

## Edge & Centre Finders

CODE	BRAND	MODEL	DESCRIPTION	BODY DIAMETER	CONTACT DIAMETER
TS4923260	Solar	SEF-72E	Double Ended	9.5mm	5mm Steel
TS4923300	Starrett	827MA	Single Ended	10mm	6mm Steel
TS4923340	Insize	6567-1	Single Ended	10mm	6mm Steel
TS4923360	Starrett	827MB	Double Ended	10mm	6mm Steel
TS4923380	Insize	6566-2	Single Ended	20mm	10mm Steel
TSANN1100	Ann Way	ME-610	Single Ended	10mm	10mm Ceramic
TSANN1102	Ann Way	SH-1020	Single Ended	10mm	6mm Steel
TSVRT1000	Vertex	VPS-20	Single Ended	20mm	10mm Steel
TSVRT1001	Vertex	VPS-20B	Single Ended	20mm	10mm Steel
TS4923220	Starrett	S828HZ	5pc Set	9.5mm	Multiple, Steel
TSPEC6000	PEC	4200-100	Double Ended	9.5mm	8mm Steel

Edge finders and centre finders are precision **machine setup tools** used on **manual and CNC milling machines** to accurately establish the position of a workpiece relative to the spindle. They are primarily used during setup to locate **edges, faces, centre points, and reference datums**, allowing machining operations to be carried out accurately and repeatably.

### Edge Finders

**Mechanical edge finders** consist of a precision-ground body with a spring-loaded contact tip. When mounted in the spindle and rotated, the contact tip initially runs eccentrically. As the tool is fed toward the workpiece, the tip aligns concentrically with the spindle just before contact. At the moment the spindle centreline reaches the workpiece edge, the tip visibly deflects or “kicks” away, providing a clear and repeatable indication of the edge location. The machine axis is then offset by half the tip diameter to establish the true datum.

Mechanical edge finders are commonly used for setting **X and Y zero points** and are valued for their simplicity, durability, and repeatability. They are available in **single-ended and double-ended** configurations, with double-ended models offering different tip sizes or styles in a single tool to reduce tool changes during setup.

**Electronic edge finders** operate using electrical conductivity between the probe tip and the workpiece. When contact is made, an internal circuit is completed and the tool provides a **visual light signal, an audible beep, or both**, eliminating the need to observe mechanical tip movement or rotate the spindle. Electronic edge finders are particularly useful where visibility is limited or where spindle rotation is undesirable.

The electronic edge finders stocked include:

- **TS4923380** – visual light indication
- **TSVRT1000** – light indication only
- **TSVRT1001** – combined light and audible beep indication

Electronic edge finders are suitable for use on **electrically conductive materials** and are commonly used for precise setup work where clear, unambiguous feedback is preferred.

**Ceramic-tipped edge finders** are also available and are used where **non-marring contact** is required. The ceramic contact point reduces the risk of marking finished, coated, or delicate surfaces and can also be used on non-conductive materials where electronic edge finders are unsuitable.

### **Centre Finders / Wigglers**

**Centre finders**, often referred to as **wigglers or wobblers**, are used to locate the **centre of scribed lines, punch marks, holes, or round features**. They typically consist of a main body that mounts in the spindle and interchangeable probes that are held by a spring or ball joint.

When the spindle rotates, the probe visibly “wiggles.” As the probe is adjusted over a reference point, the wobble reduces until the probe runs concentrically, indicating alignment with the spindle centreline. Centre finders are commonly used for **layout and alignment tasks**, such as centring over marked intersections or locating hole centres, rather than for direct dimensional measurement.

### **Round Bar Centre Finders**

The range also includes **PEC round bar centre finders**, which are purpose-designed tools for locating the **true centreline of round bar or shaft material**. These tools are commonly used during drilling or milling setup to quickly and accurately establish the centre of cylindrical workpieces, reducing setup time and improving accuracy compared to manual marking methods.

### **Construction & Brands**

Edge finders and centre finders are typically manufactured from **precision-ground, hardened steel** to ensure rigidity, wear resistance, and dimensional stability. Ceramic-tipped variants incorporate wear-resistant ceramic contact points for sensitive applications.

The range stocked from **Starrett, Solar, Insize, Ann Way, Vertex, and PEC** covers mechanical edge finders, electronic edge finders, ceramic-tipped models, centre finders (wigglers), and round bar centre finders, providing suitable options for a wide range of machining, setup, and inspection requirements.