



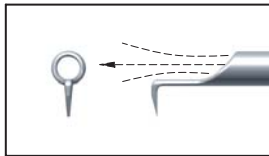
Irrigating Choppers and Manipulators

Titanium Instruments



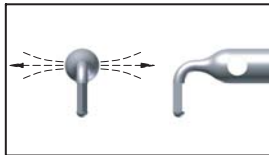
18 Gauge (1.2mm Diameter)

8-680 Packard Irrigation Chopper



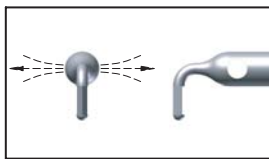
Tube details: 18 gauge (1.2mm) curved tube
Tip details: Sharp tip, 1.1mm in length
Irrigation port details: 1 front port
Flow rate: 75cc/min*
Handle details: Round handle, tip to handle length 17mm
Overall length: 105mm

8-681 El-Kasaby Irrigation Chopper



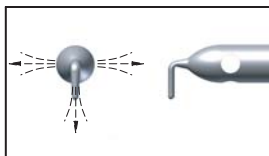
Tube details: 18 gauge (1.2mm) curved tube
Tip details: Blunt tip end with side cutting edges
Irrigation port details: 2 side ports
Flow rate: 60cc/min*
Handle details: Round handle, tip to handle length 19mm
Overall length: 107mm

8-682 Aggarwal Irrigation Chopper



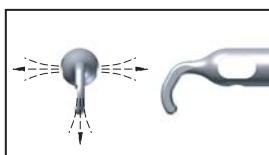
Tube details: 18 gauge (1.2mm) curved tube
Tip details: Blunt tip end with side cutting edges
Irrigation port details: 2 side ports
Flow rate: 78cc/min*
Handle details: Round handle, tip to handle length 19mm
Overall length: 107mm

8-683 Packard Irrigation Chopper



Tube details: 18 gauge (1.2mm) curved tube
Tip details: Blunt tip, 1.1mm in length
Irrigation port details: 2 side ports & 1 underside
Flow rate: 78cc/min*
Handle details: Round handle, tip to handle length 18mm
Overall length: 106mm

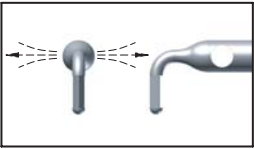
8-692 Walker Irrigation Chopper



Tube details: 18 gauge (1.2mm) curved tube
Tip details: Blunt tip end, hook shape, side cutting edge
Irrigation port details: 2 side ports & 1 underside
Flow rate: 96cc/min*
Handle details: Round handle, tip to handle length 19mm
Overall length: 107mm

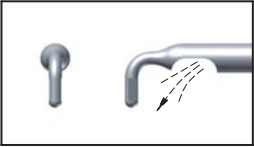
19 Gauge (1.0mm Diameter)

8-684 El-Kasaby Irrigation Chopper



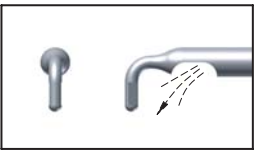
Tube details: 19 gauge (1.0mm) curved tube
Tip details: Blunt tip end with side cutting edges
Irrigation port details: 2 side ports
Flow rate: 60cc/min*
Handle details: Round handle, tip to handle length 19.0mm
Overall length: 107mm

8-687-1 DK Irrigation Chopper



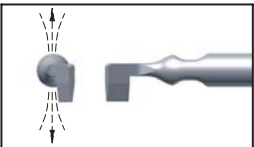
Tube details: 19 gauge (1.0mm) curved tube
Tip details: Blunt tip end with cutting edge
Irrigation port details: 1 underside port
Flow rate: 70cc/min*
Handle details: Round handle, tip to handle length 19.0mm
Overall length: 107mm

8-687-2 DK Irrigation Chopper



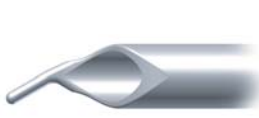
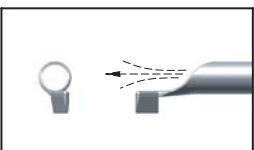
Tube details: 19 gauge (1.0mm) curved tube. Tube end angled, suitable for right hand surgeon
Tip details: Blunt tip end with cutting edge
Irrigation port details: 1 underside port
Flow rate: 70cc/min*
Handle details: Round handle, tip to handle length 17.0mm
Overall length: 105mm

8-688 Barrett Irrigation Axe



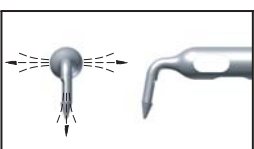
Tube details: 19 gauge (1.0mm) curved tube
Tip details: Axe shape tip angled for right hand surgeon
Irrigation port details: 1 underside port & 1 upperside port
Flow rate: 70cc/min*
Handle details: Round handle, tip to handle length 18.0mm
Overall length: 106mm

8-689 Barrett Irrigation Axe



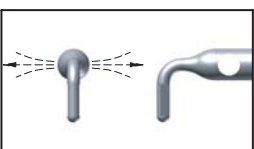
Tube details: 19 gauge (1.0mm) curved tube
Tip details: Axe shape tip angled for right hand surgeon
Irrigation port details: 1 front port
Flow rate: 75cc/min*
Handle details: Round handle, tip to handle length 16.0mm
Overall length: 104mm

8-690 DK Irrigation Chopper



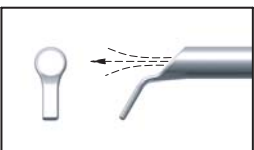
Tube details: 19 gauge (1.0mm) curved tube
Tip details: Pointed tip with a side cutting edge
Irrigation port details: 2 side ports & 1 underside port
Flow rate: 70cc/min*
Handle details: Round handle, tip to handle length 20.0mm
Overall length: 108mm

8-693 Farmer Irrigation Chopper



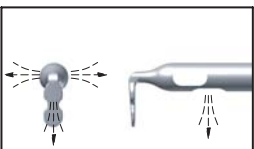
Tube details: 19 gauge (1.0mm) curved tube
Tip details: Blunt tip end with cutting edge
Irrigation port details: 2 side ports
Flow rate: 60cc/min*
Handle details: Round handle, tip to handle length 17.0mm
Overall length: 106mm

8-694 Tsuneoka Irrigation Chopper



Tube details: 19 gauge (1.0mm) curved tube
Tip details: Blunt tip
Irrigation port details: 1 front port
Flow rate: 72cc/min*
Handle details: Round handle, tip to handle length 17.0mm
Overall length: 106mm

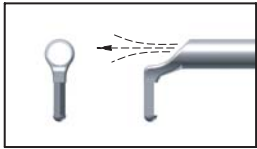
8-696 Ikeda-Yamagoshi-Kozaki Irrigation Chopper



Tube details: 19 gauge (1.0mm) curved tube
Tip details: Blunt tip
Irrigation port details: 2 side ports & 1 underside port
Flow rate: 70cc/min*
Handle details: Round handle, tip to handle length 20.0mm
Overall length: 106mm

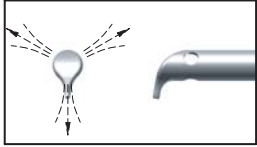
20 Gauge (0.9mm Diameter)

8-685 Aggarwal Irrigation Chopper



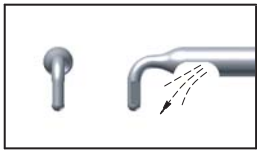
Tube details: 20 gauge (0.9mm) curved tube
Tip details: Blunt tip end with side cutting edges
Irrigation port details: 1 front port
Flow rate: 65cc/min*
Handle details: Round handle, tip to handle length 17.0mm
Overall length: 105mm

8-686 Panzardi Irrigation Manipulator



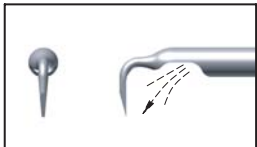
Tube details: 20 gauge (0.9mm) curved tube
Tip details: Small pointed tip
Irrigation port details: 2 side ports & 1 underside port
Flow rate: 55cc/min*
Handle details: Round handle, tip to handle length 18.0mm
Overall length: 106mm

8-687 DK Irrigation Chopper



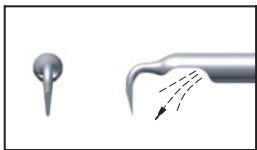
Tube details: 20 gauge (0.9mm) curved tube
Tip details: Blunt tip end with cutting edge
Irrigation port details: 1 underside port
Flow rate: 52cc/min*
Handle details: Round handle, tip to handle length 19.0mm
Overall length: 107.0mm

8-687-3 Kazuno Irrigation Chopper (long)



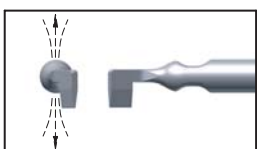
Tube details: 20 gauge (0.9mm) curved tube
Tip details: 1.2mm pointed tip
Irrigation port details: 1 underside port
Flow rate: 52cc/min*
Handle details: Round handle, tip to handle length 19.0mm
Overall length: 107mm

8-687-4 Kazuno Irrigation Chopper



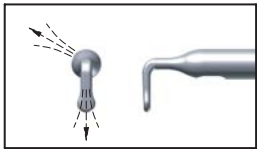
Tube details: 20 gauge (0.9mm) curved tube
Tip details: 1.0mm pointed tip
Irrigation port details: 1 underside port
Flow rate: 52cc/min*
Handle details: Round handle, tip to handle length 19.0mm
Overall length: 107mm

8-688-1 Barrett Irrigation Axe



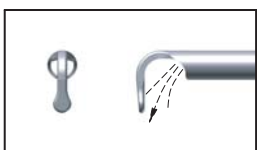
Tube details: 20 gauge (0.9mm) curved tube
Tip details: Axe shape tip angled for right hand surgeon
Irrigation port details: 1 underside port & 1 upperside port
Flow rate: 55cc/min*
Handle details: Round handle, tip to handle length 18.0mm
Overall length: 106mm

8-691 Ohki Irrigation Chopper



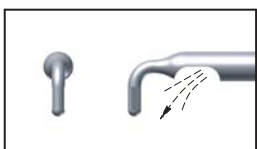
Tube details: 20 gauge (0.9mm) curved tube
Tip details: Blunt flat tip
Irrigation port details: 1 side port & 1 underside port
Flow rate: 50cc/min*
Handle details: Round handle, tip to handle length 19.0mm
Overall length: 97mm

8-691-1 Ohki Irrigation Chopper



Tube details: 20 gauge (0.9mm) curved tube
Tip details: Blunt flat tip
Irrigation port details: 1 front port
Flow rate: 53cc/min*
Handle details: Round handle, tip to handle length 19.0mm
Overall length: 97mm

8-695 Kazuno Irrigation Chopper



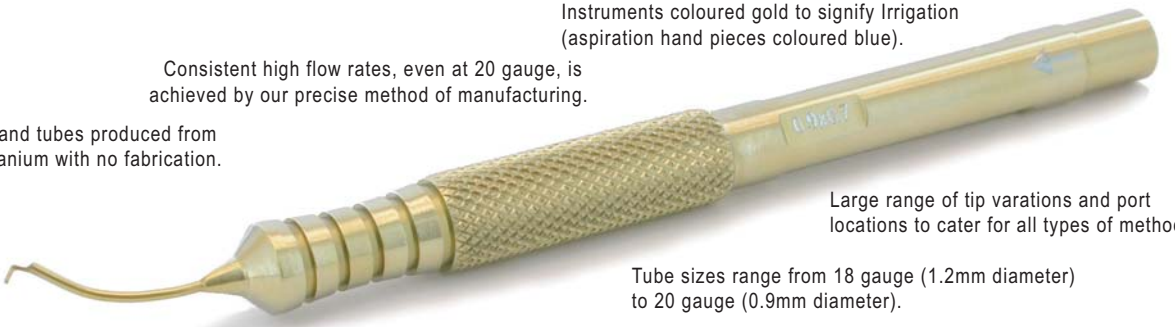
Tube details: 20 gauge (0.9mm) curved tube
Tip details: Blunt tip end with cutting edge
Irrigation port details: 1 underside port
Flow rate: 53cc/min*
Handle details: Round handle, tip to handle length 19.0mm
Overall length: 97mm

Instruments coloured gold to signify Irrigation (aspiration hand pieces coloured blue).

Consistent high flow rates, even at 20 gauge, is achieved by our precise method of manufacturing.

Precision made tip and tubes produced from a single piece of titanium with no fabrication. Guaranteed quality.

All Instruments are made from 100% titanium.



Large range of tip variations and port locations to cater for all types of methods.

Tube sizes range from 18 gauge (1.2mm diameter) to 20 gauge (0.9mm diameter).

Product range summary table

	Product Code	Description	Tube Gauge / Diameter (mm)	Irrigation Port Details	Flow Rate*
	8-680	Packard Irrigation Chopper	18, (Ø1.2)	1 front port	75 cc/min
	8-681	El-Kasaby Irrigation Chopper	18, (Ø1.2)	2 side ports	60 cc/min
	8-682	Aggarwal Irrigation Chopper	18, (Ø1.2)	2 side ports	78 cc/min
	8-683	Packard Irrigation Chopper	18, (Ø1.2)	2 side ports & 1 underside port	78 cc/min
	8-684	El-Kasaby Irrigation Chopper	19, (Ø1.0)	2 side ports	60 cc/min
	8-685	Aggarwal Irrigation Chopper	20, (Ø0.9)	1 front port	65 cc/min
	8-686	Panzardi Irrigation Manipulator	20, (Ø0.9)	2 side ports & 1 underside port	55 cc/min
	8-687	DK Irrigation Chopper (Straight)	20, (Ø0.9)	1 underside port	52 cc/min
	8-687-1	DK Irrigation Chopper (Straight)	19, (Ø1.0)	1 underside port	70 cc/min
	8-687-2	DK Irrigation Chopper (Curved)	19, (Ø1.0)	1 underside port	70 cc/min
	8-687-3	Kazuno Irrigation Chopper (long)	20, (Ø0.9)	1 underside port	52 cc/min
	8-687-4	Kazuno Irrigation Chopper (std)	20, (Ø0.9)	1 underside port	52 cc/min
	8-688	Barrett Irrigation Axe	19, (Ø1.0)	1 underside port & 1 upperside port	70 cc/min
	8-688-1	Barrett Irrigation Axe	20, (Ø0.9)	1 underside port & 1 upperside port	55 cc/min
	8-689	Barrett Irrigation Axe	19, (Ø1.0)	1 front port	75 cc/min
	8-690	DK Irrigation Chopper	19, (Ø1.0)	2 side ports & 1 underside port	70 cc/min
	8-691	Ohki Irrigation Chopper	20, (Ø0.9)	1 side port & 1 underside port	50 cc/min
	8-691-1	Ohki Irrigation Chopper	20, (Ø0.9)	1 front port	53 cc/min
	8-692	Walker Irrigation Chopper	18, (Ø1.2)	2 side ports & 1 underside port	96 cc/min
	8-693	Farmer Irrigation Chopper	19, (Ø1.0)	2 side ports	60 cc/min
	8-694	Tsuneoka Irrigation Chopper	19, (Ø1.0)	1 front port	72 cc/min
	8-695	Kazuno Irrigation Chopper	20, (Ø0.9)	1 underside port	52 cc/min
	8-696	Ikeda-Yamagoshi-Kozaki Irrigation Chopper	19, (Ø1.0)	2 side ports & 1 underside port	70 cc/min

*Flow Rate Test Conditions

One litre head of water, gravity fed over a vertical distance of one meter through an irrigation line (diameter 2.5mm). Results are for guidance only.

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