J E N N Y S C I E N C E

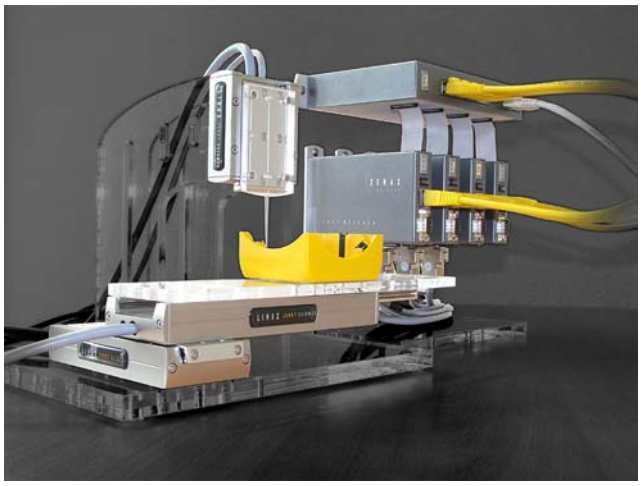
exceptional motion controls

UNAX® Ux 4

Overview

Axis coordinator for XENAX® Xv servo controller

Edition: September 2006



UNAX®, Axis coordinator

Up to 4 Axes

Master-encoder input

Virtual master axis

Simple programming with BASIC

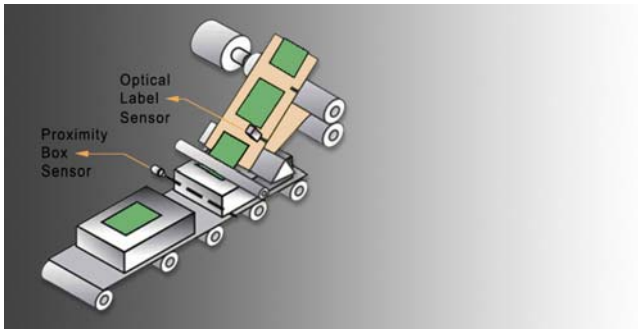
Pulse-/ Direction signal output

Coordination possibilities

Synchronisation

Synchronisation by master encoder
Two external trigger signals
Synchronisation according to position

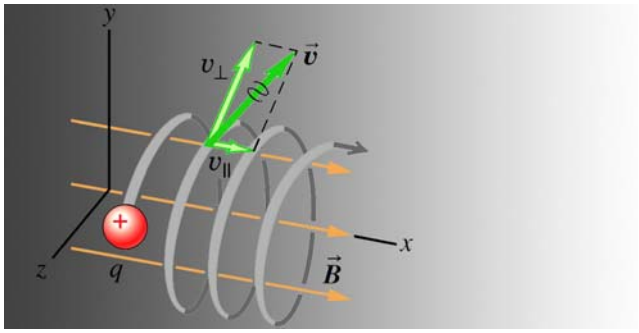
Applications:
Electronic gear systems
Labelling on conveyors
Flying cutter



Interpolation

Linear, circular, helical
Linear and circular with 2 axes
Helical with 3 axes

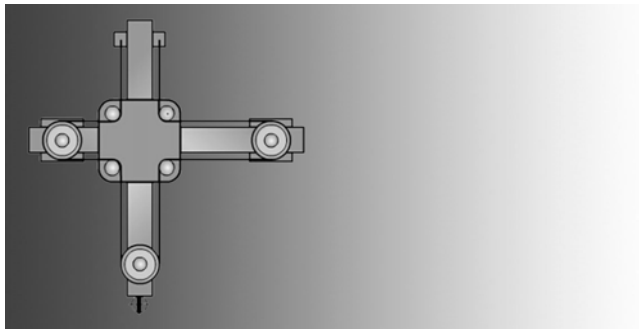
Applications:
Coil winding



Coordinate transformation

Programmable rotation of X-Y axis frame

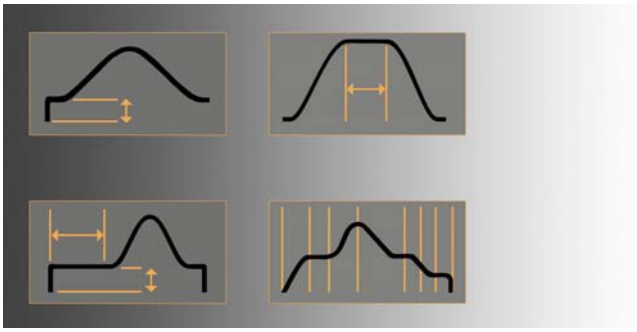
Applications:
Scara-arm robot
Single belt X/Y axis with
two stationary motors
Pick and place



CAM profile

CAM based master axis
Import EXCEL tables
CAMGEN Windows tool
Multi-profile storage

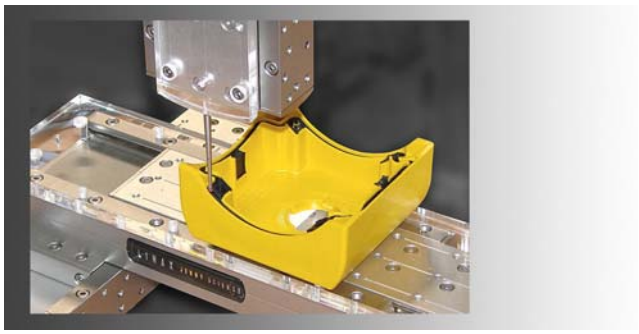
Applications:
Barrier circumnavigation
Camshaft simulation



CAD to Motion

DXF file import,
creates BASIC program file
Online correlation program code
to motion, 3 dimensional

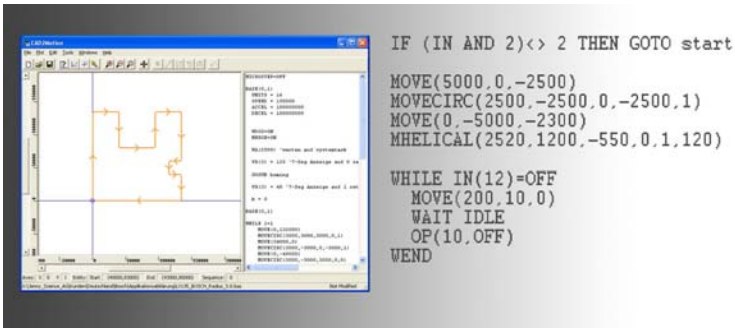
Applications:
Track curve running
Engraving
Laser inscription



Programming

With the integrated multitask operating system up to 7 user specific tasks can be run, which can be programmed using BASIC syntax.

The programming of the UNAX axis coordinator is greatly simplified by way of a wide range of software tools.

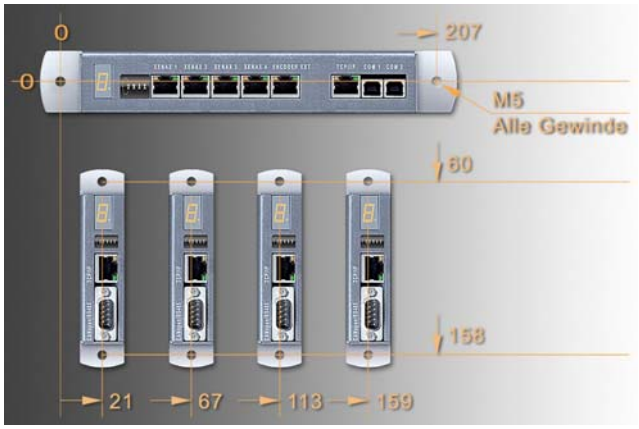


Set up of XENAX servo controllers (UNAX slaves) using Web Browser

An integrated web server, navigated with a standard internet browser as a graphic user interface, enables a simple set up of the connected XENAX® servo controllers

Technical data

Drilling template in electronic rack, all threads M5



Dimensions	190 x 140 x 35 mm
Power supply	24VDC, 300mA
Digital I/O	8/8, freely programmable
Serial interfaces	2 x RS 232
Ethernet	1 x TCP/IP protocol, for XENAX servo controller
Position loop	250µs, 500µs, 1ms

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