





Our swift translation of concepts into innovative new technologies keeps our customers on the cutting edge. From intensifier pumps with exclusive *Advanced Intensifier Technology™* (AIT) to the industry-leading *DiaLine* diamond abrasive cutting head, we sell everything required to help you build a high-performance, high-tech, waterjet cutting system.



POWER PRECISION PERFORMANCE



# POWER FOR EVERY PURPOSE

Whatever your cutting application, there's an AccuStream AS-Series intensifier pump designed to meet your needs. AccuStream offers a full range of reliable, efficient waterjet intensifier pumps for around-the-clock operations, small prototype jobs, and every application in between. You'll find pumps engineered to meet the demands of multiple head abrasive cutting, as well as those that are ideal for water-only cutting. All AccuStream pumps are engineered to be easy to operate—and even easier to maintain.



## BUILT TO LAST

AccuStream brings decades of experience, rigorous research, and ongoing product development to everything we do. The combination of intelligent engineering and quality manufacturing add up to a pump that delivers maximum longevity and reliability.

## ACCUSTREAM CONTROL CENTER

AccuStream's enhanced control center puts you into production quickly. A touch screen panel guides the operator through operation, troubleshooting, and maintenance logs. Engage the most powerful features and functions with the touch of a screen.



## ADVANCED INTENSIFIER TECHNOLOGY™ (AIT)

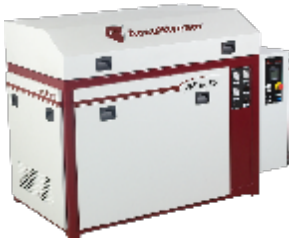
AIT is our exclusive technology and an integral part of the AS-Series pumps. Our unparalleled user-oriented innovations facilitate longer maintenance intervals and rapid component replacement.



AS-6030



AS-6050



AS-6075



AS-60100



AS-60150

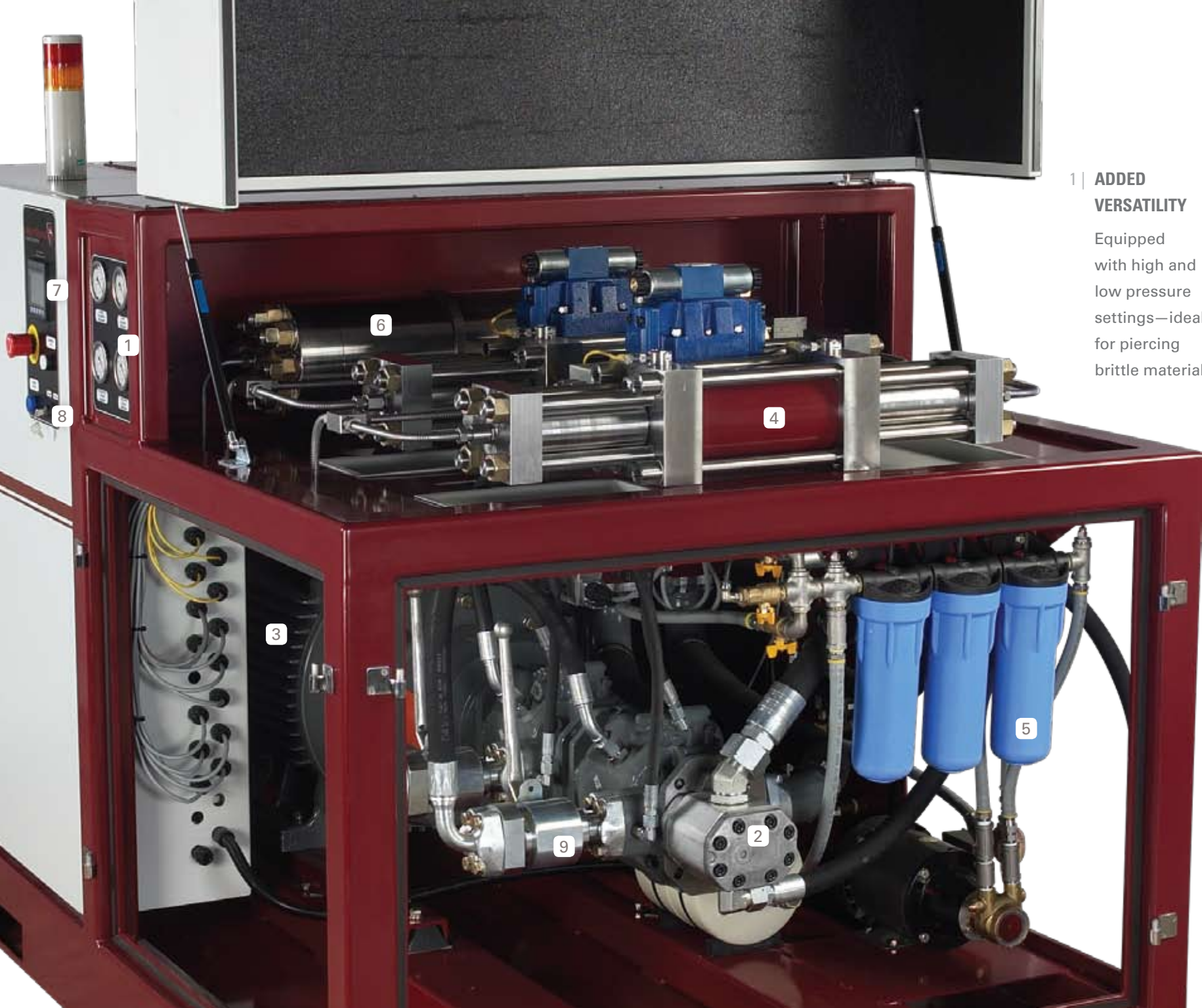
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
GENERAL	Max. Output Flow, gpm (lpm)	0.60 (2.3)	0.65 (2.46)	1.1 (4.16)	1.1 (4.16)	1.5 (5.68)	1.6 (6.06)	2.1 (7.95)	2.2 (8.33)	3.0 (11.4)	3.2 (12.1)
	Max. Orifice, in (mm)	0.011 (0.28)	0.012 (.30)	0.015 (0.38)	0.015 (0.38)	0.017 (0.43)	0.018 (0.46)	0.020 (0.51)	0.021 (0.53)	0.024 (0.61)	0.025 (0.64)
	Continuous Output Pressure	All Adjustable to 60,000 psi (4137 bar)									
	Intensifier Configuration	Single		Single		Single		Dual		Dual	
	Pressure Control	Panel-mounted Dual		Panel-mounted Dual		Panel-mounted Dual		Electronic		Electronic	

PUMP POWER	Motor Power, hp (kw)	30 (22)		50 (37)		75 (56)		100 (74)		150 (110)	
	Voltage, V	380	240/480	380	240/480	380	480	380	480	380	480
	Full Load Amps, I	39	75/40	70	135/67	105	95	150	120	215	170
	Soft Start	---		Y-Delta		Y-Delta		Y-Delta		Y-Delta	

PHYSICAL	Overall Width, in (mm)	34 (864)		40 (1016)		40 (1016)		45 (1143)		55 (1397)	
	Overall Length, in (mm)	62 (1575)		76 (1930)		76 (1930)		86 (2184)		81 (2057)	
	Overall Height, in (mm)	43 (1092)		56 (1422)		56 (1422)		56 (1422)		56 (1422)	
	Approx. Operating Weight, lb (kg)	2400 (1088)		3100 (1406)		3300 (1497)		4150 (1882)		6100 (2767)	

OPTIONS	Air over Oil Cooling	Air over Oil Cooling	Air over Oil Cooling	Air over Oil Cooling	Air over Oil Cooling
	Insulated Covers	Redundancy	Redundancy	Water Isolation Valves	Water Isolation valves





1 | **ADDED VERSATILITY**

Equipped with high and low pressure settings—ideal for piercing brittle materials.

2 | **ENHANCED HYDRAULIC CIRCUIT**

Kidney loop circulates oil through a heat exchanger and oil filter, away from intensifier pulsations. When the pump is in standby, the oil is cool. Available on 50+ HP pumps.

3 | **EFFICIENT PRESSURE GENERATION**

High efficiency TEFC motors deliver reliable power with minimal electric consumption. Wye-Delta soft start reduces inrush current for 50+ HP pumps.

4 | **SMOOTH HIGH PRESSURE WATER**

Pressure-compensated hydraulic pumps and exclusive electronic shift technology maintain smooth ultra-high pressure water at the cutting heads.

5 | **MAXIMUM CUTTING PERFORMANCE**

An inlet water filter system removes impurities to maximize cutting head performance. Boost pumps increase inlet water flow for 50+ hp pumps.

6 | **SUPERIOR CUT QUALITY**

Single large volume attenuator provides even output pressure to ensure optimal edge quality.

7 | **OPERATOR CONVENIENCE**

Panel-mounted display pressure gages allow easy monitoring of inlet water filters and hydraulic performance.

8 | **REMOTE OPERATION**

Key switch enables all pump features to be operated and monitored at either the pump or remotely from a CNC controller.

9 | **SAFE OPERATION**

Safety dump valve relieves system pressure in case of a shutdown.

# AS SERIES INTENSIFIER PUMPS



Only AccuStream manufactures ultra-high pressure pumps with Advanced Intensifier Technology™ (AIT). AIT represents the latest in high pressure intensifier design that delivers increased reliability and efficiency.



#### 1 | SIMPLIFYING ACCESS

The hydraulic rod seals and plunger bearing are readily accessed from the outside of the hydraulic end cap.

#### 2 | IMPROVED COMPONENT LIFE

Hydraulic center section features an advanced piston design which minimizes seal wear and improves component life.

#### 3 | STREAMLINED MAINTENANCE

Check valve utilizes a screw-less, low-pressure poppet design to enable quick evaluation of key contact surfaces. Feature allows for fast component replacement.

#### 4 | SMOOTH SHIFTING

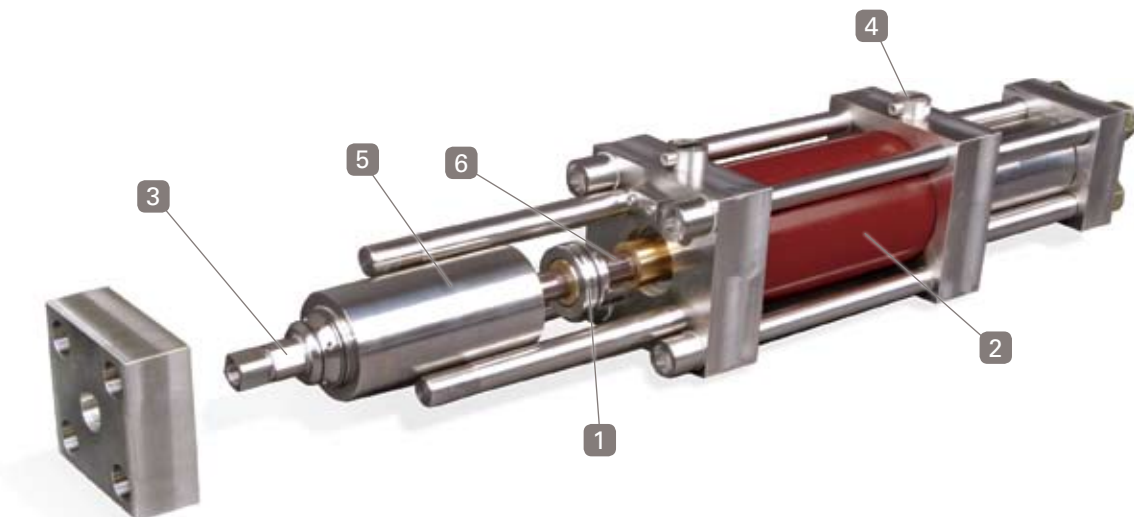
Advanced electronics provide smooth, more reliable shifting for optimum cut quality. In addition shift times are monitored for intensifier performance.

#### 5 | RELIABLE HIGH PRESSURE ENDS

Durable threaded rod design simplifies high pressure end removal for quick seal maintenance. Non-threaded cylinder design increases reliability.

#### 6 | EXTENDED SEAL LIFE

Large diameter ceramic plunger produces more water per stroke with reduced friction yielding maximum seal life.





#### MICROSD CARD READER

Transfer pump maintenance and alarm logs quickly and easily. Download the latest AccuStream system software updates.

#### PASSWORD PROTECTED

Protect your pump settings and configuration to prevent editing by unauthorized personnel.

#### OPTIONAL ETHERNET INTERFACE

Transfer data between your AccuStream system and a network or PC. This option allows advanced remote control and remote troubleshooting.



#### MORE INTUITIVE THAN EVER

Easy-to-understand graphics guide the operator through the steps necessary to operate and maintain the pump.



#### OPERATION MADE EASY

The Quick Help feature provides fast answers when they're needed most. No more searching for system manuals for basic information.



#### ADVANCED INTENSIFIER MANAGEMENT (AIM)

Built-in troubleshooting charts and detailed intensifier graphics provide rapid access to diagnostics and maintenance logs.



## POWER AT YOUR FINGERTIPS

The AccuStream control center was developed specifically for waterjet intensifier pumps. All our know-how is bundled into the technology to make pump operation a breeze.

The cutting head is an essential piece of any cutting system. AccuSteam's precision engineering allows our cutting heads to balance power and speed with versatility and durability.



## ABRASIVE CUTTING

Our DiaLine abrasive cutting head is acclaimed for its power, cutting speed and versatility. Each of the following components contributes to its remarkable performance:

### DIAMOND ORIFICE TECHNOLOGY

Embedded diamond provides greater reliability to the cutting head and ensures exact alignment. The diamond orifice boasts an average life of 1000 hours.

### DIALINE MIXING CHAMBER

Advanced mixing chamber concept maximizing abrasive entrainment while safeguarding the diamond orifice.

### NOZZLE NUT DESIGN

Nozzle nut precisely centers the mixing tube radially and axially to the cutting head. Consequently, the mixing tube position is optimized for concentric wear and peak cutting performance.

## PURE WATER CUTTING

The Accu-Line pure water cutting head is ideal for cutting soft materials such as foam, rubber, gaskets, paper products, cloth and more.

### LIGHTWEIGHT AND COMPACT FOR VERSATILITY

Cutting heads can easily be mounted to a variety of motion systems.

### LOW OPERATING COST

Long life components coupled with simple maintenance delivers maximum uptime.

### RESPONSIVE ON/OFF CONTROL

Fast on and off control for thousands of cycles at 60,000 psi.



### SAFE OPERATION

Normally closed valve contains water even when power is lost preventing an unexpected discharge of water.





# COMPLETING YOUR WATERJET

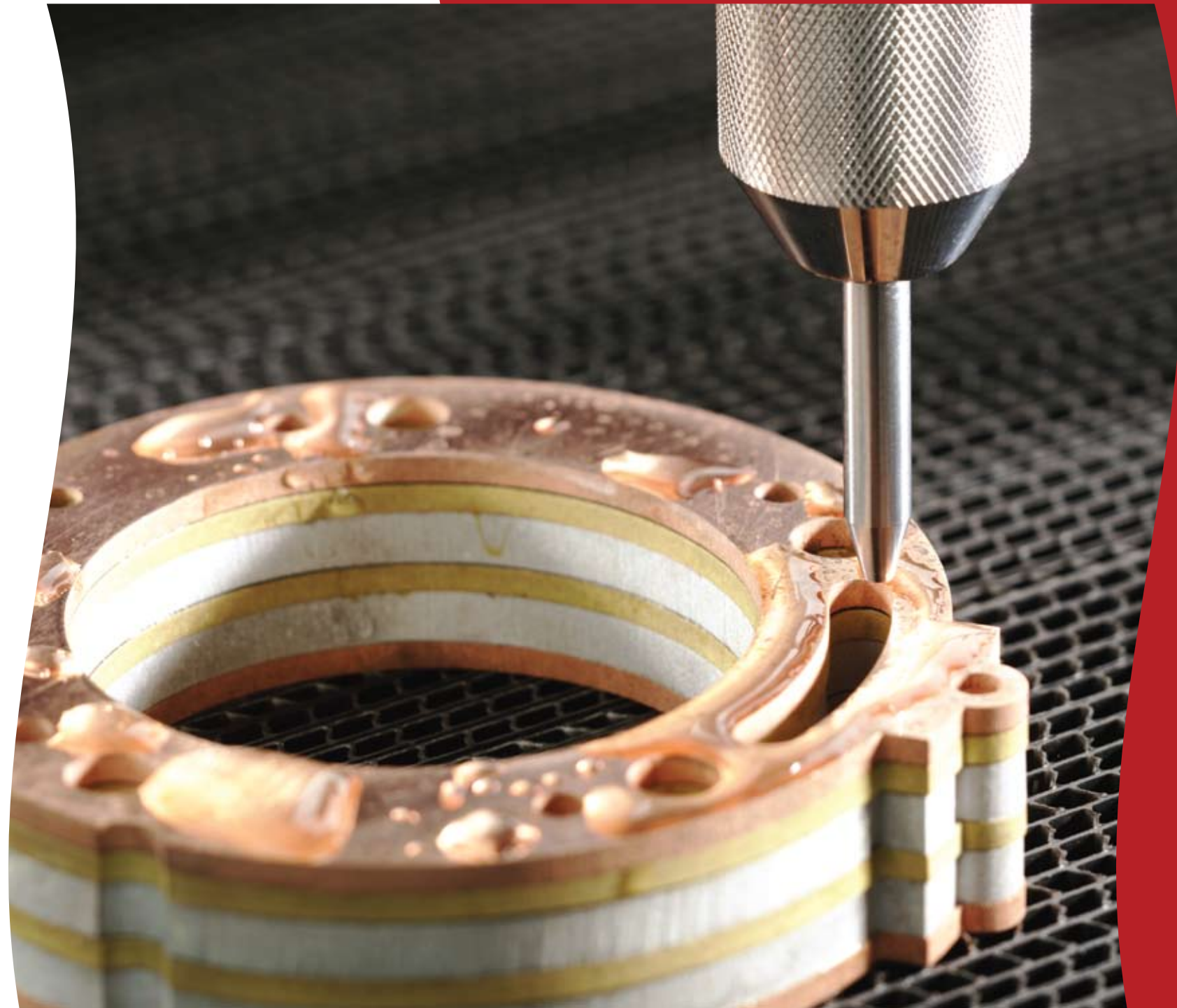
## OPTIMIZED USE OF ABRASIVE

Abrasive is the largest percentage of operating cost, and its optimal use is vital to the success of your waterjet operation. The AccuStream regulator features 30 different settings that deliver the precise amount of abrasive to the cutting head to achieve peak cutting performance.



## ABRASIVE HANDLING SYSTEMS

The right abrasive delivery system can boost your cutting capacity. The 6 cubic foot pressurized bulk feeder is ideal for most abrasive cutting applications. Adding a 2000# or 4000# abrasive feeder makes handling of bulk abrasive bags an ease.



AccuStream builds a variety of cutting products to meet the diverse needs of our customers. In fact, we offer everything required to complete your waterjet system—the pump, the cutting head, the abrasive delivery system and high pressure plumbing packages.



Our customized support services extend throughout the entire life of your machine. This includes training you and your employees to use your AccuStream products to their fullest potential.

Our service representatives will also assist you with optimizing parts costs, production speed and quality control.



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