.4	98.8	102	108	114	120	125	130	135	140
2.5	73.2	78.3	83.0	87.5	91.8	95.8	99.8	104	107	111	117	124	130	136	141	146	152
2.6	79.2	84.6	89.8	94.6	99.3	104	108	112	116	120	127	134	140	147	153	158	164
2.7	86.4	91.3	96.8	102	107	112	116	121	125	129	137	144	151	158	165	171	177
2.8	91.8	96.2	104	110	115	120	125	130	134	139	147	155	163	170	177	184	190
2.9	98.5	105	112	118	123	129	134	139	144	149	158	166	175	182	190	197	204
3.0	105	113	120	126	132	138	144	149	154	159	169	178	187	195	203	211	218

Note: When manually operating high pressure guns and lances the reaction force on the axis should not exceed 250N!
if the reaction force exceeds 150N, a shoulder stock is required! <150N <250N >250N

FAN JET NOZZLE PERFORMANCE DATA (10°、20°、30°)																	
Flow rate (l/min) at Pressure (bar)																	
Nozzles ϕ d mm	350 bar	400 bar	450 bar	500 bar	550 bar	600 bar	650 bar	700 bar	750 bar	800 bar	900 bar	1000 bar	1100 bar	1200 bar	1300 bar	1400 bar	1500 bar
0.6	3.0	3.2	3.4	3.6	3.7	3.9	4.1	4.2	4.4	4.5	4.8	5.0	5.3	5.5	5.7	5.9	6.2
0.7	4.0	4.3	4.6	4.8	5.1	5.3	5.5	5.7	5.9	6.1	6.5	6.8	7.2	7.5	7.8	8.1	8.4
0.8	5.3	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.7	8.0	8.5	8.9	9.4	9.8	10.2	10.6	10.9
0.9	6.7	7.2	7.6	8.0	8.4	8.8	9.1	9.5	9.8	10.1	10.7	11.3	11.9	12.4	12.9	13.4	13.9
1.0	8.3	8.8	9.4	9.9	10.4	10.8	11.3	11.7	12.1	12.5	13.2	14.0	14.6	15.3	15.9	16.5	17.1
1.1	10.0	10.7	11.3	11.9	12.5	13.1	13.6	14.1	14.6	15.1	16.0	16.9	17.7	18.5	19.3	20.0	20.7
1.2	11.9	12.7	13.5	14.2	14.9	15.6	16.2	16.8	17.4	18.0	19.1	20.1	21.1	22.0	22.9	23.8	24.6
1.3	14.0	14.9	15.8	16.7	17.5	18.3	19.0	19.7	20.4	21.1	22.4	23.6	24.7	25.8	26.9	27.9	28.9
1.4	16.2	17.3	18.4	19.4	20.3	21.2	22.1	22.9	23.7	24.5	26.0	27.4	28.7	30.0	31.2	32.4	33.5
1.5	18.6	19.9	21.1	22.2	23.3	24.3	25.3	26.3	27.2	28.1	29.8	31.4	32.9	34.4	35.8	37.2	38.5
1.6	21.1	22.6	24.0	25.3	26.5	27.7	28.8	29.9	31.0	32.0	33.9	35.7	37.5	39.2	40.8	42.3	43.8
1.7	23.9	25.5	27.1	28.5	29.9	31.3	32.5	33.8	34.9	36.1	38.3	40.4	42.3	44.2	46.0	47.7	49.4
1.8	26.8	28.6	30.3	32.0	33.5	35.0	36.5	37.8	39.2	40.5	42.9	45.2	47.4	49.6	51.6	53.5	55.4
1.9	29.8	31.9	33.8	35.6	37.4	39.0	40.6	42.2	43.7	45.1	47.8	50.4	52.9	55.2	57.5	59.6	61.7
2.0	33.0	35.3	37.5	39.5	41.4	43.3	45.0	46.7	48.4	50.0	53.0	55.8	58.6	61.2	63.7	66.1	68.4
2.1	36.4	38.9	41.3	43.5	45.7	47.7	49.6	51.5	53.3	55.1	58.4	61.6	64.6	67.5	70.2	72.9	75.4
2.2	40.0	42.7	45.3	47.8	50.1	52.3	54.5	56.5	58.5	60.4	64.1	67.6	70.9	74.0	77.1	80.0	82.8
2.3	43.7	46.7	49.5	52.2	54.8	57.2	59.5	61.8	64.0	66.1	70.1	73.9	77.5	80.9	84.2	87.4	90.5
2.4	47.6	50.9	53.9	56.9	59.6	62.3	64.8	67.3	69.6	71.9	76.3	80.4	84.3	88.1	91.7	95.2	98.5
2.5	51.6	55.2	58.5	61.7	64.7	67.6	70.4	73.0	75.6	78.1	82.8	87.3	91.5	95.6	99.5	103	107
2.6	55.8	59.7	63.3	66.7	70.0	73.1	76.1	79.0	81.7	84.4	89.5	94.4	99.0	103	108	112	116
2.7	60.2	64.4	68.3	72.0	75.5	78.8	82.1	85.2	88.1	91.0	96.6	102	107	112	116	120	125
2.8	64.8	69.2	73.4	77.4	81.2	84.8	88.3	91.6	94.8	97.9	104	109	115	120	125	130	134
2.9	69.5	74.3	78.8	83.0	87.1	91.0	94.7	98.2	102	105	111	117	123	129	134	139	144
3.0	74.3	79.5	84.3	88.9	93.2	97.3	101	105	109	112	119	126	132	138	143	149	154

Note: When manually operating high pressure guns and lances the reaction force on the axis should not exceed 250N!
if the reaction force exceeds 150N, a shoulder stock is required! <150N <250N >250N