



WHP® R100

Workhorse for industry, fit-for-use performance

WHP® R300

Classic, trustworthy and widely used in more than 30 countries.

WHP® R500

Latest high-end super wear-resistant material which brings you peak experience.

WHP® Composite Carbide

The Ultimate Wear Material

Your first option when nozzles need to be:
Consistent.
Reliable.
Predictable.

WHP® Waterjet Nozzles

Our WHP® line of abrasive nozzels is made from a special carbide material which is a nano tungsten carbide-based material and proprietary manufacturing process.

During our whole production, the nano tungsten particles which contribute super wear resistance is formed using the patented process. In order to make the nozzles come with higher hardness and superior wear resistance, we hardly add the soft metal binder during the processing.

All the above methods and materials contribute to optimum nozzle performance. The result is a super durable material that fiercely resists abrasive and erosive wear.



The unique benefits you will enjoy for using our WHP® line of abrasive waterjet nozzles:

- Best cost-effectiveness solution per hour used
- Up to 120 hours of precision cutting
- Up to 250 hours of rough cutting
- Faster cutting speeds
- Greater dimensional accuracy
- Predictability-nozzles perform the same every time.

Product serie	Hardness		WC (Grain size) (μm)	Co (wt%)
	HRA (GPa)	HV (GPa)		
WHP® R100	~95.6	~25.50	~0.3	0.5
WHP® R300	~96.0	~27.30	~0.2	0.4
WHP® R500	~97.0	~27.50	~0.2	0.3



Replacement Mixing tubes

the index & general nozzles

The Index of Mixing tubes

OD-ID-Long (mm)	OD-ID-Long (in.)	Replaces	Page#
6.00-xx-70.0	.235"-xx-2.750"	WHP	05
6.00-xx-76.2	.235"-xx-3.000"	WHP	05
6.35-xx-65.0	.250"-xx-2.560"	WHP	05
6.35-xx-70.0	.250"-xx-2.750"	WHP	05
6.35-xx-76.2	.250"-xx-3.000"	WHP, Jet Edge, DARDI	05, 09
6.35-xx-101.6	.250"-xx-4.000"	WHP	05
6.50-xx-74.7	.256"-xx-2.940"	WHP	05
7.00-xx-76.2	.275"-xx-3.000"	DARDI	09
7.14-xx-50.8	.281"-xx-2.000"	Flow	06
7.14-xx-55.0	.281"-xx-2.165"	Flow	06
7.14-xx-76.2	.281"-xx-3.000"	FLow	06
7.14-xx-88.9	.281"-xx-3.500"	Flow	06
7.14-xx-101.6	.281"-xx-4.000"	Flow	06
7.50-xx-76.2	.295"-xx-3.000"	WHP	05
7.62-xx-76.2	.300"-xx-3.000"	CMS	09
7.62-xx-101.6	.300"-xx-4.000"	CMS	09
7.97-xx-76.2	.315"-xx-3.000"	OMAX	07
7.97-xx-101.6	.315"-xx-4.000"	OMAX	07
8.97-xx-76.2	.354"-xx-3.000"	WJS	09
8.97-xx-102.0	.354"-xx-4.000"	WJS	09
9.43-xx-63.5	.372"-xx-2.500"	KMT	08
9.43-xx-76.0	.372"-xx-3.000"	KMT	08
9.43-xx-79.0	.372"-xx-3.130"	KMT	08
9.43-xx-102.0	.372"-xx-4.000"	KMT	08

Mixing tubes



WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
600-076-700-R1	600-076-700-R3	600-076-700-R5	6.0×0.76×70.0	.235"×.030"×2.75"
600-102-700-R1	600-102-700-R3	600-102-700-R5	6.0×1.02×70.0	.235"×.040"×2.75"
600-076-762-R1	600-076-762-R3	600-076-762-R5	6.0×0.76×76.2	.235"×.030"×3"
600-102-762-R1	600-102-762-R3	600-102-762-R5	6.0×1.02×76.2	.235"×.040"×3"
635-102-650-R1	635-102-650-R3	635-102-650-R5	6.35×1.02×65.0	.25"×.040"×2.56"
635-076-700-R1	635-076-700-R3	635-076-700-R5	6.35×0.76×70.0	.25"×.030"×2.75"
635-102-700-R1	635-102-700-R3	635-102-700-R5	6.35×1.02×70.0	.25"×.040"×2.75"
635-091-762-R1	635-091-762-R3	635-091-762-R5	6.35×0.91×76.2	.25"×.035"×3"
635-120-762-R1	635-120-762-R3	635-120-762-R5	6.35×1.20×76.2	.25"×.047"×3"
635-150-762-R1	635-150-762-R3	635-150-762-R5	6.35×1.50×76.2	.25"×.059"×3"
635-300-762-R1	635-300-762-R3	635-300-762-R5	6.35×3.00×76.2	.25"×.118"×3"
635-076-1016-R1	635-076-1016-R3	635-076-1016-R5	6.35×0.76×101.6	.25"×.030"×4"
635-102-1016-R1	635-102-1016-R3	635-102-1016-R5	6.35×1.02×101.6	.25"×.040"×4"
650-1143-747-R1	650-1143-747-R3	650-1143-747-R5	6.50×1.143×74.7	.256"×.045"×2.94"
750-076-762-R1	750-076-762-R3	750-076-762-R5	7.50×0.76×76.2	.295"×.030"×3"
750-102-762-R1	750-102-762-R3	750-102-762-R5	7.50×1.02×76.2	.295"×.040"×3"

Replacement Mixing tubes

for Flow®



Mixing tubes without locating ring (nozzles)

WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
714-102-508-R1	714-102-508-R3	714-102-508-R5	7.14×1.02×50.8	.281"×.040"×2"
714-076-550-R1	714-076-550-R3	714-076-550-R5	7.14×0.76×55.0	.281"×.030"×2.165"
714-102-550-R1	714-102-550-R3	714-102-550-R5	7.14×1.02×55.0	.281"×.040"×2.165"
714-076-762-R1	714-076-762-R3	714-076-762-R5	7.14×0.76×76.2	.281"×.030"×3"
714-089-762-R1	714-089-762-R3	714-089-762-R5	7.14×0.89×76.2	.281"×.035"×3"
714-102-762-R1	714-102-762-R3	714-102-762-R5	7.14×1.02×76.2	.281"×.040"×3"
714-114-762-R1	714-114-762-R3	714-114-762-R5	7.14×1.14×76.2	.281"×.045"×3"
714-120-762-R1	714-120-762-R3	714-120-762-R5	7.14×1.20×76.2	.281"×.047"×3"
714-127-762-R1	714-127-762-R3	714-127-762-R5	7.14×1.27×76.2	.281"×.050"×3"
714-076-889-R1	714-076-889-R3	714-076-889-R5	7.14×0.76×88.9	.281"×.030"×3.5"
714-102-889-R1	714-102-889-R3	714-102-889-R5	7.14×1.02×88.9	.281"×.040"×3.5"
714-127-889-R1	714-127-889-R3	714-127-889-R5	7.14×1.27×88.9	.281"×.050"×3.5"
714-076-1016-R1	714-076-1016-R3	714-076-1016-R5	7.14×0.76×101.6	.281"×.030"×4"
714-089-1016-R1	714-089-1016-R3	714-089-1016-R5	7.14×0.89×101.6	.281"×.035"×4"
714-102-1016-R1	714-102-1016-R3	714-102-1016-R5	7.14×1.02×101.6	.281"×.040"×4"
714-127-1016-R1	714-127-1016-R3	714-127-1016-R5	7.14×1.27×101.6	.281"×.050"×4"
714-152-1016-R1	714-152-1016-R3	714-152-1016-R5	7.14×1.52×101.6	.281"×.060"×4"
714-178-1016-R1	714-178-1016-R3	714-178-1016-R5	7.14×1.78×101.6	.281"×.070"×4"



Mixing tubes with locating ring (nozzles)

WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
LR714-076-762-R1	LR714-076-762-R3	LR714-076-762-R5	7.14×0.76×76.2	.281"×.030"×3"
LR714-089-762-R1	LR714-089-762-R3	LR714-089-762-R5	7.14×0.89×76.2	.281"×.035"×3"
LR714-102-762-R1	LR714-102-762-R3	LR714-102-762-R5	7.14×1.02×76.2	.281"×.040"×3"
LR714-127-762-R1	LR714-127-762-R3	LR714-127-762-R5	7.14×1.27×76.2	.281"×.050"×3"
LR714-127-889-R1	LR714-127-889-R3	LR714-127-889-R5	7.14×1.27×88.9	.281"×.050"×3.5"
LR714-076-1016-R1	LR714-076-1016-R3	LR714-076-1016-R5	7.14×0.76×101.6	.281"×.030"×4"
LR714-089-1016-R1	LR714-089-1016-R3	LR714-089-1016-R5	7.14×0.89×101.6	.281"×.035"×4"
LR714-102-1016-R1	LR714-102-1016-R3	LR714-102-1016-R5	7.14×1.02×101.6	.281"×.040"×4"
LR714-127-1016-R1	LR714-127-1016-R3	LR714-127-1016-R5	7.14×1.27×101.6	.281"×.050"×4"
LR714-152-1016-R1	LR714-152-1016-R3	LR714-152-1016-R5	7.14×1.52×101.6	.281"×.060"×4"
LR714-178-1016-R1	LR714-178-1016-R3	LR714-178-1016-R5	7.14×1.78×101.6	.281"×.070"×4"



Replacement Mixing tubes

for OMAX®



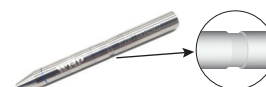
Waterjet nozzles without groove

WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
797-076-762-R1	797-076-762-R3	797-076-762-R5	7.97×0.76×76.2	.315"×.030"×3"
797-106-762-R1	797-106-762-R3	797-106-762-R5	7.97×1.06×76.2	.315"×.042"×3"
797-076-1016-R1	797-076-1016-R3	797-076-1016-R5	7.97×0.76×101.6	.315"×.030"×4"
797-106-1016-R1	797-106-1016-R3	797-106-1016-R5	7.97×1.06×101.6	.315"×.042"×4"
797-120-1016-R1	797-120-1016-R3	797-120-1016-R5	7.97×1.20×101.6	.315"×.048"×4"



Waterjet nozzles with groove

WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
FG797-076-1016-R1	FG797-076-1016-R3	FG797-076-1016-R5	7.97×0.76×101.6	.315"×.030"×4"
FG797-106-1016-R1	FG797-106-1016-R3	FG797-106-1016-R5	7.97×1.06×101.6	.315"×.042"×4"
FG797-120-1016-R1	FG797-120-1016-R3	FG797-120-1016-R5	7.97×1.20×101.6	.315"×.048"×4"



Waterjet nozzles with groove in the middle

WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
MG797-076-762-R1	MG797-076-762-R3	MG797-076-762-R5	7.97×0.76×76.2	.315"×.030"×3"
MG797-106-762-R1	MG797-106-762-R3	MG797-106-762-R5	7.97×1.06×76.2	.315"×.042"×3"



Replacement Mixing tubes

for KMT®



Focusing tubes

WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
943-110-635-R1	943-110-635-R3	943-110-635-R5	9.43×1.10×63.5	.372"×.043"×2.5"
943-076-760-R1	943-076-760-R3	943-076-760-R5	9.43×0.76×76.0	.372"×.030"×3"
943-102-760-R1	943-102-760-R3	943-102-760-R5	9.43×1.02×76.0	.372"×.040"×3"
943-110-760-R1	943-110-760-R3	943-110-760-R5	9.43×1.10×76.0	.372"×.043"×3"
943-063-790-R1	943-063-790-R3	943-063-790-R5	9.43×0.63×79.0	.372"×.025"×3.13"
943-076-790-R1	943-076-790-R3	943-076-790-R5	9.43×0.76×79.0	.372"×.030"×3.13"
943-091-790-R1	943-091-790-R3	943-091-790-R5	9.43×0.91×79.0	.372"×.036"×3.13"
943-099-790-R1	943-099-790-R3	943-099-790-R5	9.43×0.99×79.0	.372"×.039"×3.13"
943-102-790-R1	943-102-790-R3	943-102-790-R5	9.43×1.02×79.0	.372"×.040"×3.13"
943-110-790-R1	943-110-790-R3	943-110-790-R5	9.43×1.10×79.0	.372"×.043"×3.13"
943-132-790-R1	943-132-790-R3	943-132-790-R5	9.43×1.32×79.0	.372"×.052"×3.13"
943-147-790-R1	943-147-790-R3	943-147-790-R5	9.43×1.47×79.0	.372"×.058"×3.13"
943-160-790-R1	943-160-790-R3	943-160-790-R5	9.43×1.60×79.0	.372"×.063"×3.13"
943-236-790-R1	943-236-790-R3	943-236-790-R5	9.43×2.36×79.0	.372"×.093"×3.13"
943-076-1020-R1	943-076-1020-R3	943-076-1020-R5	9.43×0.76×102.0	.372"×.030"×4"
943-102-1020-R1	943-102-1020-R3	943-102-1020-R5	9.43×1.02×102.0	.372"×.040"×4"



Focusing tubes **HYPER-TUBE**

WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
HT943-076-760-R1	HT943-076-760-R3	HT943-076-760-R5	9.43×0.76×76.0	.372"×.030"×3"
HT943-102-760-R1	HT943-102-760-R3	HT943-102-760-R5	9.43×1.02×76.0	.372"×.040"×3"
HT943-110-760-R1	HT943-110-760-R3	HT943-110-760-R5	9.43×1.10×76.0	.372"×.043"×3"
HT943-114-760-R1	HT943-114-760-R3	HT943-114-760-R5	9.43×1.14×76.0	.372"×.045"×3"
HT943-076-1020-R1	HT943-076-1020-R3	HT943-076-1020-R5	9.43×0.76×102.0	.372"×.030"×4"
HT943-084-1020-R1	HT943-084-1020-R3	HT943-084-1020-R5	9.43×0.84×102.0	.372"×.033"×4"
HT943-102-1020-R1	HT943-102-1020-R3	HT943-102-1020-R5	9.43×1.02×102.0	.372"×.040"×4"
HT943-110-1020-R1	HT943-110-1020-R3	HT943-110-1020-R5	9.43×1.10×102.0	.372"×.043"×4"
HT943-114-1020-R1	HT943-114-1020-R3	HT943-114-1020-R5	9.43×1.14×102.0	.372"×.045"×4"
HT943-122-1020-R1	HT943-122-1020-R3	HT943-122-1020-R5	9.43×1.22×102.0	.372"×.048"×4"

Replacement Mixing tubes

for Jet Edge™, DARDI®, CMS®, WJS®

Waterjet nozzles for Jet Edge™



WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
635-076-762-R1	635-076-762-R3	635-076-762-R5	6.35×0.76×76.2	.25"×.030"×3"
635-089-762-R1	635-089-762-R3	635-089-762-R5	6.35×0.89×76.2	.25"×.035"×3"
635-102-762-R1	635-102-762-R3	635-102-762-R5	6.35×1.02×76.2	.25"×.040"×3"
635-114-762-R1	635-114-762-R3	635-114-762-R5	6.35×1.14×76.2	.25"×.045"×3"
635-127-762-R1	635-127-762-R3	635-127-762-R5	6.35×1.27×76.2	.25"×.050"×3"

Waterjet nozzles for DARDI®



WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
635-076-762-R1	635-076-762-R3	635-076-762-R5	6.35×0.76×76.2	.250"×.030"×3"
635-102-762-R1	635-102-762-R3	635-102-762-R5	6.35×1.02×76.2	.250"×.040"×3"
700-076-762-R1	700-076-762-R3	700-076-762-R5	7.00×0.76×76.2	.275"×.030"×3"
700-091-762-R1	700-091-762-R3	700-091-762-R5	7.00×0.91×76.2	.275"×.036"×3"
700-102-762-R1	700-102-762-R3	700-102-762-R5	7.00×1.02×76.2	.275"×.040"×3"
700-120-762-R1	700-120-762-R3	700-120-762-R5	7.00×1.20×76.2	.275"×.047"×3"

Waterjet nozzles for CMS®



WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
762-076-762-R1	762-076-762-R3	762-076-762-R5	7.62×0.76×76.2	.3"×.030"×3"
762-102-762-R1	762-102-762-R3	762-102-762-R5	7.62×1.02×76.2	.3"×.040"×3"
762-076-1016-R1	762-076-1016-R3	762-076-1016-R5	7.62×0.76×101.6	.3"×.030"×4"
762-102-1016-R1	762-102-1016-R3	762-102-1016-R5	7.62×1.02×101.6	.3"×.040"×4"

Waterjet nozzles for WJS®



WHP® R100 #	WHP® R300 #	WHP® R500 #	Description (mm)	Description (in.)
—	897-065-762-R3	897-065-762-R5	8.97×0.65×76.2	.354"×.026"×3"
—	897-076-762-R3	897-076-762-R5	8.97×0.76×76.2	.354"×.030"×3"
—	897-105-762-R3	897-105-762-R5	8.97×1.05×76.2	.354"×.041"×3"
—	897-076-1020-R3	897-076-1020-R5	8.97×0.76×102.0	.354"×.030"×4"
—	897-105-1020-R3	897-105-1020-R5	8.97×1.05×102.0	.354"×.041"×4"

Custom-made Service:

porose rods & bars available

