

Winquist III Universal IM Nail Extraction System

Surgical Technique Guide



IM NAIL TO EXTRACTOR USAGE CHART

MANUFACTURER	NAIL	EXTRACTOR	TIP NO:	SINGLE USE	DRIVER ADAPTER
ACUMED®	POLARUS® HUMERAL	1/4-20 UNC-2A	WIN3-③	✓	2.5mm** Hex & 3.5mm** Hex
DEPUY/ACE®	AIM® HUMERAL	1/4-20 UNC-2A	WIN3-③	✓	2.5mm** Hex & 3.5mm** Hex
	AIM® TIBIAL	1/4-20 UNC-2A	WIN3-③	✓	3.5mm** Hex
	AIM® FEMORAL, SUPRACONDYLAR & A.R.T.® RETROGRADE	5/16-18 UNC-2A	WIN6-⑥	✓	3.5mm** Hex & 5.0mm** Hex
	CHANDLER TIBIAL	1/4- 28 UNF2A	WIN4-④	✓	Not Applicable
SMITH + NEPHEW®	VERSANAIL™ ANKLE FUSION NAIL	5/16-18 UNC-2A	WIN6-⑥	✓	3.5mm** Hex
	RUSSEL-TAYLOR® HUMERAL	7/16-20 UNF-2A	WIN11-⑪	✓	3/16" ** Hex
	RUSSEL-TAYLOR® FEMORAL & RECON	3/8-24 UNF-2A	WIN10-⑩	✓	3/16" ** Hex & 5/32" ** Hex
	RUSSEL-TAYLOR® TIBIAL	5/16-24 UNF-2A	WIN7-⑦	✓	5/32" ** Hex
	TRIGEN® ALL	5/16-24 UNF-2A	WIN7-⑦	✓	6mm Hex Socket & 1/4" x 1/4" SQ.
SYNTHESES®	ENDER NAIL	SMALL HOOK	WIN26 (MIWA14***)		Not Applicable
	SOLID HUMERAL	M5.5x.9-6g	WIN13-⑬	✓	2.5mm** Hex
	SOLID TIBIAL	M6x1.0-6g	WIN2-②	✓	2.5mm** Hex
	SOLID FEMORAL, RECON & SUPRACONDYLAR	M8x1.25-6g / M7x1.0-6g	WIN5-⑤	✓	2.5mm** Hex
	UNIVERSAL TIBIAL & FEMORAL	CONICAL	WIN27 (MIWA13***)		3.5mm** Hex
	CANNULATED FEMORAL, RECON & SUPRACONDYLAR	M8x1.25-6g / M7x1.0-6g	WIN5-⑤	✓	3.5mm** Hex
	FLEXIBLE HUMERAL	M5x.8-6g	WIN12-⑫	✓	2.5mm** Hex
UNKNOWN	CANNULATED TIBIAL	M8x1.25-6g / M7x1.0-6g	WIN5-⑤	✓	3.5mm** Hex
	ZICKEL	5/16-24 UNF-2A	WIN7-⑦	✓	5/32" ** Hex
BIOMET®	ANKLE ARTHRODESIS & UNIFLEX® TIBIAL	5/16-24 UNF-2A	WIN7-⑦	✓	3.5mm** Hex
	KNEE ARTHRODESIS, HOLLAND FEMORAL, UNIFLEX® FEMORAL & UNIFLEX® RECONSTRUCTION	3/8-24 UNF-2A	WIN10-⑩	✓	5.0mm** Hex
	RETROGRADE FEMORAL	5/16-24 UNF-2A	WIN7-⑦	✓	5.0mm** Hex
ENCORE®	TRUEFLEX® HUMERAL & FOREARM	#8-32 UNC-2B	WIN15-⑮	✓	3.5mm** Hex
	TRUE/FIX® DISTAL FEMORAL, PROX HUMERAL & TRUE/FIX® ANKLE FUSION	1/4-20 UNC-2A	WIN3-③	✓	3.5mm** Hex
	TRUEFLEX® TIBIAL	3/8-32 UNEF-2B	WIN17-⑰	✓	3.5mm** Hex & 8.0mm Hex & 1/4" x 1/4" SQ.
STRYKER®-HOWMEDICA®-OSTEONICS®	T-2™ HUMERAL	M6x.75-6g	WIN14-⑭	✓	2.5mm** Hex
	GROSS/KEMPF® FEMORAL	M10x1.5-6g	WIN8-⑧	✓	3.5mm** Hex & 5.0mm** Hex
	IC™ NAIL FEMORAL, TIBIAL & T-2 TIBIAL	M8x1-6g	WIN16-⑯	✓	3.5mm** Hex
	T-2™ FEMORAL ANTEGRADE/RETROGRADE	M8x1-6g	WIN16-⑯	✓	3.5mm** Hex & 6.0mm Hex & 1/4" x 1/4" SQ.
ZIMMER®	ALTA® HUMERAL	1/4-20 UNC-2A	WIN3-③	✓	T20 Torx
	ALTA® FEMORAL	5/16-24 UNF-2A	WIN7-⑦	✓	T25 Torx
	M/DN® ALL	5/16-18 UNC-2A	WIN6-⑥	✓	3.5mm** Hex
	ZMS® TIBIAL & HUMERAL	1/4-20 UNC-2A	WIN3-③	✓	5.0mm** Hex
	ZMS® FEMORAL	3/8-16 UNC-2A	WIN9-⑨	✓	5.0mm** Hex
UNKNOWN	HANSEN-STREET™, HARRIS®, TIBIA®, SCHNEIDER®	1/4-20 UNC-2B	WIN1-①	✓	2.5mm** Hex
	NEFF NAIL	LARGE HOOK	WIN25 (MIWA15***)		Not Applicable
	DIAMETER 12.5 to 15mm SOLID & BROKEN* IM NAILS	Solid Nail Extractor 12.5-15mm	WIN20		Not Applicable
	DIAMETER 10 to 12.5mm SOLID & BROKEN* IM NAILS	Solid Nail Extractor 10-12.5mm	WIN21		Not Applicable
UNKNOWN	DIAMETER 8 to 10mm SOLID & BROKEN* IM NAILS	Solid Nail Extractor 8-10mm	WIN22		Not Applicable
	DIAMETER 6 to 8mm SOLID & BROKEN* IM NAILS	Solid Nail Extractor 6-8 mm	WIN23		Not Applicable
	KUNTSCHER DIAMETER 12.5 to 15mm	Solid Nail Extractor 12.5-15mm	WIN20		Not Applicable
	KUNTSCHER DIAMETER 10 to 12.5mm	Solid Nail Extractor 10-12.5mm	WIN21		Not Applicable
UNKNOWN	KUNTSCHER DIAMETER 8 to 10mm	Solid Nail Extractor 8-10mm	WIN22		Not Applicable
	KUNTSCHER DIAMETER 6 to 8mm	Solid Nail Extractor 6-8 mm	WIN23		Not Applicable

* BROKEN: NAILS BROKEN MIDSHAFT OR LESS ** REVERSE CAPTIVE TWIST *** APPLIES TO UPGRADE KITS ONLY

Contact us at: **888-4shukla (888-474-8552)**
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See our website at: **www.ShuklaMedical.com**



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<p>Step 1 - Determine size of bone screw & select appropriate screwdriver shaft. Insert screwdriver shaft into ratcheting handle & set ratchet to counter-clockwise.</p>			<p>Step 7 - Using the T-handle screw the extractor into the rod until the extractor is tight.</p>
<p>Step 2 - Remove all proximal & distal screws.</p>			<p>Step 8 - Assemble the extraction frame (MIWE) on the extractor using a nut (MIWN).</p>
<p>Step 3 - Using the bone chisel, remove bone growth from around proximal neck of IM rod & remove threaded cap.</p>			<p>Step 9 - Tighten the nut using the 11/16" wrench. It may be necessary to retighten during the extraction of the nail.</p>
<p>Step 4 - Select the appropriate size extractor tip to match the threads on the rod. Hooks and solid nail extractors may also be used.</p>			<p>Step 10 -Using the mallet (MMM5) to strike the frame plate, drive the rod out of the IM canal.</p>
<p>Step 5 - Tighten the tip into the extractor body (WIN19) using the 9/32" & 11/16" wrench.</p>			<p>Note 1 - If the tip should break, use the socket wrench (WIN18) to remove the broken tip and start over at step 4.</p>
<p>Step 6 - Tighten the T-handle (MIWD) on the assembled extractor.</p>			<p>Note 2 - If the extractor is not long enough to attach to the frame, use the 6 inch extension extractor (WIN24 or MIWA22***)</p>

<p>EC REP</p>	<p>REF</p>			
<p>EMERGO GROUP Molenstraat 15 2513 BH, The Hauge The Netherlands Tel: +31 (0)70 345 8570 Fax: +31 (0)70 346 7299</p>	<p>MKS1017</p>	<p>Shukla Medical 151 Old New Brunswick Road Piscataway, NJ 08854 U.S.A. (732) 474-1800 www.shuklamedical.com</p>	<p>CONSULT INSTRUCTIONS FOR USE</p>	<p>NON STERILE PRODUCT</p>

*** APPLIES TO UPGRADE KITS ONLY