

Waterjet parts book

Every brand of waterjet can be better





We have worked a lifetime on your shop floor

AccuStream has been in the waterjet business from the beginning. Our founder is an industry pioneer, leading research and development on the first generations of high-pressure intensifier pumps. Early on, he opened a waterjet job shop – the shop that would be the genesis of AccuStream.

Born and raised as a waterjet job shop, we proved ourselves by overcoming the same challenges you confront every day: staying competitive in the market, keeping machines running, finding affordable replacement parts and technical service and quickly making repairs to get back into production. In our search for the best ways to be competitive and conquer other keep-you-up-at-night dilemmas, we found a recurring truth – we were uniquely positioned to develop replacement parts for waterjets. And not just any replacement parts, but parts that met our own high standards for component life, quality, availability and price. This is the idea that launched AccuStream and our products for all waterjets.

We felt from the beginning that providing long-lasting, high quality parts was not enough. As a waterjet user, you need a partner who you can depend on to pick up the phone when you call, answer your waterjet questions, help with your day-to-day waterjet dilemmas and deliver parts with the sense of urgency demanded by your business. A partner who can get you what you need when you need it. How do we know? We've been there.

As a brand of Hypertherm, we're taking that care to a whole new level. We are 100% Associate-owners of Hypertherm, which means that each of us has a vested interest in your satisfaction and a strong drive to provide the best products and services. Let us earn your business with replacement parts engineered and manufactured in America. Parts that can lower your cost of ownership by delivering more cuts, more work hours, increased productivity and ultimately greater profitability. Parts delivered with a level of service that you will only find with AccuStream.



Table of contents

Replacement parts for

AccuStream

Orifices

DiaLine orifices																	 	6
A2 orifices																	 	6
Thimble filters .		• •	• •														 	6

Nozzles

Cutting heads

DiaLine cutting heads10	
DiaLine adapters11	
AccuValve adapters11	
Water-only conversion parts11	
A2 abrasive cutting heads15	

On/off valves

DiaLine on/off valves
DiaLine on/off valve mounting hardware
AccuLine water-only on/off valves

Waterjet products

Hypertherm reverse osmosis systems	
Waterjet bricks	
Hypertherm abrasive regulators	
Hypertherm abrasive pots	

Replacement parts for highpressure components

High-pressure tubing

60k tubing
OMAX®-specifc high-pressure tubing76
100k tubing
Protective sheathing

60K fittings

Swivel repair kits
Swivels
Straight couplings
Straight reducer couplings
Collars
Glands
Plugs
Adapters
Crosses
Tees
Elbows
Two-way straight valves81
Two-way angle valves
Three-way angle valves
Inline wyes
Antivibration assemblies82
100K fittings
Swivels

Nipples

1/4 inch .83 3/8 inch .83 9/16 inch .83
Hardware Tube clamp pairs
Tools Coning and threading tools
Lubricants Lubricants
Gauges

Hypertherm waterjet OEM products



HyPrecision™ Intensifier Pumps

Reduce operating costs with Hypertherm HyPrecision intensifier pumps, which deliver the lowest total cost of ownership in the industry by 20%. Our Advanced Intensifier Technology (AIT) provides extreme reliability with ease of service and operation that will keep you cutting.

- Easier servicing
- Longer lasting
- Streamlined access
- Optimized shifting
- Simplified high-pressure ends
- Prolonged seal life



Hypertherm Abrasive Regulator II

Optimize abrasive usage and minimize production costs with the accuracy and versatility of the Hypertherm Abrasive Regulator II.

- 30 precision settings
- On-the-go adjustment
- Quick access for maintenance





DiaLine™ Cutting Heads

Optimize cutting efficiency and extend nozzle life by aligning the orifice to the nozzle precisely with the DiaLine Cutting Head.

- The best diamond warranty in the industry
- Increased nozzle life of up to 15%
- Average diamond life of 1,000 hours
- A customizable head to change the orifice size easily for different jobs

Hypertherm Reverse Osmosis System

Extend component life and lower operating costs by delivering purified water directly to the pump with Hypertherm's Reverse Osmosis System.

- Adjustable total dissolved solids (TDS) settings
- Supports up to 2,000 gallons of water per day

Increased productivity for long-term profitability

Regular maintenance is a way of life with waterjet cutting. The key to maximizing uptime is doing the right maintenance at the right intervals. Long-life components ensure that you are using your equipment more and servicing it less. What does an extra day of downtime waiting for technical support or parts mean to your business? If you don't have the luxury of waiting, then where you order waterjet replacement parts matters just as much as the quality of the parts. Put us to the test. Your test. AccuStream delivers replacement parts for pumps, cutting heads, abrasive delivery products and high-pressure plumbing and tubing for all major brands of waterjet. We'll keep you running, especially when you need us most.



Replacement parts for AccuStream



American Built Building America[.]



HyPrecision", AccuStream" and DiaLine" are trademarks of Hypertherm Inc. All other trademarks are the properties of their respective owners. AccuStream and Hypertherm are in no way affiliated with Flow", OMAX", KMT", Jet Edge" or WSI' Waterjet Systems International. Part numbers are for convenience only.

Orifices DiaLine orifices

AccuStream #	Description	
1-12835-XXX	Ruby Orifice Use for water and abrasive applications.	
1-12749-XXX	Diamond Orifice	
1-12/49-777	Use for water and abrasive applications.	

A2 orifices

Description	
Ruby Orifice	F
Use for water and abrasive applications.	0
Diamond Orifice, Abrasive	V
Diamond Orifice, Water-only	
	Ruby Orifice Use for water and abrasive applications. Diamond Orifice, Abrasive

-XXX indicates the availability of multiple sizes. Call us or visit AccuStream.com for details.

Want to upgrade your cutting head?

The DiaLine Cutting Head takes stream alignment to the next level and backs it up with a 600-hour diamond-life warranty. Choose a cutting head assembly from page 10 and an on/off valve from page 17. Be sure to include a thimble filter from the table below to protect your new orifice and its warranty.

Call us for assistance, we are here to help you.

Thimble filters

AccuStream #	Description	
1-14279	Thimble Filter Assembly, 1/4-in. Female to 1/4-in. Male	a a
1-14281	Thimble Filter Bullet, 1/4 in.	A
	Use with 14279 Thimble Filter Assembly.	
1-13553	Thimble Filter Assembly, 1/4-in. Female to 3/8-in. Male	9.9
1-11394	Adapter, 1/4-in. Female to 3/8-in. Male	4
1-12533	Thimble Filter Element and Bullet	
1-12000	Use with 13553 Thimble Filter Assembly.	
1-11288	Thimble Filter Coned Bullet Insert, 3/8 in.	
1-11200	Use with 13553 Thimble Filter Assembly.	1
1-13174	Thimble Filter Assembly, 3/8-in. Female to 3/8-in. Male	A.
1-12401	Thimble Filter Element	

6

Nozzles

DiaLine nozzles

.281 ROCTEC® 100 nozzles

AccuStream # D	escription	
1-12779-020-20 .2	281 Nozzle, .020 in. × 2.00 in.	
1-12779-020-30 .2	281 Nozzle, .020 in. × 3.00 in.	
1-12779-020-40 .2	281 Nozzle, .020 in. × 4.00 in.	
1-12779-030-30 .2	281 Nozzle, .030 in. × 3.00 in.	
1-12779-030-35 .2	281 Nozzle, .030 in. × 3.50 in.	
1-12779-030-40 .2	281 Nozzle, .030 in. × 4.00 in.	
1-12779-035-30 .2	281 Nozzle, .035 in. × 3.00 in.	
1-12779-035-40 .2	281 Nozzle, .035 in. × 4.00 in.	
1-12779-040-20 .2	281 Nozzle, .040 in. × 2.00 in.	
1-12779-040-30 .2	281 Nozzle, .040 in. × 3.00 in.	
1-12779-040-35 .2	281 Nozzle, .040 in. × 3.50 in.	
1-12779-040-40 .2	281 Nozzle, .040 in. × 4.00 in.	
1-12779-045-30 .2	281 Nozzle, .045 in. × 3.00 in.	
1-12779-050-30 .2	281 Nozzle, .050 in. × 3.00 in.	
1-12779-050-35 .2	281 Nozzle, .050 in. × 3.50 in.	

.281 ROCTEC® 500 nozzles

AccuStream #	Description
1-11277-020-20	.281 Nozzle, .020 in. × 2.00 in.
1-11277-030-30	.281 Nozzle, .030 in. × 3.00 in.
1-11277-030-40	.281 Nozzle, .030 in. × 4.00 in.
1-11277-035-30	.281 Nozzle, .035 in. × 3.00 in.
1-11277-035-40	.281 Nozzle, .035 in. × 4.00 in.
1-11277-040-30	.281 Nozzle, .040 in. × 3.00 in.
1-11277-040-40	.281 Nozzle, .040 in. × 4.00 in.
1-11277-045-30	.281 Nozzle, .045 in. × 3.00 in.
1-11277-050-30	.281 Nozzle, .050 in. × 3.00 in.
1-11277-050-40	.281 Nozzle, .050 in. × 4.00 in.
1-11277-050-50	.281 Nozzle, .050 in. × 5.00 in.

Nozzles

A2 nozzles

.300 ROCTEC® 100 nozzles

AccuStream #	Description	
1-12781-020-30	.300 Nozzle, .020 in. × 3.00 in.	1000400
1-12781-030-30	.300 Nozzle, .030 in. × 3.00 in.	
1-12781-030-40	.300 Nozzle, .030 in. × 4.00 in.	
1-12781-035-30	.300 Nozzle, .035 in. × 3.00 in.	
1-12781-040-30	.300 Nozzle, .040 in. × 3.00 in.	
1-12781-040-40	.300 Nozzle, .040 in. × 4.00 in.	
1-12781-045-30	.300 Nozzle, .045 in. × 3.00 in.	

.300 ROCTEC® 500 nozzles

AccuStream #	Description	
1-13189-020-20	.300 Nozzle, .020 in. × 2.00 in.	
1-13189-030-30	.300 Nozzle, .030 in. × 3.00 in.	
1-13189-040-30	.300 Nozzle, .040 in. × 3.00 in.	

8

DiaLine[™] from AccuStream

The industry's FIRST customizable cutting head

600 hours – that's the longest diamond warranty in the industry and it's only available with the DiaLine Cutting Head from AccuStream. The DiaLine Cutting Head not only lasts longer, it cuts more accurately and is the most customizable cutting head available. The DiaLine from AccuStream isn't just another cutting head. It's the best cutting head.



DiaLine cutting heads

Single-inlet assemblies

AccuStream #	Description	Price
1-13904-2-1-1	.281 DiaLine Cutting Head Assembly Single 3/8-in. inlet, includes standard nozzle nut	\$400.00
1-13904-2-1-2	13904-2-1-2 .281 DiaLine Cutting Head Assembly Single 3/8-in. inlet, includes 3-in. clamping nut, nozzle splash guard	
1-13904-2-1-3	904-2-1-3 .281 DiaLine Cutting Head Assembly Single 3/8-in. inlet, includes 4-in. clamping nut, nozzle splash guard	
1-13904-2-2-1 Single 3/16-in. inlet, includes. standard nozzle nut		\$400.00
1-13904-2-2-2	.281 DiaLine Cutting Head Assembly Single 3/16-in. inlet, includes 3-in. clamping nut, nozzle splash guard	\$505.00
I-13904-2-2-3 Single 3/16-in. inlet, includes 4-in. clamping nut, nozzle splash guard		\$535.00

Dual-inlet assemblies

AccuStream #	Description	
1-13904-3-1-1	.281 DiaLine Cutting Head Assembly Dual 3/8-in. inlets, includes standard nut	-0-
1-13904-3-1-2	.281 DiaLine Cutting Head Assembly Dual 3/8-in. inlets, includes 3-in. clamping nut, nozzle splash guard	*
1-13904-3-1-3	.281 DiaLine Cutting Head Assembly Dual 3/8-in. inlets, includes 4-in. clamping nut, nozzle splash guard	
1-13904-3-2-1	.281 DiaLine Cutting Head Assembly Dual 3/16-in. inlets, includes standard nut	
1-13904-3-2-2	.281 DiaLine Cutting Head Assembly Dual 3/16-in. inlets, includes 3-in. clamping nut, nozzle splash guard	*
1-13904-3-2-3	.281 DiaLine Cutting Head Assembly Dual 3/16-in. inlets, includes 4-in. clamping nut, nozzle splash guard	

DiaLine adapters

AccuStream #	Description	
1-11358-4	Adapter, DiaLine to Flow® Short nozzle body, 4.330 in.	
1-11755	Adapter, DiaLine to KMT®	3 Th
1-12672	Adapter, Integrated, DiaLine to OMAX®	all the second s
1-13920	Adapter, Nonintegrated, DiaLine to OMAX®	
1-13721	Swivel Adapter, DiaLine to OMAX [®] (Tilt-A-Jet [®])	
1-11009	Adapter, A2 to Jet Edge™, 3.5-in. Use with 11010 valve seat.	
1-11756	Swivel Adapter, DiaLine to Jet Edge™	÷
1-13841	Swivel Adapter, DiaLine to Jet Edge™, 7.50 in. Use with 11010 valve seat.	are

AccuValve adapters

AccuStream #	Description	
1-13730	Swivel Adapter, 2.315 in.	-
1-13730	Use with DiaLine cutting head assemblies.	
1-13841	Swivel Adapter, 3.395 in.	<u>All</u>
	Use with DiaLine cutting head assemblies.	ane
1-13839	Swivel Adapter, 4.985 in.	1
	Use with DiaLine cutting head assemblies.	

Water-only conversion parts

AccuStream #	Description	
1-14321	Water-only Conversion Kit	1
1-14321	Use with 12835-XXX or 12749-XXX DiaLine Orifices. Includes adapter, seat, retainer nut	T
1-14233	Adapter, Water-only	ET!
1-14232	Seat, Water-only	3
1-11299	Nozzle Retainer Nut	٢

DiaLine cutting heads

Replacement parts

AccuStream #	Description	
1-12747	Mixing Chamber	
1 12/1/	Use with single-inlet cutting head assemblies.	
1-13556	Mixing Chamber	
1 10000	Use with dual-inlet cutting head assemblies.	
1-13879	Abrasive Body Assembly	
	Use with single-inlet cutting head assemblies. Includes mixing chamber, retainer collet, 0-rings	<u>ර</u>
1-13901	Abrasive Body Assembly	4
	Use with dual-inlet cutting head assemblies. Includes mixing chamber, retainer collet, O-rings	ං
1-12752	Abrasive Inlet Connector, 3/8 in.	
-	Use with single-inlet and dual-inlet cutting head assemblies.	0
1-13820	Abrasive Inlet Connector, 3/16 in.	(A)
	Use with single-inlet and dual-inlet cutting head assemblies.	
1-11679-012	Inlet O-ring	C
1-11357	Retainer Collet	I
1-12836	Set Screw	Sum
1-11679-216	O-ring, -216	C
	Clamping Nut, 3 in.	康
1-13632	Accepts 13727 Nozzle Splash Guard	(3)
1 10040	Clamping Nut, 4-in.	東
1-13848	Accepts 13727 Nozzle Splash Guard	
1-12751	Nozzle Nut, Standard	/i
	Does not accept 13727 Nozzle Splash Guard	
1-13727	Nozzle Splash Guard	
	Use with 13198 Clamping Nut.	
1-13198	Clamping Nut	0

Looking for orifices? See page 6. Looking for nozzles? See page 7. Looking for on/off valve repair kits? See page 19.

Helpful hints: The facts on water quality

Inlet water should be tested and treated for optional component life. Poor water quality increases operating cost through increased wear on components and shorter maintenance intervals. The two important factors when monitoring water quality are total suspended solids (TSS) and total dissolved solids (TDS).

TSS (total suspended solids)

Suspended solids refers to small, solid particles that remain suspended in water. Removal of these solids is generally achieved through filtration.

TDS (total dissolved solids)

Dissolved solids refers to submolecular particles or ions that are in solution in water. TDS can include hard elements like iron, silica and calcium, which form deposits on the inside of high-pressure plumbing. Calcium scale can break off and damage downstream valve components and orifices.

TDS levels below 50 ppm are aggressive to many waterjet components and require the use of nonmetallic or stainless steel fittings. Water at or below 5 ppm is extremely aggressive and can damage even stainless steel components.

Water quality reports, often available at no charge from local public utility suppliers, can provide pH, silica, and hardness levels. TDS levels can be easily tested using the TDS meter shown below.

Water quality	TDS meter reading	Treatment	Action
High quality	TDS < 50 ppm	Soften only	Consult a water treatment specialist.
Good quality	50 ppm < TDS < 150 ppm	Soften only	Consult a water treatment specialist.
Moderate quality	150 ppm < TDS < 250 ppm	Soften and remove TDS	Consult a water treatment specialist and consider using a reverse osmosis system (available from Hypertherm).
Poor quality	TDS > 250 ppm	Soften and remove TDS	Consult a water treatment specialist and consider using a reverse osmosis
	Silica > 15 ppm		system (available from Hypertherm).

Products for water quality

Water filters

Water filters remove suspended solids from the incoming water supply.



Inline filters

Inline filters eliminate suspended contaminants from high-pressure water.





TDS meters measure the amount of total dissolved solids in cutting water.



Reverse osmosis (RO) systems

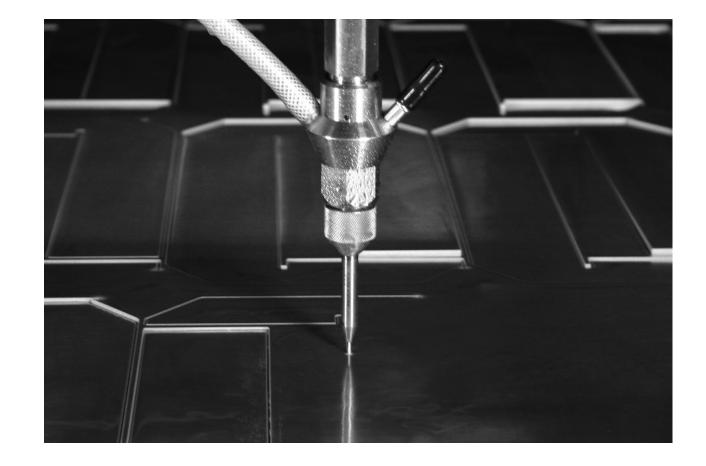
RO systems are the most efficient and effective means for controllng TDS levels.



A2 Abrasive Cutting Head

Classic ruby abrasive cutting head design

The A2 Abrasive Cutting Head uses ruby technology and features a classic streamlined design. All of AccuStream's cutting head components are designed and manufactured with exceptionally close tolerances to ensure perfect alignment. Since its introduction, the AccuStream A2 Abrasive Cutting Head has provided countless waterjet users with maximum cutting performance, fast and efficient cutting, and low cost of operation.



A2 abrasive cutting heads

Assemblies

AccuStream #	Description	
	Complete Abrasive Cutting Head Assembly	200
1-12307	Includes 11201 AccuValve On/off Valve, 11198 AccuValve Standard Front-mounting Collar, 12272 Abrasive Cutting Head Assembly	
1-12272	Abrasive Cutting Head Assembly Includes 12274 Abrasive Body, 12275 Standard Nozzle Nut, 12276 Collet, 12762 Inlet Tubes	de la
1-12390	Abrasive Cutting Head Assembly Includes adapter to Jet Edge [™] on/off valve, requires 11010 AccuSeat and AccuStream on/off valve	

Replacement parts

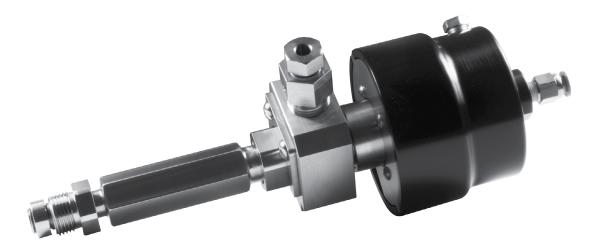
AccuStream #	Description	
1-12274	Abrasive Body	
1-12275	Nozzle Nut, Standard	
1-12276	Collet, .300 in.	3
1-12762	Inlet Tube	1 Martin
1-11362	Nozzle Splash Guard, Carbide	\odot
1-11361	Nozzle Splash Guard, Rubber	

Looking for orifices? See page 6. Looking for nozzles? See page 7. Looking for on/off valve repair kits? See page 19.

AccuValve on/off valve

Rated for pressures up to 65K

The AccuValve is designed for flexible production in either pure water or abrasive waterjet cutting applications. Lightweight with a compact design, the AccuValve can be mounted on any motion system and provides responsive on/off control for pressures up to 65K. With long-life components and easy maintenance, the AccuValve ensures maximum uptime.



On/off valves

DiaLine on/off valves

AccuStream #	Description	
1-13903-1-1-1	On/off Valve, Top-inlet, 6.375 in. (A-dimension) Includes 6.375-in. swivel adapter	A.
1-13903-1-1-2	On/off Valve, Top-inlet, 7.50 in. (A-dimension)	-
1-13903-1-1-3	On/off Valve, Top-inlet, 9.075 in. (A-dimension) Includes 9.075-in. swivel adapter	
1-13903-1-2-1	On/off Valve, Top-inlet, High-performance, 6.375 in. (A-dimension) Includes 6.375-in. swivel adapter	
1-13903-1-2-2	On/off Valve, Top-inlet, High-performance, 7.50 in. (A-dimension)	18
1-13903-1-2-3	On/off Valve, Top-inlet, High-performance, 9.075 in. (A-dimension) Includes 9.075-in. swivel adapter	100
1-13903-2-1-1	On/off Valve, Side-inlet, 6.375 in. (A-dimension) Includes 6.375-in. swivel adapter	Þ
1-13903-2-1-2	On/off Valve, Side-inlet, 7.50 in. (A-dimension) Includes 7.50-in. swivel adapter	ar the
1-13903-2-1-3	On/off Valve, Side-inlet, 9.075 in. (A-dimension) Includes 9.075-in. swivel adapter	er ster
1-13903-2-2-1	On/off Valve, Side-inlet, High-performance, 6.375 in. (A-dimension)	
1-13903-2-2-2	On/off Valve, Side-inlet, High-performance, 7.50 in. (A-dimension)	
1-13903-2-2-3	On/off Valve, Side-inlet, High-performance, 9.075 in. (A-dimension)	

Looking for swivels? See page 78.

Consider a high-performance on/off valve for increased component life.

On/off valves

DiaLine on/off valve mounting hardware

AccuStream #	Description	
1-11198	AccuValve Front-mounting Collar, Standard	A REAL
1-13878	AccuValve Back-mounting Collar	
1-14142	Valve Body Mounting Plate, High-performance	

AccuLine water-only on/off valves

AccuStream #	Description	
1-13903-1-1-4	AccuLine On/off Valve, Top-inlet	13
1-13903-1-2-4	AccuLine On/off Valve, Top-inlet, High-performance Use for high-cycle applications	13
1-13903-2-1-4	AccuLine On/off Valve, Side-inlet	-
1-13903-2-2-4	AccuLine On/off Valve, Side-inlet, High-performance Use for high-cycle applications	
1-12881	Adapter, Water-only Use with AccuLine On/off Valves	a construction of the second s
1-12849	Water-only Nut Use with 12881 Water-only Adapter	C

AccuLIne assemblies are for water-only cutting heads. Use with 11007D-XXX Water-only Diamond Orifice or 11007-XXX Ruby Orifice. Looking for orifices? See page 6.

Helpful hints: How to build a complete DiaLine cutting head

- 1. Choose an on/off valve assembly from page 17.
- 2. Complete the assembly with a DiaLine Cutting Head assembly from page 10.

On/off valves

Repair kits

AccuStream #	Description	
1-12686	AccuValve Actuator Repair Kit Includes exhaust muffler, springs, fitting, snap rings, 0-rings	
1-11328	On/off Valve and Bleed-down Valve Repair Kit Includes 11010 AccuSeat, needle, needle bearing, valve seal	•
1-13683	High-cycle On/off Valve Repair Kit Includes 11010 AccuSeat, needle, needle guide, valve seal	****

Assemblies

AccuStream #	Description	
1-12828	AccuValve Assembly, Top-inlet	\$
1-13732	AccuValve Assembly, Side-inlet	1

Replacement parts

AccuStream #	Description	
1-11033	AccuValve Valve Body	- inc
1-14141	AccuValve Valve Body, High-performance	
1-11010	AccuSeat	
1-11562	Needle	
1-13682	Straight Needle, High-cycle	
1-12178	Needle Bearing	
1-11043	Valve Seal	9

Waterjet products

Hypertherm reverse osmosis systems

AccuStream #	Description
1-15084	Hypertherm Reverse Osmosis System
1-13004	500 gallons per day flow rate
1-13899	Hypertherm Reverse Osmosis System
1-12088	2, 000 gallons per day flow rate

Water quality is critical to extending the life of high-pressure components. The Hypertherm Reverse Osmosis System delivers the right level of purified water directly to the pump to extend component life and lower operating costs. Hypertherm reverse osmosis (RO) systems come with a 300-gallon holding tank. A 500-gallon holding tank is also available. Contact an AccuStream sales representative for help identifying the best RO system for your equipment.



Helpful hints: How reverse osmosis (RO) works

Reverse osmosis works by forcing water under great pressure against a semipermeable membrane that excludes most contaminants while allowing water molecules to pass through. RO is the most thorough method of large-scale water purification available.

Waterjet bricks

AccuStream #	Description	< 48	Pallet of 48	Pallet of
1-11124B	Black Waterjet Bricks			
1-11124W	White Waterjet Bricks			

Prices are per brick. Bricks are 4 in. \times 6 in. \times 48 in.

Waterjet cutting bricks are specially designed and manufactured to fully support parts during the waterjet cutting process. Made from a unique high-density polyethylene (HDPE), the bricks use a laminated flute pattern to minimize splashback from the jet while draining water and debris away quickly and effectively.

- Avoids part "frosting" from jet splashback
- Prevents small parts from falling into the catch tank
- Lightweight (11.4 lb per brick) and easy to handle
- · Corrugation draws water and abrasive away from the cutting surface
- Corrosion free



Replacement parts for AccuStream

Waterjet products

Hypertherm abrasive regulators

Accustream # C	D
----------------	---

1-13762 Hypertherm Abrasive Regulator II

escription

Abrasive is the highest operating expense in abrasive waterjet cutting. Optimizing abrasive usage is key to enhancing the profitability of waterjet operations. The accuracy and versatility of the Hypertherm Abrasive Regulator II improve the cutting process and avoid waste by precisely delivering abrasive to the cutting head. With 30 settings that can be easily and quickly dialed in, the right amount of abrasive is consistently delivered to the cutting head.

1-13968

OMAX[®] Installation Kit Use with 13762 Hypertherm Abrasive Regulator II.

Everything needed to retrofit an OMAX[®] system with a Hypertherm Abrasive Regulator II is included in this installation kit.

- Tubing, 100 ft, 5/32-in. OD, .106-in. ID
- · Clear polyurethane tubing, 6 ft, 3/16-in. OD, 1/8-in. ID
- 90° swivel, 1/8-in. male NPTF × 5/32-in. tube
- Straight coupling, 1/8-in. male NPTF × 5/32-in. tube
- Straight coupling, 1/2-in. male NPT × 3/8-in. tube
- Straight coupling, 1/4-in. male NPTF × 3/16-in. tube



Hypertherm abrasive pots

Accustream #	Description
1-11202	Hypertherm Abrasive Pot
1-11202	800-pound capacity

Hypertherm's Abrasive Pot can increase the efficiency of waterjet operations by allowing easy access for refilling abrasive. The pot features a low level-indicator light to enable system operators to better plan for long cuts. A single valve pressurizes and depressurizes the pot. Use multiple pots to switch between abrasive types quickly.



On/off valves

Cutting heads

Replacement parts for high-pressure components



Custom tubing

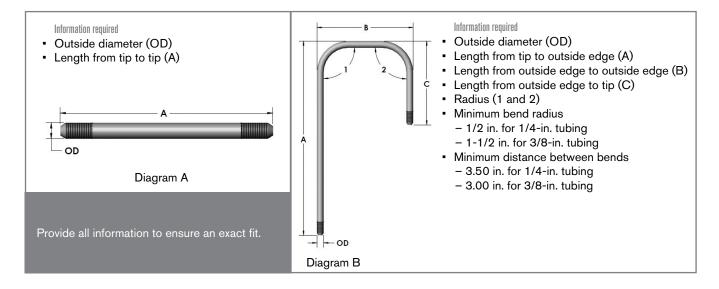
Hypertherm offers in-house coning, threading, bending and coiling of high-pressure tubing. Custom tubing orders placed by 2:00 PM CST may be shipped the same day. Call to check availability.

AccuStream #	Tubing outer dimension (OD)	Cost/foot	Cost/inch	Cost/cone and thread	Coiling available	Cost/bend
1-WJT46CUSAF	1/4 in.	\$16.50	\$1.38	\$16.00	yes	\$16.00
1-WJT66CUSAF	3/8 in.	\$19.75	\$1.65	\$16.00	no	\$16.00
1-WJT96CUSAF	9/16 in.	\$30.50	\$2.54	\$20.00	no	not available

Custom coils available in the following diameters: 2.500 • 6.00 • 7.500 • 8.750 • 9.500 • 10.000 • 10.750

Other custom coil diameters are available on request.

The diagrams below illustrate the measurements that are required to ensure a precise fit. Diagram A shows a simple straight tube that is coned and threaded. Diagram B shows a custom tube with multiple bends.



Shipping

- Tubing less than 8.5 feet long can be shipped by UPS or FedEx.
- 1/4-in. tubing more than 10 feet long can be coiled to ship by UPS or FedEx.
- 3/8-in. and 9/16-in. tubing that is more than 8 feet long must be shipped by LTL.

High-pressure tubing

60k tubing

1/4-inch outer diameter

AccuStream #	Description	Replaces	
1-WJT46240AF	Tubing, 1/4 in. × 240 in. (20 ft)	A-0774-1 80074420	
1-WJT46288AF	Tubing, 1/4 in. × 288 in. (24 ft)	-	
1-WJT46360AF	Tubing, 1/4 in. × 360 in. (36 ft)	_	

Stock length, coned and threaded

3/8-inch outer diameter

AccuStream #	Description	Replaces	
1-WJT66240AF	Tubing, 3/8 in. × 240 in. (20 ft)	A-0774-2 506478	=
A			

Stock length, coned and threaded

9/16-inch outer diameter

AccuStream #	Description	Replaces	
1-WJT96240AF	Tubing, 9/16 in. × 240 in. (20 ft)	A-0774-3 5143474	

Stock length, coned and threaded

All AccuStream 60k tubing is autofrettaged to increase strength and durability.

High-pressure tubing

OMAX®-specifc high-pressure tubing

AccuStream #	Description	Replaces	
1-13256	U-shape Tubing, Power Z-Axis	303245	\bigcirc
1-13280	Gooseneck Tubing, 40 in.	301909	
1-13437	Tubing Coil Use with 2652, 5555 and 55100.	303547	
1-14213	Tubing Coil Use with 2652, 5555 and 55100.	304613	-
1-14214	Tubing Coil Use with 80160 and 80x.	303608	<u></u>

100k tubing

AccuStream #	Description	
1-WJT41108AF	Tubing, 1/4 in. × 102 in. (8.5 ft)	
1-WJT61108AF	Tubing, 3/8 in. × 102 in. (8.5 ft)	
1-WJT41264AF	Tubing, 1/4 in. × 264 in. (22 ft)	
1-WJT61264AF	Tubing, 3/8 in. × 264 in. (22 ft)	
* 12 2 2 1 2 2 1 2	· · · · · · · · · · · · · · · · · · ·	

Tubing is not coned or threaded.

Protective sheathing

Description	Replaces	
Tubing Sheath, 1/4 in. Use with 60k or 100k 1/4-in. OD tubing.	A-2883	Constanting of the second
Tubing Sheath, 3/8 in.	A-2884	(HILLING)
	Tubing Sheath, 1/4 in. Use with 60k or 100k 1/4-in. 0D tubing.	Tubing Sheath, 1/4 in. A-2883 Use with 60k or 100k 1/4-in. 0D tubing. A-2884

76

Replaces

007118-1

60K fittings

Swivel repair kits

Repair kits: 1/4 inch

Repair kits: 3/8 inch

AccuStream #

1-12611

1-12610

1-11476

Description

Inline and 90° Swivel Major Repair Kit, 3/8 in.

swivel bearing backup, thrust bearing, metal-cased wiper, O-rings

Includes seal, hoop, swivel bearing, thrust bearing, oil O-ring seal

90° Swivel Repair Kit, 3/8 in.

Use with 12604 90° Assembly or 12605 Inline Assembly. Includes inline swivel seal, swivel bearing backup, thrust bearing, swivel shaft, metal-cased wiper, 0-rings Inline and 90° Swivel Minor Repair Kit, 3/8 in.

Use with 12604 90° Assembly or 12605 Inline Assembly. Includes inline swivel seal,

AccuStream #	Description	Replaces	
1-11360	Inline Minor Swivel Repair Kit, 1/4 in.	26183	e
	Includes swivel seal, swivel hoop, swivel bearing	20103	C2
1-12864	90° Swivel Minor Repair Kit, 1/4 in.		
	Use with 12863 90° Assembly. Includes swivel seal, swivel backup, terminal block, thrust bearing, swivel thrust washers, 0-rings	_	
	90° Swivel Repair Kit, 1/4 in.		
1-14592	Use with 13123 Dual-axis 90° Swivel Assembly. Includes seal assembly, backup swivel, thrust bearing shaft, thrust bearing washer, O-rings	B-5910-1	86
1-13546	Parallel Swivel Repair Kit, 1/4 in.		
	Use with 13338 Parallel Swivel Assembly. Includes backup ring, hoop, high-pressure seal, spacer	B-7447-1	0 0 8

88:0

Swivels

AccuStream #	Description	Replaces
	Inline Swivel Assembly, 1/4-in.	
1-12607	Female to male; use with 12609 Inline and 90° Swivel Major Repair Kit or 12608 Inline and 90° Swivel Minor Repair Kit. Includes swivel housings, bearing and bearing backup, swivel shaft, thrust bearing, swivel seal, antivibration assembly, O-rings	-
	90° Swivel Assembly, 1/4-in.	
1-12863	Female to female; use with 12864 90° Swivel Minor Repair Kit. Includes swivel seal, swivel backup, thrust bearing, O-ring	- 9
	Dual-axis 90° Swivel Assembly, 1/4 in.	
1-13123	Use with 14592 90° Swivel Repair Kit.	B-5725-1
	Parallel Swivel Assembly, 1/4-in.	*)
1-13338	Female to female; use with 13546 Parallel Swivel Repair Kit. Includes spacer, collar, swivel shaft, thrust nut, swivel housing, plug, backup ring, gland, collar, hoop, high-pressure seal	C-5152-1
	Inline Swivel Assembly, 3/8-in.	
1-12605	Female to male; use with 12611 Inline and 90° Swivel Major Repair Kit or 12610 Inline or 90° Swivel Minor Repair Kit. Includes swivel seal and housing, bearing backup, thrust bearing, swivel shaft, swivel bearing, bushing, O-rings	-
	90° Swivel Assembly, 3/8-in.	
1-12604	Female to male; use with 12611 Inline and 90° Swivel Major Repair Kit or 12610 Inline or 90° Swivel Minor Repair Kit. Includes swivel seal and housing, bearing backup, thrust bearing, swivel shaft, swivel bearing, bushing, O-rings	- 5

Replacement parts

piuo				
	AccuStream #	Description	Replaces	
	1-13276	Bulkhead Swivel Seal Use with 304507 High-pressure Swivel Assembly.	201724	9
	1-13279	Swivel Seal Repair Kit Includes metal-cased wiper, bulkhead swivel seal, 0-rings	301665	වේ

Straight couplings

AccuStream #	Description	Replaces	
1-13160-60-4	Straight Coupling, 1/4 in.	A-0780-1 A-0784-1 10079028 10078244	01
1-13160-60-6	Straight Coupling, 3/8 in.	A-0780-2 A-0784-2 10078905 10079523 201678	
1-13160-60-9	Straight Coupling, 9/16 in.	10078772 A-0780-3 10078640	

All AccuStream couplings include standard collars and glands.

Straight reducer couplings

AccuStream #	Description	Replaces	
1-13160-60-4F6F	Straight Reducer Coupling, 1/4-in. Female to 3/8-in. Female	A-1461 10079614	
1-13160-60-4F9F	Straight Reducer Coupling, 1/4-in. Female to 9/16-in. Female	10078145	
1-13160-60-6F9F	Straight Reducer Coupling, 3/8-in. Female to 9/16-in. Female	A-2437 10079531	

All AccuStream couplings include standard collars and glands.

Collars

AccuStream #	Description	Replaces	
1-13157-60-4	Collar, 1/4 in.	A-2867 10078426 200788	
1-13157-60-6	Collar, 3/8 in.	A-2839 10078715 200274	
1-13157-60-9	Collar, 9/16 in.	10079119	

Glands

AccuStream #	Description	Replaces	
1-13158-60-4	Gland, 1/4 in.	A-2866 10078459 200097	
1-13158-60-6	Gland, 3/8 in.	A-2838 10078129 200823	
1-13158-60-9	Gland, 9/16 in.	10078608	

Plugs

AccuStream #	Description	Replaces	
1-13159-60-4	Plug, 1/4 in.	A-0784-1 10078244	B
1-13159-60-6	Plug, 3/8 in.	A-0784-2 10079523 200778	
1-13159-60-9	Plug, 9/16 in.	A-0784-3 10078772	

Adapters

AccuStream #	Description	Replaces	
1-13162-60-4F6M	Adapter, 1/4-in. Female to 3/8-in. Male	A-0792-1 10079432 200758	
1-13162-60-4F9M	Adapter, 1/4-in. Female to 9/16-in. Male	10079580	
1-13162-60-6F4M	Adapter, 3/8-in. Female to 1/4-in. Male	A-1267 10079473	
1-13162-60-6F9M	Adapter, 3/8-in. Female to 9/16-in. Male	A-4691 10079457	
1-13162-60-9F4M	Adapter, 9/16-in. Female to 1/4-in. Male	A-0792-3	
1-13162-60-9F6M	Adapter, 9/16-in. Female to 3/8-in. Male	10079424 10079655	

Crosses

AccuStream #	Description	Replaces	Replaces	
1-13165-60-4	Cross, 1/4 in.	A-0777-1 10097228	20.	
1-13165-60-6	Cross, 3/8 in.	A-0777-2 10078038		
1-14372	Cross, 3/8 in			
	No fittings	—		
1-13165-60-9	Cross, 9/16 in.	A-0777-3 10079168		

All AccuStream crosses include standard collars and glands.

Tees

AccuStream #	Description	Replaces	
1-13163-60-4	Tee, 1/4 in.	A-0776-1 10079481	5.
1-13163-60-6	Tee, 3/8 in.	A-0776-2 10078590 201526	
1-13535	Tee, 3/8 in	_	
	No fittings		
1-13163-60-9	Tee, 9/16 in.	10079465	

All AccuStream tees include standard collars and glands.

Fittings

Replacement parts for high-pressure components

60K fittings

Elbows

AccuStream #	Description
1-13164-60-4	Elbow, 1/4 in.
1-13164-60-6	Elbow, 3/8 in.
1-13534	Elbow, 3/8 in
1-13034	No fittinas
	ito italigo

All AccuStream elbows include standard collars and glands.

Two-way straight valves

AccuStream #	Description
1-13166-60-4	Two-way Straight
1-13166-60-6	Two-way Straight
1-13166-60-9	Two-way Straight

e	v
e	V

е	V	
-	_	

gle

gle

3 in 3 in

es	
8-1 9259	
8-3 3863	
8-5 3889	

es	
7-1 9002	
7-3 3749	
7-5)275	

Antivibration assemblies

AccuStream #	Description	
1-13495	Antivibration Assembly, 1/4 in.	
1-13495	Commonly used with OMAX® systems	,ª 🛷
1-14266	Antivibration Assembly, 3/8 in.	
1-14200	Commonly used with OMAX® systems	

Antivibration assemblies are compatible with standard high-pressure products. Individual antivibration components are for use with AccuStream antivibration assemblies.

100K fittings

Swivels

AccuStream #	Description	Replaces	
	90° Swivel Repair Kit, 1/4 in.		
1-14493	Use with 14444 90° Swivel Assembly. Includes swivel seal rings, seal backup rings, swivel shafts, needle thrust bearings, antivibration assemblies, O-rings	015093-1	
	90° Swivel Assembly, 1/4 in.		
1-14444	Use with 14493 90° Swivel Repair Kit. Includes swivel seal housing, swivel seals, seal hoops, swivel bearings, swivel bearing housings, swivel guides, bushings, needle thrust bearings, antivibration assemblies, 0-rings	014922-1	4.5

Antivibration assemblies are compatible with standard high-pressure products. Individual antivibration components are for use with AccuStream antivibration assemblies.

Nipples

1/4 inch

AccuStream #	Description	Replaces	
1-WJN4600275	Nipple, 1/4 in. × 2.75 in.	_	
1-WJN4600600	Nipple, 1/4 in. × 6 in.	13168-60-4-6 A-0781-6 10103018	
1-WJN4600800	Nipple, 1/4 in. × 8 in.	13168-60-4-8 A-0781-8	
1-WJN4601000	Nipple, 1/4 in. × 10 in.	13168-60-4-10 10057636 80070519	
1-WJN4609600	Nipple, 1/4 in. × 96 in. (8 ft)	204658-96	

Lengths longer than 3.00 in. are available on request.

3/8 inch

inc	h		
	AccuStream #	Description	Replaces
	1-WJN6600300	Nipple, 3/8 in. × 3 in.	13168-60-6-3
	1-WJN6600400	Nipple, 3/8 in. × 4 in.	301337-4
	1-WJN6600600	Nipple, 3/8 in. × 6 in.	13168-60-6-6
	1-WJN6600800	Nipple, 3/8 in. × 8 in.	13168-60-6-8
	1-WJN6601000	Nipple, 3/8 in. × 10 in.	13168-60-6-10
	1-WJN6601200	Nipple, 3/8 in. × 12 in.	13168-60-6-12 301337-12
	1-WJN6601400	Nipple, 3/8 in. × 14 in.	301337-14
	1-WJN6601700	Nipple, 3/8 in. × 17 in.	301337-17
	1-WJN6601800	Nipple, 3/8 in. × 18 in.	301337-18
	1-WJN6602450	Nipple, 3/8 in. × 24-1/2 in.	301337-24.5
	1-WJN6602600	Nipple, 3/8 in. × 26 in.	301337-26
	1-WJN6603100	Nipple, 3/8 in. × 31 in.	301337-31
	1-WJN6603600	Nipple, 3/8 in. × 36 in. (3 ft)	301337-36
	1-WJN6604300	Nipple, 3/8 in. × 43 in.	301337-43
	1-WJN6604800	Nipple, 3/8 in. × 48 in. (4 ft)	301337-48
	1-WJN6605000	Nipple, 3/8 in. × 50 in.	301337-50
	1-WJN6605500	Nipple, 3/8 in. × 55 in.	301337-55
	1-WJN6606500	Nipple, 3/8 in. × 65 in.	301337-65
	1-WJN6608900	Nipple, 3/8 in. × 89 in.	301337-89
	1-WJN6614200	Nipple, 3/8 in. × 142 in.	301337-142
	1-WJN6616800	Nipple, 3/8 in. × 168 in. (14 ft)	301337-168

Lengths longer than 3.50 in. are available on request.

9/16 inch

AccuStream #	Description	Replaces	
1-WJN9600400	Nipple, 9/16 in. × 4.00 in.	13168-60-9-4	
1-WJN9600800	Nipple, 9/16 in. × 8.00 in.	13168-60-9-8	

Lengths longer than 3.50 in. are available on request.

Hardware

Tube clamp pairs

AccuStream #	Description	
1-12838	Tube Clamp Pair, 1/4 in.	()
1-13144	Tube Clamp Pair, 3/8 in.	19
1-13143	Tube Clamp Pair, 9/16 in.	Ť.
1-12837	Top Plate, 1/4 in. and 3/8 in.	0 0
1-12830	Top Plate, 9/16 in.	00

Inline filters

AccuStream #	Description		
1 10050	Inline Filter Assembly, 1/4-in.		
1-13852	Female to female		*
1-13853	Inline Filter Element, 1/4-in.		
1-13033	Use with 13852 Inline Filter Assembly.	_	9
1-11598	Inline Filter Assembly, 3/8-in.		
	Female to male	—	C.
1 11600	Inline Filter Element, 3/8-in.		
1-11600	Use with 11598 Inline Filter Assembly.	—	Q
1 10005	Inline Filter Assembly, 9/16-in.		
1-13285	Female to female	—	
1 10000	Inline Filter Element, 9/16-in.	204104	
1-13222	Use with 13285 Inline Filter Assembly or E-Max port adapter filter.	304104	0

Tools

Coning and threading tools

Tool sets

AccuStream #	Description	Replaces	
1-13269	Tube Bender Assembly	_	T
1-13209	Use with 60k and 100k tubing.		
1-15492	Complete Coning and Threading Tool Set	14536-60-CCT	
1-10492	Includes 1/4-in., 3/8-in. and 9/16-in. tools	14000-00-001	11/2 Conte
1 15440	Coning and Threading Tool Set	14506 60 4 6	
1-15440	Includes 1/4-in. and 3/8-in. tools	14536-60-4-6	INST &
1 15400	Coning and Threading Tool Set	14506 60 4	
1-15493	Includes 1/4-in. tools	14536-60-4	1500
1 15404	Coning and Threading Tool Set	14500 00 0	
1-15494	Includes 3/8-in. tools	14536-60-6	1500
1 1 5 4 0 5	Coning and Threading Tool Set	14500.00.0	
1-15495	Includes 9/16-in. tools	14536-60-9	1500
1-12798	Coning and Threading Oil, SULFLO #1	_	

All sets include a threading die, a collet, a cutter, a guide bushing, and coning and threading oil. Sets do not include tube bender assembly.

Tools

Coning and threading tools

1/4 inch

AccuStream #	Description	Replaces	
1-15439	Threading Die, 1/4 in., Left-hand	1/4-28LH	T,
1-15513	Guide Bushing, 1/4 in.	13154-60-4	
1-15496	Coning Tool Collet, 1/4 in.	13155-60-4	
1-15499	Coning Tool Cutter, 1/4 in.	13156-60-4	5

3/8 inch

AccuStream #	Description	Replaces	
1-15477	Threading Die, 3/8 in., Left-hand	3/8-24LH	R 76 3
1-15514	Guide Bushing, 3/8 in.	13154-60-6	
1-15497	Coning Tool Collet, 3/8 in.	13155-60-6	
1-15500	Coning Tool Cutter, 3/8 in.	13156-60-6	-

9/16 inch

AccuStream #	Description	Replaces	
1-15478	Threading Die, 9/16 in., Left-hand	9/16-18LH	
1-15515	Guide Bushing, 9/16 in.	13154-60-9	9
1-15498	Coning Tool Collet, 9/16 in.	13155-60-9	
1-15501	Coning Tool Cutter, 9/16 in.	13156-60-9	F

Tools

Other tools

AccuStream #	Description	Replaces	
	Seal Installation Tool Kit	1	
1-12387	Use with Flow® pumps. Includes seal insertion push tool, seal insertion locator tool, seal insertion tool sleeve guide, seal installation washer	B-2291-1	
1-12029	Bleed-down Tool		1
1-12029	Use with Flow [∞] pumps.	-	
1-13705	Cylinder Wrench	A-6333	
1-13705	Use with Flow® pumps.	A-0333	ſ
	End-cap Spanner Wrench	4 4000	
1-13725	Use with Flow® pumps.	A-1628	
1-13972	Water Filter Wrench	- 0	-
	Lapping Paper		
1-11210-XX	Available in 12-, 15- and 30-micron sheets	-	
1-13281	Granite Surface Plate	_	1
1-13201	9 in. × 12 in. × 2 in.		
1-13897	TDS Meter	-	-

-XX indicates the availability of multiple sizes. Call us or visit AccuStream.com for details.

Lubricants

AccuStream #	Description	Replaces	
1-11448	Accu Goop	A-2185 10087385	
	Food-grade antiseize lubricant, 4 oz. Blue Goop	A-2185	
1-11111	Oil-based thread lubricant, 2 oz.	302692 20460486	Blue Goop
1-13537	Pure Goop	10084440	600
1 10007	Halocarbon-based thread lubricant, 1 oz.		1 Part
1-11447	High-vacuum Grease	200006	13
	Seal O-ring lubricant, 5 oz.	200000	
1-11136	High-vacuum Grease	A-4689	
1 11130	5.3 oz.	A 4003	2 il
1-14511	Extreme-pressure Antiscoring Lubricant	202496	
1-14011	0.25 oz.	202490	Sec. 1
1-13969	O-ring Lubricant		Imme
1-10909	4 oz.		- Internet

Gauges

AccuStream #	Description	
1-12028	Gauge, Back-mount	
1-12106	Gauge, Bottom-mount	

A knowledgeable partner who will get you what you need when you need it

Hypertherm[®] has built the most robust set of information tools in the cutting industry. From responsive waterjet experts working our customer service lines to mobile apps and 24/7 online technical service guides, you have access to the information you need.

Hypertherm Waterjet Mobile Assistant

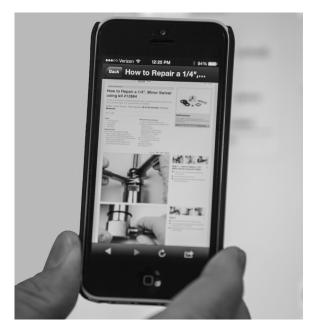
When problems arise, the Hypertherm Waterjet Mobile Assistant (available for iOS and Android) is on

the spot with the information you need to get your waterjet working as quickly as possible. Use a QR code reader or visit assist.hypertherm.com to see how the Hypertherm Waterjet Mobile Assistant makes finding the right part guide instantaneous and error proof.



Each guide in the app includes:

- Tools required
- Parts required
- Time required
- Repair instructions



We ship faster so you're back to work sooner

Our goal as owners is to ensure that you get what you need when you need it.

Place your order by 2:00 PM CST and we will ship it the same day.

From our job shop roots, we know how it feels to be down, so we will do everything we can to keep you cutting. For orders placed after 2:00 PM CST, we will make every attempt to ship the same day, if you need it.



sales@accustream.com | www.accustream.com | (866) 566-7099

Hypertherm, DiaLine, and HyPrecision are trademarks of Hypertherm Inc. and may be registered in the United States and/or other countries. All other trademarks are the properties of their respective owners.

Environmental stewardship is one of Hypertherm's core values, and it is critical to our success and our customers' success. We are striving to reduce the environmental impact of everything we do. For more information: www.hypertherm.com/environment.



© 6/2018 Hypertherm Inc. Revision1 897010

