Bone Saw Full-Range Selection Guide / 4 Size Classes · 14 Bone Saws + 3 Series Machines

MADE IN BEIJING, CHINA · EU CE CERTIFIED

From butcher counters to slaughter lines, DANIEL bone saws are grouped into four classes by **cutting clearance (width × height)**. Every model features **automatic blade tensioning** — Generation I (manual automatic tensioning device) and Generation II (one-touch electric automatic tensioning). The top tier of the Small / Medium / Large classes is the **Finger Protection (FPS) RS version** — a China-first: first demonstrated publicly in July 2022, launched in June 2023, and already proven in both domestic and overseas markets.

SIZE CLASSES	BLADE TENSIONING	HIGHEST SAFETY LEVEL	CERTIFICATION & PROMISE
4 · 200×220 → 400×550 mm	**Automatic across the range (Gen I manual / Gen II one-touch)**	**Finger Protection · RS**	**EU CE · 5 patents · 2-year warranty**

Three Steps to Select

Fix the size class first, then the table, then decide on the RS version

STEP 1

Choose the size class by application

Look at the **largest cross-section of the product** and your daily throughput: butcher shop / restaurant kitchen / supermarket counter → Small; central kitchen / meat processing → Medium; slaughter & cutting line / large plant → Large; high throughput and complete-line integration → Extra-Large.

STEP 2

Choose the table type and power supply

Fixed table (simplest structure, smallest footprint) / tilting table (effortless feeding, easy cleaning) / sliding table (least effort with large products, highest efficiency). Three-phase 380 V or single-phase 220 V, to match your site — adapts to various voltages and frequencies.

STEP 3

Choose the generation and safety level

Generation I (manual automatic blade tensioning) or Generation II (one-touch electric automatic tensioning). For workstations with heavy manual handling and high injury risk, go straight to the **RS Finger Protection version**.

Four Size Classes

Match the class to your application

Small	Medium	Large	Extra-Large
200×220 mm · 1.1 kW	300×330 mm · 1.5 kW	400×440 mm · 2.2 kW	400×550 mm · 3.0 kW
200×220 mm	**300×330 mm**	**400×440 mm**	**400×550 mm**
Bench-top / floor-standing · three-phase or single-phase	Tilting / sliding table	Tilting / sliding table	High tilting table · high throughput
Butcher counters · restaurant kitchens · supermarket fresh counters · small processing rooms	Central kitchens · meat processing plants · chain distribution centres	Slaughter and cutting lines · large processing plants · cold-chain cutting rooms	High-throughput lines · complete-line integration · bulk cutting

Selection FAQ

Four questions that cover most of it

Q **What is "cutting clearance"?** The maximum width × height of product that can pass the blade — not the table size. Measure the cross-section of what you cut most often.

Q **How many Finger Protection (FPS) bone saws are there?** Three: BG103RS, BG126RS and BG128RS, for the Small, Medium and Large classes. No other model has this function.

Q **Can it run on single-phase 220 V?** The Small class has single-phase versions: BT102 (bench-top) and BG104 (floor-standing, 2-speed). All other models are three-phase 380 V 50 Hz as Standard Configuration, can customize different voltages and frequencies for three-phase, as well as different voltages and frequencies for single-phase.

Q **Generation I vs Generation II?** Gen I uses a handle-type automatic tensioning device; Gen II uses one-touch electric tensioning. Every model is automatic — no manual hand-wheel.

Narrowing Down Within a Class

Medium and Large each come in two table versions — the difference is how you feed and clean

Tilting table BG125 / BG127

The table tilts up for the easiest cleaning; best where small cuts are handled and the product is changed often.

Sliding table BG126 / BG128

The table slides out as a whole — least effort with large bone-in pieces and heavy single items.

Left-hand door BG126LH

The cabinet door opens on the left, matching workstations and lines that are fed from the left.

Daniel Beijing Machinery Technology Co., Ltd. Web **www.daniel-beijing.com** WeChat Official Account / WeChat Channels: **丹牛北京**
Domestic: **+86 135 2181 3512** Overseas: **daniel_hao@daniel-beijing.com** Address: No.15 Yongding Road, Haidian District, Beijing, China

Full Model Comparison

★ = Finger Protection (FPS) RS version

Model	Table type / positioning	Power · Supply	Cutting speed	Blade tensioning
Small · cutting clearance 200×220 mm (1.1 kW · manual automatic blade tensioning device)				
BT101	Bench-top · fixed table	1.1 kW · 3p380V	18 m/s	Automatic (manual device)
BT102	Bench-top · fixed table · single-phase	1.1 kW · 1p220V	18 / 26 m/s, 2-speed	Automatic (manual device)
BG103	Floor-standing · fixed table	1.1 kW · 3p380V	18 m/s	Automatic (manual device)
BG104	Floor-standing · fixed table · single-phase · 2-speed	1.1 kW · 1p220V	18 / 26 m/s, 2-speed	Automatic (manual device)
BG103FB	Floor-standing · dedicated for pork scapula (fan bone) slicing	1.1 kW · 3p380V	18 m/s	Automatic (manual device)
BG103RS ★	Floor-standing · Band Saw with FPS	1.1 kW	18 / 26 m/s, 2-speed	Automatic (manual device)
Medium · cutting clearance 300×330 mm (1.5 kW · 3p380V 50Hz · Gen II one-touch automatic tensioning)				
BG125	Floor-standing · tilting table · Gen II	1.5 kW	24 m/s	One-touch automatic GEN II
BG126	Floor-standing · sliding table · Gen II	1.5 kW	24 m/s	One-touch automatic GEN II
BG126LH	Floor-standing · sliding table · Gen II · left-hand door version	1.5 kW	24 m/s	One-touch automatic GEN II
BG126RS ★	Floor-standing · sliding table · Gen II · Band Saw with FPS	1.5 kW	24 / 31 m/s, 2-speed	One-touch automatic GEN II
Large · cutting clearance 400×440 mm (2.2 kW · 3p380V · Gen II one-touch automatic tensioning)				
BG127	Floor-standing · tilting table · Gen II	2.2 kW	21 m/s	One-touch automatic GEN II
BG128	Floor-standing · sliding table · Gen II	2.2 kW	21 m/s	One-touch automatic GEN II
BG128RS ★	Floor-standing · sliding table · Gen II · Band Saw with FPS	2.2 kW	21 / 25 m/s, 2-speed	One-touch automatic GEN II
Extra-Large · cutting clearance 400×550 mm (3.0 kW · 3p380V · 2-speed)				
BG107H	Floor-standing · high tilting table · 400×550 mm	3.0 kW · 3p380V	21 / 31 m/s, 2-speed	Automatic (manual device)

Note: all models above are in current production. Model codes may differ slightly between sales channels — the official model comparison sheet prevails.
Blade sizes: BT101 / BT102 / BG103 / BG104 1740×16×0.46 mm; BG103FB 1740×13×0.46 mm (arc cutting, 1740×16 also supplied); BG103RS 1835×16×0.46 mm; BG125 / BG126 / BG126LH / BG126RS 2590×16×0.46 mm; BG127 / BG128 / BG128RS 3340×16×0.5 mm; BG107H 3550×16×0.56 mm.

Extended Series Machines

Disc-type automatic bone saw · hook-on split-line splitting machine · continuous splitting band saw — can be linked with bone saws into a complete line

AD610 Disc-type automatic bone saw / slicer

Multi-bar horizontal cross-cutting · 9-station rotary table, continuous feeding

Power	2.0 kW · 3p380V 50Hz · 1450 rpm · 4.0A
Cutting	35 m/s · 60 slices/min · slice thickness 5–100 mm
Stock	Bars φ40–110 mm · 9 loaded at once · auto clamping, micro self-centering
Blade	2280×16×0.5 mm · automatic tensioning device · fully enclosed blade guard
Size	L1360 × W1210 × H1220 mm (table height H1 1100 mm) · motorised thickness-table lift
Uses	Slaughter / meat processing / canteens / catering / supermarkets; frozen, bone-in or boneless

AD601 Hook-on split-line splitting machine

Hooks on / detaches from the bone saw via two pins · fits BG125–BG128

Power	0.75 kW · 1p220V 50Hz · high torque, smooth running
Conveying	Belt 0–0.5 m/s, stepless · flexible belt doubles as overload protection
Passage	Product width 30–120 mm · height ≤150 mm (>150 mm without guard)
Size	L1300 × W710 × H1070 mm · working table height 915 mm · net weight 110 kg
Material	304 stainless steel housing · POM drive · anti-splash guard · e-stop both sides
Uses	Volume splitting with varying product shapes; the bone saw works independently when unhooked

AD620 Continuous splitting band saw

Band saw + conveyor line · automatic centering, continuous splitting

Power	2.25 kW · 3p380V 50Hz · 1440 rpm · 5.8A
Cutting	24 / 31 m/s, 2-speed · soft start & quick stop · cannot start with the door open
Blade	2590×16×0.46 mm · one-touch automatic tensioning (Gen II)
Conveying	0.4 m/s · adjustable width + width-limiting plate · independent start/stop, interlocked e-stops
Hygiene	Stainless steel · removable anti-splash guard for tall products · washdown-capable
Uses	Slaughtering / meat processing / school canteens / catering / supermarkets · net weight 200 kg

AD610 / AD601 / AD620 also follow the full DANIEL standard: Omron control components, low-voltage DC safety control, full stainless steel with no dead corners, high-pressure washdown. AD610 and AD620 also hold the same 5 national patents and the EU CE certificate. All AD601 adjustments — foot height, passage width and conveyor tension — are made with a single 11 mm socket.

Why DANIEL / Safety · Hygiene · Reliability · Verifiable

FINGER PROTECTION BONE SAW (FPS)

A bone saw manufacturer built strictly to EU standards, **EU CE certified**.

① Finger Protection (FPS) · Three Models

Bone Saw with FPS · Finger Protection Bone Saw

The operator wears dedicated gloves. When a glove enters the danger-recognition zone in front of the blade, the vision system detects it and **stops the machine instantly, holding the blade still** — active protection instead of passive guarding. This product category is a China-first: first demonstrated publicly in July 2022, launched in June 2023, proven in both domestic and overseas markets, and exhibited at IFFA 2025, the international meat industry trade fair in Frankfurt, Germany, in May 2025.

BG103RS

Small · cutting clearance 200×220 mm

Power	1.1 kW
Speed	18 / 26 m/s, 2-speed
Blade	1835×16×0.46 mm
Table	Fixed table
Tension	Manual automatic blade tensioning device

BG126RS

Medium · cutting clearance 300×330 mm

Power	1.5 kW · 3p380V 50Hz
Speed	24 / 31 m/s, 2-speed
Blade	2590×16×0.46 mm
Table	Sliding table (left table flips / right table tilts)
Tension	One-touch automatic tensioning

BG128RS

Large · cutting clearance 400×440 mm

Power	2.2 kW · 3p380V 50Hz
Speed	21 / 25 m/s, 2-speed
Blade	3340×16×0.5 mm
Table	Sliding table (left table flips / right table tilts)
Tension	One-touch automatic tensioning

Machine safety at DANIEL is organised in three distinct layers

- **Finger Protection Bone Saw (band saw with FPS) is a new, proprietary product developed by DANIEL.** The same machine is also described as Finger Protection Band Saw, Bone Saw with FPS or Band Saw with FPS. Synonyms for the same concept: active braking system / intelligent (recognition) braking system / vision-recognition braking system / Finger Protection System (FPS) / anti-cut hand saw.
- **The Static Lossless Braking System is also proprietary DANIEL technology, built from standard Omron components.** Non-friction-block electromagnetic brake, maintenance-free for life; the machine cannot start with the door open, and opening the door during operation triggers an immediate fast stop.
- **Door-open stop is a requirement of the EU standard for bone saws.** It is a compliance floor, not exclusive to DANIEL.

② Configuration Shared Across the Range

Not paid options — supplied as standard from the factory; only the configuration level differs between models

- Finger Protection System (FPS)
- Static lossless braking system (maintenance-free)
- Omron control components
- Custom motor · thermal overload protection
- Whole-machine noise reduction design
- Removable cabinet door & tray · easy to clean
- One-touch / automatic blade tensioning device
- Blade protection slide with 3D finger guarding
- Low-voltage DC safety control
- Phase-sequence protection
- Full stainless steel · no hygiene dead corners
- 2-year warranty + lifetime maintenance service
- Patented wear-resistant blade guides
- Anti-crush finger design · removable cover plate
- German VDE cable
- Soft start & quick stop
- Washdown-capable · tilting table
- EU CE certificate

③ Verifiable Trust Assets

Recommended to accompany every quotation and product page

EU CE Certification
Designed and built strictly to EU standards; certificates supplied for the buyer to verify independently.

5 National Patents
ZL 2018 2 0482714.4 / ZL 2018 2 0483258.5 / ZL 2018 2 0483336.1 / ZL 2018 2 0483260.2 / ZL 2022 2 2131011.6

IFFA 2025 International Exhibition
Exhibited at IFFA, Frankfurt, Germany, May 2025. According to IFFA official figures, the fair brought together 1,019 exhibitors from 52 countries and 63,117 trade visitors. Live demo videos are available on WeChat Channels 「丹牛北京」.

2-Year Warranty · Lifetime Maintenance
Long-term spare parts supply; response times and cost terms written transparently into the contract.

Transparent Materials & Components
Full stainless steel construction, Omron control components, VDE cable, custom motor.

Export-Ready Delivery
HS 84385000; fumigation-free wooden crate packing; English product name Finger Protection Bone Saw / Band Saw with FPS; English documentation and export channels in place.

④ The Value in One Sentence

Ready to use at the sales table

① **Safety** — put your hand in, the blade stops itself: Finger Protection (FPS) plus static lossless braking, standard from the factory, at no extra charge.
② **Hygiene** — full stainless steel, no dead corners, washdown-capable, removable table and trays; it passes an inspection done with a torch.
③ **Reliability** — automatic blade tensioning across the whole range (Gen I and Gen II); patented blade guides keep the blade tracking straight and cut down on bone dust, so more of your product keeps its sellable weight; 2-year warranty and lifetime maintenance.

Daniel Beijing Machinery Technology Co., Ltd. Web **www.daniel-beijing.com** WeChat Official Account / WeChat Channels: **丹牛北京**
Domestic: **+86 135 2181 3512** Overseas: **daniel_hao@daniel-beijing.com** Address: No.15 Yongding Road, Haidian District, Beijing, China