



September 17, 2025

Ruthless, LLC dba Ruthless Spine
% Kyle Kovach
Quality and Regulatory Manager
JALEX Medical, LLC
27865 Clemens Road, Suite 3
Westlake, Ohio 44145

Re: K252615

Trade/Device Name: Ruthless Spine RJB
Regulation Number: 21 CFR 888.4560
Regulation Name: Intraoperative Surgical Angle Measurement Tool
Regulatory Class: Class II
Product Code: QWL
Dated: August 18, 2025
Received: August 19, 2025

Dear Kyle Kovach:

We have reviewed your section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (the Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database available at <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm> identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Additional information about changes that may require a new premarket notification are provided in the FDA guidance documents entitled "Deciding When to Submit a 510(k) for a Change to an Existing Device" (<https://www.fda.gov/media/99812/download>) and "Deciding When to Submit a 510(k) for a Software Change to an Existing Device" (<https://www.fda.gov/media/99785/download>).

Your device is also subject to, among other requirements, the Quality System (QS) regulation (21 CFR Part 820), which includes, but is not limited to, 21 CFR 820.30, Design controls; 21 CFR 820.90, Nonconforming product; and 21 CFR 820.100, Corrective and preventive action. Please note that regardless of whether a change requires premarket review, the QS regulation requires device manufacturers to review and approve changes to device design and production (21 CFR 820.30 and 21 CFR 820.70) and document changes and approvals in the device master record (21 CFR 820.181).

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR Part 803) for devices or postmarketing safety reporting (21 CFR Part 4, Subpart B) for combination products (see <https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR Part 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR Parts 1000-1050.

All medical devices, including Class I and unclassified devices and combination product device constituent parts are required to be in compliance with the final Unique Device Identification System rule ("UDI Rule"). The UDI Rule requires, among other things, that a device bear a unique device identifier (UDI) on its label and package (21 CFR 801.20(a)) unless an exception or alternative applies (21 CFR 801.20(b)) and that the dates on the device label be formatted in accordance with 21 CFR 801.18. The UDI Rule (21 CFR 830.300(a) and 830.320(b)) also requires that certain information be submitted to the Global Unique Device Identification Database (GUDID) (21 CFR Part 830 Subpart E). For additional information on these requirements, please see the UDI System webpage at <https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/unique-device-identification-system-udi-system>.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance>) and CDRH Learn (<https://www.fda.gov/training-and-continuing-education/cdrh-learn>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory->

[assistance/contact-us-division-industry-and-consumer-education-dice](#) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,


Shumaya Ali -S
Shumaya Ali, M.P.H.
Assistant Director
DHT6C: Division of Restorative,
Repair, and Trauma Devices
OHT6: Office of Orthopedic Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

Indications for Use

Please type in the marketing application/submission number, if it is known. This textbox will be left blank for original applications/submissions.

K252615

?

Please provide the device trade name(s).

?

Ruthless Spine RJB

Please provide your Indications for Use below.

?

The Ruthless Spine RJB device is intended to measure the angle of surgical instruments in two planes relative to a vertical plumb line in line with gravity. It is indicated for use during lumbosacral pedicle screw implantation in conjunction with applicable spinal instrumentation and as an adjunct to fluoroscopy or intraoperative x-ray. The RJB device is not intended to replace a surgeon's judgment and has not undergone clinical evaluation. No clinical benefit has been demonstrated or is claimed.

Please select the types of uses (select one or both, as applicable).

Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

?



510(k) Summary

Applicant: Ruthless, LLC dba Ruthless Spine
1438 Arrow Highway
Ste F
Irwindale, CA 91706

Date: 09/17/2025

Contact Person: Kyle Kovach, Quality and Regulatory Manager
Contact Telephone: (440) 787-5832
Contact Fax: (440) 933-7839

Device Trade Name: Ruthless Spine RJB
Common Name: Intraoperative Surgical Angle Measurement Tool
Device Classification Name: 21 CFR 888.4560
Device Class: II
Reviewing Panel: Orthopedic
Product Code: QWL
Primary Predicate Device: K243375 – Ruthless Spine RJB

Device Description:

The Ruthless Spine RJB device is an intraoperative surgical angle measurement guide that attaches to surgical instruments to measure the angle of the instrument relative to a vertical plumb line in line with gravity. The device can measure the axial and sagittal angles relative to gravity. The RJB system only provides measurements for angles in two planes relative to the vertical gravitational plumb line. As such, the RJB device does not provide surgical assistance, guidance, or navigation against patient anatomy. The RJB device is not intended to replace a surgeon's clinical judgement and has not undergone clinical evaluation. No clinical benefit has been demonstrated or is claimed.

The RJB device is provided sterile for single use and utilizes Bluetooth Low Energy (BLE) to connect to a tablet computer and display the angle measurements via the RJB Application (App). A set of handles and instruments compatible with the RJB are provided with the device for use in lumbosacral pedicle screw placement. The following components are part of the RJB system ((R) = Reusable (SU) = Single Use):

- RJB Device (SU)
- Quick Connect Axial Ratcheting Handle (R)
- Straight Probe (R)
- Duckbill Probe (R)
- Plastic Ratchet Handle (SU)
- Plastic Straight Probe (SU)
- Plastic Duckbill Probe (SU)
- MPV7 (Jamshidi Needle) Bevel Tip 8 Gauge (SU)
- MPV7 (Jamshidi Needle) Diamond Tip 8 Gauge (SU)
- MPV7 (Jamshidi Needle) Bevel Tip 10 Gauge (SU)
- MPV7 (Jamshidi Needle) Diamond Tip 10 Gauge (SU)
- RJB Application

Note, a Tablet Computer is required to operate the device. The Tablet is not provided to the end user.



Indications for Use:

The Ruthless Spine RJB device is intended to measure the angle of surgical instruments in two planes relative to a vertical plumb line in line with gravity. It is indicated for use during lumbosacral pedicle screw implantation in conjunction with applicable spinal instrumentation and as an adjunct to fluoroscopy or intraoperative x-ray. The RJB device is not intended to replace a surgeon's judgment and has not undergone clinical evaluation. No clinical benefit has been demonstrated or is claimed.

Description of Modifications:

RJB Application	The RJB software has undergone a cosmetic update for the addition of the MPV7 (Jamshidi Needle). No changes to the software functionality have been made.
Single Use Instruments	Ruthless Spine is adding single use disposable instruments (plastic ratchet handle, plastic duckbill probe, plastic straight probe, MPV7 (Jamshidi Needle)) to the existing RJB system.

Summary of Technological Characteristics

The subject Ruthless Spine RJB has the same intended use, indications for use, and technological characteristics as the predicate system.

Item	Subject Device	Predicate Device	Equivalence
	Ruthless Spine RJB	Ruthless Spine RJB (K243375)	
Classification Name	Intraoperative Surgical Angle Measurement Tool	Intraoperative Surgical Angle Measurement Tool	Identical
Regulation	21 CFR 888.4560	21 CFR 888.4560	Identical
Product Code	QWL	QWL	Identical
Indications for Use	The Ruthless Spine RJB device is intended to measure the angle of surgical instruments in two planes relative to a vertical plumb line in line with gravity. It is indicated for use during lumbosacral pedicle screw implantation in conjunction with applicable spinal instrumentation and as an adjunct to fluoroscopy or intraoperative x-ray. The RJB device is not intended to replace a surgeon's judgment and has not undergone clinical evaluation. No clinical benefit has been demonstrated or is claimed.	The Ruthless Spine RJB device is intended to measure the angle of surgical instruments in two planes relative to a vertical plumb line in line with gravity. It is indicated for use during lumbosacral pedicle screw implantation in conjunction with applicable spinal instrumentation and as an adjunct to fluoroscopy or intraoperative x-ray. The RJB device is not intended to replace a surgeon's judgment and has not undergone clinical evaluation. No clinical benefit has been demonstrated or is claimed.	Identical

Item	Subject Device	Predicate Device	Equivalence
	Ruthless Spine RJB	Ruthless Spine RJB (K243375)	
Device Description	<p>The Ruthless Spine RJB device is an intraoperative surgical angle measurement guide that attaches to surgical instruments to measure the angle of the instrument relative to a vertical plumb line in line with gravity. The device can measure the axial and sagittal angles relative to gravity. The RJB system only provides measurements for angles in two planes relative to the vertical gravitational plumb line. As such, the RJB device does not provide surgical assistance, guidance, or navigation against patient anatomy. The RJB device is not intended to replace a surgeon's clinical judgement and has not undergone clinical evaluation. No clinical benefit has been demonstrated or is claimed.</p> <p>The RJB device is provided sterile for single use and utilizes Bluetooth Low Energy (BLE) to connect to a tablet computer and display the angle measurements via the RJB Application (App). A set of handles and instruments compatible with the RJB are provided with the device for use in lumbosacral pedicle screw placement. The following components are part of the RJB system:</p> <ul style="list-style-type: none"> • RJB Device • Quick Connect Axial Ratcheting Handle • Straight Probe • Duckbill Probe 	<p>The Ruthless Spine RJB device is an intraoperative surgical angle measurement guide that attaches to surgical instruments to measure the angle of the instrument relative to a vertical plumb line in line with gravity. The device can measure the axial and sagittal angles relative to gravity. The RJB system only provides measurements for angles in two planes relative to the vertical gravitational plumb line. As such, the RJB device does not provide surgical assistance, guidance, or navigation against patient anatomy. The RJB device is not intended to replace a surgeon's clinical judgement and has not undergone clinical evaluation. No clinical benefit has been demonstrated or is claimed.</p> <p>The RJB device is provided sterile for single use and utilizes Bluetooth Low Energy (BLE) to connect to a tablet computer and display the angle measurements via the RJB Application (App). A set of handles and instruments compatible with the RJB are provided with the device for use in lumbosacral pedicle screw placement. The following components are part of the RJB system:</p> <ul style="list-style-type: none"> • RJB Device • Quick Connect Axial Ratcheting Handle 	Substantially Equivalent

Item	Subject Device	Predicate Device	Equivalence
	Ruthless Spine RJB	Ruthless Spine RJB (K243375)	
	<ul style="list-style-type: none"> • Plastic Ratchet Handle • Plastic Straight Probe • Plastic Duckbill Probe • MVP7 (Jamshidi Needle) Bevel Tip 8 Gauge • MVP7 (Jamshidi Needle) Bevel Tip 10 Gauge • MVP7 (Jamshidi Needle) Diamond Tip 8 Gauge • MVP7 (Jamshidi Needle) Diamond Tip 10 Gauge • RJB Application <p>Note, a Tablet Computer is required to operate the device. The Tablet is not provided to the end user.</p>	<ul style="list-style-type: none"> • Straight Probe • Duckbill Probe • RJB Application <p>Note, a Tablet Computer is required to operate the device. The Tablet is not provided to the end user.</p>	
Instrument Materials	Stainless steel, aluminum, PARA	Stainless steel, aluminum	Substantially Equivalent
Sterilization Methods	Ethylene oxide, gamma radiation, steam	Ethylene oxide, steam	Substantially Equivalent

Performance Testing – Non-Clinical:

Angle measurement accuracy testing was performed for the added disposable instruments.

A gamma radiation sterilization validation was performed to validate the sterilization dose and ensure a Sterility Assurance Level (SAL) of 10^{-6} . Packaging validation was performed to validate a 2-year shelf life for the disposable instruments through real-time and accelerated aging techniques. The validation study also validated the integrity of the packaging following sterilization and distribution testing.

The biocompatibility evaluation leveraged equivalence in materials and manufacturing processes to previously cleared instruments (K243375) and identical processes to currently manufactured devices. The results of these evaluations show that the subject is substantially equivalent to the cleared predicate.

Performance Testing – Clinical:

Clinical testing was not applicable to support a substantial equivalence determination for the subject device.

Conclusion

Based on the indications for use, technological characteristics, and comparison with the predicate device, the subject device has demonstrated substantial equivalence.