

KMT Aqua-Dyne

Phone: 713-864-6929

Fax: 713-864-0313

*Your Innovative Partner for all Your High Pressure
Cleaning and Surface Preparation Needs*

www.aqua-dyne.com

sales@aqua-dyne.com

3,000 to 40,000 PSI

- Pump Units
- Pump Systems
- Waterblast Guns
- Accessories
- Spare Parts



NEW!



BLAST MAX

KMT
Aqua-Dyne

Table of Contents

This catalog covers our full range of Pump Systems, Pumps Units, Parts and Accessories. If you do not see something you need, please call our customer service department at 713-864-6929 or e-mail sales@aqua-dyne.com.

• About KMT Aqua-Dyne	3	• Nozzle Holders	21
• Pumps; Bare Shaft, Units, Systems		• Rubber Hoses	22
• About KMT Aqua-Dyne pumps	4	• Thermoplastic Hoses	23-24
• C Series Pump Unit (5-20k HP)	5	• Flex Lance Guard	25
• C Series Pump Unit Specifications	6	• Water Jetting Accessories	
• EK Series Pump Unit (5-25k HP)	7	• KMT Aqua-Dyne Accessories	26
• EK Series Pump Unit Specifications	8	• Multi-Gun Flow Splitter	27
• Blast MAX GA Series Pump Unit	9	• Diverter Valve	28
• Blast MAX GA Series Pump Unit Spec.	10	• Mini Scrubber	29
• Bare Shaft Pumps	11	• Floor and Surface Cleaner	30
• Hydrostatic Test Pumps	12	• Rotary Hose Device	31
• Water Jetting Guns		• Rotary Hose Device Specs.	32
• About KMT Aqua-Dyne Guns	13	• Rotary Grit Nozzle	33
• Water Blasting Guns		• Dyna-Vac Vacuum Pump	34
• Zero Thrust DYNA-GUN, Dump & Rotary	14	• Rotary Unions	34
• Foot Operated & Pistol DYNA-GUNS	15	• Heat Exchanger Lancing Machine	35
• Nozzles		• Parts, Service & Support	36
• About KMT Aqua-Dyne Nozzles	16		
• Shape Jet Nozzles	17		
• Flex Lance Nozzles	18		
• Sapphire Orifices	19		
• Nozzle Rating Chart	20		

KMT Aqua-Dyne



Aqua-Dyne was acquired by KMT Waterjet in 2006 and is now known as KMT Aqua-Dyne. Our website address has not changed: www.aqua-dyne.com.

Aqua-Dyne has over 37 years experience in the waterblasting industry and as KMT Aqua-Dyne we plan to continue with this experience and offer the most efficient and safe pumps and accessories for our customers.

KMT Aqua-Dyne provides a complete range of high quality, reliable high pressure cleaning and surface preparation systems, pumps and accessories.

KMT Aqua-Dyne's modern plant is equipped with state of the art CNC machine tools, fabrication, quality and test facilities and fully complete customer training and demonstration facility.



KMT Aqua-Dyne has over 37 years experience developing, designing, testing and manufacturing high pressure cleaning and surface preparation equipment.

KMT Aqua-Dyne Pumps

The key to KMT Aqua-Dyne's long pump life and hundreds of hours of trouble-free operation are low load packing, special filtration and a closed loop non-drip cooling and water lubrication system for alumina ceramic or tungsten carbide plungers.

The individual lightweight suction and discharge manifolds are easily removed for routine maintenance, and field changing the packing or plungers takes five minutes with no special tools required.

The unique Valve-In-Line fluid end design provides higher volumetric efficiency, lower maintenance, quick packing changes and low initial cost over conventional fluid ends available.



C Series

- 300 to 500 HP
- 5 - 20,000PSI

EK Series

- 5 to 25 HP
- 5 - 40,000PSI

GA Series

- 100 to 250 HP
- 5 - 40,000 PSI



C 500 DS Skid Mounted



EK 25 EF Frame Mounted



GA 200 DT Trailer Mounted

Engine and Motor Options

- | | |
|-----------|---|
| Diesel: | Several brand options |
| Electric: | EFC or explosion proof with voltage options |

Frame Options

- | | |
|----------|---|
| Skid: | With several mounting options |
| Frame: | Single or multiple lifting bails |
| Trailer: | Single/Dual axle with several hook-up options |
| Cart: | EK series only |

C Series Pump Unit

The C series is our largest capacity pump for when high flow applications are necessary.



C 450 DS
Skid Mounted

Pump Performance Range			
Pressure PSI [Bar]	Flow Rate GPM [LPM]		
Model No./HP	C 300	C 400	C 500
20,000 [1379]	25.71 [97.32]	34.28 [129.76]	42.85 [162.20]
15,000 [1034]	34.27 [129.73]	45.70 [172.99]	57.12 [216.22]
10,000 [689]	51.42 [194.68]	68.56 [259.53]	85.70 [324.41]
5,000 [345]	102.84 [389.21]	137.12 [519.06]	171.40 [648.82]

Flow rates are theoretical based on 100% volumetric and mechanical efficiency

Standard Features

- Pump:**
Horizontal, valve-in-line plungers
- Power transmission:**
Kevlar reinforced synchronous drive system with safety belt guide.
- Discharge plumbing:**
Discharge manifold with interchangeable high pressure discharge connections, stainless steel glycerin filled pressure gauge and relief valve or rupture disc.
- Suction plumbing:**
Washable strainer and large capacity stainless steel bag type filter



C 500 DST
Steerable Trailer

C Series Pump Unit

Pump Specifications

Power End

Power Frame:

Iron alloy casting with sturdily ribbed wall sections.

Crankshaft:

High strength ductile iron, may extend from either side. Rifle drilled for forced oil lubrication of connecting rods.

Crankshaft Bearings:

Heavy duty taper roller bearings.

Crossheads:

Cylindrical type nodular iron. Wrist Pin is Case hardened and ground steel with double Needle Roller Bearings. Extension Rods are burnished stainless steel.

Lubrication:

Power End parts are lubricated by forced feed oil. Cooled and filtered oil circulation is standard.

Connecting Rods:

High strength, ribbed section, Ductile iron.

Oil Wiper Seals:

Easily replaceable, double lip.



Fluid End

Fluid Cylinders:

Proprietarily treated stainless steel Which eliminates breakage. Other materials available to Suit the application.

Valves and Seats:

Heat treated stainless steel enhances the In-Line Valve life. All valves may be reconditioned by surface grinding.

Plungers:

Non-scoring solid Alumina Ceramic. Optional: Colmonoy or Tungsten Carbide coated steel.

Packing:

V-rings of advanced polymer material are self-adjusting.

Lubrication:

Plungers and Packing are non-drip, Closed loop pressure lubricated by fluid from Suction Manifold. No external lubrication is necessary.

Manifolds:

Individual lightweight Suction Discharge Manifolds are easily removed for simple maintenance. Different materials are available to suit applications.

EK Series Pump Unit

The EK series is an excellent pump for applications that require high pressure at lower flow rates with a compact mobile design. Very popular for Hydrostatic testing applications.

Pump Performance Range				
Pressure PSI [Bar]	Flow Rate GPM [LPM]			
Model No. /HP	EK 5	EK 10	EK 20	EK 25
40,000 [2758]	For details on 40,000 psi call sales			
20,000 [1379]	.43 [1.63]	.85 [3.22]	1.71 [6.47]	2.14 [8.10]
15,000 [1034]	.57 [2.16]	1.14 [4.32]	2.29 [8.67]	2.85 [10.79]
10,000 [689]	.85 [3.21]	1.71 [6.47]	3.43 [12.98]	4.29 [16.24]
5,000 [345]	1.17 [4.43]	3.43 [12.98]	6.85 [25.93]	8.57 [32.44]

Flow rates are theoretical based on 100% volumetric and mechanical efficiency

Standard Features

- Pump**
 Horizontal, valve-in-line triplex plungers with 1.57 in. (40 MM) stroke
- Power transmission**
 Kevlar reinforced synchronous drive system with safety belt guide.
- Discharge plumbing**
 Manifold with interchangeable high pressure discharge connections, stainless steel glycerin filled pressure gauge and relief valve or rupture disc.
- Suction plumbing**
 Filtration down to 1 micron



EK 25 EF
Frame Mounted



EK 20 ES
Skid Mounted



EK Series Pump Unit

Pump Specifications

Power End

Power Frame:

Cast iron casing with drive system components. Includes sight glass for checking oil level.

Crankshaft:

Gas-nitrided, hardened and tempered alloy steel extending from both sides. Crankshaft is centered between two main roller bearings.

Crankshaft Bearings:

Heavy duty roller bearings with roller rim.

Crossheads:

Cylindrical type nodular iron. Wrist Pin is Case hardened and ground steel.

Lubrication:

Power ends parts are splash oil lubricated.

Connecting Rods:

High strength, forged steel with special anti-friction brass bearings.

Oil Wiper Seals:

Easily replaceable, double lip U-Cup.



Fluid End

Fluid Cylinders:

Proprietarily treated stainless steel which eliminates breakage. Other materials available to Suit the application.

Valves and Seats:

Proprietarily treated stainless Steel enhances the Valve-in-Line life and eliminates Breakage. All valves may be reconditioned by field lapping or surface grinding.

Plungers:

Non-scoring solid Alumina Ceramic for up To 20,000 psi. Solid carbide or ceramic for up to 40,000 psi.

Packing:

Self-adjusting advanced polymer material for up to 22,500 psi.

Lubrication:

Plungers and Packing are non-drip, Closed loop pressure lubricated by fluid from Suction Manifold. No external lubrication is necessary.

Manifolds:

Individual lightweight Suction Discharge Manifolds are easily removed for simple maintenance. Different materials are available to suit applications.

BLASTMAX GA Series Pump Unit



The **BLASTMAX** GA series pump is our most popular and versatile pump. Available in several models for industrial cleaning, surface preparation or Hydrostatic Testing applications.



BLASTMAX GA 200 DT
Trailer Mounted

Pump Performance Range					
Pressure PSI [Bar]	Flow Rate GPM [LPM]				
Model No./HP	GA 75	GA 100	GA 150	GA 200	GA 250
40,000 [2758]	3.21 [12.15]	4.28 [16.20]	6.43 [24.34]	8.57 [32.44]	10.71 [40.54]
20,000 [1379]	6.43 [24.34]	8.57 [32.44]	12.86 [48.68]	17.14 [64.88]	21.43 [81.12]
15,000 [1034]	8.57 [32.44]	11.43 [43.27]	17.14 [64.88]	22.85 [86.50]	28.57 [108.15]
10,000 [689]	12.86 [48.68]	17.14 [64.88]	25.71 [97.32]	34.28 [129.76]	42.85 [162.20]
5,000 [345]	25.71 [97.32]	34.28 [129.76]	51.42 [194.64]	68.56 [259.52]	85.70 [324.41]

Flow rates are theoretical based on 100% volumetric and mechanical efficiency

Standard Features

- Pump:**
Horizontal, valve-in-line plungers
- Water tank:**
50 gallon water tank standard
- Charge Pump:**
Heavy duty cycle charge pump standard.
- Suction plumbing:**
Washable strainer and large capacity stainless steel bag type filter for up to 20,000 psi. 40,000 psi units equipped with 1 and 5 micron filters and charge pump.
- Power transmission:**
Kevlar reinforced synchronous drive system with safety belt guide.
- Discharge plumbing:**
Discharge manifold with interchangeable high pressure discharge connections, stainless steel glycerin filled pressure gauge and relief valve or rupture disc.



BLASTMAX GA 200 ES
Skid Mounted



GA Series Pump Unit

Pump Specifications

Power End

Power End:

Power Frame- Iron alloy with sturdily ribbed Wall sections

Crankshaft:

Aircraft quality alloy steel induction hardened Journals, may extend from either side.

Crankshaft Bearings:

Heavy duty high speed journal Bearings (non-Babbitt).

Crossheads:

Cylindrical type nodular iron. Wrist Pin is Case hardened and ground steel with double Needle Roller Bearings. Extension Rods are burnished stainless steel.

Lubrication:

Power ends parts are splash oil lubricated. Cooling and filtering oil circulation system optional for higher Horsepower's.

Connecting Rods:

High strength, ribbed section, Ductile iron.

Oil Wiper Seals:

Easily replaceable, double lip.



Fluid End

Fluid Cylinders:

Proprietarily treated stainless steel which eliminates breakage. Other materials available to Suit the application.

Valves and Seats:

Proprietarily treated stainless Steel enhances the Valve-in-Line life and eliminates Breakage. All valves may be reconditioned by field lapping Or surface grinding.

Plungers:

Non-scoring solid Alumina Ceramic for up To 20,000 psi. Solid carbide or ceramic for up to 40,000 psi.

Packing:

Self-adjusting advanced polymer material for up to 20,000 psi. New low load design for up to 40,000 psi.

Lubrication:

Plungers and Packing are non-drip, Closed loop pressure lubricated by fluid from Suction Manifold. No external lubrication is necessary.

Manifolds:

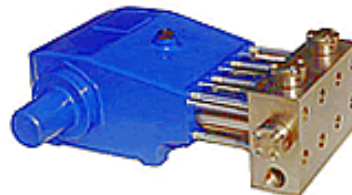
Individual lightweight Suction Discharge Manifolds are easily removed for simple maintenance. Different materials are available to suit applications.

Bare Shaft Pumps

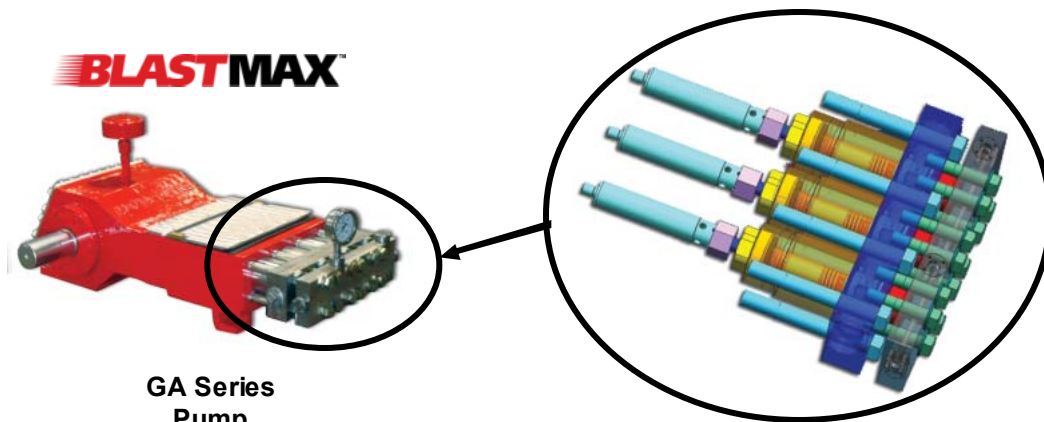
The unique Valve-In-Line Fluid End design provides higher volumetric efficiency, lower maintenance, quick packing changes and lower operating cost over conventional fluid ends available.



C Series Pump



EK Series Pump



GA Series Pump

Valve-In-Line Fluid End

Pump Performance Range			
Pressure PSI [Bar]	Flow Rate GPM [LPM]		
Model No.	EK	GA	C
HP Coverage	5-25	50-250	300-500
Pressure Coverage	Up to 20,000	20,000 [50-200hp] 40,000 [250hp]	Up to 20,000



Hydrostatic Test Pump Units

KMT Aqua-Dyne offers a wide range of standard to custom test pump units.



**Roughneck HTC 25
Dual Testing System**

The Roughneck HTC is designed for hydrostatic pressure testing and high pressure cleaning

Features and Options

- Designed for the rugged industrial and off shore markets
- Allows compliance to API 6A and API 16A specifications for pressure testing
- From 5 to 500 HP flow requirements
- From 5,000 to 40,000 PSI pressure requirements
- Standard or custom designs



**EK 25 EF
Hydrostatic Test Unit**



**C 300 ET
Hydrostatic Test Unit**

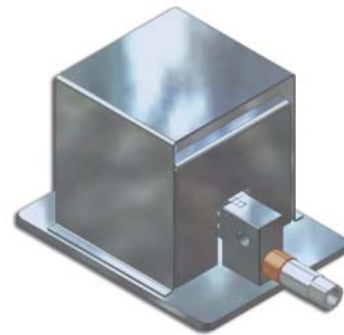
Large volume Trailer mounted systems

Water Jetting Guns

KMT Aqua-Dyne has a wide variety of dump and rotary water jetting guns for surface preparation and high pressure cleaning applications.



Rotary Guns



Foot Operated DYNA-GUNS

KMT Aqua-Dyne's water jetting guns require a the lowest trigger pull while ensuring that the release of the trigger will quickly reduce the system pressure to a minimum. KMT Aqua-Dyne water jetting guns are efficient, safe, easy to use and easy to maintain.



Dump Guns



Pistol Grip DYNA-GUNS



Zero Thrust DYNA-GUNS

Zero Thrust DYNA-GUN (Sub-Sea Gun)

The Zero Thrust Gun is used for underwater cleaning of barnacles and marine growth, paint scale and rust from ships, offshore structures and a variety of other underwater cleaning applications.



- Working Pressures- up to 20,000 psi
- Equipped with quick change piston, seat and seal assembly
- Pistol style grip with trigger guard and safety shroud to prevent accidental engagement of the trigger
- 3,000 RPM durable air motor
- Incorporates a baffled covered reverse thrust with an adjustable balancing device that will offset the forward thrust and balance the jet thrust when the gun is in use.



DUMP GUNS

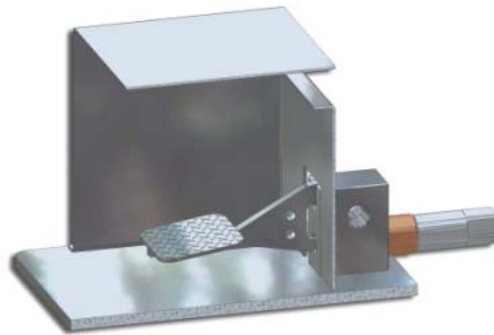
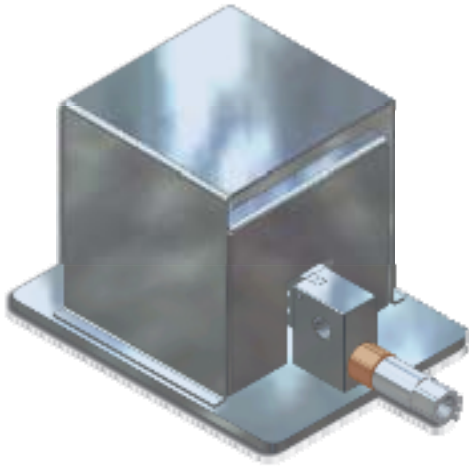
- Working Pressures at 15,000 & 20,000 psi
- Most widely used style of water blasting gun in the industry
- Pistol grip style gun with the trigger guard and safety trigger lock to prevent accidental engagement of the trigger.
- Fore grip and shoulder stock can be adjusted for safety and comfort.
- Lightweight for ease of use.
- Equipped with quick change cartridge assembly for easy field maintenance, *one minute in most cases!*

ROTARY GUNS

- Working Pressures up to 40,000 psi
- Long life quick change high pressure seal
- Pistol style grip with trigger guard and safety shroud
- Lowest air consumption
- 3,000 RPM durable air motor



Foot Operated DYNA-GUN



Cut-away View

- The foot style DYNA-GUN is designed and manufactured to provide long lasting performance in the most rugged and demanding environments.
- The operator's foot controls the pressure leaving both hands free to feed and return flex lances, hoses, etc.
- Weight of the gun is approx. 14 lbs; approx. overall dimensions 14" x 12" x 8"



PISTOL GRIP DYNA-GUN

- Working Pressures- up to 20,000 psi
- Equipped with quick change piston, seat and seal assembly
- Most widely used style of water jetting gun in the industry for surface cleaning applications
- Pistol grip style gun with the trigger guard and safety trigger lock to prevent accidental engagement of the trigger.
- Fore grip and shoulder stock can be adjusted for safety and comfort

Water Jetting Nozzles

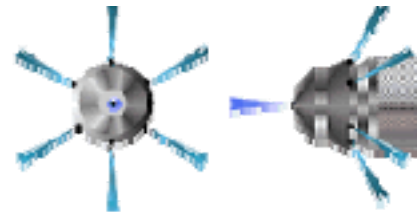
KMT Aqua-Dyne provides a full line of nozzles for almost any application including; surface preparation, industrial cleaning, pipe cleaning, hydro-demolition and much more!

Increase the power of your water jetting machine by up to 40% by simply replacing the nozzle. Of all the components of water jetting the nozzle is the forgotten accessory, yet the nozzle is what creates the pressure and does the cutting or cleaning. What type of spray your nozzle produces directly effects the efficiency of your operation.

- **Shape Jet Nozzles**



- **Flex Lance Nozzles**



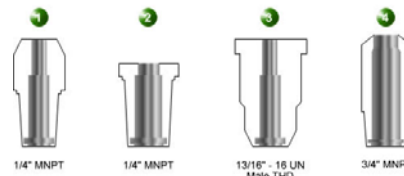
- **Spinners**



- **Conventional Tip orifices**



- **Nozzle Holders**



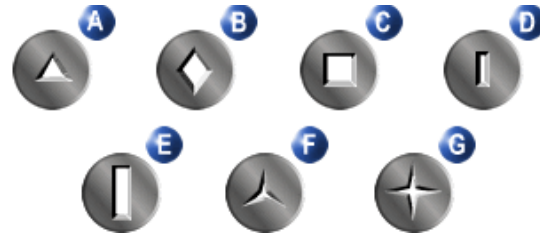
We also offer a variety of nozzles for Tank cleaning, Pipe cleaning, Self rotating lance heads, Line mole nozzles and Rotating jet moles. Call customer Service at for options and Availability.

Shape Jet Nozzles

KMT Aqua-Dyne Shape Jet Nozzles Shaping the Future of Water Jetting Nozzles

Shape Jet nozzles are designed to have more surface area in the spray pattern than conventional round nozzles giving a more efficient cleaning pattern.

Compared to conventional nozzles customers have seen increased removal rates in removing thick coatings, shot gunning clogged heat exchanges tubes and cleaning waste gas fans in the mining industry.

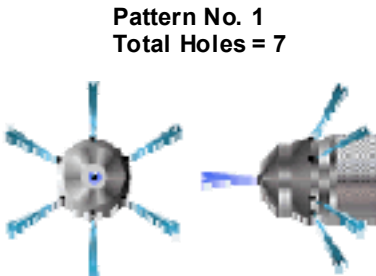


The **Shape Jet** is designed to give you the most cohesive and compact jet on the market today. And that means **more power**... 15-20% more production.

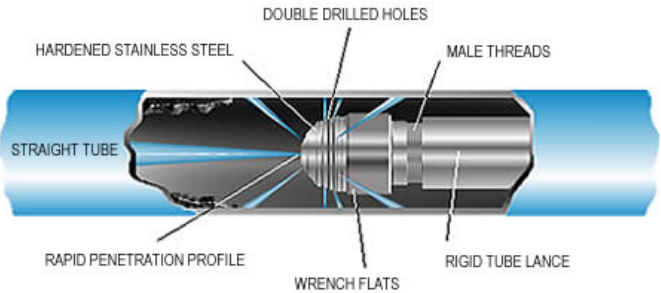
<u>Part #</u>	<u>Maximum Working Pressure</u>	<u>Description</u>
A10421-XX	20,000 PSI (1379 bar)	Triangle long
A10431-XX	20,000 PSI (1379 bar)	Triangle Short
A10427-XX	20,000 PSI (1379 bar)	Four point star-long
A10437-XX	20,000 PSI (1379 bar)	Four point star-short

Flex Lance Nozzles

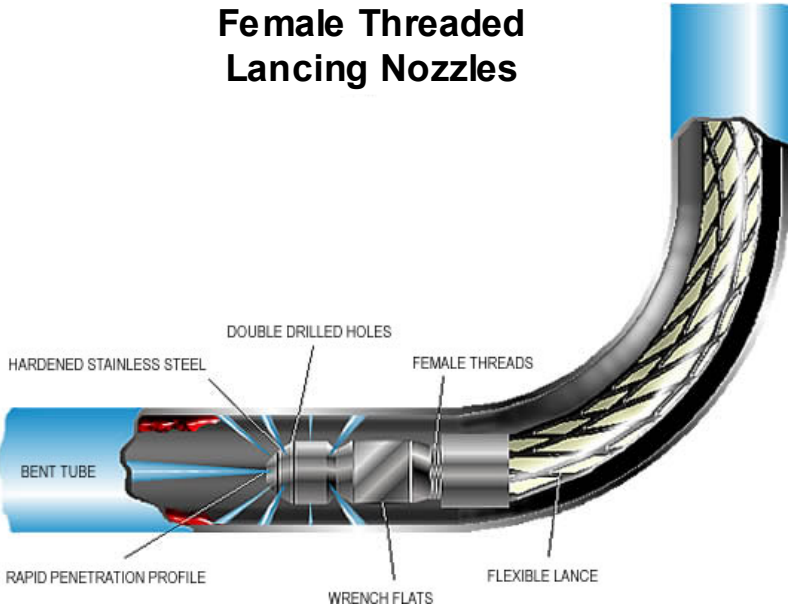
Lancing nozzles are available in virtually almost any size and pattern to meet your needs.



Male Threaded Lancing Nozzles



Female Threaded Lancing Nozzles

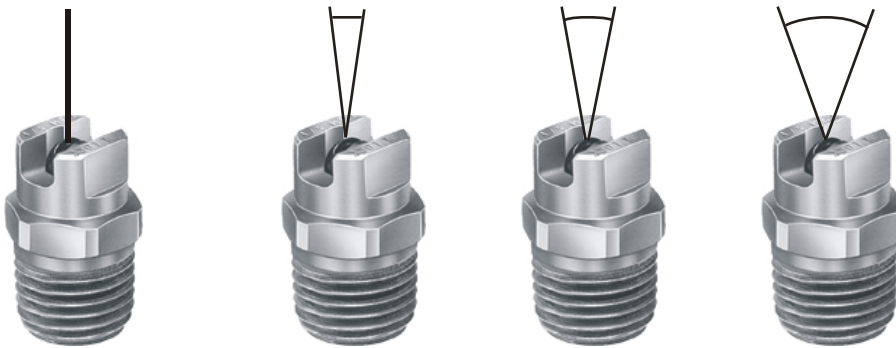
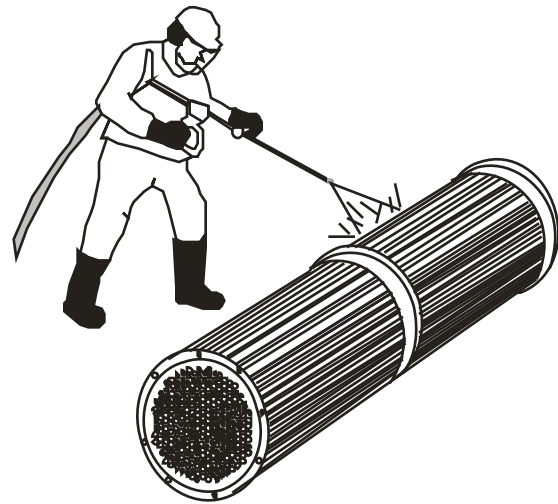


Call Customer Service at 713-864-6929 for sizing and ordering information



Conventional and Fan Tip Nozzles

For high-pressure applications, our conventional tip nozzles provide superior, high-impact performance. Pressures range up to 15,000 psi. These nozzles are suitable for use with a wide range of flow rates and operating conditions. These nozzles are machined from stainless steel and hardened for longer service life. The design of these nozzles includes an internal guide vane that stabilizes turbulence to provide maximum spray impact.



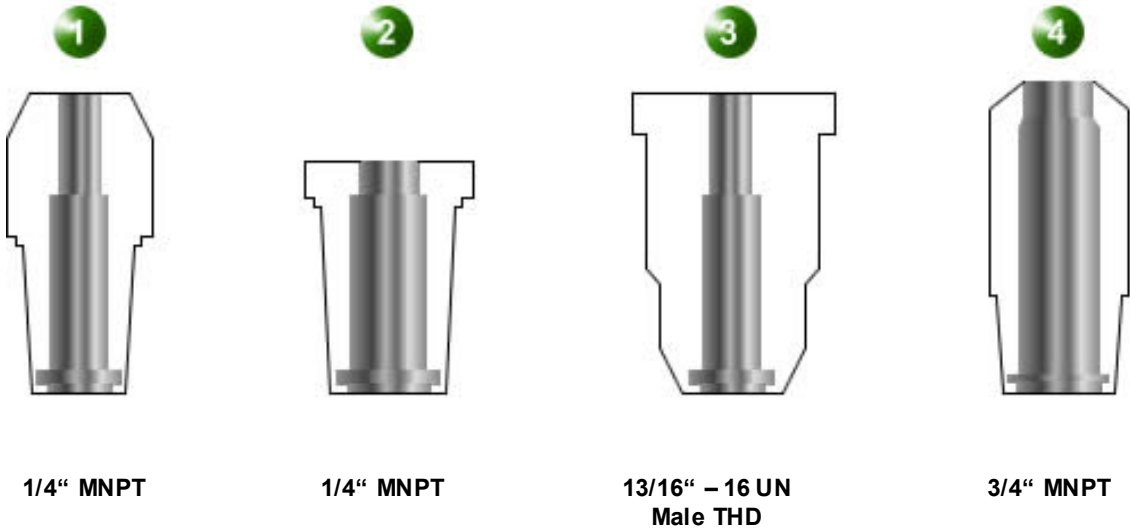
These nozzles are designed primarily for use with KMT Aqua-Dyne up to 15,000 psi Hand Held Dump Guns for general surface cleaning applications. They are available in 15, 25 and 40 degrees fan angles. These nozzles are made from hardened stainless steel.

Call Customer Service at 713-864-6929 for details and availability

Nozzle Holders

Nozzle holders are available for both the SHAPE JET and conventional nozzles. Call our customer service department for details.

Nozzle Holders



Call Customer Service at 713-864-6929 for details and availability

Rubber Waterblast Hoses



I.D. (in)	O.D. (in)	End Connector (in)	Min. Bend Radius	Weight (Lbs/ft)
.17	.31	1/8" NPT	3.0	.43
.20	.42	1/8" NPT	3.5	.49
.25	.50	1/4" NPT	3.5	.58
.32	.56	3/8" NPT	3.5	.85
.50	1.0	1/2" NPT	8.0	1.28
.75	1.41	3/4" NPT	11.0	1.4
1.0	1.56	1" NPT	14.0	1.71

Call Customer Service at 713-864-6929 for details and availability

Thermoplastic Hoses



Hose I.D. (in)	Hose O.D. (in)	End Connector (in)	Min. Bend Radius	End Fitting (in)
.17	.31	1/8" NPT	3.0	.43
.20	.42	1/8" NPT	3.5	.49
.25	.50	1/4" NPT	3.5	.58
.32	.56	3/8" NPT	3.5	.85
.50	1.0	1/2" NPT	8.0	1.28
.75	1.41	3/4" NPT	11.0	1.4
1.0	1.56	1" NPT	14.0	1.71

Call Customer Service at 713-864-6929 for details and availability



RIGID LANCES

Hose I.D. (in)	Hose O.D. (in)	End Connector (in)	Min. Bend Radius	End Fitting (in)
.33	.61	9/16" M.P.	7.0	.95
.50	.88	9/16" M.P.	8.0	1.13
.80	1.3	1" M.P.	15	1.69

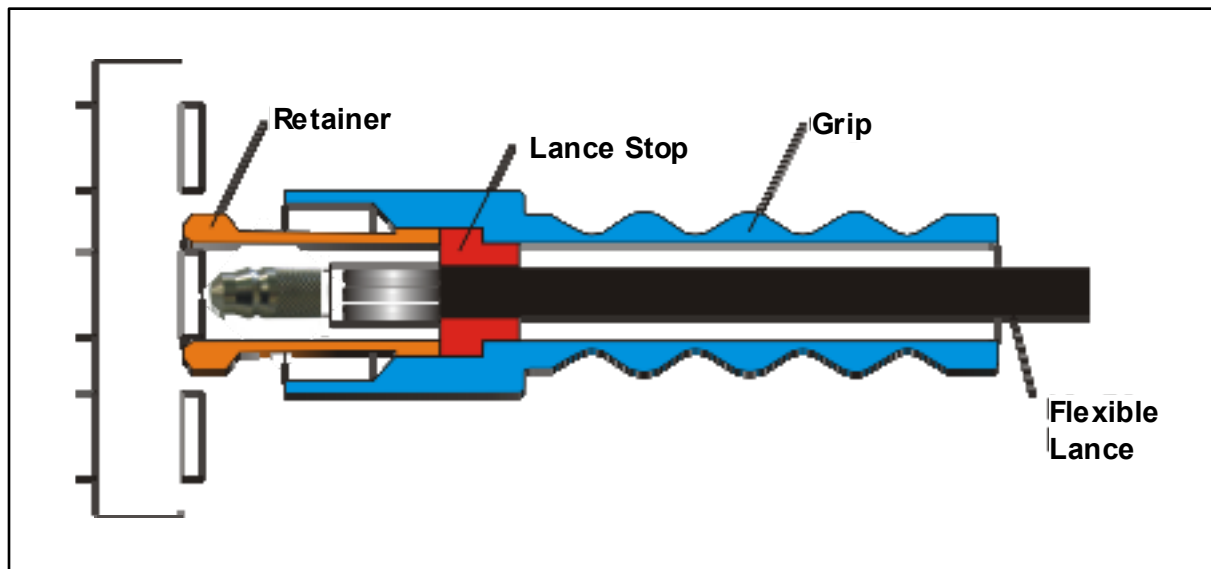


40,000 PSI HOSES

Hose I.D. (in)	Hose O.D. (in)	End Connector (in)	Min. Bend Radius	End Fitting (in)
.20	.50	3/8" HP	6.0	.68
.20	.50	3/8" HP	6.0	.85
.20	.50	3/8" HP	6.0	.85
.20	.50	3/8" HP	6.0	.85

Flexible Lance Guard

KMT Aqua-Dyne **Flexible Lance Guard** reduces the exposure from a pressurized nozzle while it is being inserted or withdrawn from a tube sheet. This minimizes the risk of operator injury resulting from a pressurized nozzle exiting a tube unexpectedly. The nozzle cannot be pulled out of the Flexible Lance Guard thereby protecting the operator from high pressure spray. Lance Guard assembly is provided with three lance stop sizes.



Water Jetting Accessories

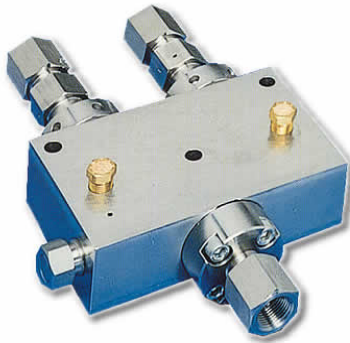
KMT Aqua-Dyne offers a full range of high pressure surface preparation and surface cleaning tools to help you get the job done faster and more efficient. For paint removal, coating removal, blast brushing, cleaning of walls, girders, vessels, storage tanks, pipes, steel structures and masonry structures.



Multi-Gun Flow Splitter

KMT Aqua-Dyne's Multi-Gun Flow Splitters are designed for simultaneous multi dump gun applications from one pump or water source. The Flow Splitters allow independent gun operation while maintaining a consistent pump working pressure. Stainless steel construction provides excellent corrosion resistance and minimal internal valve and seat movement helps to ensure long, dependable service.

Other features include a quick change sapphire orifice for various pressure and flow requirements and easily replaceable 9/16" AE and 1/2" FNPT adapters for pressure changes in the field. Also the Flow Splitter's compact design simplifies the connection of additional hand and foot guns on the job site.



(2-Gun shown)

- Working Pressures- up to 20,000 psi at 100gpm
- Designed for simultaneous multi dump gun applications from one pump or water source.
- Allow independent gun operation while maintaining a consistent pump working pressure.
- Quick change sapphire orifice for various pressure and flow requirements
- Minimal pressure drop for efficient cleaning
- 2, 3 and 4 splitter options

Aqua-Dyne's Multi-Gun Flow Splitter may be used with all manufacturers' waterjetting equipment.

Options Available

- 2 Gun operations 15,000 PSI, 1/2" NPT (F)
- 2 Gun operations 20,000 PSI, 9/16" MP (F)
- 3 Gun operations 15,000 PSI, 1/2" NPT (F)
- 3 Gun operations 20,000 PSI, 9/16" MP (F)
- 4 Gun operations 15,000 PSI, 1/2" NPT (F)
- 4 Gun operations 20,000 PSI, 9/16" MP (F)

Diverter Valve

KMT Aqua-Dyne's Diverter Valve allows two operators to run independently of each other from one pump source.

Release time of the gun trigger to quick pressure dumping at the gun is important for operator safety. The Diverter Valve decreases reaction time by quickly bringing pressure to atmosphere.

The Diverter Valve maintains a constant pressure and flow rate to each gun regardless if one or two are operating at the same time.



Features

- Simultaneous multi-gun operation
- Multi-user operation independent of each other
- Compact lightweight design
 - 25 lbs
 - Dimensions: Width 12" - Height 10-3/4" - Length 25-1/2"
- Simple construction and cartridge seal assembly for easy set-up, maintenance and use ...no adjustments needed
- Quick change sapphire orifice
- Long life stainless steel construction
- Minimal wear on internal valves and seats
- Working pressures- up to 40,000 psi
- Minimal pressure drop for more efficient cleaning
- Easily replaceable adapters for pressure changes

Connections

<u>Description</u>	<u>Inlet</u>	<u>Outlet</u>
Diverter Valve-Electric unit	9/16" AE HP (F)	3/8" HP (F)
Diverter Valve-Diesel unit	9/16" AE HP (F)	3/8" HP (F)

Mini Scrubber

Designed with 6 nozzle spray bars, the Mini Scrubber's 6" cleaning head easily outperforms conventional hand held water jetting guns for most flat surface cleaning. The dual triggered Mini Scrubber comes equipped with adjustable wheels and a vacuum attachment engineered for 100% removal and containment of blasted coatings and water resulting in a cleaner work area. It is lightweight, produces a consistent finish, reduces operator fatigue and allows for closer blasting to surface edges.



- Working Pressures- up to 40,000 psi
- Lightweight and produces a consistent finish while reducing operator fatigue
- Allows for close work positioning to edges

<u>Options</u>	<u>Max. Pressure</u>
Mini Scrubber 20	20,000 PSI
Mini Scrubber 40	40,000 PSI

Applications include paint removal, coating removal and cleaning of:

- Ship Hulls
- Girders
- Vessels
- Storage Tanks
- Steel Structures
- Masonry Structures

Dyna Mo Rotary Surface Cleaner

A compact, safe and lightweight tool designed for the toughest surface preparation problems on most horizontal surfaces including floors, decks, grates, roads and concrete pavements in the marine, offshore, refinery, petro-chemical, transportation and other industries.

With working pressures to 40,000psi, the DYNA MO is perfectly sized for the tightest restricted spaces and confined areas. Coupled with KMT Aqua-Dyne's pumps, the Floor cleaner offers the most efficient and productive surface cleaning system in the industry.



Dyna Mo IV



Dyna Mo V

Benefits:

- Faster cleaning
- Compact design
- Lightweight
- Low maintenance
- 3,000 rpm air motor
- Adjustable nozzle height
- Built-in safety shroud Pressures- up to 40,000 psi
- Convenient nozzle height adjustment-5/8" to 1-1/8"
- Compact, lightweight low maintenance design
- Up to 6" cleaning area with 6 nozzles
- Deadman valve for safety shutoff

Options	Max. Pressure
Dyna Mo IV	20,000 PSI
Dyna Mo V	40,000 PSI

Rotating Hose Device (RHD)

Aqua-Dyne's R.H.D. System is a revolutionary, internal pipe cleaning system with specially designed cleaning nozzles. The hose is rotated as it passes through the pipe while the cleaning nozzle remains forced against the pipe wall to improve cleaning compared to other pipe cleaning techniques. Tough enough include cleaning of solidly blocked or scaled tubes.



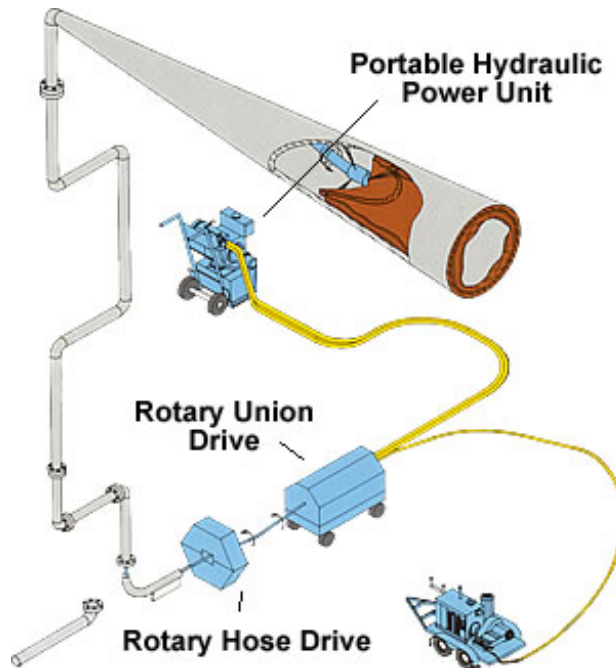
Applications:

- The removal of many tough, hard or brittle deposits from the inside of tubular products with comparatively high cleaning rates.
- The cleaning of tubular products that are solidly plugged with a wide variety of deposits.
- The removal of many products from concrete, PVC, steel and any other pipe materials with minimal damage to the pipe.
- The cleaning of heat exchanger tubes in areas with limited access.

Features:

- Working Pressures- up to 40,000 psi
- Single best accepted pipe cleaning tool for contractors
- Cleaning operation is automatic and thereby Reduces the cleaning time compared to most manual techniques
- Device can negotiate bends in piping systems up to 1,500 feet in length
- Lightweight portable system
- Deadman valve for safety shutoff

Rotating Hose Device (RHD)



Features:

- Rotating Hose Device
- Maximum working pressure - 40,000 psi.
- Maximum range- 200 gpm up to 12,000 psi; available in 8 gpm @ 40,000 psi.
- Maximum cleaning distance - 1500 feet in length.
- The unit can normally negotiate bends in piping systems.
- The machine is comparatively light and portable permitting its use in many small or elevated work areas.
- Rotational speed, rotational direction, pressure and flow are all remotely and independently controllable.

Advantages:

- Cleaning operation is automatic and thereby reduces the cleaning time compared to most manual cleaning techniques.
- Since forward speed and rotational speeds are independently set, the size of particles removed can be controlled more easily as compared to other cleaning techniques.
- Due to the fact that the operator is not in close proximity to the water jet, the system is safer than most manual high pressure water cleaning techniques.
- Being hydraulically powered it can be used in certain explosive type environments where many engine powered machines could not safely operate.
- The rotary action of the R.H.D. can greatly reduce the amount of streaking as compared to the more traditional manual line mole cleaning techniques.

Rotary Grit Nozzle

Designed to be used with Aqua-Dyne's 40,000 psi Rotary Gun, the Rotary Grit Nozzle Assembly (Part No. B40509-28) combines water and an abrasive substance into the jet stream to produce a more efficient and powerful surface preparation tool. The Rotary Gun creates a compact vortex in the Rotary Grit Nozzle for effective delivery of the abrasive grit to the surface to be cleaned. Its rigid design uses aircraft style aluminum and carbide materials for long life and durability.



Combines water and an abrasive substance into the jet stream to produce a more efficient and powerful surface preparation tool.

Ridged design of aircraft aluminum and carbide materials for durability and long life.

Features

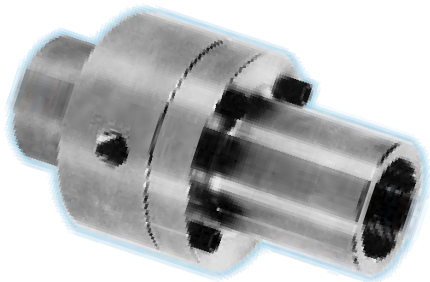
- Max. working pressure 40,000 psi
- Max. flow 8.57 gpm@40,000psi
- Max. horsepower 200 hp
- Weight 2 lbs
- Grit inlet port 3/8" ID
- Dimensions 12 1/4" l x 2 1/2" diam.

Benefits:

- Allows profiling to white metal (if desired)
- Quick add-on accessory to Aqua-Dyne's Rotary Gun
- Lightweight
- Low maintenance
- Faster cleaning
- Compact design

Dyna-Vac Vacuum Pump

Aqua-Dyne's Dyna Vac does the same work as a big vacuum truck at a fraction of the cost. Applications include sump and sewer pumping, underwater dredging and silt removal as well as general clean up. Attached to a rotary floor cleaner the Dyna Vac sucks up debris and water for recycling and disposal.



Discharge from the Dyna Vac depends on the length, diameter and interior surface condition of the suction and discharge lines. Density, debris size, viscosity and temperature all react to influence the amount which can be transported by the Dyna Vac. Made from stainless steel and outfitted with sapphire nozzles, the Dyna Vac's low cost and maintenance free operation make it a cost effective Water Energy™ work tool.

Connection Options

- 2" NPT
- 3" NPT
- 1" NPT

- For sump & sewer pumping, underwater dredging & silt removal
- Allows up to 3" solids. Suction lifts pumped up to 20 feet & discharge heights up to 40 feet. Can be used in tandem for additional distances depending on the fluid density and viscosity
- No moving parts or replaceable nozzles
- Maximum flow rate is 8.57 gpm at 40,000 psi
- Compact: 9" L and 5 1/2" W
- Lightweight: Approx. 9 lbs

Rotary Unions

- Designed for pressure up to 20,000 psi and flow rates to 200 gpm
- Suitable for a wide variety of high pressure fluids at temperatures up to 250 degrees.
- Power driven "In-Line Flow Swivels" reduce pressure drop to a minimum while maximizing thru-put
- Polymer seals and triple heavy duty sealed radial and thrust load bearings ensure long trouble free operation



Options

- Rotary Union 200 gpm at 12,000psi
- Rotary Union 75 gpm at 15,000psi
- Rotary Union 75 gpm at 20,000psi
- Rotary Union 75 gpm at 15,000psi

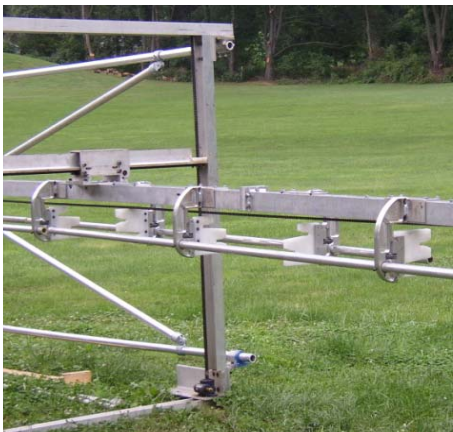
In & Out Ports

- 1" NPT (F) x 1" NPT 500 rpm
- 3/4" NPT (F) x 3/4" NPT 500 rpm
- 1" MP (F) x 1-5/16" Type M 500 rpm
- 3/4" NPT (F) x 1/2" NPT (F) 400 rpm

Heat Exchanger Lancing Machine

Single or dual rotary lance with adjustable center lines
Stationary guides (no sliding guide assemblies)

- 2000RPM capable (depending on flow)
- 50k @6 gpm/20k@12gpm
- Single rotary swivel
- Pneumatic Power
- Independent gearbox reduces swivel fatigue
- Simple cable drive Up to 60 feet / minute linear travel (unless otherwise specified)
- Low profile box tubing design
- Two (2) Stands – manual X and Y-axis movement (power movement optional)
- Standard equipped for 20 foot bundles with unlimited length capabilities
- Aluminum construction
- Free- standing control station with removable pendant and harness for operator mobility
- Pressure activated “peek cycle” to help prevent lance breakage



Options

Unlimited length extensions

- 10k swivel and guides
- 20k swivel's) and guides
- 40k swivel's) and guides
- 50k swivel's) and guides
- 10k, 20k, or 60k lance
- RSV-60 remote water on/off valve
- hydraulic power
- full/partial automation per application
- custom stand sizes
- third stand
- specialty nozzles
- vertical hanger
- power synchronized stand movement

Parts

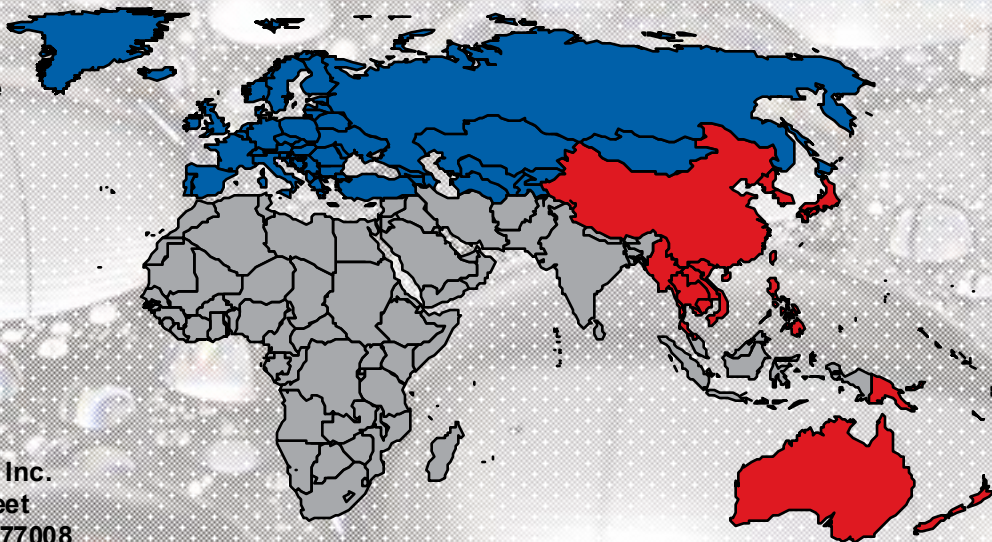
KMT Aqua-Dyne stocks a full range of wear parts and replacement parts to keep your waterblasting/waterjetting equipment running efficiently and productive. Please call customer service for availability and part numbers.



Safety equipment is available in a variety of types and protection levels.

Sales Areas & Contacts

We have available fully trained customer service and service technicians to help you on the phone or on site.



KMT Aqua-Dyne Inc.
3620 W. 11th Street
Houston, Texas 77008

Phone: (713) 864-6929
Fax: (713) 864-0313
Email: sales@aqua-dyne.com
Website: www.aqua-dyne.com

