KOIKE Your cutting needs - achieved.

IK-12 Beetle



High quality portable track cutting machine with one or two torches.

Able to make, straight line, circle and bevel cutting.

Wide machine body for excellent stability

Low center point for smooth movement

Using unique high quality single cone system for constant speed.

Single cone system will not be affected by heat input. Ensure long life time.

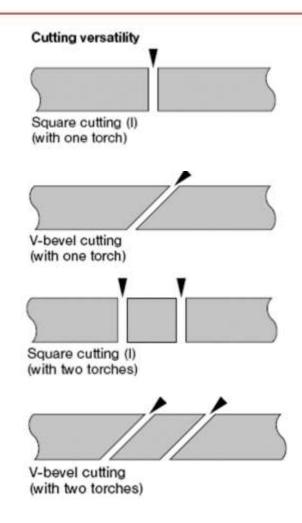
Wide variety of torch positioning.



IK-12 Beetle











IK-12 Beetle





Cutting thickness
Cutting speed
Type of cuts
Power units
Speed gearbox
Weight
Rail

3-100 mm 150 – 800 mm/min I bevel to 45gr 42 / 110 / 220 VAC single cone drive step less 9.5 kg incl. torch set Lenght 1,800 mm

Scope of delivery
Machine body with torch set
Cutting nozzles (102HC or 106HC, size #0, 1, 2)
Power cable
Standard tool set
Operation manual



Case Study: IK-12 Beetle

The KOIKE Original vs.
Copy product



Drive System The drive wheel

Original KOIKE

- Properly designed and processed grooves.
- High-quality hardened steel made.



Copy

Smooth grooves; less traction.



Drive System – Single Cone Drive System



Original KOIKE

- High quality Bakelite. Well compressed.
- Very robust material against frictional wear.
- Promises long life time of IK-12 Beetle.



- Made of Cork-like material.
- Particles are visible --- not highly compressed.
- Durability is questionable.

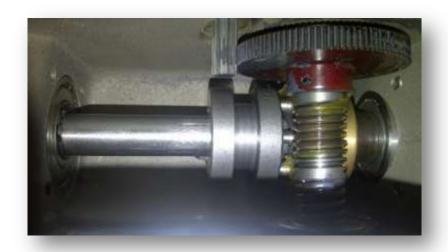




Drive System – Primary Gear

Original KOIKE

 Made of high quality Bakelite, a strong material against frictional wear.



- Made of plastic-like resin.
- Not a suitable material for this purpose.





Drive System - Clutch

Original KOIKE

- Proper size for smooth clutching.
- Molybdenum grease; perfect smooth lubricant under heating environment.





- Small size, very narrow radius.
- Un-even and very sticky grease, resulted in less smooth clutch movement.







Drive System – Motor

Original KOIKE

 Motor is selected to provide constant power and maximize cooling efficiency.



- Completely sealed.
- Cooling efficiency is doubtful.





Drive System – Cooling fan

Original KOIKE

 Made of steel for durability under heavy-duty and high-heat environment.



Copy

Made of plastic.





Wiring - Switch

Original KOIKE

- Soldered
- Wired clean and neatly



- Twisted & Screwed
- No measures against loosening, such as use of spring washer.



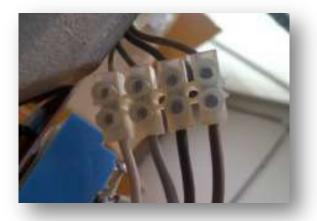




Wiring - General

Original KOIKE

- Use of terminal for safety and easy maintenance
- Clean and neat





- Twisted and soldered, isolated only by heat shrink tube → dangerous if tube breaks.
- Wires are not organized.









Cutting System – Hoses

Original KOIKE

ISO 3821 certified Oxy-fuel cutting hose.



- No marking.
- Not suitable for sale in many countries.





Torch system

Original KOIKE

- Koike's high standard quality torch.
- Up/Down knobs and racks are built for smooth feed during cutting.



- Un-even up/down feed.
- No mark on the dial.





Quality control certifications

Original KOIKE

 Koike products are designed according to standards and produced in quality certified factories.



Copy

Could not confirm.

The biggest difference – Cutting Quality.



- All Koike cutting machines are designed and built to provide best cutting results and long term durability.
- Every customer's cutting needs achieved --- at the highest level.





