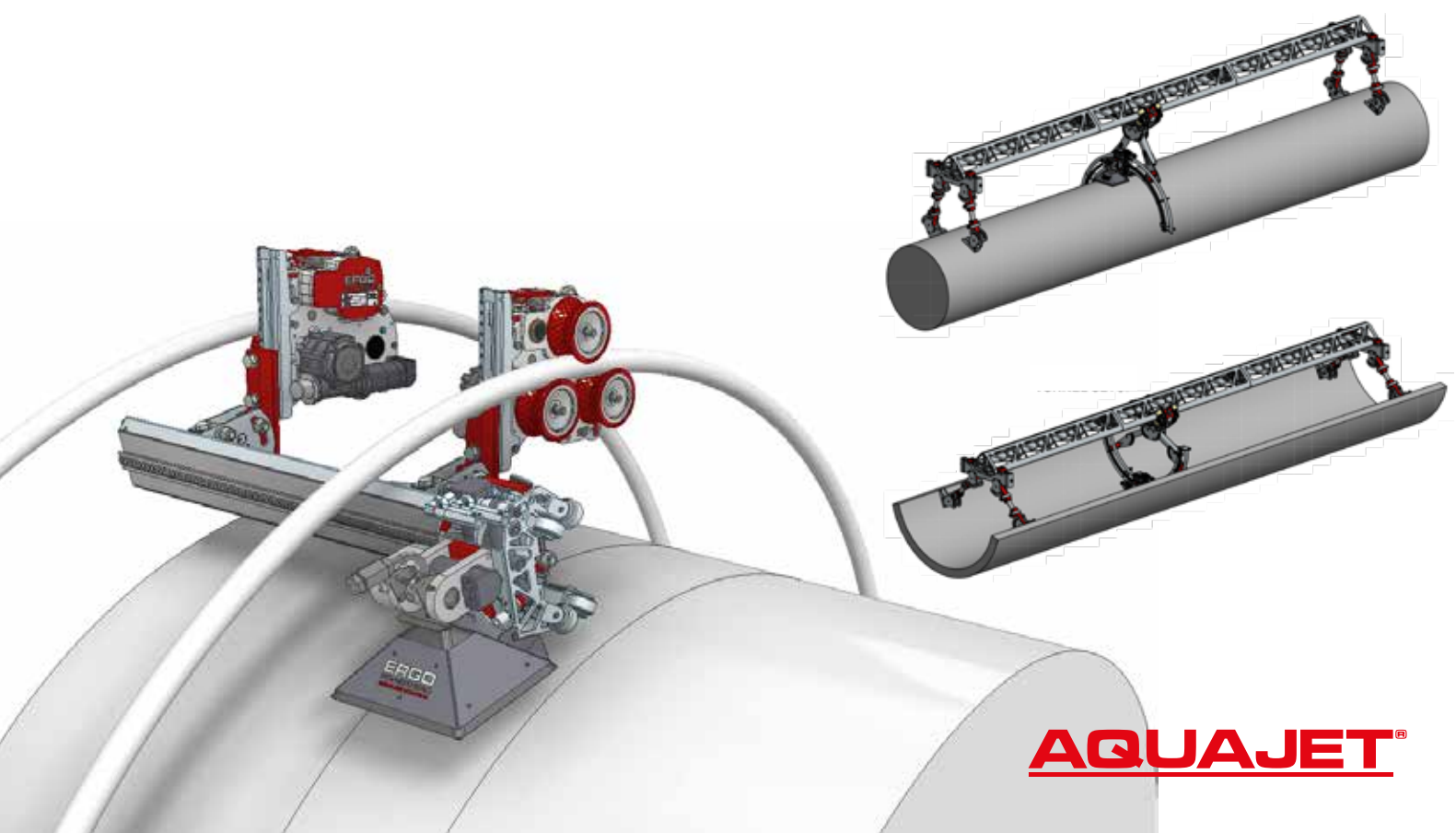




Aqua Rail Systems 3.0

EXPANDS HYDRODEMOLITION REACH AND FLEXIBILITY



AQUAJET[®]

AQUAJET®

CUTTING-EDGE HYDRODEMOLITION EQUIPMENT



Introducing **Aqua Rail Systems 3.0**

– EXPANDS HYDRODEMOLITION REACH AND FLEXIBILITY

The Aqua Rail System 3.0 is a versatile, multi-modular solution for hydrodemolition in tough environments. Designed for configurability, it adapts to project needs, ensuring the right setup every time. Its scalability allows reconfiguration for future tasks, saving time and costs. With adjustable power options and support legs, it guarantees precision and stability on any surface.

The Aqua Rail Systems 3.0 is more than just a rail—it's a multi-modular system designed to make it easier to deploy hydrodemolition work in even the toughest environments.

It's a system designed for configurability, which allows contractors to purchase a system tailored specifically to their project needs, ensuring the right configuration for each job.

The true value, however, lies in its reusability and scalability. If a future project requires different specifications, the system can be reconfigured or expanded with additional components. This

flexibility reduces the need for entirely new setups, saving both time and resources, while keeping contractors prepared for any challenge that comes their way.

This is one of Aqua Rail Systems 3.0 strengths, the fact that the system can be powered by and built in multiple different ways and combinations. Contractors can easily change power source or adjust the support legs to exact heights or angles, ensuring stability and optimal positioning for their hydrodemolition project, regardless of the surface or environment.

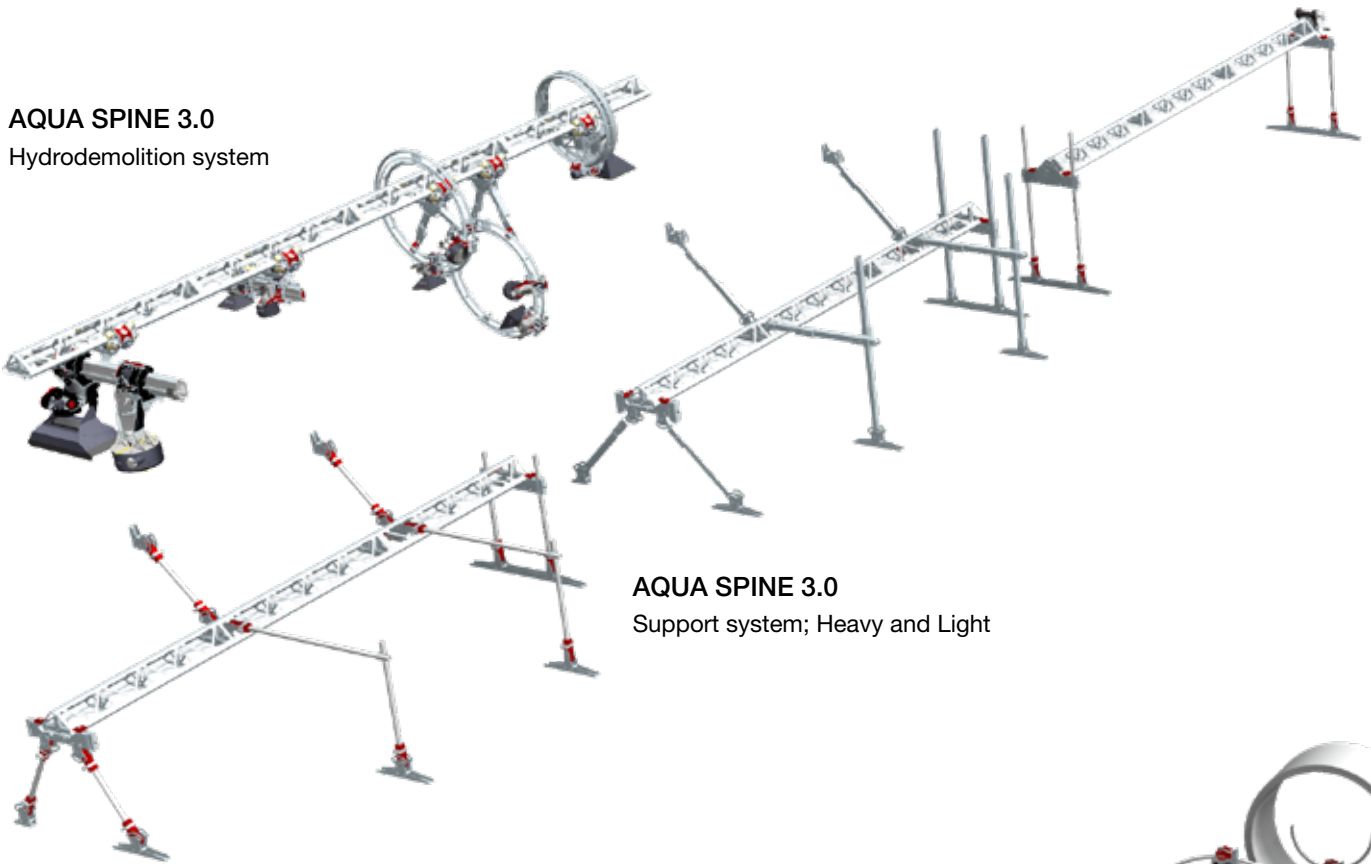
Aqua Rail Systems 3.0

AQUA SPINE 3.0 / ERGO CLIMBER 3.0 / SUPPORT SYSTEMS 3.0

The Aqua Rail Systems 3.0 is a complete solution and includes several new and improved products - such as the Aqua Spine 3.0, Ergo climber 3.0 and the Support system that support the rail systems in all imaginable situations.

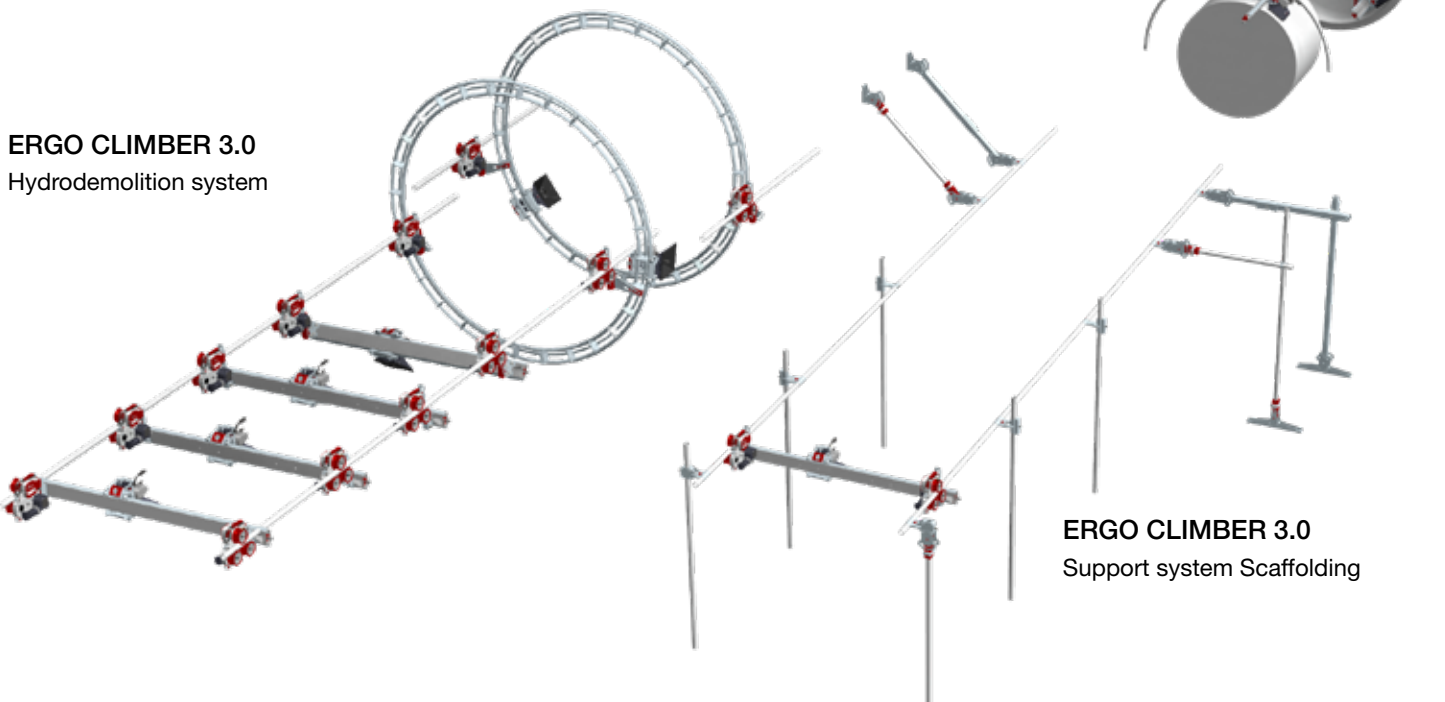
AQUA SPINE 3.0

Hydrodemolition system



AQUA SPINE 3.0

Support system; Heavy and Light



ERGO CLIMBER 3.0

Hydrodemolition system

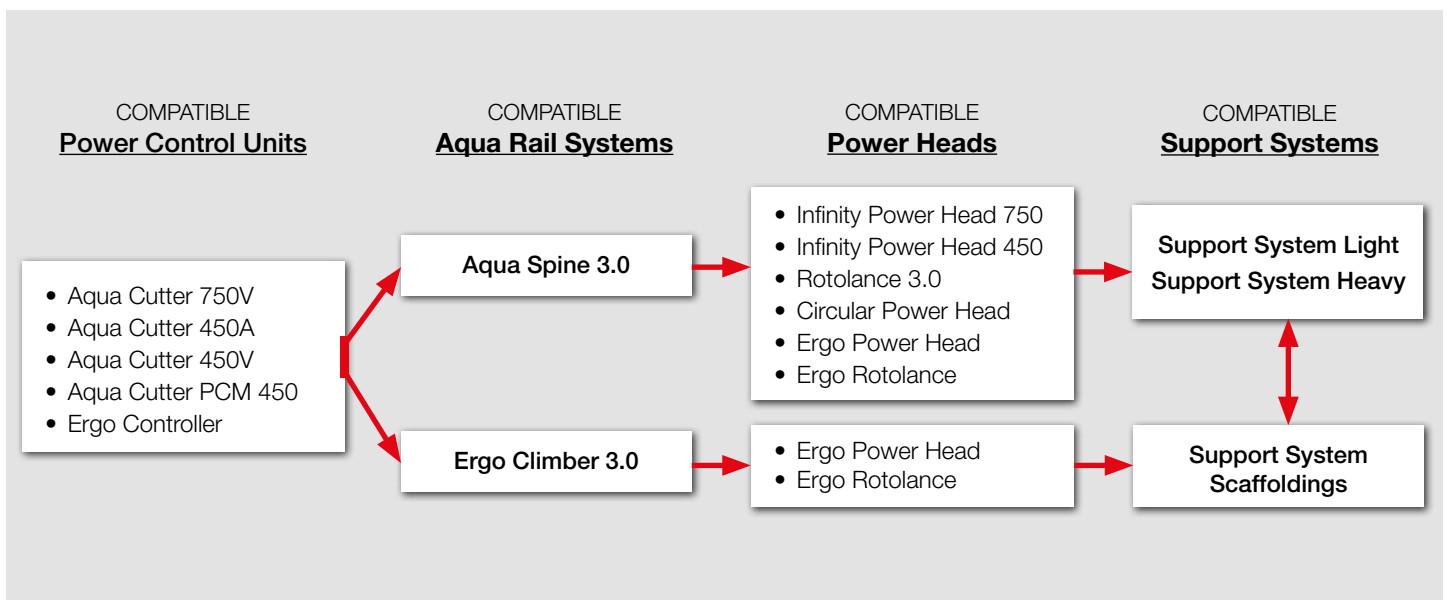
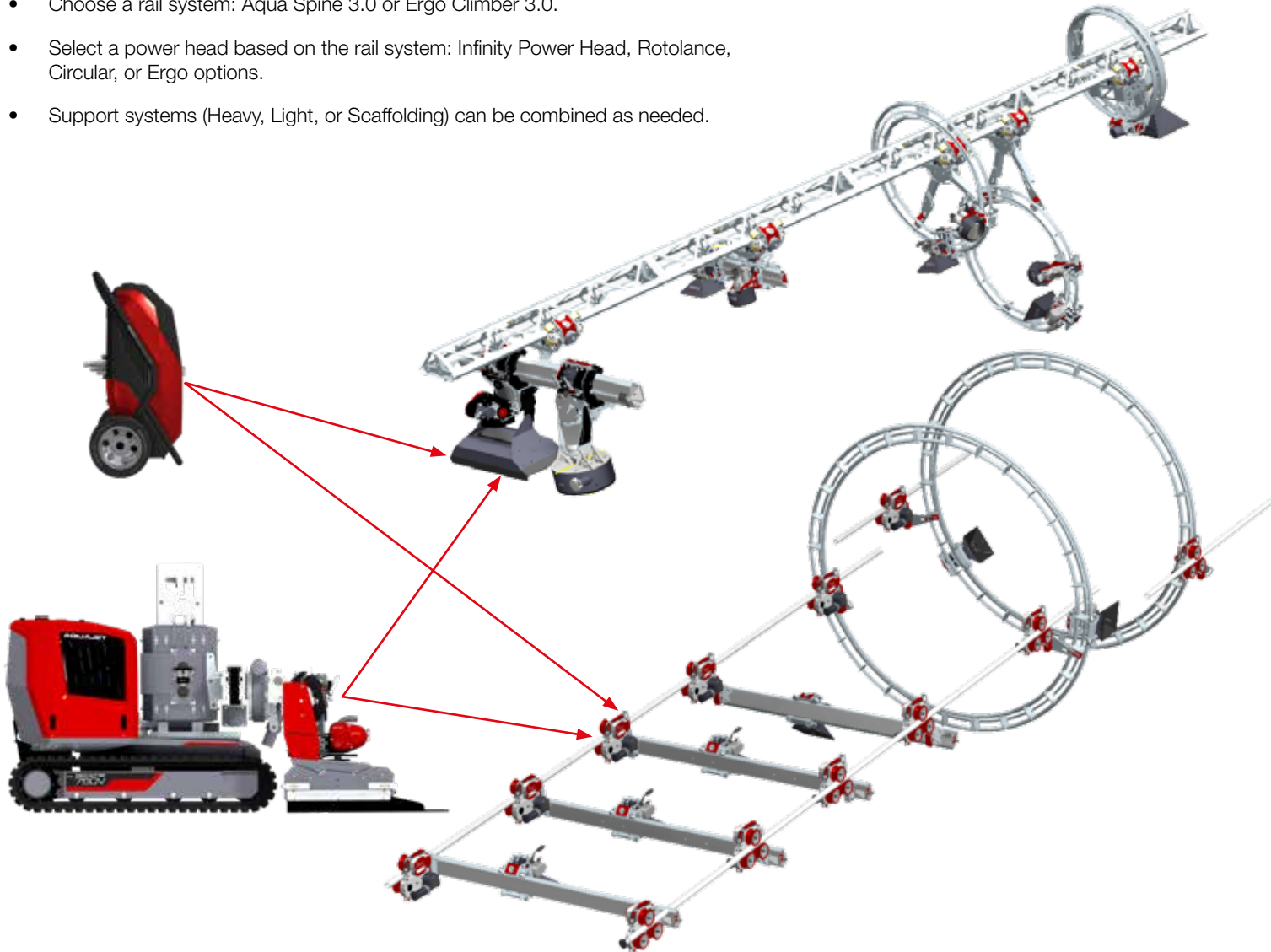
ERGO CLIMBER 3.0

Support system Scaffolding

Compatibility

EVOLUTION 3.0 CONTROL SYSTEM

- Power the system with a Power Control Unit (Aqua Cutter 3.0 models or Ergo Controller.)
- Choose a rail system: Aqua Spine 3.0 or Ergo Climber 3.0.
- Select a power head based on the rail system: Infinity Power Head, Rotolance, Circular, or Ergo options.
- Support systems (Heavy, Light, or Scaffolding) can be combined as needed.



Reaction forces

AQUA RAIL SYSTEMS 3.0

The system can handle different reaction forces depending on the chosen robot or rail system configuration. Each setup ensures optimal performance based on project requirements and support system selection.

REACTION FORCES - AQUA RAIL SYSTEM 3.0

- **Aqua Spine 3.0 + Infinity Power Head 750 = 3000N**
Rail/Beam: 6000 x 2000 mm (19,7 ft x 6,6 ft), Support System Heavy.
- **Aqua Spine 3.0 + Infinity Power Head 450 = 1600N**
Rail/Beam: 6000 x 2000 mm (19,7 ft x 6,6 ft), Support System Heavy.
- **Aqua Spine 3.0 + Ergo Power Head = 1000N**
Rail/Beam: 6000 x 2000 mm (19,7 ft x 6,6 ft), Support System Light.
- **Aqua Spine 3.0 + Aqua Spine Circular Power Head = 2000N**
Rail/Radius: 6000 x $\varnothing 2000$ mm (19,7 ft x $\varnothing 6,6$ ft)
- **Aqua Spine 3.0 + Aqua Centralizer = 2000N**
Rail/Radius: 6000 x $\varnothing 2000$ mm (19,7 ft x $\varnothing 6,6$ ft)
- **Aqua Spine 3.0 + Ergo Circular Power Head = 1000N**
Rail/Radius: 6000 x $\varnothing 1000$ mm (19,7 ft x $\varnothing 3,3$ ft)
Depending on setup.
- **Aqua Spine 3.0 + Ergo Centralizer = 1000N**
Rail/Radius: 6000 x $\varnothing 1000$ mm (19,7 ft x $\varnothing 3,3$ ft)
Depending on setup.
- **Ergo Climber 3.0 = 1000N**
Rail/Beam: 2000 x 2000 mm (6,6 ft x 6,6 ft)



Aqua Spine 3.0

RAIL SYSTEM

AQUA SPINE - RAIL INFORMATION

Lightweight design

The weight has been reduced from 52 kg (115 lbs) to 39 kg (86 lbs) for a 2-meter Aqua Spine rail section.

- 2,0 m (6,6 ft) = 39 kg (86 lbs)
- 1,0 m (3,3 ft) = 22 kg (48.5 lbs)
- 0,5 m (1,6 ft) = 14 kg (31 lbs)
- 0,25 m (0,8 ft) = 10 kg (22 lbs)

Enhanced performance

Improved strength with approximately 60% better load capacity and 50% better torque resistance.

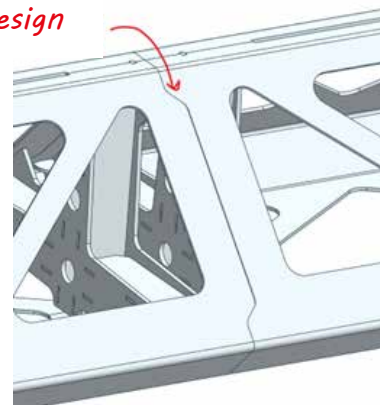
Modular and scalable

Traversable mounts and brackets enable the construction of infinitely long rail setups.

Effortless assembly

Sections are secured with a single M20x170 screw and feature an innovative “puzzle” design for seamless connections.

Puzzle design



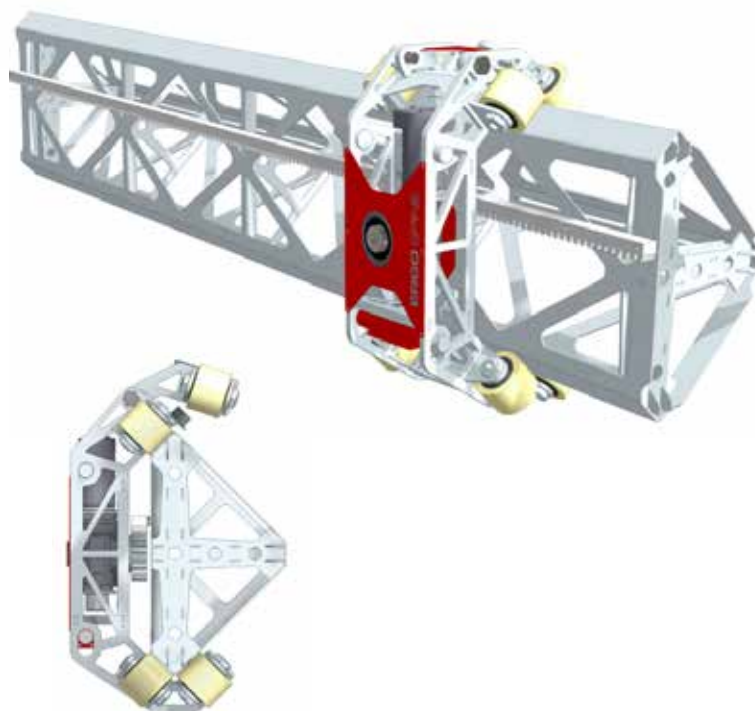
HOIST INFORMATION

Reduced weight

Weight reduced from 46 kg to 28 kg for improved handling.

Quick attachment

- Easily attaches to the rail with minimal effort.
- Features fast and easy tool attachment capabilities.



Aqua Spine 3.0

HYDRODEMOLITION SYSTEM

BRACKETS FOR ROLLER BEAMS

Designed to securely attach the roller beam to the Aqua Spine system.

Aqua Cutter 750V Roller Beam

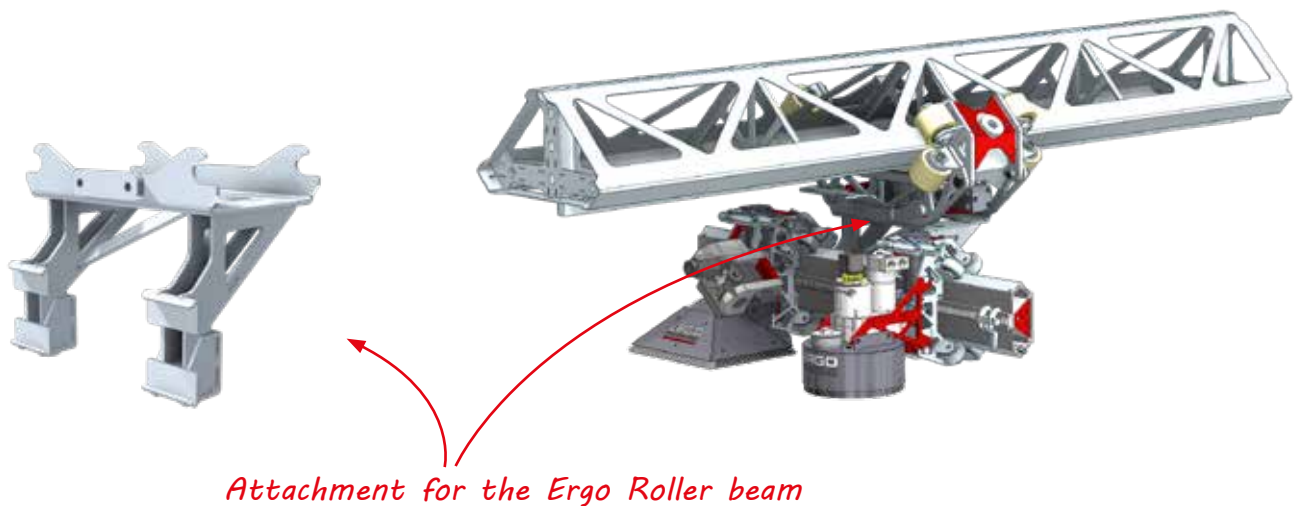
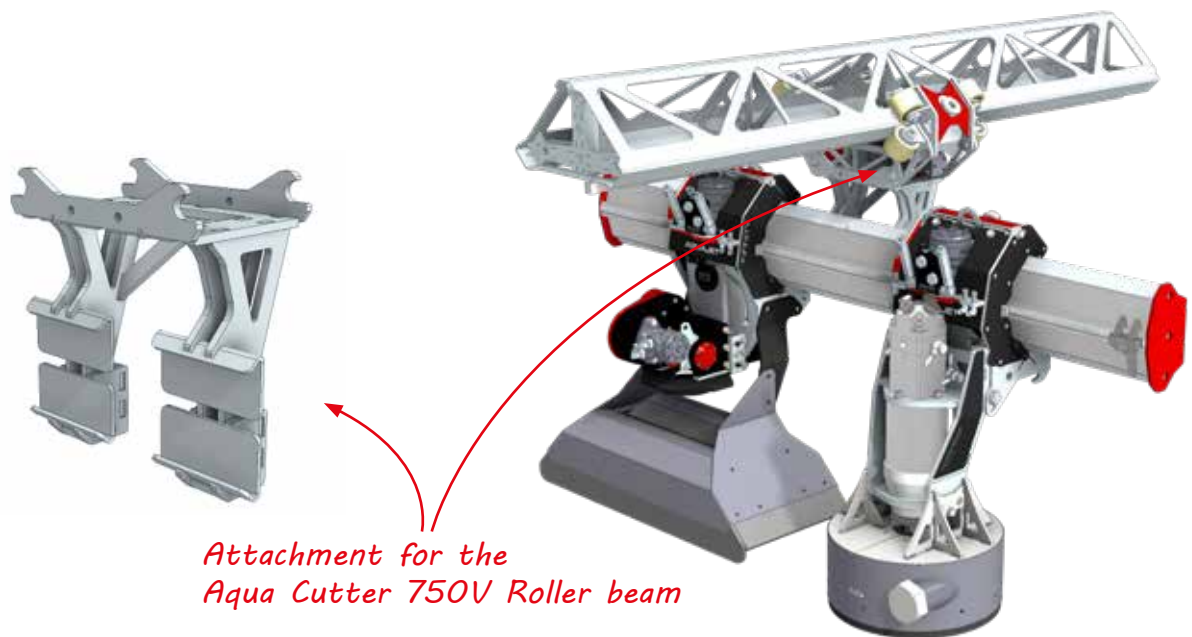
Supports reaction forces up to 3000N.

Aqua Cutter 450 Roller Beam

Supports reaction forces up to 1600 N.

Ergo Roller Beam

Handles reaction forces up to 1000N.



Aqua Spine 3.0

HYDRODEMOLITION SYSTEM

RINGS / RADIUSSES UP TO 2000N

Designed for work in tunnels or on pillars, easily attached to the Aqua Spine system.

Aqua Centralizer

Designed for pipe and tunnel systems.

- $\varnothing 1,0$ m (3,3 ft) ring = $\varnothing 1,5$ -2,0 m (4,9-6,5 ft)
- $\varnothing 1,5$ m (4,9 ft) ring = $\varnothing 1,9$ -2,5 m (6,2-8,2 ft)
- $\varnothing 2,0$ m (6,5 ft) ring = $\varnothing 2,4$ -3,0m (7,9-9,8 ft)

Aqua Spine Circular Power Head

Designed for work on pillars and columns.

- $\varnothing 1,0$ m (3,3 ft) ring = $\varnothing 0,1$ -0,7 m (0,3-2,3 ft)
- $\varnothing 1,5$ m (4,9 ft) ring = $\varnothing 0,6$ -1,2 m (2,0-3,9 ft)
- $\varnothing 2,0$ m (6,5 ft) ring = $\varnothing 1,1$ -1,7 m (3,6-5,6 ft)

Hydraulic Pillar Clamp

Designed to securely anchor the system around pillars or columns.

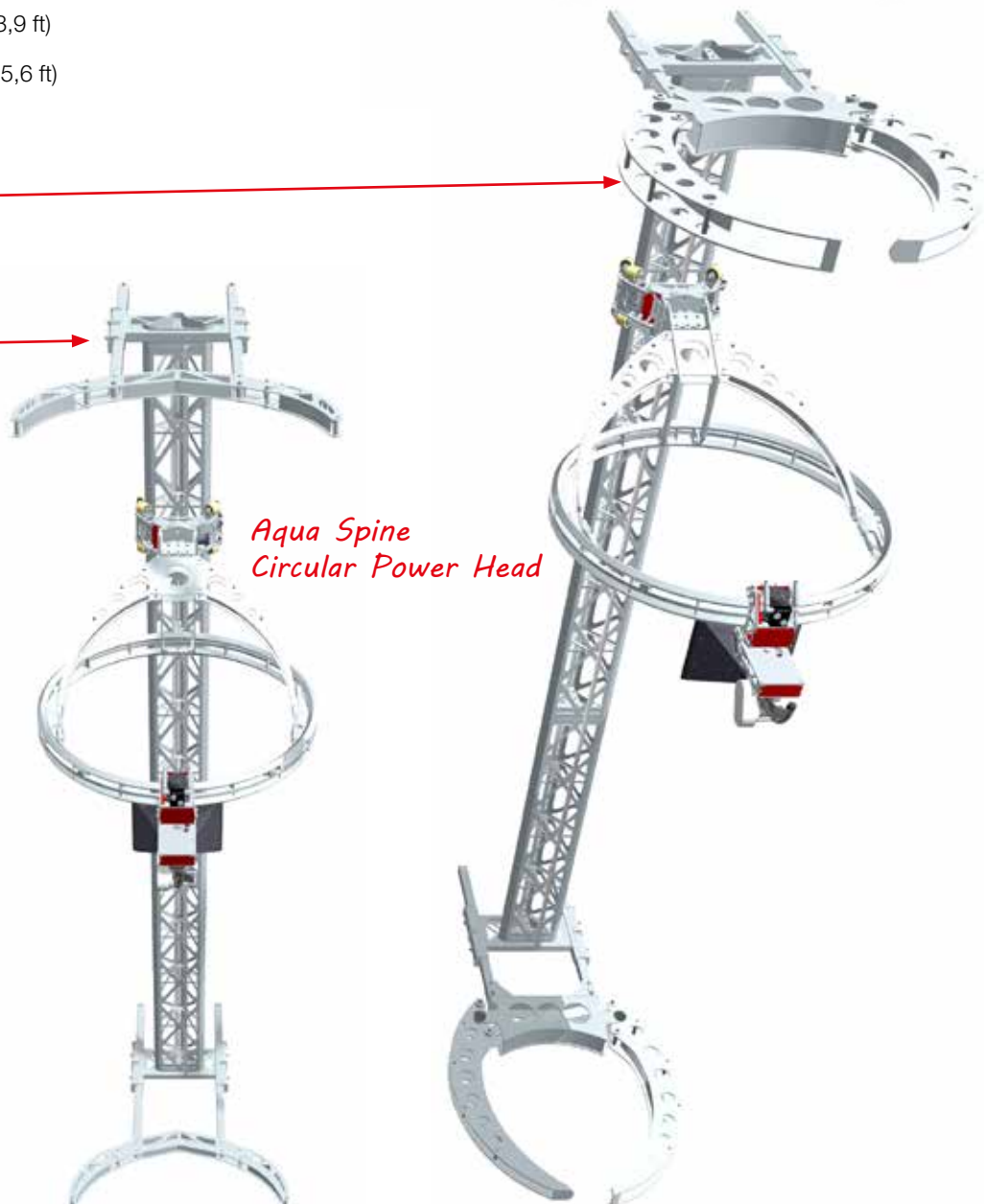
Manual Pillar Clamp

Designed to securely anchor the system around pillars or columns.

Aqua Centralizer



Aqua Spine Circular Power Head



Aqua Spine 3.0

HYDRODEMOLITION SYSTEM

RINGS / RADIUSSES UP TO 1000N

Designed for work in tunnels or on pillars, easily attached to the Aqua Spine system.

- Custom-built with selectable radius and arc length.
- Combinable mount for both internal/external work on curved surfaces, with CC 80mm standard holes.

Ergo Power Head / Ergo Rotolance

For hydrodemolition and surface preparation on curved surface.

Ergo Centralizer

Designed for pipe and tunnel systems.

Working diameter:

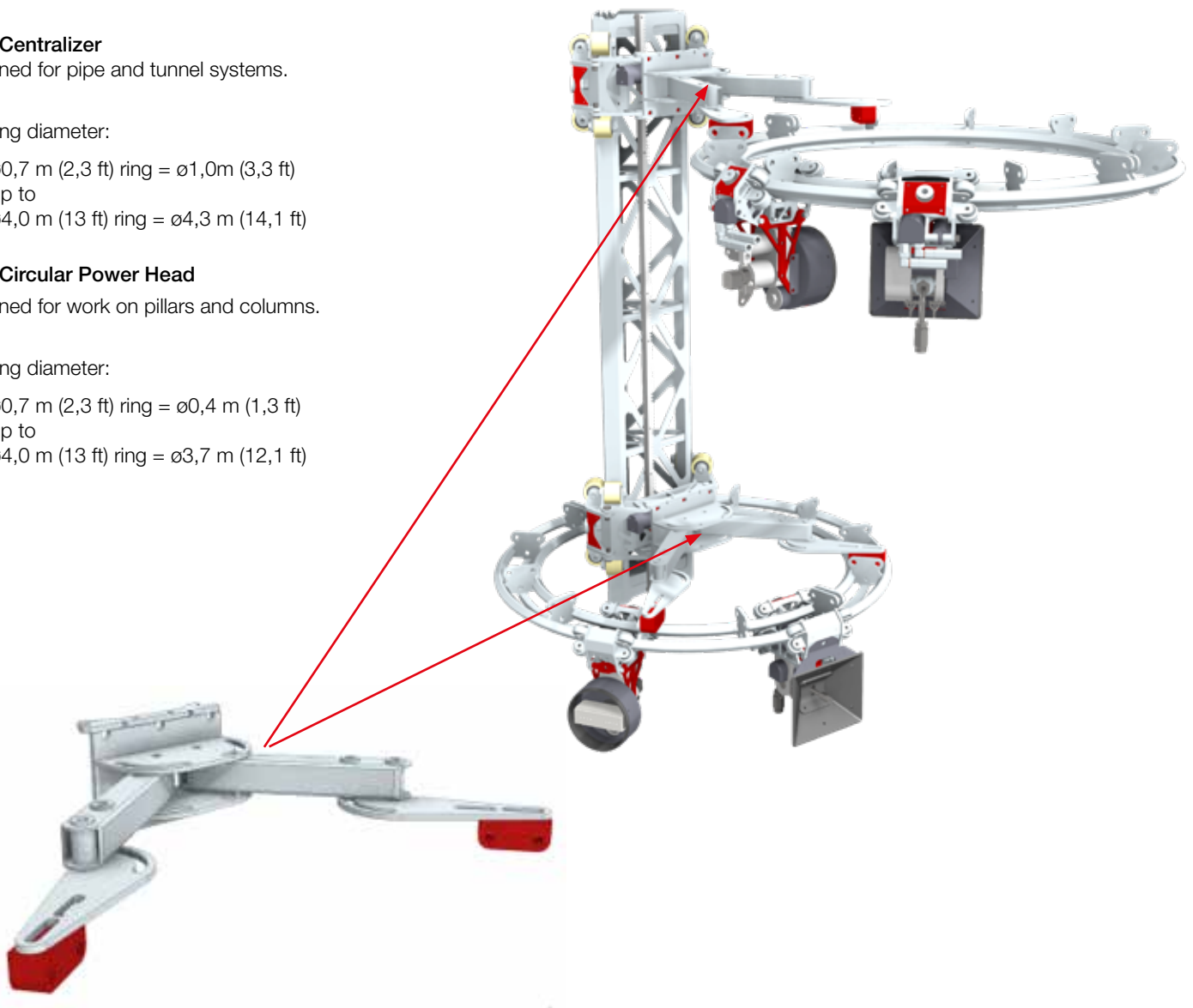
- $\varnothing 0,7$ m (2,3 ft) ring = $\varnothing 1,0$ m (3,3 ft)
up to
 $\varnothing 4,0$ m (13 ft) ring = $\varnothing 4,3$ m (14,1 ft)

Ergo Circular Power Head

Designed for work on pillars and columns.

Working diameter:

- $\varnothing 0,7$ m (2,3 ft) ring = $\varnothing 0,4$ m (1,3 ft)
up to
 $\varnothing 4,0$ m (13 ft) ring = $\varnothing 3,7$ m (12,1 ft)



Aqua Spine 3.0

SUPPORT SYSTEM

Aquajet's new Support System is designed to deliver even more flexibility and stability when working with the Aqua Spine 3.0 or the Ergo, offering a customizable solution that adapts to the specific demands of each job.

The system consists of support legs, brackets and joints that are easily adjustable in both height and angle, and can be assembled to allow the Aqua Spine to rotate 360 degrees — either manually or hydraulically. The Support System uses interchangeable CC80 hole pattern and M16 screws, enabling quick reconfiguration from one project to the next.

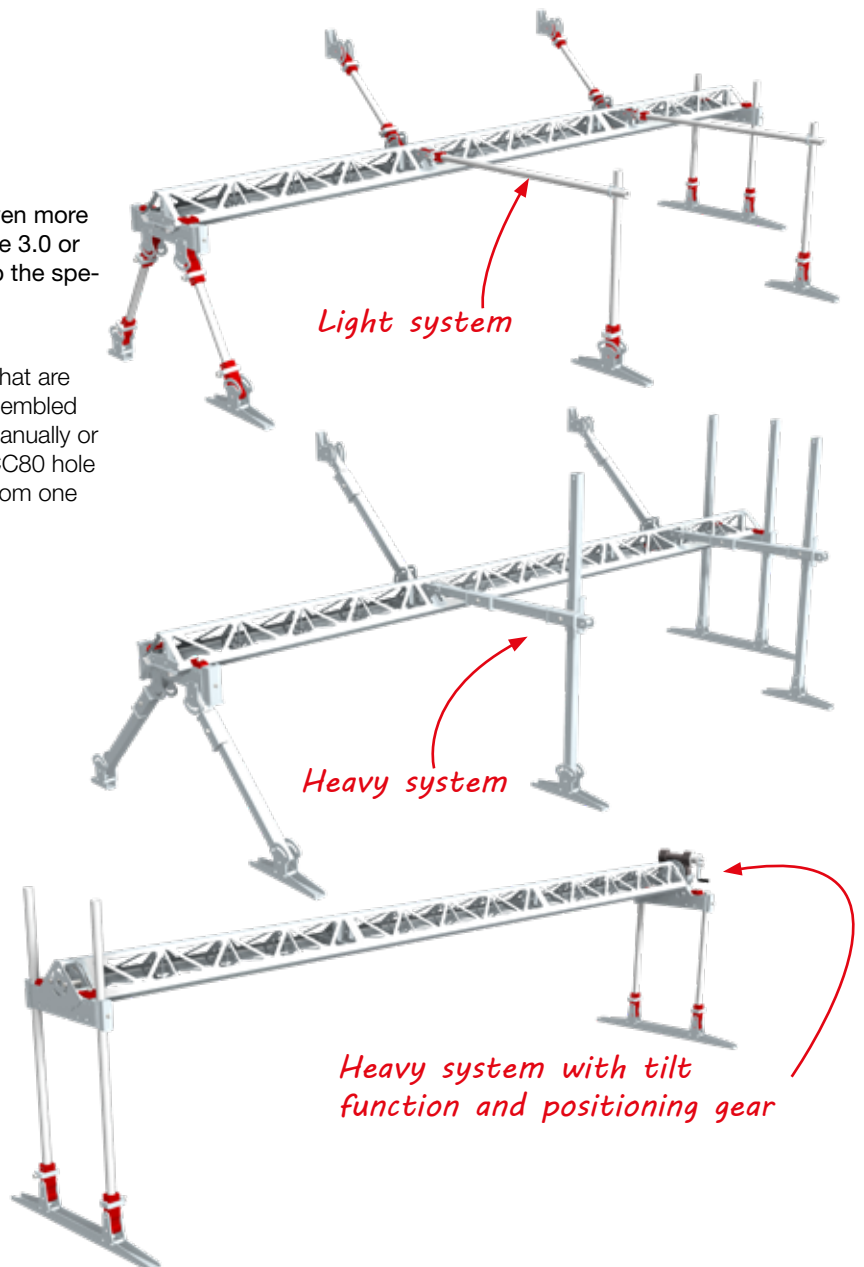
Support System Light

- Standard scaffolding pipes, $\varnothing 48$ mm.
- Handles reaction forces up to 1000N.
- Comes in a version that includes a tilt function with positioning gear.

Support System Heavy

- Handles reaction forces up to 3000N.
- Comes in a version that includes a tilt function with positioning gear.

Both systems can be combined.



SUPPORT LEG SYSTEM

- Standard CC 80 mm holes.
- M16x100 screws.

Gable mount Heavy



Gable mount Light



Support legs Heavy



Adapter plates



Cross mount Heavy



Support legs Light



Feets



Center mount Light



Center mount Heavy



Tilt mount



Ergo Climber 3.0

HYDRODEMOLITION SYSTEM

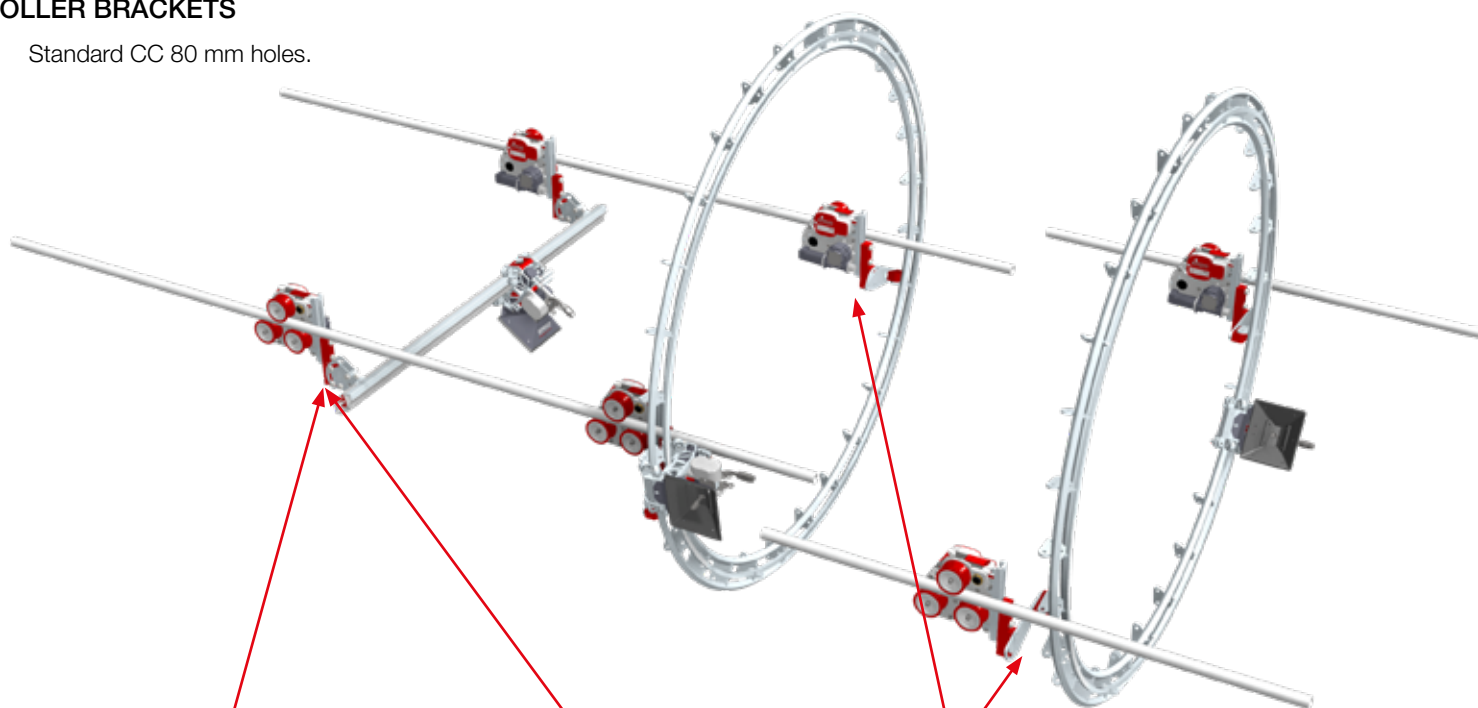
NEW TENSION SCREW

- Handles curved scaffold tubes down to a radius of 300 mm.
- Handles pipe diameter 45-55 mm.
- Fixed clamping dimension 60 mm.



ROLLER BRACKETS

- Standard CC 80 mm holes.



Adjustable height

Adjustable height + angle

Curved Roller beam

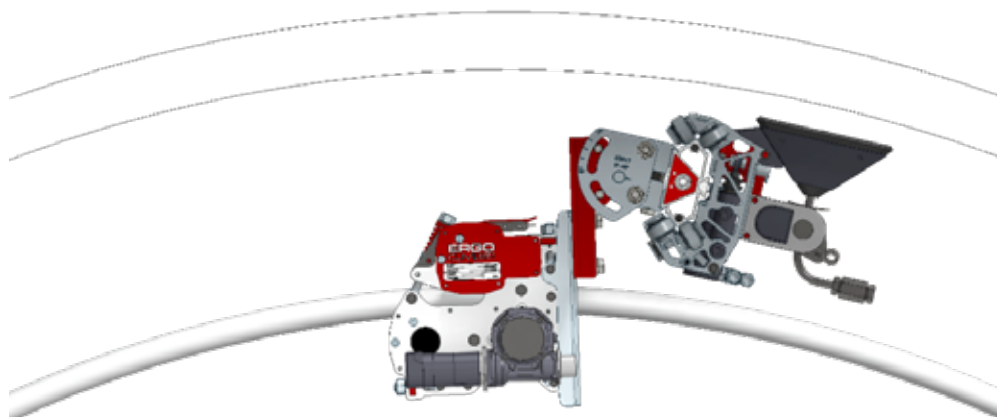


Ergo Climber 3.0

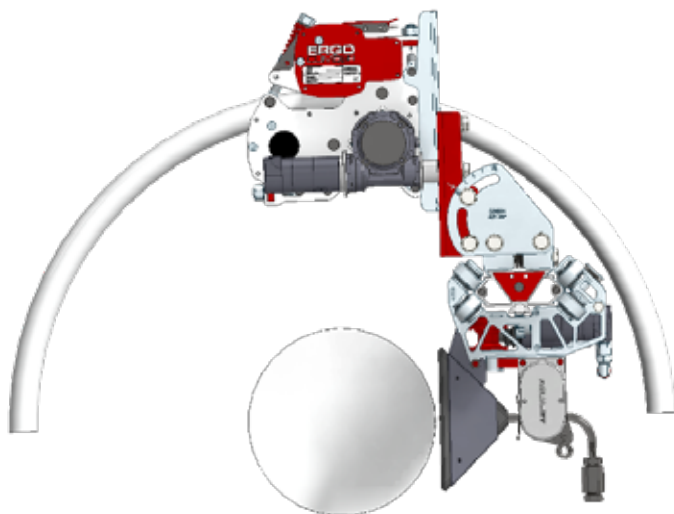
HYDRODEMOLITION SYSTEM

CURVED SCAFFOLDING PIPES

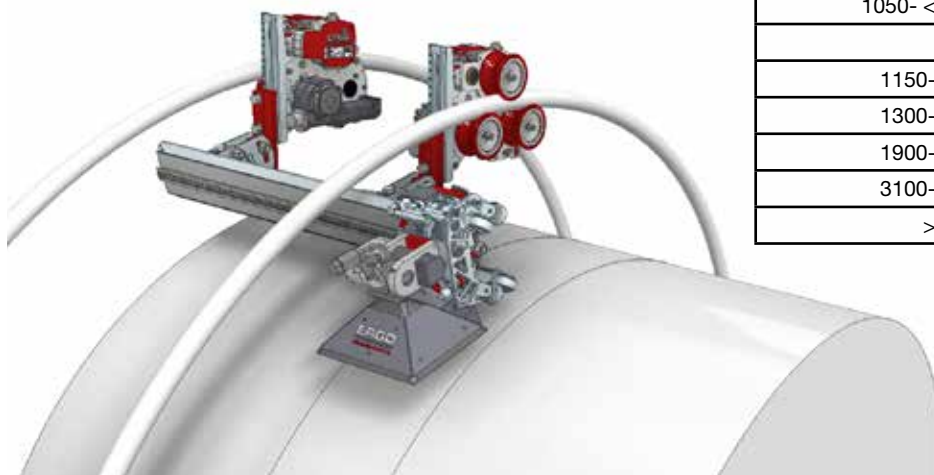
- Tunnels down to $\varnothing 1500$ mm.
- Pillars down to $\varnothing 320$ mm.



Tunnel diameter (mm)	Angle of protractor	Height adjustment (mm)
1460-1750	45°	330-425
1750-2500	30°-45°	330-335
2500-3700	20°-30°	330-335
3700-7100	10°-20°	330-335
> 7100	0°-10°	330-335



Pillar diameter (mm)	Angle of protractor	Height adjustment (mm)
320-450	80°-90°	365-375
450-600	70°-80°	375-385
600-800	60°-70°	385-390
800-1050	50°-60°	390-395
1050- <1150	45°-50°	395-400
*	*	*
1150-1300	40°-45°	380-385
1300-1900	30°-40°	385-390
1900-3100	20°-30°	390-395
3100-6500	10°-20°	390-395
>6500	0°-10°	390-395



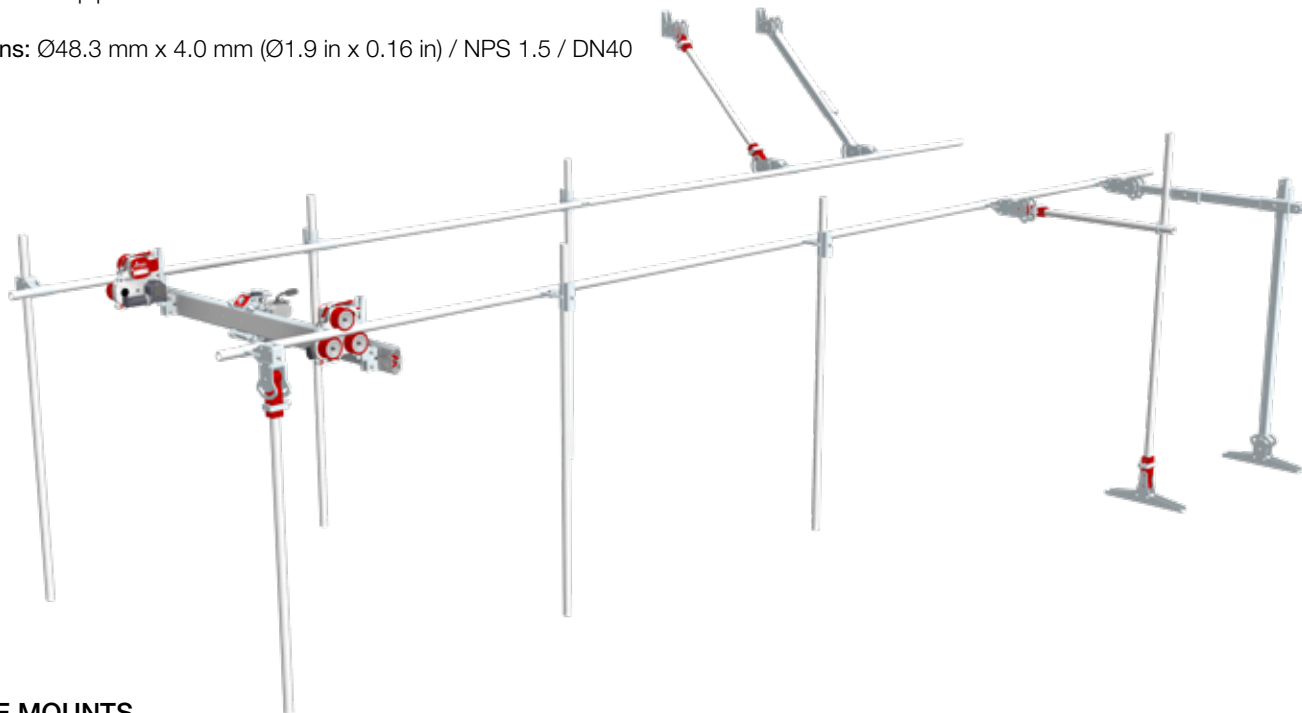
Ergo Climber 3.0

SUPPORT SYSTEM

SUPPORT SYSTEM SCAFFOLDING

The new Support System for scaffolding setups enables the construction of infinitely long frames using traversable mounts, allowing the Ergo Climber 3.0 to pass over without obstruction. All components are designed to work seamlessly with Aquajet's aluminum pipes.

Pipe specifications: Ø48.3 mm x 4.0 mm (Ø1.9 in x 0.16 in) / NPS 1.5 / DN40



TRAVERSABLE MOUNTS

Mounts that allow the Ergo Climbers to pass over without hindrance.

- Supplement to standard mounts.
- Possibility to build an infinitely long frame.

Internal clamp attachment



External clamp



External multi bracket CC 80 mm



Possible setups

AQUA RAIL SYSTEMS 3.0

The Aqua Rail Systems 3.0 is a complete multi-modular solution and the different setups and combinations possible are basically endless.

FLAT SURFACE SETUPS

Hydrodemolition work on flat surfaces, such as a wall, roof, under a bridge or similar, can easily be done with either the Aqua Spine or Ergo climber solution. It all depends on what type of flat surface work has to be done.



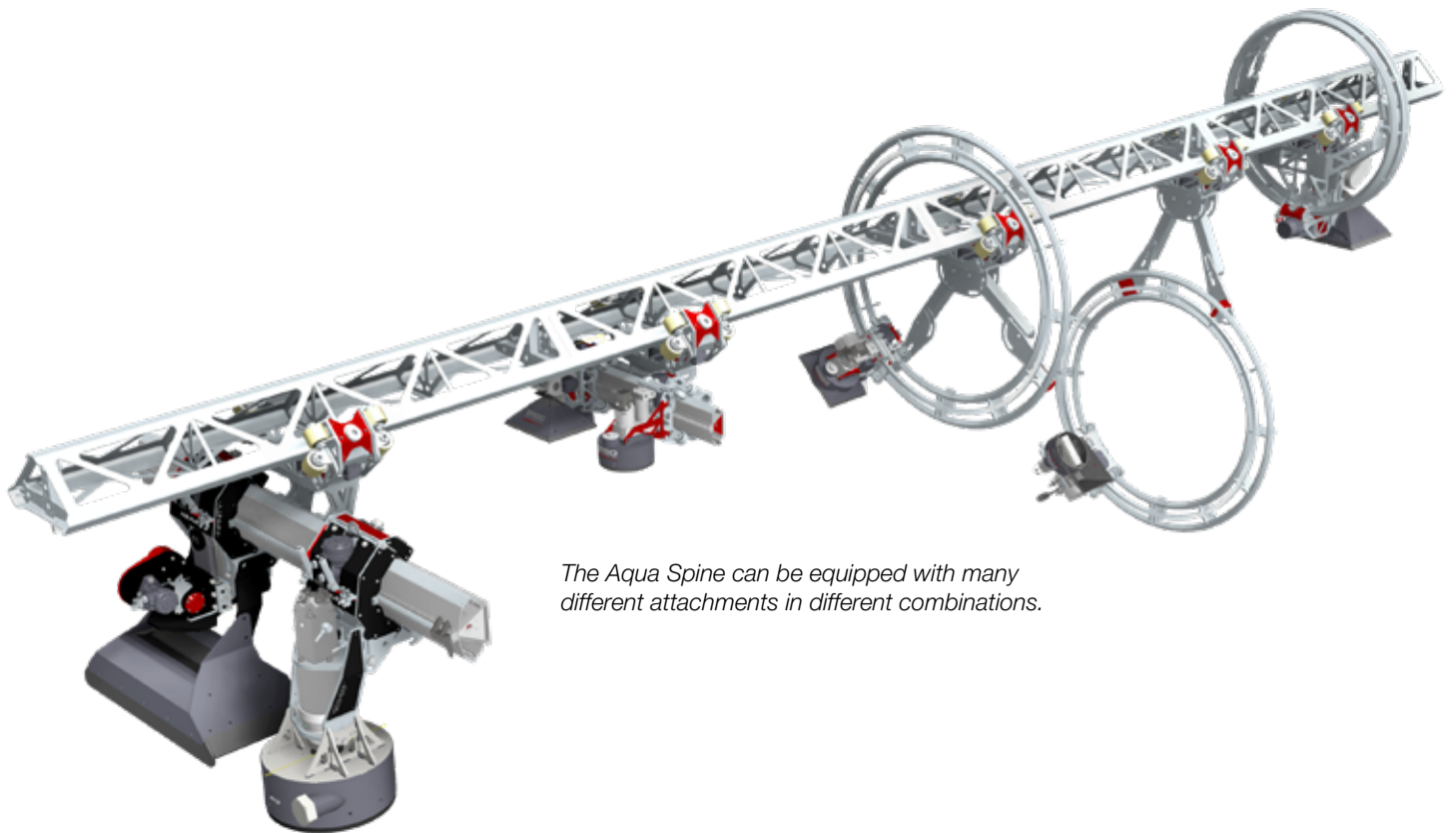
Support System Scaffolding with the Ergo Climber 3.0 is designed to withstand reaction forces of up to 1000N. Featuring traversable mounts, this setup allows Ergo Climbers to move seamlessly past the support legs, ensuring smooth and efficient operation.



A flat surface setup with the heavy version of the Support System. This setup handles greater reaction forces (up to 3000N) with ease, perfect for setups with the Aqua Cutter 750V Power Head. This versatile system can be easily mounted on horizontal, vertical, or overhead surfaces, ensuring stability and efficiency in various applications.



The new Aqua Spine 3.0 with the **Light version of the Support system**, perfect for work with the Ergo Power head and handles reaction forces up to 1000N. The support legs are light, adjustable and easily attached to any horizontal, vertical or overhead surface.



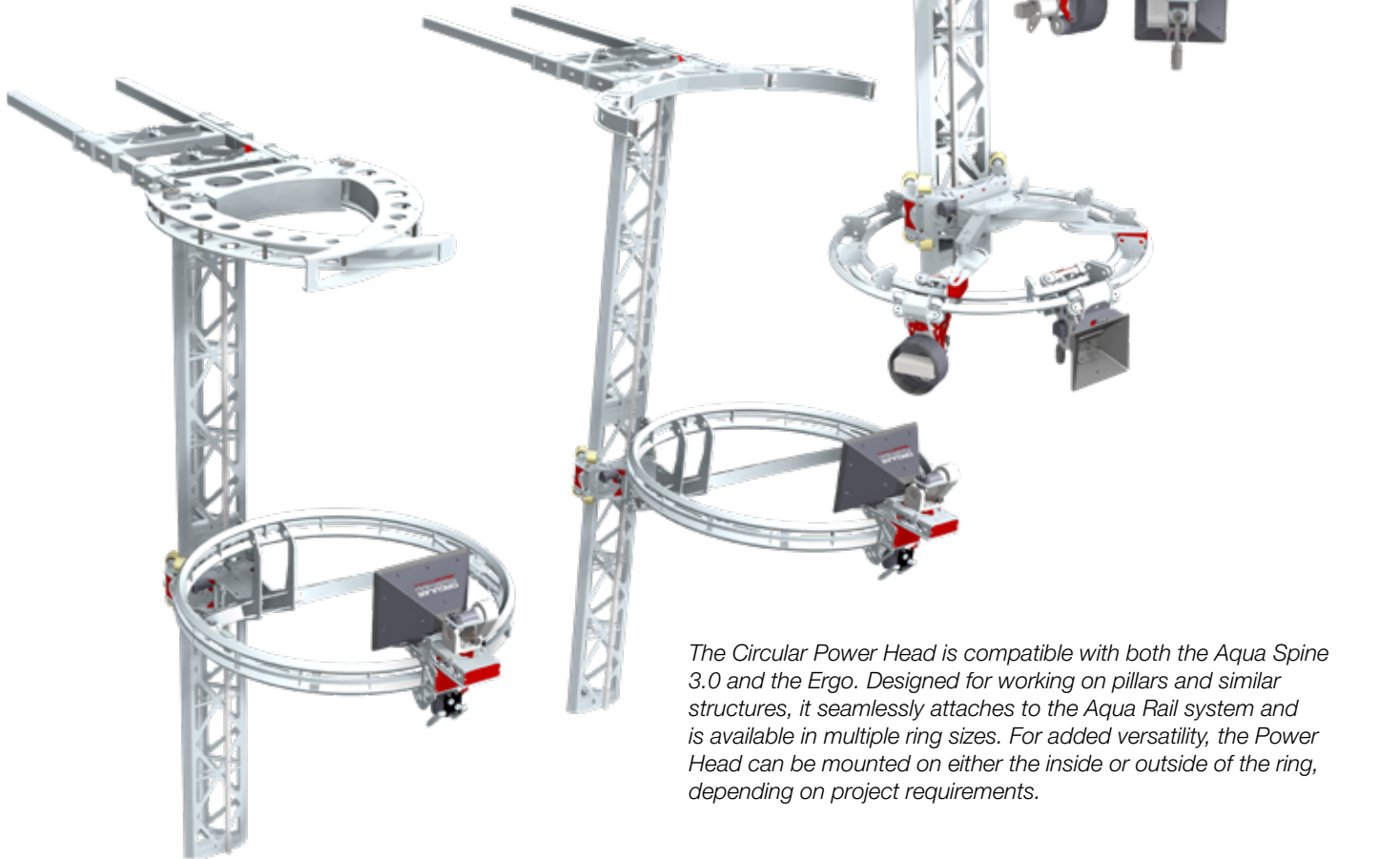
The Aqua Spine can be equipped with many different attachments in different combinations.

Possible setups

AQUA RAIL SYSTEMS 3.0

CIRCULAR OR CURVED SETUPS

For circular hydrodemolition projects, such as pillars and tunnels, there are several setup options. You can use the Aqua Spine or Ergo Climbers as a base, combined with the Circular Power Head for pillars and columns or a Centralizer, which is specifically designed for work inside pipes and tunnels. For curved or circular surfaces, a curved roller beam or curved scaffolding pipes provide additional flexibility, ensuring precise and efficient operation.



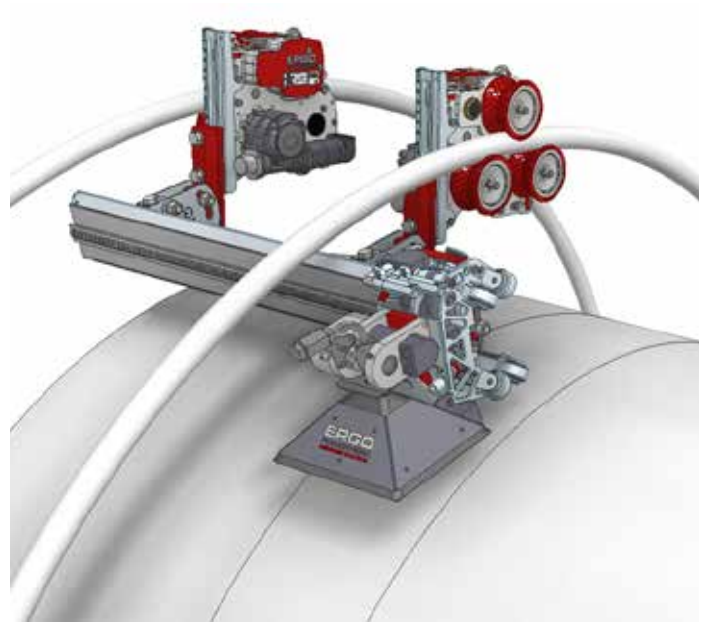
The Circular Power Head is compatible with both the Aqua Spine 3.0 and the Ergo. Designed for working on pillars and similar structures, it seamlessly attaches to the Aqua Rail system and is available in multiple ring sizes. For added versatility, the Power Head can be mounted on either the inside or outside of the ring, depending on project requirements.



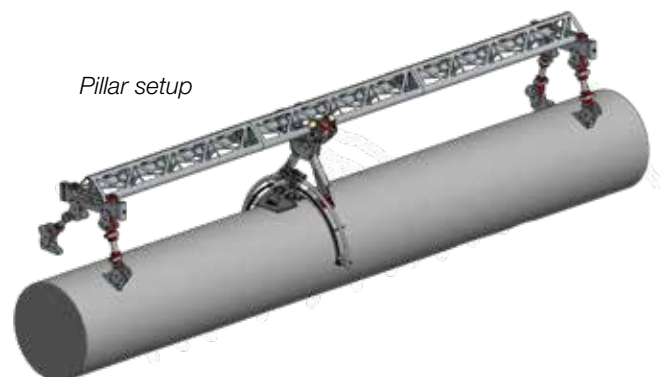
The Aqua Centralizer, designed for work in tunnels or pipes. Compatible with different types of power sources and Power Heads.



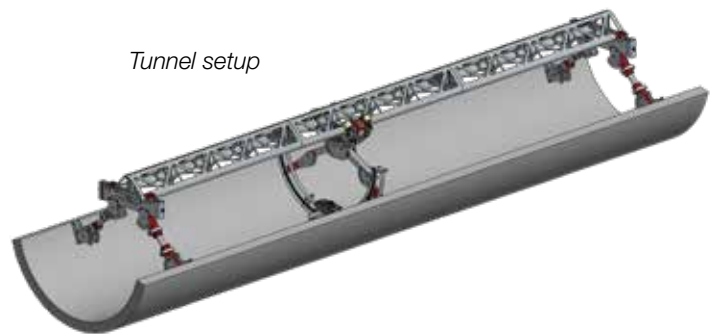
A pipe setup with an Ergo Climber combination.



For circular Hydrodemolition, such as pillars and tunnels, the Aqua Spine 3.0 with a curved roller beam makes usually challenging applications seamless. Or why not use the Ergo Climbers on curved scaffolding pipes?



Pillar setup



Tunnel setup



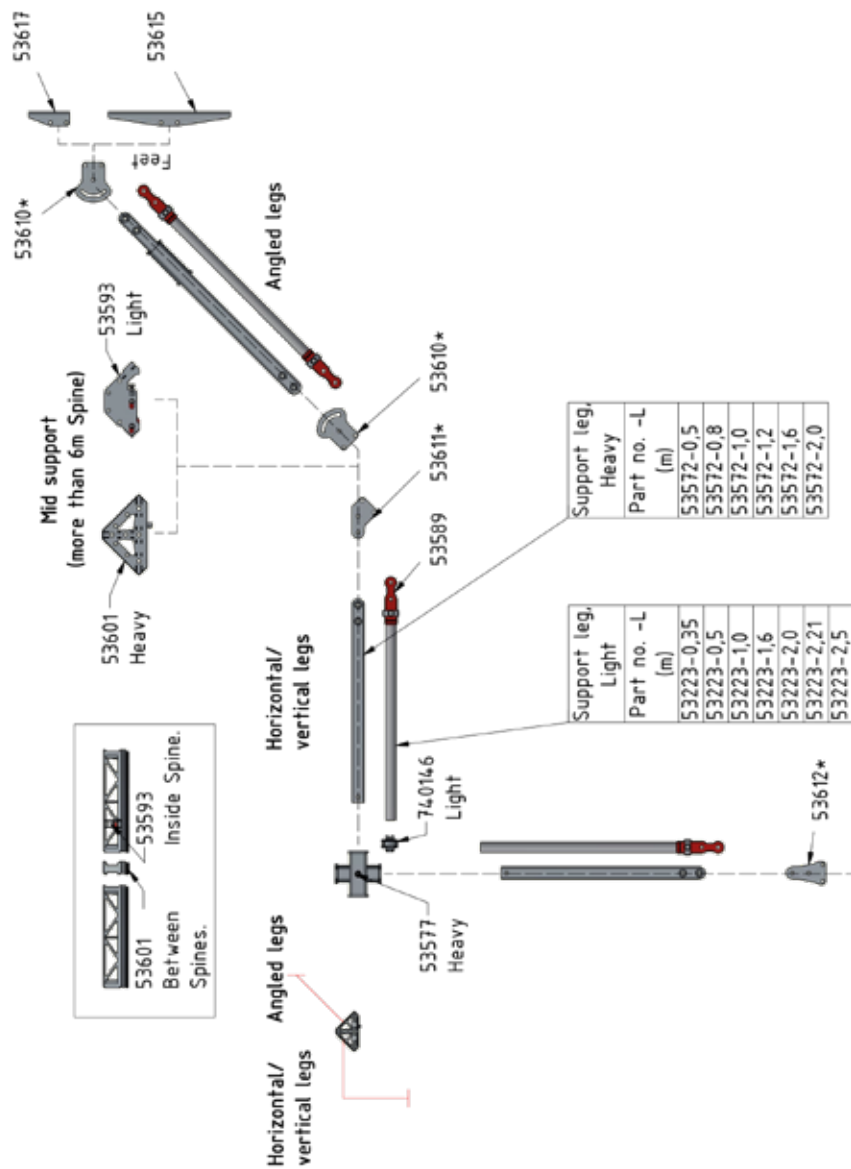
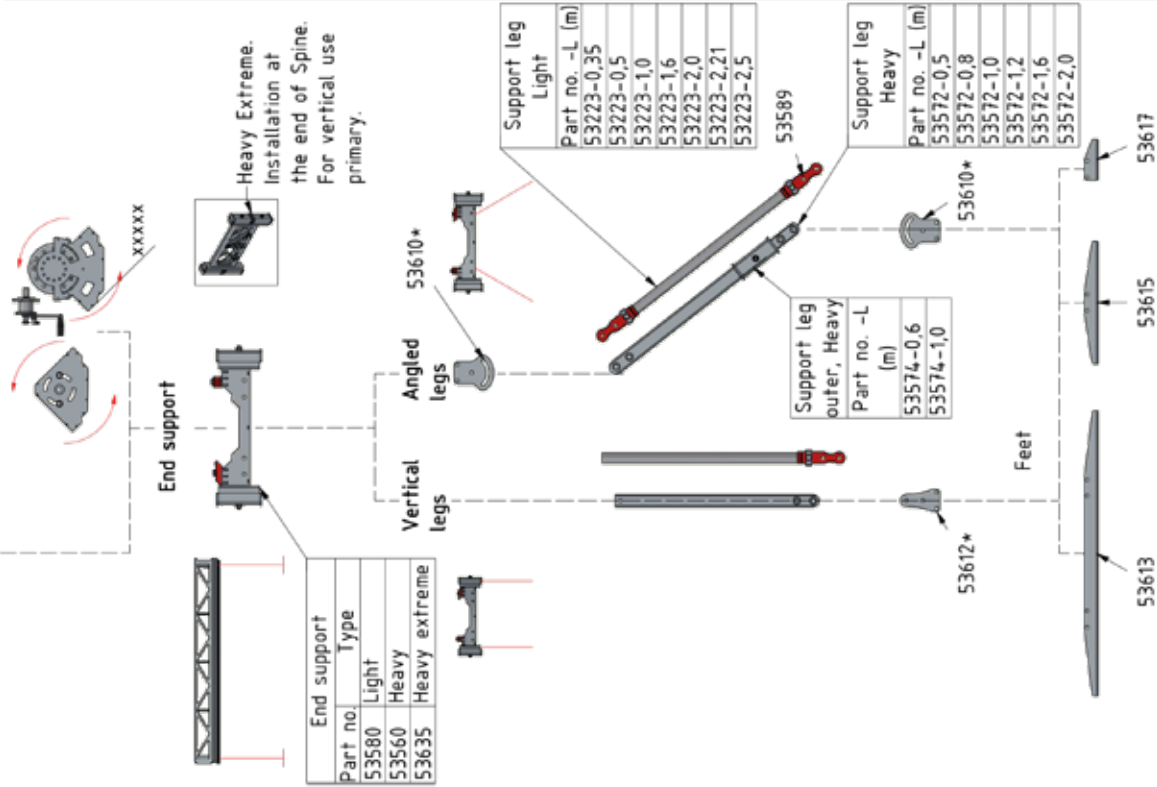
The Aqua Rail System 3.0 is a complete solution and includes the Aqua Spine 3.0, Ergo climber 3.0 and Support elements for all imaginable situations.



The updated Ergo Climber 3.0 attaches and moves along standard or curved scaffolding pipes. The new light Support System with traversable joints, that allow the Ergo Climbers to pass over without hindrance, makes it easier than ever to perform powerful Hydrodemolition work.

SUPPORT SYSTEM SETUP AQUA SPINE

NON ROTATED SPINE ROTATED SPINE



* Mounting plate included

Det.-nr. Konstr.	Ant. Riad	Kontr.	Benämning / Titel Godk.	Skala SE	Material General tolerances General yst- ISO 2768/13920 Jämhöhet, R _z	Dimension Ytbehandling	Arm / Rättn nr
53613				1 : 25			
53615							
53617							

Chart support system setup
Spine

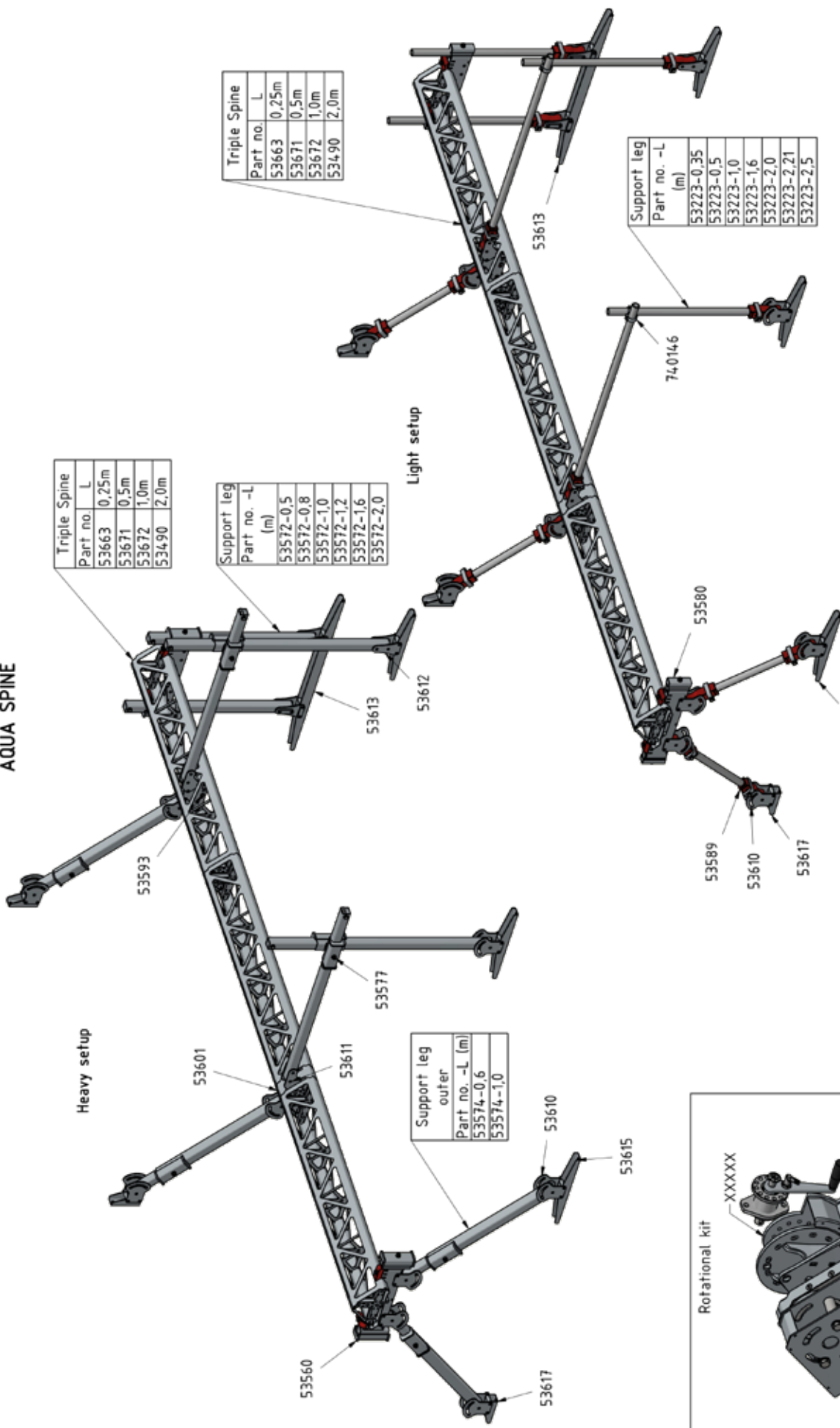
AQUAJET

Ättnr
73027

Datum
2024-11-06

Rev
73027-2 B

SUPPORT SYSTEM SETUP
AQUA SPINE



Triple Spine	
Part no.	L
53663	0,25m
53671	0,5m
53672	1,0m
53490	2,0m

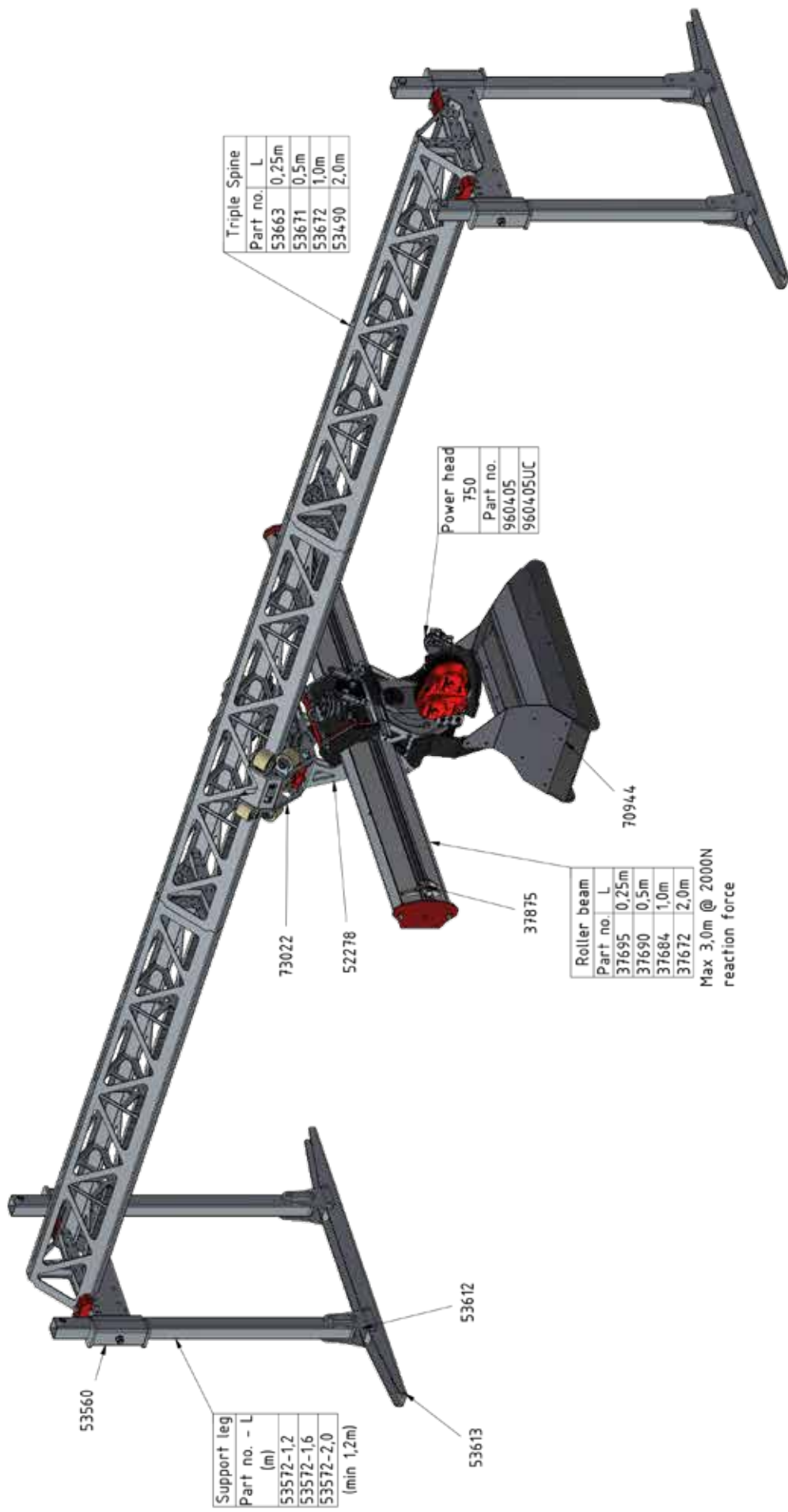
Support leg	
Part no. -L	(m)
53572-0,5	
53572-0,8	
53572-1,0	
53572-1,2	
53572-1,6	
53572-2,0	

Triple Spine	
Part no.	L
53663	0,25m
53671	0,5m
53672	1,0m
53490	2,0m

Support leg	
Part no. -L	(m)
53223-0,35	
53223-0,5	
53223-1,0	
53223-1,6	
53223-2,0	
53223-2,21	
53223-2,5	

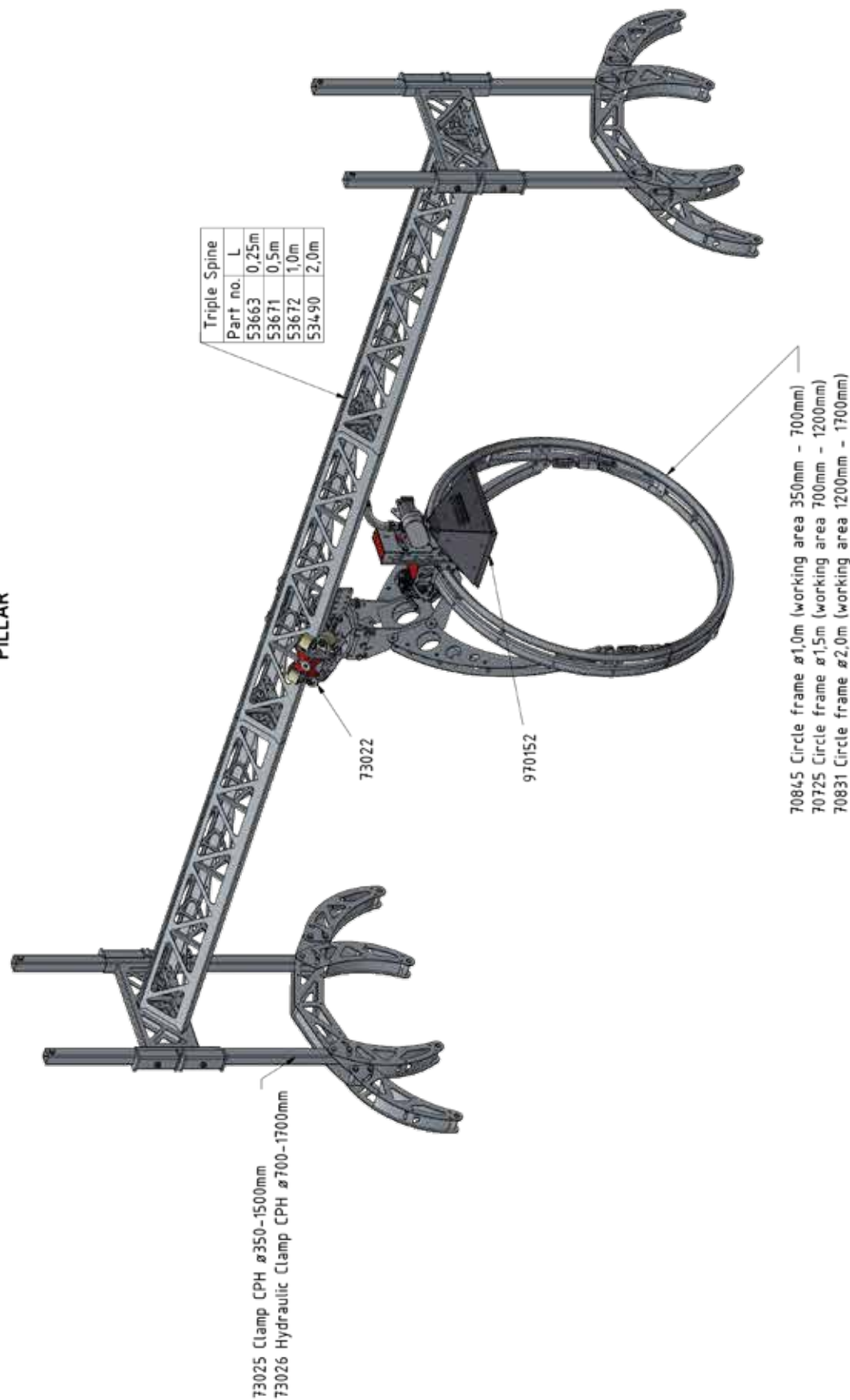
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Konstr.		Risad	Godk.		General tolerances ISO 2768/13920	General ut- mått		Yrkehandling							
JR			RH		Skala	1 : 25									
Support system setup Spine															
AQUAJET															
Diel.-nr		Ant.	Benämning / Titel		Material	Dimension		Arm / Rör nr							
Konstr.		Risad	Godk.		General tolerances ISO 2768/13920	General ut- mått		Yrkehandling							
JR			RH		Skala	1 : 25									
Support system setup Spine															
AQUAJET															
Diel.-nr		Ant.	Benämning / Titel		Material	Dimension		Arm / Rör nr							
Konstr.		Risad	Godk.		General tolerances ISO 2768/13920	General ut- mått		Yrkehandling							
JR			RH		Skala	1 : 25									
Support system setup Spine															
AQUAJET															
Diel.-nr		Ant.	Benämning / Titel		Material	Dimension		Arm / Rör nr							
Konstr.		Risad	Godk.		General tolerances ISO 2768/13920	General ut- mått		Yrkehandling							
JR			RH		Skala	1 : 25									
Support system setup Spine															
AQUAJET															
Diel.-nr		Ant.	Benämning / Titel		Material	Dimension		Arm / Rör nr							
Konstr.		Risad	Godk.		General tolerances ISO 2768/13920	General ut- mått		Yrkehandling							
JR			RH		Skala	1 : 25									
Support system setup Spine															
AQUAJET															
Diel.-nr		Ant.	Benämning / Titel		Material	Dimension		Arm / Rör nr							
Konstr.		Risad	Godk.		General tolerances ISO 2768/13920	General ut- mått		Yrkehandling							
JR			RH		Skala	1 : 25									
Support system setup Spine															
AQUAJET															

LINED HYDRODEMOLITION, HEAVY SYSTEM, 750



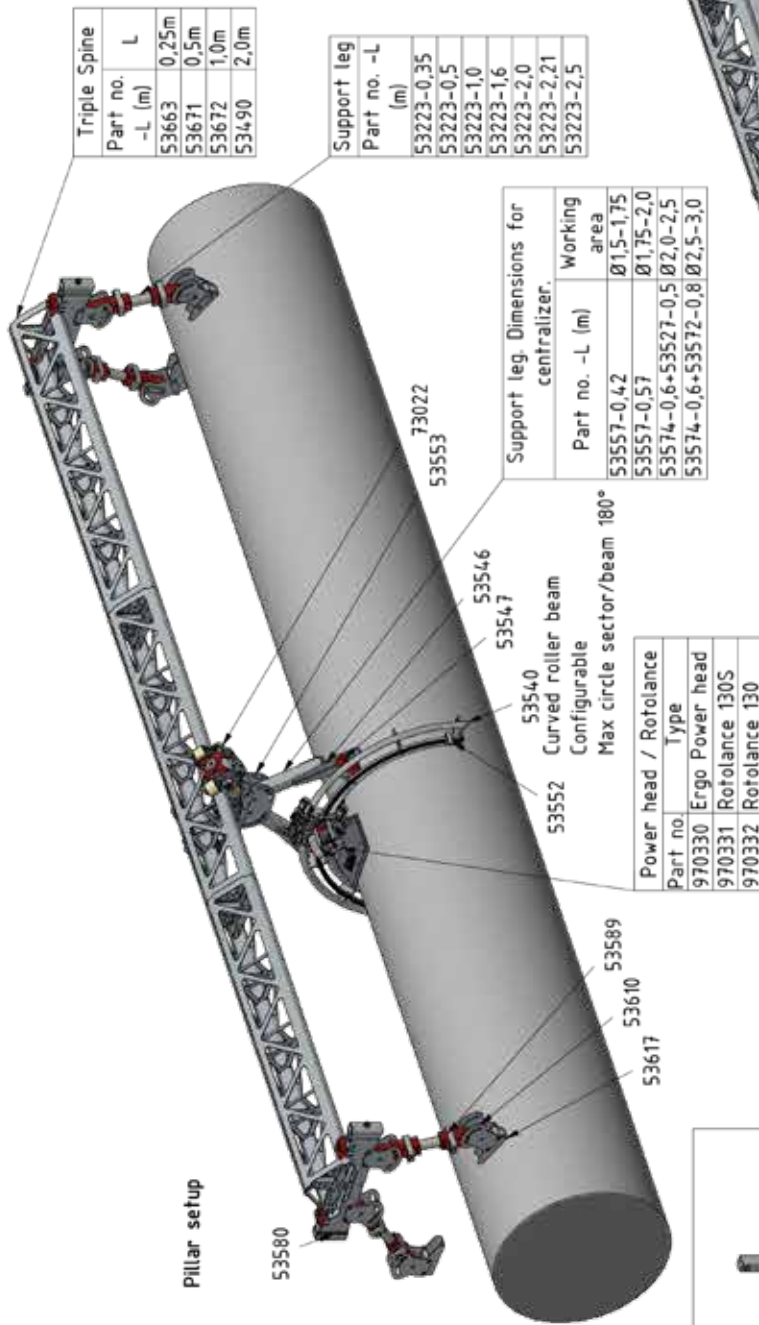
Det.-nr Konstr.	Ant. Riss	Kont.	Benämning / Titel Gödc.	Skala 1 : 15	Material Generell teknisk General yt. ISO 2768/13920 Jämförelse, R _g	Dimension General yt. Vyröacering	Arm / Rör nr Yröacering
	JR	RH	SE				
AQUAJET				Lined hydrodemolition Heavy system 750			
				Art.nr 73027	Datum 2024-10-24	Rev 73027-5 A	

CIRCULAR HYDRODEMOLITION SETUP HEAVY SYSTEM
PILLAR

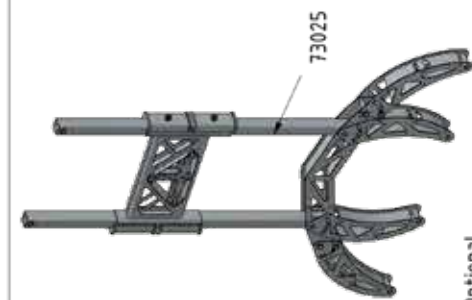
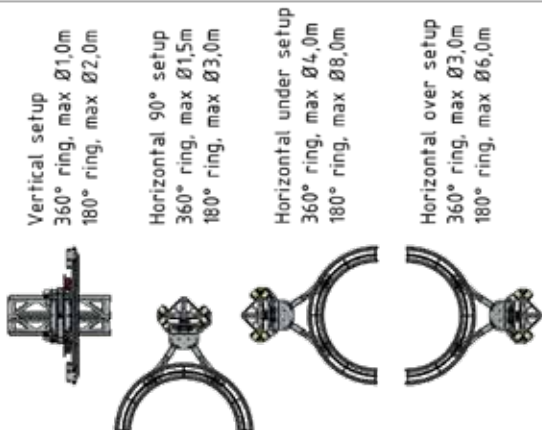


Det.-nr Kompl.	Ant. Röad	Benämning / Titel Godk.	Material Genomförda ISO 2768/13920	Dimension Genomförda Jämförat, R _g	Arm / Rör nr Yrkshandling
RH	JR	Kont. RH	Skala 1 : 20		
Circular Power Head Aqua Spine 3.0					
AGUAJET					
Datum 73027					2024-10-10
Revis 73027-7 A					

CIRCULAR HYDRODEMOLITION SETUP LIGHT SYSTEM PILLAR & TUNNEL



Curved beam limitations Pillar.
Smallest size Ø0,7m (beam centre diameter)



Optional.
Pillar setup also possible with manual clamp. (73025) See CPH setup Heavy system.
Pillar diameter Ø0,35-1,5m.



Optional.
Tunnel setup also possible with Centralizer end carrier. (XXXXX) See Tunnel setup Heavy system.
Tunnel diameter from 1,5-3m

Del.-nr	Ant.	Benämning / Titel	Material	Dimension	Arm / Rtn nr
Konstr.	Risad	Konstr.	General tolerances General vt. ISO 2768/13920	Vibracoring	
JR	RH	SE	Skala 1 : 25		
Circular hydrodemolition Light system Pillar & Tunnel					
AGUAJET					
73027					
2024-11-12					
73027-8 A					

HYDRODEMOLITION SETUP ERGO CLIMBER

LINED HYDRODEMOLITION

CIRCULAR HYDRODEMOLITION

Pillar & Tunnel

73018 73017

Curved roller beam

53515 53548 53546 53547*

Bent aluminium pipe

53642-R-8 Configurable

53552 Mechanical stop curved beam

53540-U/I-R Curved Roller Beam Configurable

Max circle sector/beam 180°

Ergo roller beam

Part no. L

53063 0,25m 53060 0,5m 53055 1,0m 53450 2,2m

53515 Angle and height adjustable beam bracket

53501 Height adjustable beam bracket

53421 Beam Bracket

53422 Beam Bracket low

Curved beam limitations

Smallest size Ø0,7m. (beam centre diameter)

Vertical setup 360° ring, max Ø1,0m 180° ring, max Ø2,0m

Horizontal 90° setup 360° ring, max Ø1,5m 180° ring, max Ø3,0m

Horizontal under setup 360° ring, max Ø4,0m 180° ring, max Ø8,0m

Horizontal over setup 360° ring, max Ø3,0m 180° ring, max Ø6,0m

Bent aluminium pipe limitations

Pillar, smallest pipe radius 545mm (working area Ø0,32m)

Tunnel, smallest pipe radius 300mm (working area 1,5m)

Tunnel setup

Pillar setup

Rotolance Ergo

Part no. Type

970331 Rotolance 130S 970332 Rotolance 130

Power head 970330

Pillar setup

Tunnel setup

Chart hydrodemolition setup Ergo climber

AGUAJET

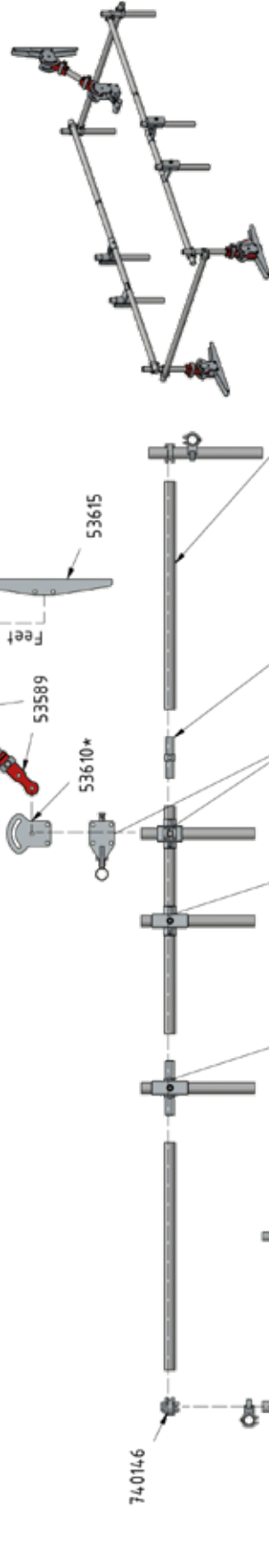
53643 Mounting plate included

73027 73027-3 B

23

SUPPORT SYSTEM SETUP ERGO CLIMBER

LINED HYDRODEMOLITION



OPTIONAL JOINTS

740146
Cross joint
Fixed

740244
Cross joint
Rotatable

53536
Mid support
internal
installation,
between pipes

53518
Mid support
outer
installation

53530
Mid support
Outer installation.
For angle legs.
Add brackets.

740147
Pipe joint.
No support

Add Mid support if setup is longer than 2m.

CIRCULAR HYDRODEMOLITION Pillar & Tunnel

53642-r-θ
Configurable

Bent aluminium pipe limitations
Pillar, smallest pipe radius
545mm (working area Ø0,32m)
Tunnel, smallest pipe radius
300mm (working area 1,5m)

Support leg	Part no. -L	(m)
53223-0,35		
53223-0,5		
53223-1,0		
53223-1,6		
53223-2,0		
53223-2,21		
53223-2,5		

53643

* Mounting plate included

Pillar setup

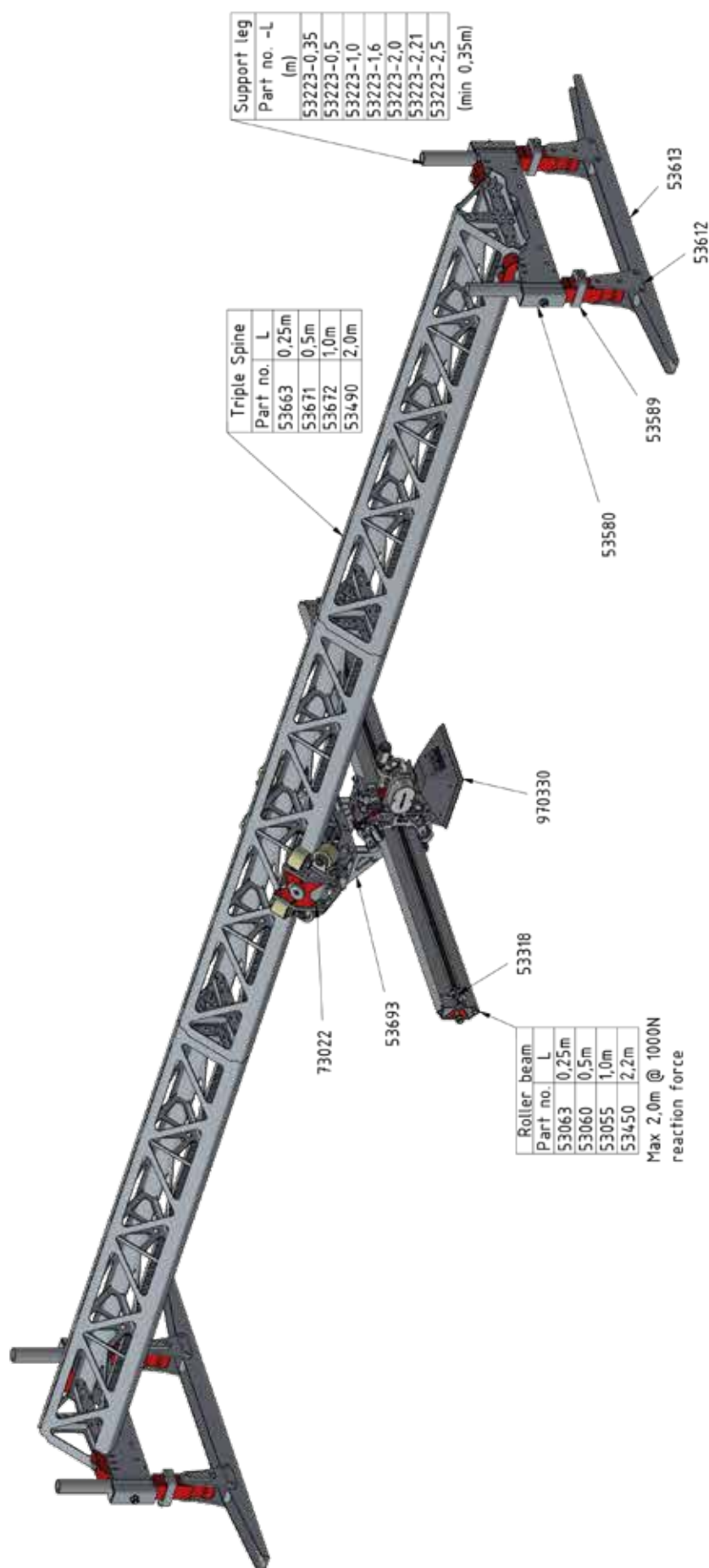
Tunnel setup



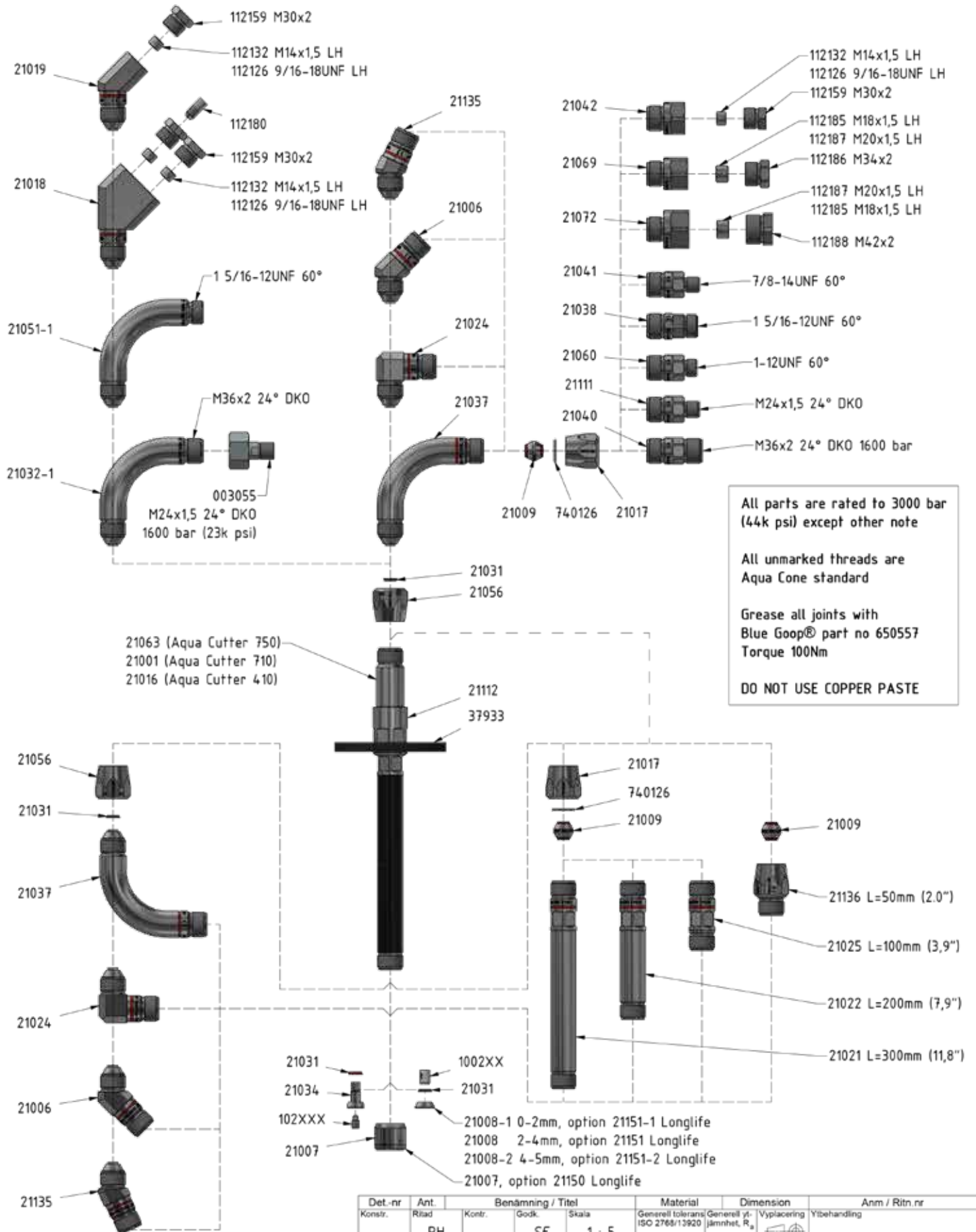
Det.-nr. Konstr.	Ant. Stück	Kontr.	Benennung / Teil Gdsk.	Skala SE	Material General tolerances ISO 2768/13920	Dimension General tolerances ISO 2768/13920	Arm / Rdm nr Yibehandling
JR	RH	SE	1 : 20				
Chart support system setup Ergo Climber							
AQUAJET							
Art.nr 73027	Datum 2024-11-06	Rev 73027-4 B					

Installation of the Circular hydrodemolition system at the work object is adapted at each the workplace by the customer.

LINEA HYDRODEMOLITION, LIGHT SYSTEM, ERGO

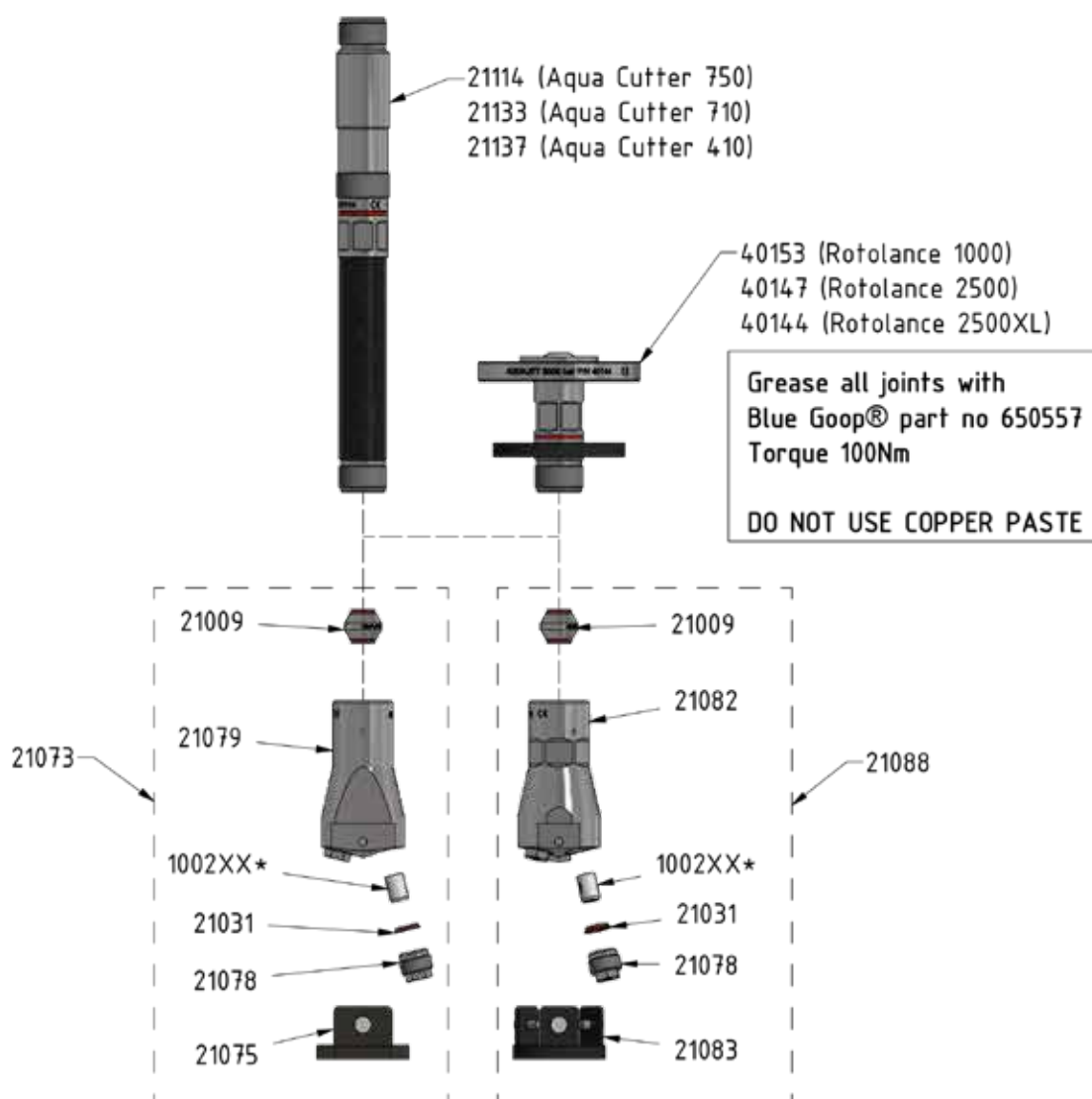
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Super Lance System



Det-nr	Ant.	Benämning / Titel		Material	Dimension	Anm / Ritn.nr
Konstr.	Ritad	Konstr.	Godk.	Skala	Generell tolerans ISO 2768/13920 Generell yt- jämnhet, R _a	Ytbehandling
	RH		SE	1 : 5		
AQUAJET						
Superlans system komplett						Art.nr 70951
Super lance system						Datum 2022-04-20
						Rev. 70951 F

Dual and Triple nozzles



* Nozzle < 0,9 mm = 102xxx + 21154

Det.-nr		Ant.	Benämning / Titel			Material		Dimension		Anm / Ritn.nr			
Konstr.	Ritad		Konstr.	Godk.	Skala	Generell tolerans ISO 2768/13920		Generell yt- jämnhet, R _a		Ytbehandling			
	SE				1 : 5								
AQUAJET			Dubbel och trippeldysa 3000bar								Art.nr		Datum
													2023-10-05
			Översikt Dual and tripple nozzle								Ritn.nr		Rev.
													73003 B

Aqua Spine 3.0

SPECIFICATIONS

Size	AQUA SPINE 3.0	
Length	6000mm (19,7 ft)	With 3x2,0m spine rail
Width	2000mm (78,7 in)	With 2,0m Roller beam
Height	1300mm (51,2 in)	With 45° EDS Power Head
Max working width	3,0m (0-9,8 ft)	
Min width	530mm (20,9 in)	Or same as Roller beam
Min clearance height standard	1300mm (51,2 in)	With 45° EDS Power Head
Max length between supports	6.0 m (19,7 ft)	Longer setup possible with mid supports.
Spine rail sections	0,25/0,5/1,0/2,0	
Roller beam lengths	2,0m (6,6 ft)	Special size and configuration on request
Roller beam extensions	0,25/0,5/1,0 (0,8/1,6/3,3ft)	
Lance angle	±45°	With 45° EDS Power Head
Oscillation step 1	0-14,5° / 0-110mm (0-4,33 in)	With 45° EDS Power Head
Oscillation step 2	0-6,5° / 0-50mm (0-1,97 in)	With 45° EDS Power Head
Oscillation step 3	N/A	With 45° EDS Power Head
Weight		
Total weight	425 kg (937 lb)	Complete 6,0x2,0m system with power head
45° EDS Power Head	100 kg (220 lb)	
Triple Spine rail section (2.0m)	40kg (88,2 lb)	
Operation		
Max reaction force	2500 N	See reaction force diagrams
Max water depth continious	1m (3,3 ft)	Only fresh water
Max water depth intermittent	10m (33 ft)	Only fresh water
Gears		
Hoist gear oil type	ISO VG320-460	Syntetic
Hoist gear oil volume	0,8 l	
Hydraulic hose extensions		
Max hose extension length	20m (66 ft)	
Max hose extension length larger hose diameter	60m (197 ft)	
Max hose extension length with Rotolance	10m (33 ft)	
Min hydraulic oil operation temp	20°C	
N.B. all speeds will be significant reduced when using hydraulic hose extensions		

Aqua Circular Power Head 3.0

SPECIFICATIONS

Size	Circular Power Head 3.0 Aqua Spine	
Working diameter with ø1,0m ring	ø0,1-0,7m (0,3-2,3 ft)	
Working diameter with ø1,5m ring	ø0,6-1,2m (2,0-3,9 ft)	
Working diameter with ø2,0m ring	ø1,1-1,7m (3,6-5,6 ft)	
Lance angle	±25°	Preset
Oscillation step 1	5° / 26mm (1,0 in)	
Oscillation step 2	9° / 48mm (2,0 in)	
Oscillation step 3	14° / 74mm (2,5 in)	
Lance adjustment in-out	300mm (11,8 in)	To cover different pipe diameter
Offset distance, turnplate / lance	984 mm	
Size Spine		
Length	6000mm (19,7 ft)	With 3x2,0m spine rail
Max length between supports	6.0 m (19,7 ft)	Longer setup possible with mid supports.
Spine rail sections	0,25/0,5/1,0/2,0	
Weight		
CPH hose package	8 kg (18 lb)	
Power Head	54 kg (119 lb)	
Power Head hose package	14 kg (31 lb)	
ø1,0m ring	100 kg (220 lb)	
Total weight with ø1,0m ring	176 kg (388 lb)	
ø1,5m ring	120 kg (265 lb)	
Total weight with ø1,5m ring	196 kg (432 lb)	
ø2,0m ring	150 kg (331 lb)	
Total weight with ø2,0m ring	226 kg (498 lb)	
Triple Spine rail section (2.0m)	40kg (88,2 lb)	
Operation		
Max reaction force	2000 N	See reaction force diagrams
Roller speed AUTO	25 m/min	
Max water depth continuous	1m (3,3 ft)	Only fresh water
Max water depth intermittent	10m (33 ft)	Only fresh water
Hydraulic		
Max hydraulic pressure	200 bar (2900 psi)	
Max hydraulic flow	16 l/min (4.2 gpm)	
Hydraulic oil type	ISO VG32	Mineral
Gears		
Hoist gear oil type	ISO VG320-460	Syntetic
Hoist gear oil volume	0,08 l	

Aqua Centralizer 3.0

SPECIFICATIONS

Size	Aqua Centralizer 3.0	
Working diameter with ø1,0m ring	ø1,5-2,0m (4,9-6,5 ft)	
Working diameter with ø1,5m ring	ø1.9-2,5m (6,2-8,2 ft)	
Working diameter with ø2,0m ring	ø2,4-3,0m (7.9-9,8 ft)	
Max length between supports leg	6,0 m (6,6 ft)	
Spine rail sections	0,25/0,5/1,0/2,0	
Max length on Spine rail outside	1m (3,3 ft)	Spine rail mounted outside support leg with only supported on one side
Lance angle	±25°	
Oscillation step 1	5° / 26mm (1,0 in)	
Oscillation step 2	9° / 48mm (2,0 in)	
Oscillation step 3	14° / 74mm (2,5 in)	
Lance adjustment in-out	300mm (11,8 in)	To cover different pipe diameter
Weight		
Total weight	485 kg (1070 lb)	With ring ø1,5m (4,9 ft) and 3x2m Spine
Total weight	655 kg (1444 lb)	Complete with all rings and 3x2m Spine
Operation		
Max reaction force	2000 N	See reaction force diagrams
Roller speed AUTO	25 m/min (82 ft/min)	
Max water depth continous	1m (3,3 ft)	Only fresh water
Max water depth intermittent	10m (33 ft)	Only fresh water
Hydraulic		
Max hydraulic pressure	160 bar	
Operational hydraulic pressure	110 bar	
Max hydraulic flow total	16 l/min (4,2 gpm)	
Hydraulic oil type	ISO VG32	Mineral
Operation oil temp	20-75° C	
Gears		
Hoist gear oil type	ISO VG320-460	Syntetic
Hoist gear oil volume	0,08 l	

Ergo Climber 3.0

SPECIFICATIONS

Size	ERGO CLIMBER 3.0	
Working width, linear beam	0-2,0 m (0-6,6 ft)	@ 1000N reaction force
Working diameter, Ergo centralizer 360°	ø1,0-4,3m (3,3-14,1 ft)	Varies depending on accessories and assembly. See manual.
Working diameter, Ergo Circular Power Head 360°	ø0,4-3,7m (1,3-12,1 ft)	Varies depending on accessories and assembly. See manual.
Min width	500 mm (19,7 in)	
Min clearance height	320-500 mm (12,6-19,7 in)	Depending on bracket type
Max length between supports	2.0 m (6,6 ft)	Longer setup possible with mid supports. See manual.
Roller beam lengths	0,25/0,5m/1,0m (0,8/1,6/3,3 ft)	
Lance angle	±45°	
Oscillation step 1	8° / 22mm (0,9 in)	
Oscillation step 2	14° / 42mm (1,7 in)	
Scaffolding pipe	ø48,3mm x 4,0mm (ø1,9 in x 0.16 in / NPS 1,5 / DN40)	Min/max ø40-ø55mm (1.6-2,2 in)
Transport boxes	1100x355x400 mm (43,3x14,0x15,7 in)	
Weight		
Total weight	110 kg (242 lb)	Dual spine complete 2x2 m system Triple spine complete 2x6m system
Ergo Power Head	23 kg (51 lb) / 37 kg (82 lb)	Without / With hydraulic hoses
Ergo Climber	22 kg (49 lb)	
Roller beam (1,0m)	9,5 kg (21 lb)	
Ergo Spine Roller	28 kg (62 lb)	
Operation		
Max reaction force Ergo Power head	1000 N	See reaction force diagrams
Max water depth continuous	1m (3,3 ft)	Only roller, fresh water
Max water depth intermittent	10m (33 ft)	Only roller, fresh water
Parallel drive	±2%	
Min radius scaffolding pipe (standard)	2000mm	
Min radius scaffolding pipe (extended)	300mm	Extended tensioning link bolt
Gears		
Hoist gear oil type	ISO VG320-460	Syntetic
Hoist gear oil volume	0,08 l	
Gear housing oil type	ISO VG320-460	Syntetic
Gear housing oil volume	2x 0,04 l	
Hydraulic hose extensions		
Max hose extension length	50 m (164 ft)	
Max hose extension length	100m (328 ft)	With larger hose extensions
Min hydraulic oil operation temp	20°C	
N.B. all speeds will be significant reduced when using hydraulic hose extensions ISC sensing system will also react slower		

AQUAJET EQUIPMENT

For more information about Aquajet's full range of hydrodemolition equipment, please visit our website at www.aquajet.se.



Hydrodemolition robots



Aqua Rail Systems



Hydrodemolition high-pressure pumps



Wastewater treatment system



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