GMA Garnet™

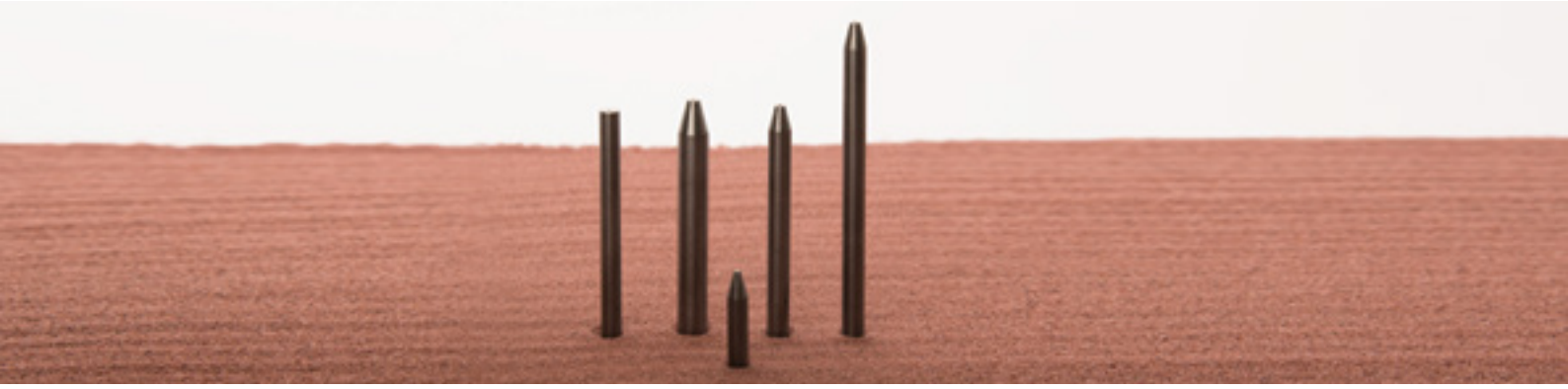
Waterjet Parts

ASIA PACIFIC | AMERICAS | EUROPE | MIDDLE EAST

gmagarnet.com

Waterjet Parts

Kennametal ROCTEC 100 Nozzles



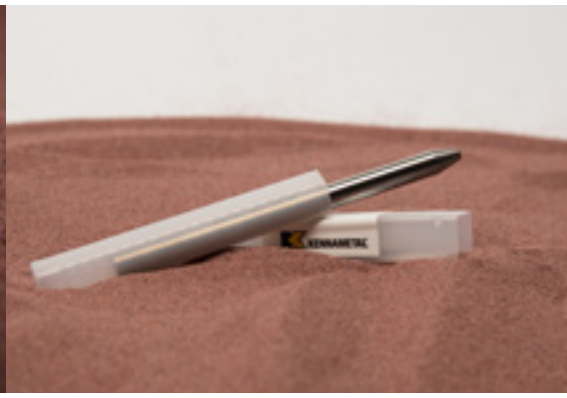
ROCTEC NOZZLES		
GMAE Part no.	Description	Compatible Cutting Heads
10000279	Roctec 100 6,35 x 0,76 x 76,2 mm	Allfi Bystronic
10000290	Roctec 100 6,35 x 0,81 x 74,9 mm flat end	
10000405	Roctec 100 6,35 x 0,91 x 76,2 mm	
10000278	Roctec 100 6,35 x 1,02 x 76,2 mm	
10000293	Roctec 100 7,14 x 0,76 x 76,2 mm	WSI Flow
10000287	Roctec 100 7,14 x 0,91 x 76,2 mm	
10000292	Roctec 100 7,14 x 1,02 x 76,2 mm	
10000308	Roctec 100 7,14 x 0,76 x 101,6 mm	Flow
10000259	Roctec 100 7,14 x 0,91 x 101,6 mm	
10000281	Roctec 100 7,14 x 1,02 x 101,6 mm	
10000304	Roctec 100 7,14 x 1,52 x 101,6 mm	
10000255	Roctec 100 7,62 x 0,76 x 76,2 mm	Hypertherm CMS
10000256	Roctec 100 7,62 x 1,02 x 76,2 mm	
10000285	Roctec 100 8,00 x 0,76 x 101,6 mm	OMAX
10000294	Roctec 100 9,47 x 0,76 x 76,2 mm	KMT
10000311	Roctec 100 9,47 x 0,91 x 76,2 mm	
10000295	Roctec 100 9,47 x 1,02 x 76,2 mm	

**Special sizes available upon request.*

KENNAMETAL®
AUTHORIZED DISTRIBUTOR

Waterjet Parts

Kennametal ROCTEC 500 Nozzles



ROCTEC NOZZLES		
GMAE Part no.	Description	Compatible Cutting Heads
10000364	Roctec 500 6,35 x 0,76 x 76,2 mm	Allfi Bystronic
10000379	Roctec 500 6,35 x 0,91 x 76,2 mm	
10000357	Roctec 500 6,35 x 1,02 x 76,2 mm	
10000359	Roctec 500 7,14 x 0,76 x 76,2 mm	WSI Flow
10000371	Roctec 500 7,14 x 0,91 x 76,2 mm	
10000357	Roctec 500 7,14 x 1,02 x 76,2 mm	
10000368	Roctec 500 7,14 x 1,27 x 88,9 mm	
10000383	Roctec 500 7,14 x 0,76 x 101,6 mm	Flow
10005030	Roctec 500 7,14 x 0,91 x 101,6 mm	
10000366	Roctec 500 7,14 x 1,02 x 101,6 mm	
10005674	Roctec 500 7,62 x 0,76 x 76,2 mm	Hypertherm CMS
10007285	Roctec 500 7,62 x 0,91 x 76,2 mm	
10000347	Roctec 500 7,62 x 1,02 x 76,2 mm	
10000398	Roctec 500 8,00 x 0,76 101,6 mm	OMAX
10004059	Roctec 500 8,00 x 1,02 x 101,6 mm	
10006823	Roctec 500 8,00 x 1,02 x 101,6 mm rated breakpoint	
10000374	Roctec 500 9,47 x 0,76 x 76,2 mm	KMT
10008083	Roctec 500 9,47 x 0,91 x 76,2 mm	
10000378	Roctec 500 9,47 x 1,02 x 76,2 mm	
10000388	Roctec 500 9,47 x 1,09 x 76,2 mm	
10000354	Roctec 500 9,47 x 1,10 x 79,4 mm	
10000414	Roctec 500 9,47 x 0,76 x 101,6 mm	KMT
10004519	Roctec 500 9,47 x 0,76 x 101,6 mm square entrance	

**Special sizes available upon request.*

Waterjet Parts

Kennametal ROCTEC APX® Nozzles

ROCTEC® APX NOZZLES		
GMAE Part no.	Description	Compatible Cutting Heads
10009622	Roctec APX 7,14 x 1,02 x 76,2 mm	WSI, Flow
10009634	Roctec APX 7,14 x 0,76 x 101,6 mm	Flow
10009623	Roctec APX 7,14 x 0,76 x 101,6 mm incl. Ring and Washer	Flow
10009635	Roctec APX 7,14 x 0,91 x 101,6 mm	Flow
10009633	Roctec APX 7,14 x 0,91 x 101,6 mm incl. Ring and Washer	Flow
10009632	Roctec APX 7,14 x 1,02 x 101,6 mm	Flow
10009631	Roctec APX 7,14 x 1,02 x 101,6 mm incl. Ring and Washer	Flow
10009691	Roctec APX 9,47 x 0,76 x 101,6 mm	KMT
10009692	Roctec APX 9,47 x 0,76 x 101,6 mm square entrance AVAILABLE FROM OCT 2019	KMT

**Special sizes available upon request.*

ROCTEC NOZZLES	
Roctec 100 in length 76,2 mm	From 20 pcs. on From 50 pcs. on
Roctec 100 in length 101,6 mm	From 20 pcs. on From 50 pcs. on
Roctec 500 in length 76,2 mm	From 20 pcs. on From 50 pcs. on
Roctec 500 in length 101,6 mm	From 20 pcs. on From 50 pcs. on
Roctec APX in length 76,2 mm	From 1 - 19 pcs. From 20 pcs. on From 50 pcs. on
Roctec APX in length 101,60 mm	From 1 - 19 pcs. From 20 pcs. on From 50 pcs. on

ROCTEC APX

KENNAMETAL®
AUTHORIZED DISTRIBUTOR

Waterjet Parts
Diamond Orifices

Strongest, Hardest Waterjet Orifice

The diamond orifice range is the hardest, strongest orifice available in the industry. It has the longest lifespan of a minimum of 500 cut hours from waterjet use.

It enables water pressures up to 90,000 psi without signs of erosion or wear on the jewel. It is reliable and provides the cleanest, most precise cut when used with a Dimond Guard Filter on waterjet machines.

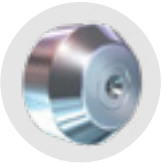
Size: 0.004"/0.10 mm - 0.018"/0.45 mm

Performance Advantages

- Lifespan of around 1,000 cut hours
- Hardest, most robust orifice
- Maximum cutting precision and edge quality on applications
- Superior cutting performance
- Optimise jet stream length
- Reduces overall operating costs.

ORIFICES & GUARD FILTER		
Product	**Description**	**Compatible Cutting Heads**
Orifice Diamond suitable for Paser III	0,004" / 0,10 mm - 0,018" / 0.45 mm	WSI/Flow
Orifice Diamond suitable for Paser IV	0,004" / 0,10 mm - 0,018" / 0.45 mm	Flow
Orifice Diamond suitable for Paser ECL	0,004" / 0,10 mm - 0,018" / 0.45 mm	Flow
Orifice Diamond Type 10	0,004" / 0,10 mm - 0,018" / 0.45 mm	KMT
Orifice Diamond Type 18	0,004" / 0,10 mm - 0,018" / 0.45 mm	BHDT/CMS/Allfi
Orifice Diamond Type 25	0,004" / 0,10 mm - 0,018" / 0.45 mm	Bystronic
Orifice Diamond Type 27	0,004" / 0,10 mm - 0,018" / 0.45 mm	KMT
Diamond Guard Filter	1/4" or 3/8"	ALL

Paser III


Paser IV

Paser ECL

Type 10

Type 18

Type 25

Type 27

Filter

Waterjet Parts
Ruby Orifices

Most Common, Industry Standard Orifice

Rubies and sapphire orifices are basic consumable parts for waterjet cutting. Sapphire orifices deliver long, coherent jet streams, whereas ruby orifices are slightly more robust and deliver a shorter, more turbulent jet stream.

Size: 0.004"/0.10 mm - 0.018"/0.45 mm

Performance Advantages

- Commonly used for non-critical applications
- Average cutting speed, edge cut quality and durability.

ORIFICES & GUARD FILTER		
Product	**Description**	**Compatible Cutting Heads**
Orifice Ruby suitable for Paser III	0,004" / 0,10 mm - 0,018" / 0.45 mm	WSI/Flow
Orifice Ruby suitable for Paser IV	0,004" / 0,10 mm - 0,018" / 0.45 mm	Flow
Orifice Ruby suitable for Paser ECL	0,004" / 0,10 mm - 0,018" / 0.45 mm	Flow
Orifice Ruby Type 10	0,004" / 0,10 mm - 0,018" / 0.45 mm	KMT
Orifice Ruby Type 18	0,004" / 0,10 mm - 0,018" / 0.45 mm	BHDT/CMS/Allfi
Orifice Ruby Type 25	0,004" / 0,10 mm - 0,018" / 0.45 mm	Bystonic
Orifice Ruby Type 27	0,004" / 0,10 mm - 0,018" / 0.45 mm	KMT
Diamond Guard Filter	1/4" or 3/8"	ALL

Paser III

Paser IV

Paser ECL

Type 10

Type 18

Type 25

Type 27

Filter

Waterjet Parts
tetraCORE Orifices

More Cutting, Less Downtime

tetraCORE™ orifices are the most cost effective orifice available. tetraCORE™ orifices are manufactured under tightly controlled conditions and engineered to offer superior cutting performance for almost any waterjet cutting application.

Size: 0.004"/0.10 mm - 0.018"/0.45 mm

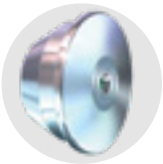
Performance Advantages

- Lasts up to 15 times longer than ruby or sapphire orifices - Approximately 400 or more cut hours
- Increases mixing tube life by up to 30%
- Superior jet stream consistency
- Fewer scrapped parts
- Excelling reliability and efficiency
- Reduces overall operating costs.

ORIFICES & GUARD FILTER		
Product	**Description**	**Compatible Cutting Heads**
Orifice tetraCORE suitable for Paser III	0,004" / 0,10 mm - 0,018" / 0.45 mm	WSI/Flow
Orifice tetraCORE suitable for Paser IV	0,004" / 0,10 mm - 0,018" / 0.45 mm	Flow
Orifice tetraCORE suitable for Paser ECL	0,004" / 0,10 mm - 0,018" / 0.45 mm	Flow
Orifice tetraCORE Type 10	0,004" / 0,10 mm - 0,018" / 0.45 mm	KMT
Orifice tetraCORE Type 18	0,004" / 0,10 mm - 0,018" / 0.45 mm	BHDT/CMS/Allfi
Orifice tetraCORE Type 25	0,004" / 0,10 mm - 0,018" / 0.45 mm	Bystronic
Orifice tetraCORE Type 27	0,004" / 0,10 mm - 0,018" / 0.45 mm	KMT
Diamond guard filter	1/4" or 3/8"	ALL

Paser III

Paser IV


Paser ECL

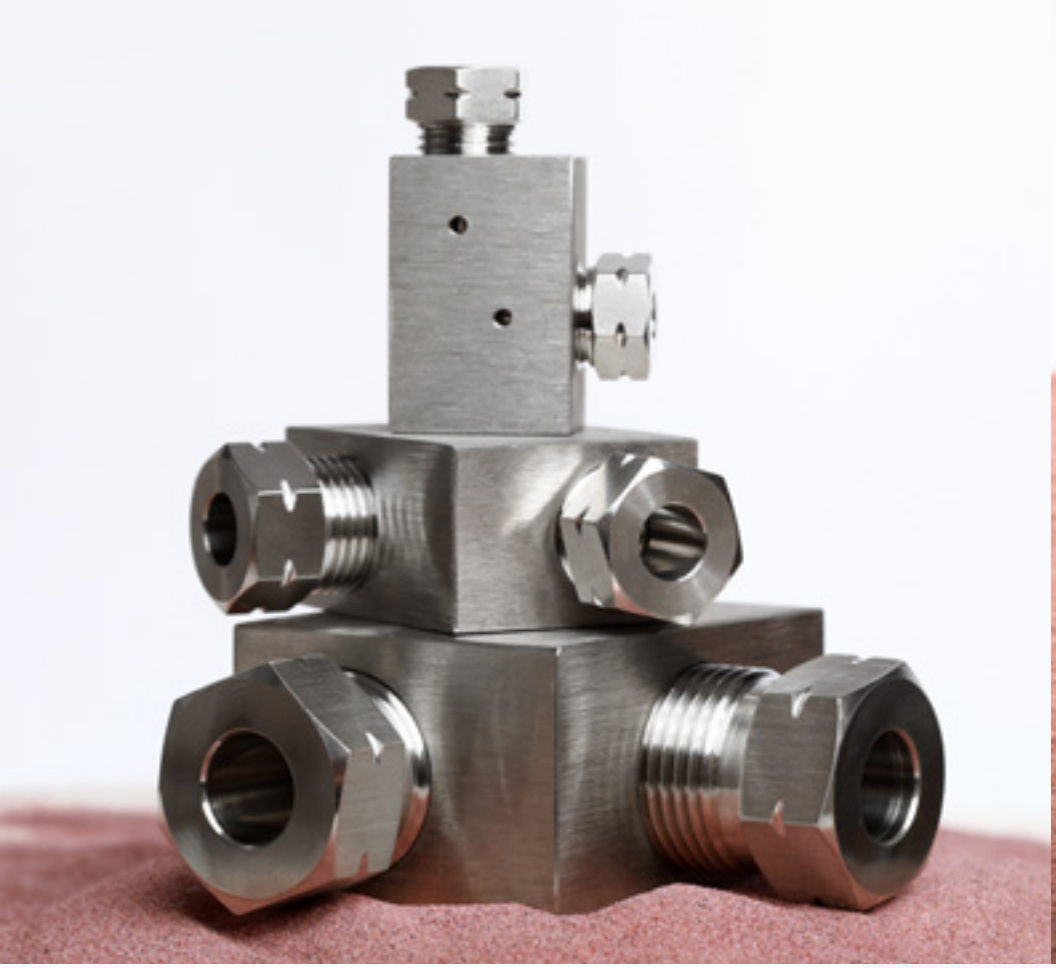
Type 10

Type 18

Type 25

Type 27

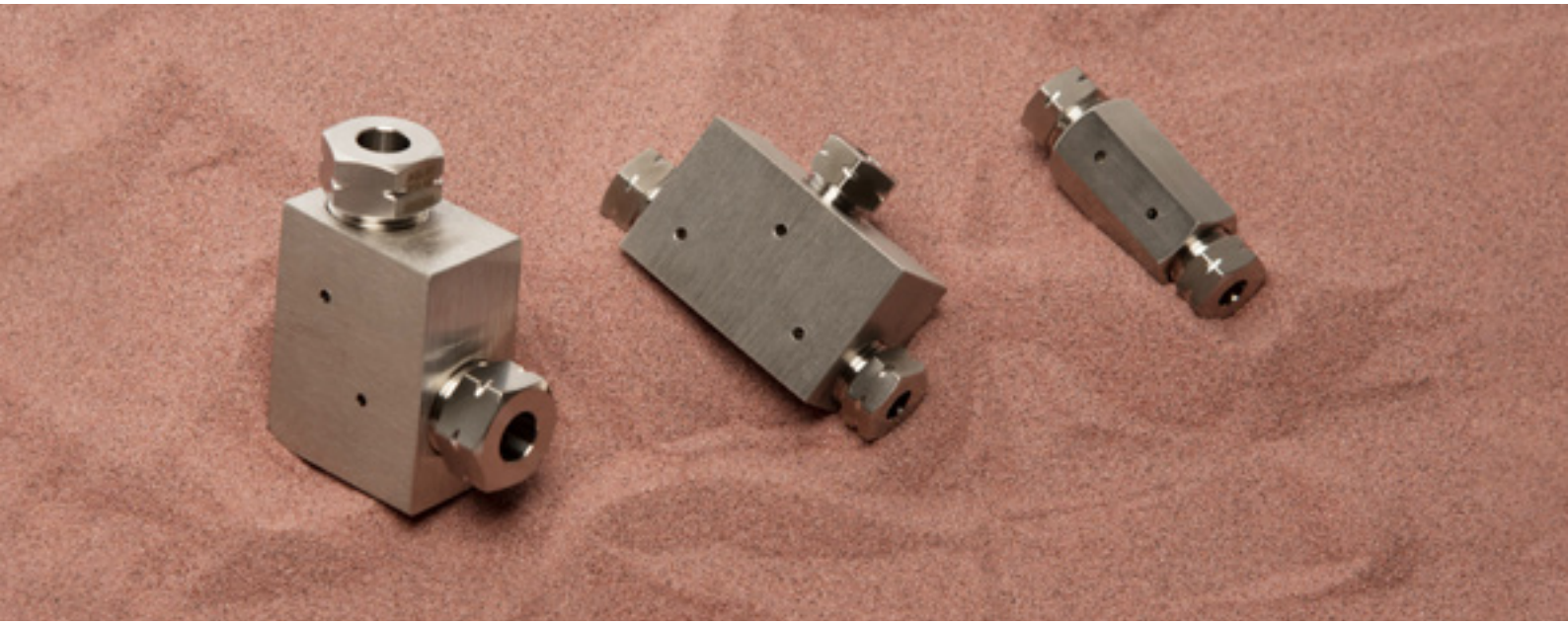
Filter



Waterjet Parts
Connecting Parts

GMA carries a complete range of waterjet connecting parts such as high pressure tubes, elbow, guard filter, etc. to ensure a reliable abrasive flow for your waterjet machines. With GMA Garnet™ abrasive paired with the right orifice and waterjet parts, you can be confident to maximise your waterjet machine performance and safeguard your equipment for an efficient, cost effective, superior cutting speed.

Waterjet Parts
Connecting Parts

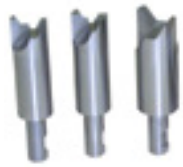


CONNECTING PARTS			
GMAE part no.	Description	Part no.	
10000626	Way Valve 1/4”	G-A-0788-1	
10000627	2 Way Valve 3/8”	G-A-0788-3	
10000628	2 Way Valve 9/16”	G-A-0788-5	
10000603	Elbow 90°, 1/4”	G-A-0775-1	
10000604	Elbow 90°, 3/8”	G-A-0775-2	
10000605	Elbow 90°, 9/16”	G-A-0775-3	
10000606	Tee 1/4”	G-A-0776-1	
10000607	Tee 3/8”	G-A-0776-2	
10000608	Tee 9/16”	G-A-0776-3	
10000609	Cross 1/4” (4 vie)	G-A-0777-1	
10000610	Cross 3/8” (4 vie)	G-A-0777-2	
10000611	Cross 9/16” (4 vie)	G-A-0777-3	
10000655	Gland 1/4”	G-A-2866	
10000653	Gland 3/8”	G-A-2838	
10000660	Gland 9/16”	G-A-3950	

Waterjet Parts
Connecting Parts

CONNECTING PARTS			
GMAE part no.	Description	Part no.	
10000620	Plug 1/4”	G-A-0784-1	
10000621	Plug 3/8”	G-A-0784-2	
10000622	Plug 9/16”	G-A-0784-3	
10000656	Collar 1/4”	G-A-2867	
10000654	Collar 3/8”	G-A-2839	
10000612	Coupling - Straight 1/4”	G-A-0780-1	
10000613	Coupling -Straight 3/8”	G-A-0780-2	
10000614	Coupling - Straight 9/16”	G-A-0780-3	
10008951	Coupling - Reducing 1/4” - 9/16”	G-A-1460	
10001583	Coupling - Reducing 1/4”- 3/8”	G-A-1461	
10000652	Coupling - Reducing 3/8” - 9/16”	G-A-2437	
10001460	Insert Cone 1/4”	G-B-5764-1	
10001461	Insert Cone 3/8”	G-A-5713	
10001462	Insert Cone 9/16	G-A-9425	
10000616	Nipple (m-m) - 70 mm	G-A-0781-2	
10000617	Nipple (m-m) - 76 mm	G-A-0782-3	
10000619	Nipple (m-m) - 102 mm	G-A-0783-4	
10005929	Adaptor 1/4” - 3/8”	G-A-1267	
10008952	Adaptor 1/4” - 9/16”	G-A-1268	
10000631	Adaptor 3/8” - 1/4”	G-A-0792-1	
10000632	Adaptor 3/8” - 9/16”	G-A-0792-3	
10001463	Adaptor 9/16” - 3/8”	G-A-4691	
10005852	Adaptor 9/16” - 1/4”	G-A-4692	
10000560	Coning Kit - 1/4”		
10000563	Coning Kit - 3/8”		
10000566	Coning Kit - 9/16”		

Waterjet Parts
Connecting Parts

CONNECTING PARTS		
GMAE part no.	Description	
10000561	Cutter - 1/4”	
10000564	Cutter - 3/8”	
10000567	Cutter - 9/16”	
10000562	Support - 1/4”	
10000565	Support - 3/8”	
10000568	Support - 9/16”	
10000569	Threading kit - 1/4”	
10000571	Threading kit - 3/8”	
10000573	Threading kit - 9/16”	
10000555	Die - 1/4”	
10000559	Die - 3/8”	
10008156	Die - 9/16”	
10000570	Guide - 1/4”	
10000572	Guide - 3/8”	
10000574	Guide - 9/16”	
10000557	Full Kit Coning and threading 1/4” and 3/8”	
10000556	Full Kit Coning and threading 1/4” , 3/8” and 9/16”	
10000681	Lubricant - 50g	
10000648	Lubricant blue - 50g	
10007116	Lubricant white - 5g	

Waterjet Parts
Connecting Parts

HIGH PRESSURE TUBES	
GMAE part no.	**Description**
10000548	HP Tubing 1/4” - 6m
10000548	HP Tubing 1/4” - 6m
10000548	HP Tubing 1/4” - 6m
10000549	HP Tubing 3/8” - 6m
10000549	HP Tubing 3/8” - 6m
10000549	HP Tubing 3/8” - 6m
10000550	HP Tubing 9/16” - 6m
10000550	HP Tubing 9/16” - 6m
10000550	HP Tubing 9/16” - 6m

**Tube prices are valid in combination; sum of tubes will be considered*

TERMS AND CONDITIONS

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Waterjet Parts
Diamond Guard Filter

Diamond Guard Filter is just a tiny component of a huge waterjet machine. Its function is of significance and deemed as the orifice life saver as it prevents foreign particles and contaminants in the high pressure line from clogging and damaging the orifice.

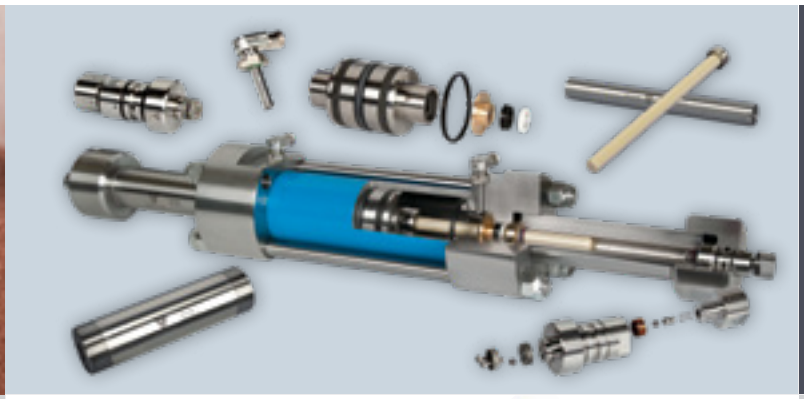
The foreign particles & contaminants in the high pressure line comprised of:

- Scaling formed inside the high pressure line over time
- Stainless steel debris of HP fittings or plastic particles from changing seals, gaskets and high pressure tubes or fittings during machine maintenance.

It is recommended to install Diamond Guard Filter before the orifice to ensure optimum life of the orifice.

Waterjet Parts

Connecting Parts



GMA offers a wide variety of wear resistant spare parts and equipment for different waterjet cutting machines. In addition, we are also the exclusive distributor of WSI with an extensive line of premium aftermarket waterjet parts to replace KMT, FLOW & H2O parts.

Discover our full range of waterjet abrasive and waterjet equipment for your machines today.

GMA. More than just garnet.