



isiMotion

ISIMODUL WITH VISION



isiModul combines three power stages and a contouring control – the ideal electronic component for all mechanics with two or three axes. Cameras with integrated PC can be connected directly via Ethernet providing a wide range of possible applications.

IN THE BEGINNING THERE IS A PICTURE...

... in the end the system drives a curve – without any complicated programming of trajectories. The camera records the picture, processes it and transmits it to isiModul.

For instance, recording of work pieces:

The camera recognizes and records the work piece (previously entered into the system) and transmits its position to isiModul which starts working operations.

For instance, vectorizing of lines:

The camera records the line, vectorizes it and transmits the route to isiModul which drives along the route (see overleaf).

RATED DATA ISIMODUL

	isiModul 2	isiModul 5
Rated voltage [V _{AC}]	3 x 115 V – 230 V, 40 – 65 Hz	3 x 230 V – 480 V, 45 – 65 Hz
Rated input power for S1 operation at 230/400 V [kVA]	6	14
Rated DC-link voltage [V _{DC}]	150 – 360	290 – 680
Rated output current/axis (rms ±3 %) [A _{rms}]	5	10
Peak output current/axis for max. 5 s (rms ±3 %) [A _{rms}]	10	20
Height with/without mating connectors [mm]	249/249	472/378
Width [mm]	160	153
Depth with/without mating connectors [mm]	270/225	235/235

Easy. Not simple.

RECOGNIZE, RECORD, VECTORIZE

TASK

Lines on flat work pieces shall be followed with a glue tip. The route is arbitrary.

SYSTEM

- camera with integrated PC
- H-bridge that moves the glue tip

PROCESS

The camera notices the arrival of a workpiece, records the route of the line and vectorizes it. The vector data is transmitted to isiModul.

The tracking speed of the glue tip is inserted over an HMI, e.g. a touchpanel. If the z-axis with the glue tip is at its target position, the application of the glue is started over an output.

