TW Surgical

HIP & KNEE REVISION INSTRUMENTS

TW Surgical

Treasure Wright (U.K.) Ltd.

www.twrightmedical.com

info@twrightmedical.com

F LONG CHISEL – STRAIGHT

F Long Chisel –Straight is used Hip Surgery to cut through bone and cement mantle and used for deeper cutting in line shaft Alignment.

TWS 78-4023/05	F Long Chisel – Straight 5mm Cutting Width, 23cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4023/07	F Long Chisel – Straight 7mm Cutting Width, 23cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4023/09	F Long Chisel – Straight 9mm Cutting Width, 23cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4038/05	F Long Chisel – Straight 5mm Cutting Width, 38cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4038/07	F Long Chisel – Straight 7mm Cutting Width, 38cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4038/09	F Long Chisel – Straight 9mm Cutting Width, 38cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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F LONG STRAIGHT CHISEL - BAYONET

F Long Straight Chisel-Bayonet is used Hip Revision Surgery to cut and reshape bone tissues of every kind and used for deeper cutting in line shaft Alignment.

TWS 78-3923/05	F Long Straight Chisel - Bayonet 5mm Cutting Width, 23cm long, T Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3923/07	F Long Straight Chisel - Bayonet 7mm Cutting Width, 23cm long, T Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3923/09	F Long Straight Chisel - Bayonet 9mm Cutting Width, 23cm long, T Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3938/05	F Long Straight Chisel - Bayonet 5mm Cutting Width, 38cm long, T Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3938/07	F Long Straight Chisel - Bayonet 7mm Cutting Width, 38cm long, T Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3938/09	F Long Straight Chisel - Bayonet 9mm Cutting Width, 38cm long, T Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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F LONG DOWNWARD CHISEL - BAYONET

F Long Downward Chisel-Bayonet is used Hip Revision Surgery to cut and reshape bone tissues of every kind and used for deeper cutting in line shaft Alignment.

TWS 78-3723/07	F Long Chisel - Bayonet 7mm Cutting Width, 23cm long, Cutting Blade Downward, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3723/09	F Long Chisel - Bayonet 9mm Cutting Width, 23cm long, Cutting Blade Downward, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3723/12	F Long Chisel - Bayonet 12mm Cutting Width, 23cm long, Cutting Blade Downward, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3738/07	F Long Chisel - Bayonet 7mm Cutting Width, 38cm long, Cutting Blade Downward, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3738/09	F Long Chisel - Bayonet 9mm Cutting Width, 38cm long, Cutting Blade Downward, Sharp Material: Stainless Steel and phenolic handle

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F LONG UPWARD CHISEL - BAYONET

F Long Upward Chisel-Bayonet is used Hip Revision Surgery to cut and reshape bone tissues of every kind and used for deeper cutting in line shaft alignment.

TWS 78-3823/07	F Long Upward Chisel - Bayonet 7mm Cutting Width, 23cm long, Cutting Blade Upward, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3823/09	F Long Upward Chisel - Bayonet 9mm Cutting Width, 23cm long, Cutting Blade Upward, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3823/12	F Long Upward Chisel - Bayonet 12mm Cutting Width, 23cm long, Cutting Blade Upward, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3838/07	F Long Upward Chisel - Bayonet 7mm Cutting Width, 38cm long, Cutting Blade Upward, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3838/09	F Long Upward Chisel - Bayonet 9mm Cutting Width, 38cm long, Cutting Blade Upward, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3838/12	F Long Upward Chisel - Bayonet 12mm Cutting Width, 38cm long, Cutting Blade Upward, Sharp Material: Stainless Steel and phenolic handle

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F LONG GOUGE – STRAIGHT

F Long Gouge –Straight is used Hip Revision Surgery to cut and reshape bone tissues of every kind and used for deeper cutting in line shaft Alignment.

TWS 78-4223/07	F Long Gouge – Straight 7mm Cutting Width, 23cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4223/09	F Long Gouge – Straight 9mm Cutting Width, 23cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4223/12	F Long Gouge – Straight 12mm Cutting Width, 23cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4238/05	F Long Gouge – Straight 5mm Cutting Width, 38cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4238/07	F Long Gouge – Straight 7mm Cutting Width, 38cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4238/09	F Long Gouge – Straight 9mm Cutting Width, 38cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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F LONG GOUGE - BAYONET

F Long Gouge -Bayonet is used Hip Revision Surgery to cut and reshape bone tissues of every kind and used for deeper cutting in line shaft Alignment.

TWS 78-4123/07	F Long Gouge - Bayonet 7mm Cutting Width, 23cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4123/09	F Long Gouge - Bayonet 9mm Cutting Width, 23cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4123/12	F Long Gouge - Bayonet 12mm Cutting Width, 23cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4138/07	F Long Gouge - Bayonet 7mm Cutting Width, 38cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4138/09	F Long Gouge - Bayonet 9mm Cutting Width, 38cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4138/12	F Long Gouge - Bayonet 12mm Cutting Width, 38cm long, Flat Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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P LONG OSTEOTOME – STRAIGHT

P Long Osteotome –Straight is used Hip Revision Surgery to cut through bone and cement and used for deeper cutting in line shaft Alignment.

TWS 78-3323/05	P Long Osteotome – Straight 5mm Cutting Width, 23cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3323/07	P Long Osteotome – Straight 7mm Cutting Width, 23cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3323/09	P Long Osteotome – Straight 9mm Cutting Width, 23cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3338/05	P Long Osteotome – Straight 5mm Cutting Width, 38cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3338/07	P Long Osteotome – Straight 7mm Cutting Width, 38cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3338/09	P Long Osteotome – Straight 9mm Cutting Width, 38cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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P LONG CHISEL – STRAIGHT

P Long Chisel –Straight is used Hip Revision Surgery to cut through bone and cement and used for deeper cutting in line shaft Alignment.

TWS 78-4423/05	P Long Chisel – Straight 5mm Cutting Width, 23cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4423/07	P Long Chisel – Straight 7mm Cutting Width, 23cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4423/09	P Long Chisel – Straight 9mm Cutting Width, 23cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4438/05	P Long Chisel – Straight 5mm Cutting Width, 38cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4438/07	P Long Chisel – Straight 7mm Cutting Width, 38cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4438/09	P Long Chisel – Straight 9mm Cutting Width, 38cm long, V Point Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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V LONG OSTEOTOME – STRAIGHT

V Long Osteotome –Straight is used Hip Revision Surgery to cut through bone and cement mantle and used for deeper cutting in line shaft Alignment.

TWS 78-3123/05	V Long Osteotome – Straight 5mm Cutting Width, 23cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3123/07	V Long Osteotome – Straight 7mm Cutting Width, 23cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3123/09	V Long Osteotome – Straight 9mm Cutting Width, 23cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3128/05	V Long Osteotome – Straight 5mm Cutting Width, 28cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3128/07	V Long Osteotome – Straight 7mm Cutting Width, 28cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3128/09	V Long Osteotome – Straight 9mm Cutting Width, 28cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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V LONG OSTEOTOME – STRAIGHT

V Long Osteotome –Straight is used Hip Revision Surgery to cut through bone and cement mantle and used for deeper cutting in line shaft Alignment.

TWS 78-3133/05	V Long Osteotome – Straight 5mm Cutting Width, 33cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3133/07	V Long Osteotome – Straight 7mm Cutting Width, 33cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3133/09	V Long Osteotome – Straight 9mm Cutting Width, 33cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3138/05	V Long Osteotome – Straight 5mm Cutting Width, 38cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3138/07	V Long Osteotome – Straight 7mm Cutting Width, 38cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3138/09	V Long Osteotome – Straight 9mm Cutting Width, 38cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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V LONG CHISEL – STRAIGHT

V Long Chisel –Straight is used Hip Revision Surgery to cut through bone and cement mantle and used for deeper cutting in line shaft Alignment.

TWS 78-3223/05	V Long Chisel – Straight 5mm Cutting Width, 23cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3223/07	V Long Chisel – Straight 7mm Cutting Width, 23cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3223/09	V Long Chisel – Straight 9mm Cutting Width, 23cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3238/05	V Long Chisel – Straight 5mm Cutting Width, 38cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3238/07	V Long Chisel – Straight 7mm Cutting Width, 38cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3238/09	V Long Chisel – Straight 9mm Cutting Width, 38cm long, V Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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U LONG OSTEOTOME – BAYONET

U Long Osteotome –Bayonet is used Hip Revision Surgery to cut through bone and cement mantle and used for deeper cutting in line shaft Alignment.

TWS 78-3533/05	U Long Osteotome – Bayonet 5mm Cutting Width, 33cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3533/07	U Long Osteotome – Bayonet 7mm Cutting Width, 33cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3533/09	U Long Osteotome – Bayonet 9mm Cutting Width, 33cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3538/05	U Long Osteotome – Bayonet 5mm Cutting Width, 38cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3538/07	U Long Osteotome – Bayonet 7mm Cutting Width, 38cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3538/09	U Long Osteotome – Bayonet 9mm Cutting Width, 38cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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U LONG OSTEOTOME – BAYONET ANGLED FORWARD

U Long Osteotome –Bayonet Angled Forward is used Hip Revision Surgery to cut through bone and cement mantle and used for deeper cutting in line shaft Alignment.

TWS 78-3633/05	U Long Osteotome – Bayonet Angled Forward 5mm Cutting Width, 33cm long, U Shaped Cutting Blade Angled Forward 15°, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3633/07	U Long Osteotome – Bayonet Angled Forward 7mm Cutting Width, 33cm long, U Shaped Cutting Blade Angled Forward 15°, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3633/09	U Long Osteotome – Bayonet Angled Forward 9mm Cutting Width, 33cm long, U Shaped Cutting Blade Angled Forward 15°, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3638/05	U Long Osteotome – Bayonet Angled Forward 5mm Cutting Width, 38cm long, U Shaped Cutting Blade Angled Forward 15°, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3638/07	U Long Osteotome – Bayonet Angled Forward 7mm Cutting Width, 38cm long, U Shaped Cutting Blade Angled Forward 15°, Sharp Material: Stainless Steel and phenolic handle
TWS 78-3638/09	U Long Osteotome – Bayonet Angled Forward 9mm Cutting Width, 38cm long, U Shaped Cutting Blade Angled Forward 15°, Sharp Material: Stainless Steel and phenolic handle

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U LONG CHISEL – BAYONET

U Long Chisel –Bayonet is used Hip Revision Surgery to cut through bone and cement mantle and used for deeper cutting in line shaft Alignment.

TWS 78-4333/05	U Long Chisel – Bayonet 5mm Cutting Width, 33cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4333/07	U Long Chisel – Bayonet 7mm Cutting Width, 33cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4333/09	U Long Chisel – Bayonet 9mm Cutting Width, 33cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4338/05	U Long Chisel – Bayonet 5mm Cutting Width, 38cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4338/07	U Long Chisel – Bayonet 7mm Cutting Width, 38cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4338/09	U Long Chisel – Bayonet 9mm Cutting Width, 38cm long, U Shaped Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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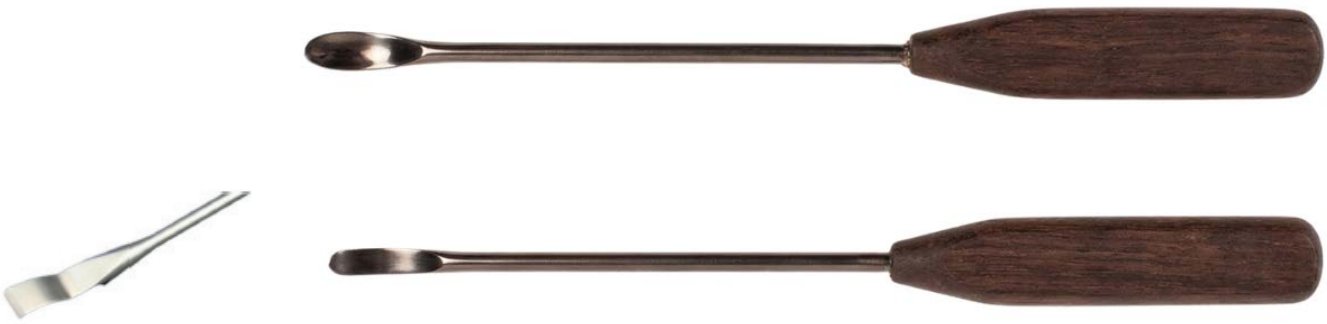
ACETABULAR CUP CHISEL

Acetabular cup removal chisel femur hip prosthesis extractor orthopedic instruments medical femoral head replacement bone knife



TWS 79-8433/03	Acetabular Cup Chisel 3mm Cutting Width, 33cm long, Short Cup Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle
TWS 79-8433/05	Acetabular Cup Chisel 5mm Cutting Width, 33cm long, Short Cup Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle
TWS 79-8433/07	Acetabular Cup Chisel 7mm Cutting Width, 33cm long, Short Cup Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle
TWS 79-8433/09	Acetabular Cup Chisel 9mm Cutting Width, 33cm long, Short Cup Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle

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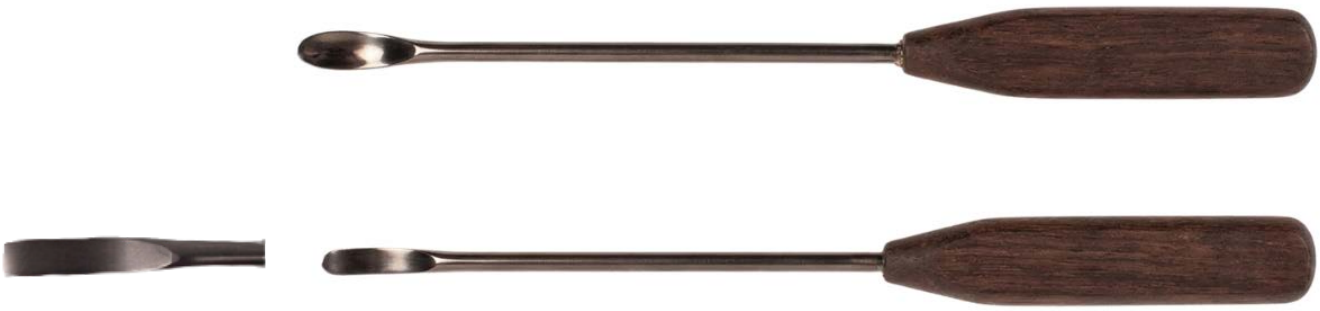
ACETABULAR CUP CHISEL

Acetabular cup removal chisel femur hip prosthesis extractor orthopedic instruments medical femoral head replacement bone knife



TWS 79-8333/03	Acetabular Cup Chisel 3mm Cutting Width, 33cm long, U Curved Shape Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle
TWS 79-8333/05	Acetabular Cup Chisel 5mm Cutting Width, 33cm long, U Curved Shape Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle
TWS 79-8333/07	Acetabular Cup Chisel 7mm Cutting Width, 33cm long, U Curved Shape Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle
TWS 79-8333/09	Acetabular Cup Chisel 9mm Cutting Width, 33cm long, U Curved Shape Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle

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ACETABULAR CUP CHISEL

Acetabular cup removal chisel femur hip prosthesis extractor orthopedic instruments medical femoral head replacement bone knife

TWS 79-8233/03	Acetabular Cup Chisel 3mm Cutting Width, 33cm long, Cup Shape Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle
TWS 79-8233/05	Acetabular Cup Chisel 5mm Cutting Width, 33cm long, Cup Shape Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle
TWS 79-8233/07	Acetabular Cup Chisel 7mm Cutting Width, 33cm long, Cup Shape Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle
TWS 79-8233/09	Acetabular Cup Chisel 9mm Cutting Width, 33cm long, Cup Shape Cutting Blade, Sharp Material: Stainless Steel and Phenolic Handle

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CEMENT SPLITTER

Cement Splitter is used Hip Revision Surgery to cut and reshape bone tissues of every kind and cement, used for deeper cutting in line shaft Alignment. Rounded tip is designed to match curve of the extracted component; sharp edges allow for easy cement fragmentation and removal.

TWS 78-4723/05	Cement Splitter 5mm Cutting Width, 23cm long, Curved Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4723/07	Cement Splitter 7mm Cutting Width, 23cm long, Curved Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4723/09	Cement Splitter 9mm Cutting Width, 23cm long, Curved Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4738/05	Cement Splitter 5mm Cutting Width, 38cm long, Curved Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4738/07	Cement Splitter 7mm Cutting Width, 38cm long, Curved Cutting Blade, Sharp Material: Stainless Steel and phenolic handle
TWS 78-4738/09	Cement Splitter 9mm Cutting Width, 38cm long, Curved Cutting Blade, Sharp Material: Stainless Steel and phenolic handle

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CEMENT SPLITTING CHISEL - STRIAGHT

Cement Splitter is used Hip Revision Surgery to cut and reshape bone tissues of every kind and cement, used for deeper cutting in line shaft Alignment. Rounded tip is designed to match curve of the extracted component; sharp edges allow for easy cement fragmentation and removal.

TWS 78-3150/13	Cement Splitting Chisel, 150mm, 13mm Material: Stainless Steel and phenolic handle
TWS 78-3150/18	Cement Splitting Chisel, 150mm, 18mm Material: Stainless Steel and phenolic handle
TWS 78-3150/23	Cement Splitting Chisel, 150mm, 23mm Material: Stainless Steel and phenolic handle
TWS 78-3250/13	Cement Splitting Chisel, 250mm, 13mm Material: Stainless Steel and phenolic handle
TWS 78-3250/18	Cement Splitting Chisel, 250mm, 18mm Material: Stainless Steel and phenolic handle
TWS 78-3250/23	Cement Splitting Chisel, 250mm, 23mm Material: Stainless Steel and phenolic handle

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CEMENT SPLITTING CHISEL - STRIAGHT

Cement Splitter is used Hip Revision Surgery to cut and reshape bone tissues of every kind and cement, used for deeper cutting in line shaft Alignment. Rounded tip is designed to match curve of the extracted component; sharp edges allow for easy cement fragmentation and removal.

TWS 78-3280/13	Cement Splitting Chisel, 280mm, 13mm Material: Stainless Steel and phenolic handle
TWS 78-3280/18	Cement Splitting Chisel, 280mm, 18mm Material: Stainless Steel and phenolic handle
TWS 78-3280/23	Cement Splitting Chisel, 280mm, 23mm Material: Stainless Steel and phenolic handle
TWS 78-3450/13	Cement Splitting Chisel, 450mm, 13mm Material: Stainless Steel and phenolic handle
TWS 78-3450/18	Cement Splitting Chisel, 450mm, 18mm Material: Stainless Steel and phenolic handle
TWS 78-3450/23	Cement Splitting Chisel, 450mm, 23mm Material: Stainless Steel and phenolic handle

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Hip Revision Instrument – TWS Cement Tap Extractor

TWS Cement Tap Extractor is a specialized medical tool used in orthopedic surgery. It is primarily used in revision joint replacement surgery. Screwing in and gripping bone cement: This tool has a spiral thread at the tip. The surgeon screws it into the hardened block of old bone cement.

Safe removal of bone cement: Once the tool firmly grips the bone cement, the surgeon can apply force to pull or remove the old bone cement completely from the bone cavity (such as the femoral head cavity).
The Circular Ring in the center of the T handle is the limiting stop positioning ring.

TWS 79–7143/08CT	TWS Cement Tap Extractor with Circular Ring T Handle, Conical Tap Length: 43cm, 8mm Diameter Material: Stainless Steel
TWS 79–7143/09CT	TWS Cement Tap Extractor with Circular Ring T Handle, Conical Tap Length: 43cm, 9mm Diameter Material: Stainless Steel
TWS 79–7143/10CT	TWS Cement Tap Extractor with Circular Ring T Handle, Conical Tap Length: 43cm, 10mm Diameter Material: Stainless Steel
TWS 79–7143/11CT	TWS Cement Tap Extractor with Circular Ring T Handle, Conical Tap Length: 43cm, 11mm Diameter Material: Stainless Steel
TWS 79–7143/12CT	TWS Cement Tap Extractor with Circular Ring T Handle, Conical Tap Length: 43cm, 12mm Diameter Material: Stainless Steel

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Hip Revision Instrument – TWS Cement Tap Extractor

TWS Cement Tap Extractor is a specialized medical tool used in orthopedic surgery. It is primarily used in revision joint replacement surgery. Screwing in and gripping bone cement: This tool has a spiral thread at the tip. The surgeon screws it into the hardened block of old bone cement.

TWS 79–7143/08CTN	TWS Cement Tap Extractor with Circular Ring T Handle, Conical Tap Length: 43cm, 8mm Diameter Material: Stainless Steel with Titanium Nitride (TiN)
TWS 79–7143/09CTN	TWS Cement Tap Extractor with Circular Ring T Handle, Conical Tap Length: 43cm, 9mm Diameter Material: Stainless Steel with Titanium Nitride (TiN)
TWS 79–7143/10CTN	TWS Cement Tap Extractor with Circular Ring T Handle, Conical Tap Length: 43cm, 10mm Diameter Material: Stainless Steel with Titanium Nitride (TiN)
TWS 79–7143/11CTN	TWS Cement Tap Extractor with Circular Ring T Handle, Conical Tap Length: 43cm, 11mm Diameter Material: Stainless Steel with Titanium Nitride (TiN)
TWS 79–7143/12CTN	TWS Cement Tap Extractor with Circular Ring T Handle, Conical Tap Length: 43cm, 12mm Diameter Material: Stainless Steel with Titanium Nitride (TiN)

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Hip Revision Instrument – T Shaped Osteotome

T Shaped osteotome is a highly precise orthopedic cutting tool. Its core purpose is to cut the bonding surface between the old prosthesis and the bone, allowing for safe removal of the old prosthesis while preserving as much of the patient's healthy bone as possible.

TWS 78-2833/05T	T Shaped Osteotome, Straight 5mm Width, 33cm Length, Material: Stainless Steel and Tunfol
TWS 78-2833/07T	T Shaped Osteotome, Straight 7mm Width, 33cm Length, Material: Stainless Steel and Tunfol
TWS 78-2833/09T	T Shaped Osteotome, Straight 9mm Width, 33cm Length, Material: Stainless Steel and Tunfol
TWS 78-2833/12T	T Shaped Osteotome, Straight 12mm Width, 33cm Length, Material: Stainless Steel and Tunfol
TWS 78-2838/05T	T Shaped Osteotome, Straight 5mm Width, 38cm Length, Material: Stainless Steel and Tunfol
TWS 78-2838/07T	T Shaped Osteotome, Straight 7mm Width, 38cm Length, Material: Stainless Steel and Tunfol
TWS 78-2838/09T	T Shaped Osteotome, Straight 9mm Width, 38cm Length, Material: Stainless Steel and Tunfol
TWS 78-2838/12T	T Shaped Osteotome, Straight 12mm Width, 38cm Length, Material: Stainless Steel and Tunfol

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Hip Revision Instrument – T Shaped Osteotome

T Shaped osteotome is a highly precise orthopedic cutting tool. Its core purpose is to cut the bonding surface between the old prosthesis and the bone, allowing for safe removal of the old prosthesis while preserving as much of the patient's healthy bone as possible.

TWS 78-2833/05TN	T Shaped Osteotome, Straight 5mm Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2833/07TN	T Shaped Osteotome, Straight 7mm Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2833/09TN	T Shaped Osteotome, Straight 9mm Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2833/12TN	T Shaped Osteotome, Straight 12mm Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2838/05TN	T Shaped Osteotome, Straight 5mm Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2838/07TN	T Shaped Osteotome, Straight 7mm Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2838/09TN	T Shaped Osteotome, Straight 9mm Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2838/12TN	T Shaped Osteotome, Straight 12mm Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol

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Hip Revision Instrument – T Shaped Bayonet Osteotome

T Shaped Bayonet osteotome is a highly precise orthopedic cutting tool. Its core purpose is to cut the bonding surface (bone cement or Osseo integration surface) between the old prosthesis and the bone, allowing for safe removal of the old prosthesis while preserving as much of the patient's healthy bone as possible.

TWS 78-2833/05BT	T Shaped Osteotome, Bayonet 5mm Width, 33cm Length, Material: Stainless Steel and Tufnol
TWS 78-2833/07BT	T Shaped Osteotome, Bayonet 7mm Width, 33cm Length, Material: Stainless Steel and Tufnol
TWS 78-2833/09BT	T Shaped Osteotome, Bayonet 9mm Width, 33cm Length, Material: Stainless Steel and Tufnol
TWS 78-2833/12BT	T Shaped Osteotome, Bayonet 12mm Width, 33cm Length, Material: Stainless Steel and Tufnol
TWS 78-2838/05BT	T Shaped Osteotome, Bayonet 5mm Width, 38cm Length, Material: Stainless Steel and Tufnol
TWS 78-2838/07BT	T Shaped Osteotome, Bayonet 7mm Width, 38cm Length, Material: Stainless Steel and Tufnol
TWS 78-2838/09BT	T Shaped Osteotome, Bayonet 9mm Width, 38cm Length, Material: Stainless Steel and Tufnol
TWS 78-2838/12BT	T Shaped Osteotome, Bayonet 12mm Width, 38cm Length, Material: Stainless Steel and Tufnol

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Hip Revision Instrument – T Shaped Bayonet Osteotome

T Shaped Bayonet Osteotome is a highly precise orthopedic cutting tool. Its core purpose is to cut the bonding surface (bone cement or Osseo integration surface) between the old prosthesis and the bone, allowing for safe removal of the old prosthesis while preserving as much of the patient's healthy bone as possible.

TWS 78-2833/05BTN	T Shaped Osteotome, Bayonet 5mm Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2833/07BTN	T Shaped Osteotome, Bayonet 7mm Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2833/09BTN	T Shaped Osteotome, Bayonet 9mm Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2833/12BTN	T Shaped Osteotome, Bayonet 12mm Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2838/05BTN	T Shaped Osteotome, Bayonet 5mm Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2838/07BTN	T Shaped Osteotome, Bayonet 7mm Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2838/09BTN	T Shaped Osteotome, Bayonet 9mm Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 78-2838/12BTN	T Shaped Osteotome, Bayonet 12mm Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol

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TWS Hip Revision Instrument – Hip Cup Gouge

TWS Hip Revision is a highly specialized orthopedic instrument used during **Total Hip Arthroplasty (THA) Revision Surgery**.
Its primary clinical functions include:

- **Bone Cement Removal:** It is precisely shaped to chip away, scoop, and clear hardened PMMA (polymethyl methacrylate) bone cement remnants left behind inside the femoral canal or the acetabular cup from a previous surgery.

- **Implant-Bone Interface Separation:** The unique cranked or angled shaft allows the surgeon to access hard-to-reach anatomical corners. It separates the failed implant from the surrounding tissue, helping to loosen and extract the old prosthesis while **maximizing the preservation of the patient's healthy host bone**.

- **Bed Preparation:** It cleans and contours the acetabulum or femoral canal to create a stable, clean structural bed ready for the fixation of the new revision implant.

For surgical orthopedic hip revision gouges, dimensions depend heavily on the patient's anatomy, implant design, and whether the surgeon is working on the acetabulum (hip socket) or the femoral canal.

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TWS Hip Revision Instrument – Hip Cup Gouge

Advantages of PVD Coating on Revision Gouges

Applying a **PVD (Physical Vapor Deposition)** coating—typically **Titanium Nitride (TiN)** which produces the characteristic gold finish—onto surgical gouges offers substantial structural and clinical enhancements:

Core Advantage	Description & Clinical Value
Exceptional Surface Hardness & Wear Resistance	The PVD layer drastically multiplies the surface hardness of the underlying stainless steel. This keeps the cutting edge **extremely sharp and resistant to dulling**, even when repeatedly striking hard bone cement or dense cortical bone, reducing the need for intraoperative instrument changes.
Low Friction Coefficient (Lubricity)	The microscopic surface of a PVD coating is ultra-smooth. This dramatically lowers cutting and sliding resistance, allowing the gouge to glide seamlessly through narrow femoral canals. The surgeon experiences **less physical fatigue and smoother, more controlled force delivery**.
Anti-Glare Surface	The gold matte or satin finish significantly dampens the specular reflection of metallic steel. Under intense operating room theater lights and surgical microscopes, it **prevented distracting glare and visual fatigue**, keeping the deep surgical site highly visible.
Enhanced Corrosion & Autoclave Resistance	Surgical tools endure harsh environments, including blood exposure and repeated high-pressure steam sterilization (autoclaving). PVD coating acts as an inert chemical barrier that **protects against pitting, rusting, and chemical degradation**, exponentially lengthening the instrument's lifespan.
Biocompatibility & Cleanability	Materials like TiN are highly biocompatible and safe for direct human tissue contact. Furthermore, the dense, non-porous layer prevents organic tissue or bacterial bio-burden from adhering tightly to the metal, making the instrument **significantly easier to clean and sterilize** between cases.

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TWS Hip Revision Instrument – Hip Cup Gouge

For surgical orthopedic hip revision gouges, dimensions depend heavily on the patient's anatomy, implant design, and whether the surgeon is working on the acetabulum (hip socket) or the femoral canal.

For **acetabular cup removal** during hip revision surgery, the goal is to safely disrupt the bone-implant interface circumferentially around a spherical geometry. Standard flat bone chisels can cause pelvic fractures or excessive bone loss. Therefore, specialized curved gouges

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Hip Revision Instrument – Wagner Gouge

TWS 79-7333/05TN	Wagner Gouge, Straight 5mm Cutting Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7333/07TN	Wagner Gouge, Straight 7mm Cutting Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7333/09TN	Wagner Gouge, Straight 9mm Cutting Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7333/12TN	Wagner Gouge, Straight 12mm Cutting Width, 33cm Length Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7338/05TN	Wagner Gouge, Straight 5mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7338/07TN	Wagner Gouge, Straight 7mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7338/09TN	Wagner Gouge, Straight 9mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7338/12TN	Wagner Gouge, Straight 12mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol

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Hip Revision Instrument – Wagner Gouge with Teeth

TWS 79-7333/05TNT	Wagner Gouge with Teeth, Straight 5mm Cutting Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7333/07TNT	Wagner Gouge with Teeth, Straight 7mm Cutting Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7333/09TNT	Wagner Gouge with Teeth, Straight 9mm Cutting Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7333/12TNT	Wagner Gouge with Teeth, Straight 12mm Cutting Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7338/05TNT	Wagner Gouge with Teeth, Straight 5mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7338/07TNT	Wagner Gouge with Teeth, Straight 7mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7338/09TNT	Wagner Gouge with Teeth, Straight 9mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7338/12TNT	Wagner Gouge with Teeth, Straight 12mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol

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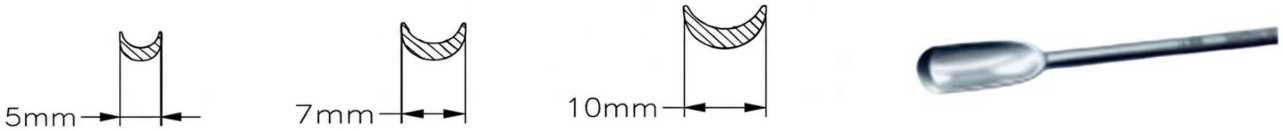
Hip Revision Instrument – Wagner Bayonet Gouge



TWS 79-7433/05	Wagner Gouge, Bayonet 5mm Cutting Width, 33cm Length, Material: Stainless Steel and Tufnol Handle
TWS 79-7433/07	Wagner Gouge, Bayonet 7mm Cutting Width, 33cm Length, Material: Stainless Steel and Tufnol Handle
TWS 79-7433/09	Wagner Gouge, Bayonet 9mm Cutting Width, 33cm Length, Material: Stainless Steel and Tufnol Handle
TWS 79-7433/12	Wagner Gouge, Bayonet 12mm Cutting Width, 33cm Length, Material: Stainless Steel and Tufnol Handle
TWS 79-7438/05	Wagner Gouge, Bayonet 5mm Cutting Width, 38cm Length, Material: Stainless Steel and Tufnol Handle
TWS 79-7438/07	Wagner Gouge, Bayonet 7mm Cutting Width, 38cm Length, Material: Stainless Steel and Tufnol Handle
TWS 79-7438/09	Wagner Gouge, Bayonet 9mm Cutting Width, 38cm Length, Material: Stainless Steel and Tufnol Handle
TWS 79-7438/12	Wagner Gouge, Bayonet 12mm Cutting Width, 38cm Length, Material: Stainless Steel and Tufnol Handle

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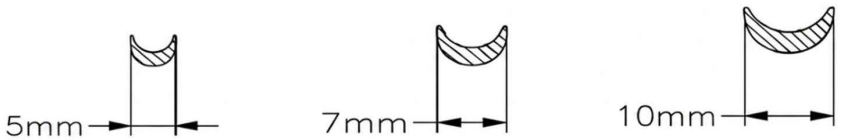
Hip Revision Instrument – Wagner Bayonet Gouge



TWS 79-7433/05TN	Wagner Gouge, Bayonet 5mm Cutting Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7433/07TN	Wagner Gouge, Bayonet 7mm Cutting Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7433/09TN	Wagner Gouge, Bayonet 9mm Cutting Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7433/12TN	Wagner Gouge, Bayonet 12mm Cutting Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7438/05TN	Wagner Gouge, Bayonet 5mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7438/07TN	Wagner Gouge, Bayonet 7mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7438/09TN	Wagner Gouge, Bayonet 9mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 79-7438/12TN	Wagner Gouge, Bayonet 12mm Cutting Width, 38cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol

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TWS Hip Revision Instrument – Hip Cup Gouge

TWS 71-4426/46TN	TWS Hip Cup Gouge 46mm Cup Width, 26cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4426/48TN	TWS Hip Cup Gouge 48mm Cup Width, 26cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4426/50TN	TWS Hip Cup Gouge 50mm Cup Width, 26cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4426/52TN	TWS Hip Cup Gouge 52mm Cup Width, 26cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4426/54TN	TWS Hip Cup Gouge 54mm Cup Width, 26cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4426/56TN	TWS Hip Cup Gouge 56mm Cup Width, 26cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tunfol
TWS 71-4426/58TN	TWS Hip Cup Gouge 58mm Cup Width, 26cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4426/60TN	TWS Hip Cup Gouge 60mm Cup Width, 26cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4426/62TN	TWS Hip Cup Gouge 62mm Cup Width, 26cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4426/64TN	TWS Hip Cup Gouge 64mm Cup Width, 26cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol

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TWS Hip Revision Instrument – Hip Cup Gouge

TWS 71-4433/46TN	TWS Hip Cup Gouge 46mm Cup Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4433/48TN	TWS Hip Cup Gouge 48mm Cup Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4433/50TN	TWS Hip Cup Gouge 50mm Cup Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4433/52TN	TWS Hip Cup Gouge 52mm Cup Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4433/54TN	TWS Hip Cup Gouge 54mm Cup Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4433/56TN	TWS Hip Cup Gouge 56mm Cup Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4433/58TN	TWS Hip Cup Gouge 58mm Cup Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4433/60TN	TWS Hip Cup Gouge 60mm Cup Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4433/62TN	TWS Hip Cup Gouge 62mm Cup Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4433/64TN	TWS Hip Cup Gouge 64mm Cup Width, 33cm Length, Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol

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TWS Hip Revision Instrument – Revision Curettes

Revision Curettes are specialized surgical hand instruments used in orthopedic surgery during a Revision Total Joint Arthroplasty. When a previously implanted artificial joint fails due to loosening, infection, or wear, a surgeon uses revision curettes for the following critical clinical functions:

1. Removal of Hardened Bone Cement (PMMA)
In cemented joint replacements, the implant is held in place by polymethyl methacrylate (PMMA) bone cement. When the old implant is pulled out, chunks of this hard cement remain firmly adhered deep inside the bone canal. Revision curettes feature sharp, reinforced scooping loops or cups designed to scrape, chip away, and scoop out these stubborn cement remnants from the femoral shaft or acetabular cup.

2. Debridement of Interface Tissue and Biofilm
Over time, a failing implant often stimulates the growth of a chronic inflammatory fibrous tissue layer or an infectious bacterial biofilm between the bone and the prosthesis. Surgeons use the scraping edges of the curette to thoroughly clean out this unhealthy biological debris, ensuring the remaining healthy bone is entirely clean.

3. Maximizing Host Bone Preservation
It allows the surgeon to feel the difference between brittle cement and healthy bone, enabling highly controlled, precise scraping that preserves as much of the patient's natural bone stock as possible.

4. Preparing the Bone Bed for New Implants
For a new revision implant to succeed, it requires a clean, stable surface to bond. The curette is used to score, texture, and contour the inner walls of the bone canal to create the perfect structural bed.

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TWS Hip Revision Instrument – Revision Curettes

TWS 71-4820/0907	TWS Cup Curette, Cup Size 9mm x 7mm, Length: 20cm Material: Stainless Steel
TWS 71-4820/1209	TWS Cup Curette , Cup Size 12mm x 9mm, Length: 20cm Material: Stainless Steel
TWS 71-4820/1512	TWS Cup Curette , Cup Size 15mm x 12mm, Length: 20cm Material: Stainless Steel
TWS 71-4820/1815	TWS Cup Curette , Cup Size 18mm x 15mm, Length: 20cm Material: Stainless Steel
TWS 71-4820/2722	TWS Cup Curette , Cup Size 27mm x 22mm, Length: 20cm Material: Stainless Steel
TWS 71-4820/3629	TWS Cup Curette , Cup Size 36mm x 29mm, Length: 20cm Material: Stainless Steel
TWS 71-4830/0907	TWS Cup Curette, Cup Size 9mm x 7mm, Length: 30cm Material: Stainless Steel
TWS 71-4830/1209	TWS Cup Curette , Cup Size 12mm x 9mm, Length: 30cm Material: Stainless Steel
TWS 71-4830/1512	TWS Cup Curette , Cup Size 15mm x 12mm, Length: 30cm Material: Stainless Steel
TWS 71-4830/1815	TWS Cup Curette , Cup Size 18mm x 15mm, Length: 30cm Material: Stainless Steel
TWS 71-4830/2722	TWS Cup Curette , Cup Size 27mm x 22mm, Length: 30cm Material: Stainless Steel
TWS 71-4830/3629	TWS Cup Curette , Cup Size 36mm x 29mm, Length: 30cm Material: Stainless Steel

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TWS Hip Revision Instrument – Revision Curettes

TWS 71-4820/0907TN	TWS Cup Curette, Cup Size 9mm x 7mm, Length: 20cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4820/1209TN	TWS Cup Curette , Cup Size 12mm x 9mm, Length: 20cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4820/1512TN	TWS Cup Curette , Cup Size 15mm x 12mm, Length: 20cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4820/1815TN	TWS Cup Curette , Cup Size 18mm x 15mm, Length: 20cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4820/2722TN	TWS Cup Curette , Cup Size 27mm x 22mm, Length: 20cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4820/3629TN	TWS Cup Curette , Cup Size 36mm x 29mm, Length: 20cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4830/0907TN	TWS Cup Curette, Cup Size 9mm x 7mm, Length: 30cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4830/1209TN	TWS Cup Curette , Cup Size 12mm x 9mm, Length: 30cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4830/1512TN	TWS Cup Curette , Cup Size 15mm x 12mm, Length: 30cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4830/1815TN	TWS Cup Curette , Cup Size 18mm x 15mm, Length: 30cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4830/2722TN	TWS Cup Curette , Cup Size 27mm x 22mm, Length: 30cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol
TWS 71-4830/3629TN	TWS Cup Curette , Cup Size 36mm x 29mm, Length: 30cm Material: Stainless Steel with Titanium Nitride (TiN) and Tufnol

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TWS Hip Revision Instrument – Retrograde Curette

TWS 79-7533/04	TWS Revision Retrograde Curette, T Handle 4mm Cutting Width, 33cm Length, Material: Stainless Steel
TWS 79-7533/06	TWS Revision Retrograde Curette, T Handle 6mm Cutting Width, 33cm Length, Material: Stainless Steel
TWS 79-7533/08	TWS Revision Retrograde Curette, T Handle 8mm Cutting Width, 33cm Length, Material: Stainless Steel
TWS 79-7533/12	TWS Revision Retrograde Curette, T Handle 12mm Cutting Width, 33cm Length, Material: Stainless Steel
TWS 79-7546/04	TWS Revision Retrograde Curette, T Handle 4mm Cutting Width, 46cm Length, Material: Stainless Steel
TWS 79-7546/06	TWS Revision Retrograde Curette, T Handle 6mm Cutting Width, 46cm Length, Material: Stainless Steel
TWS 79-7546/08	TWS Revision Retrograde Curette, T Handle 8mm Cutting Width, 46cm Length, Material: Stainless Steel
TWS 79-7546/12	TWS Revision Retrograde Curette, T Handle 12mm Cutting Width, 46cm Length, Material: Stainless Steel

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Hip Revision Instrument – TWS Slotted Mallet

TWS Slotted Mallet with Slotted-Head Design: This type of hammer features a unique slot design on its head.
During surgery, the surgeon inserts this slot directly into the shaft or hook of the prosthesis extractor or cement tap.
Provides Precise Reverse Impact or Precise Positioning Strike: Upward Strike (Pullout): When the slot is engaged with the rear protrusion of the extraction tool, the surgeon can swing the hammer away from the patient, generating an outward pulling force to loosen and pull out a firmly attached old joint prosthesis or cement block.

TWS 79–5223/01SM	TWS Slotted Mallet 23cm, 1lb Head with slotted hole in the middle Material: Stainless Steel and HD Polyethylene
TWS 79–5223/02SM	TWS Slotted Mallet 23cm, 2lb Head with slotted hole in the middle Material: Stainless Steel and HD Polyethylene
TWS 79–5223/03SM	TWS Slotted Mallet 23cm, 3lb Head with slotted hole in the middle Material: Stainless Steel and HD Polyethylene
TWS 79–5223/04SM	TWS Slotted Mallet 23cm, 4lb Head with slotted hole in the middle Material: Stainless Steel and HD Polyethylene

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TWS Knee Instruments

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Advantages of Titanium Nitride (TiN) Coating on TWS Osteotome Instruments

Material Type: Titanium Nitride (TiN) Coating on Osteotome Instruments

Surface Hardness: Extremely high (~2400 HV)

Metal Ion Release: Minimized and Blocked

Abrasive Wear: Very low, Prone to third-body scratches

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Advantages of Titanium Nitride (TiN) Coating on TWS Osteotome Instruments

Applying a **Titanium Nitride (TiN) Coating** which produces the characteristic gold finish onto surgical gouges offers substantial structural and clinical enhancements:

Titanium Nitride (TiN) coating on revision knee surgery instruments and implants provides critical mechanical, chemical, and biological benefits that enhance surgical precision and long-term implant survival.

- **Allergy Protection**: Acts as a physical barrier that minimizes the release of harmful nickel, cobalt, and chromium ions from base alloys, protecting metal-sensitive patients from localized inflammatory immune reactions.
- **Extreme Surface Hardness**: Increases the surface hardness up to four times compared to standard cobalt-chromium alloys. This heavily resists scratch damage caused by bone fragments or surgical debris.
- **Substantial Wear Reduction**: Lowers the coefficient of friction and limits microscopic abrasions. This yields a significant reduction in polyethylene insert wear, lowering the risk of debris-induced osteolysis.
- **Excellent Biocompatibility**: Highly inert and non-toxic ceramic layer that safely integrates with surrounding biological tissues without causing adverse reactions.
- **Enhanced Corrosion Resistance**: Blocks corrosive body fluids and synovial joint fluids from deteriorating the underlying metallic substrate over time.
- **Improved Wettability**: Creates a smoother surface that maximizes fluid retention. This ensures superior lubrication across articulating surfaces during knee movement.

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Advantages of Titanium Nitride (TiN) Coating on Osteotome Instruments

Core Advantage	Description & Clinical Value
Exceptional Surface Hardness & Wear Resistance	The **Titanium Nitride (TiN)** layer drastically multiplies the surface hardness of the underlying stainless steel. This keeps the cutting edge **extremely sharp and resistant to dulling**, even when repeatedly striking hard bone cement or dense cortical bone, reducing the need for intraoperative instrument changes.
Low Friction Coefficient (Lubricity)	The microscopic surface of a **Titanium Nitride (TiN)** coating is ultra-smooth. This dramatically lowers cutting and sliding resistance, allowing the gouge to glide seamlessly through narrow femoral canals. The surgeon experiences **less physical fatigue and smoother, more controlled force delivery**.
Anti-Glare Surface	The gold matte or satin finish significantly dampens the specular reflection of metallic steel. Under intense operating room theater lights and surgical microscopes, it **prevented distracting glare and visual fatigue**, keeping the deep surgical site highly visible.
Enhanced Corrosion & Autoclave Resistance	Surgical tools endure harsh environments, including blood exposure and repeated high-pressure steam sterilization (autoclaving). PVD coating acts as an inert chemical barrier that **protects against pitting, rusting, and chemical degradation**, exponentially lengthening the instrument's lifespan.
Biocompatibility & Cleanability	Materials like TiN are highly biocompatible and safe for direct human tissue contact. Furthermore, the dense, non-porous layer prevents organic tissue or bacterial bio-burden from adhering tightly to the metal, making the instrument **significantly easier to clean and sterilize** between cases.

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TWS Titanium Nitride (TiN) Coating Osteotome

TWS 79-6520/02TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 2mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/03TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 3mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/04TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 4mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/05TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 5mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/06TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 6mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/07TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 7mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/08TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 8mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol

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TWS Titanium Nitride (TiN) Coating Osteotome

TWS 79-6520/09TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 9mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/10TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 10mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/12TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 12mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/14TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 14mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/15TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 15mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/16TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 16mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/18TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 18mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol

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TWS 79-6520/20TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 20mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/22TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 22mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/25TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 25mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/28TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 28mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/30TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 30mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/35TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 35mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6520/40TN	TWS Osteotome, Flat and Straight Titanium Nitride (TiN) Coating 40mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol

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TWS 79-6220/03TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 3mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/04TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 4mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/05TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 5mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/06TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 6mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/07TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 7mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/08TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 8mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/09TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 9mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol

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TWS 79-6220/10TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 10mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/11TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 11mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/12TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 12mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/13TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 13mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/14TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 14mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/15TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 15mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6220/16TN	TWS V Tip Osteotome Titanium Nitride (TiN) Coating 16mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol

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TWS 79-6420/03TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 3mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/04TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 4mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/05TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 5mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/06TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 6mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/07TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 7mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/08TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 8mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/09TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 9mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol

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TWS 79-6420/10TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 10mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/11TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 11mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/12TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 12mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/13TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 13mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/14TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 14mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/15TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 15mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol
TWS 79-6420/16TN	TWS Point Tip Osteotome Titanium Nitride (TiN) Coating 16mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol

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TWS Titanium Nitride (TiN) Coating Chisel

TWS 79-6620/04TN	**TWS Intercondylar Femoral Chisel, Bayonet Titanium Nitride (TiN) Coating 4mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol**
TWS 79-6620/06TN	**TWS Intercondylar Femoral Chisel, Bayonet Titanium Nitride (TiN) Coating 6mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol**
TWS 79-6620/08TN	**TWS Intercondylar Femoral Chisel, Bayonet Titanium Nitride (TiN) Coating 8mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol**
TWS 79-6620/10TN	**TWS Intercondylar Femoral Chisel, Bayonet Titanium Nitride (TiN) Coating 10mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol**
TWS 79-6620/12TN	**TWS Intercondylar Femoral Chisel, Bayonet Titanium Nitride (TiN) Coating 12mm Cutting Width, 20cm Length, Material: Stainless Steel and Tufnol**

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TWS Titanium Nitride (TiN) Coating Cement Rongeur

Striking black and gold aesthetic TWS Titanium Nitride (TiN) Coating Cement Rongeur

TWS Titanium Nitride (TiN) coated cement rongeurs are specialized surgical instruments used primarily in orthopedic and spinal surgeries to precisely remove bone, soft tissue, and excess bone cement. The coating acts as a durable, biocompatible ceramic layer that drastically improves cutting performance and instrument longevity.

Benefits of Titanium Nitride (TiN) Coating

- Enhanced Durability: The Titanium Nitride (TiN) Coating layer achieves a hardness 2600 HV, making it significantly harder than standard stainless steel and highly resistant to dulling.
- Wear Protection: It shields the jaws of the rongeur from abrasive wear caused by aggressive materials like PMMA bone cement, minimizing the risk of metal flaking into the surgical site.
- Lower Friction: The low coefficient of friction allows for smoother, cleaner cuts through bone and ligament.
- Biocompatibility & Corrosion Resistance: TWS Titanium Nitride (TiN) is highly inert and resistant to bodily fluids and standard sterilization methods, such as autoclaving.

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TWS 79-6320/06TN	**TWS Ferris-Smith Handle Cement Grasping Rongeur 6mm Teeth Width, 180cm long, Titanium Nitride (TiN) Coating Black Coated Shaft and Gold Grasper Material: Stainless Steel**
TWS 79-6320/08TN	**TWS Ferris-Smith Handle Cement Grasping Rongeur 8mm Teeth Width, 220cm long, Titanium Nitride (TiN) Coating Black Coated Shaft and Gold Grasper Material: Stainless Steel**
TWS 79-6320/10TN	**TWS Ferris-Smith Handle Cement Grasping Rongeur 10mm Teeth Width, 330cm long, Titanium Nitride (TiN) Coating Black Coated Shaft and Gold Grasper Material: Stainless Steel**

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