



The masters in linear EDM technology.



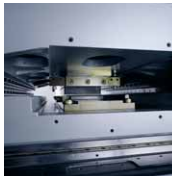
10 REASONS TO BUY SODICK EDM

1 LINEAR MOTOR DRIVES

Sodick first introduced their linear motor EDM in 1999.

Over 10,000 machines with linear motors have now been sold. The SODICK Motion Control is the electronic technology behind the linear motor. The Sodick Motion Controller (KSMC) is integrated to the machine generator. The KSMC controls the axis motion and continuously monitors the spark gap.

- No contact between table and linear motor drive ensures axis movement is quiet and vibration free with no backlash.
- Linear motors require no maintenance and their life expectancy is indefinite. Sodick manufacture their own motors to ensure reliability.
- High axis speed and acceleration creates its own flushing condition.
- Spark gap changes can be made at 500 x per second
- Instantaneous servo response
- KSMC + linear motors = optimum efficiency and EDM rate.



2 HIGH TECH GENERATORS

Energy efficient, high speed with fine surface finish

Through the use of advanced electronics such as the SVC circuit, Sodick machines are at the forefront of EDM spark generation.



3 CERAMIC COMPONENTS

High-tech materials for high-tech performance

All strategic machine components are constructed from Sodick's very own manufactured ceramics to ensure rigidity and thermal stability throughout the life of the machine.

- 1.3 times more rigid than stainless steel
- 70% less thermal expansion than stainless steel
- Ceramics will not oxidize, ensuring lifelong speed and accuracy.



4 GLASS SCALE POSITIONING

The only "true" positioning technology

Glass scales, accurate to 10 nanometers (0.4 millionths) are mounted to all moving axes to ensure cutting precision and repeatability.

- Scales are mounted directly to the axis to measure true machine position.
- Scales work in harmony with linear motors, unlike ball screws which are counteractive, causing inaccuracies.



5 SOLID MEEHANITE CASTINGS

Classic material for long term stability

Meehanite is the proven and preferred machine tool casting; its benefits far outweigh the cheaper polymer concrete.

- Greater machine rigidity and durability
- More solid, stable machines ensure greater accuracy.



6 WINDOWS™ BASED CONTROLS

The industry standard

Learning a new and unfamiliar control can be stressful to a machine operator. The Sodick LQ Windows-based control creates instant familiarity between machine and operator, reducing the learning curve and resulting in better productivity.

- Training times are reduced
- On screen HELP facility included in the software package

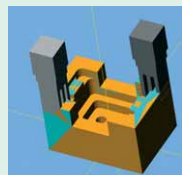


7 Q³VIC SOLUTION

The world is not flat

All Sodick LQ Controls are fitted as standard with SolidWorks CAD software. Data is imported from a 3D CAD file directly to the machine control; the onboard CAM system then generates the cutting parameters.

- On wire EDM the Q³vic Solution generates the wire path and creates an NC program.
- On sinker EDM the Q³vic Solution imports the electrode shape to the machine control



8 CONSTANT INNOVATION

Because progress doesn't stand still

Sodick's ethos of rigorous innovation and technical expertise has put them ahead of their time. Since creating the world's first CNC die sinker EDM in 1976 we have continued to implement pioneering methods in manufacturing, and constantly re-invent EDM machines.

- Ceramic components used throughout
- Linear motors
- Q³vic technology
- Creation of the Vertical Drop Tank on wire EDM



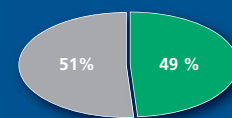
9 THINKING GLOBAL – ACTING LOCAL

World-class technology on your doorstep

Sodick have emerged as a world leader in EDM technology, with a staggering 49% share of the Japanese market alone. We have spread worldwide to ensure that you are never far from a local dealer.

- Sodick dealers present in over 30 European countries
- Offices worldwide
- Sodick trained professionals on hand to provide training and support in your area.

EDM Market Share – Japan



all other EDM manufacturers Sodick

10 COMPLETE QUALITY CONTROL AT ALL STAGES OF PRODUCTION

In house = Quality

Sodick manufactures all components in-house, from linear motors to machine castings to printed circuit boards to ensure the best possible quality standards are maintained.

- ISO 9000 certified in 1997
- ISO 9001 certified in 2001



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