

Huron K2X S840D

Machine tool support kit for NX CAM and CAM Express

fact sheet

Siemens PLM Software

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► Summary

A machine tool support kit is a package consisting of post-processor, simulation driver, machine tool model, CAM templates, documentation, etc. that enables out of the box post processing and simulation for a specific machine tool using NX™ CAM or CAM Express software. This machine tool support kit is tailored for the Huron Series K2X series of machine tools.

Content of the machine tool support kit:

- Post-processor
- Machine tool driver for simulation
- 3D machine tool model
- Machine specific NX CAM template
- Machine specific NX CAM UDE's
- Example data (part, setup, operations)
- Documentation (installation, usage)
- Installation routine (only for Microsoft Windows)

Supported software version

- NX 5

Prerequisites

- NX CAM Base
- NX Post Exec – Adv Kinematics
- ISV – Adv. Simulation

These pre-requisites are for example met with the MACH 2, 3 and 4 bundles of NX.

Supported machine tool configuration (requires customization)

- Huron K2X Series

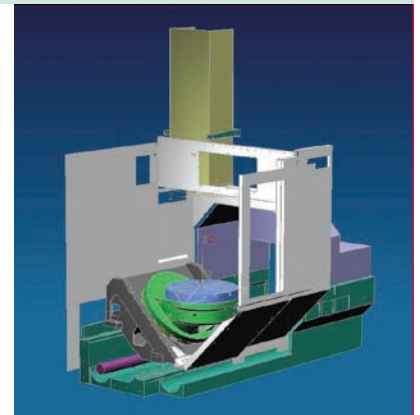
Unit

- Metric

The supported units influence: post-processor output, simulation driver, contained NX part files.

Supported capabilities

- 3 axis positioning (ZM)
- 5 axis positioning (Cycle 800)
- 5 axis full contouring (Traori)



Preparatory G-code support list

| | |
|-----|----------------------------|
| G0 | Rapid motion |
| G1 | Linear motion |
| G2 | Circular motion CLW |
| G3 | Circular motion CCLW |
| G4 | Delay in second |
| G17 | XY interpolation plane |
| G40 | Cancel cutter compensation |
| G41 | Cutter compensation left |
| G42 | Cutter compensation right |
| G43 | Length cutter compensation |
| G54 | Origin 1 |
| G55 | Origin 2 |
| G56 | Origin 3 |
| G57 | Origin 4 |
| G90 | Absolut mode |
| G91 | Incremental mode |

Preparatory G-code canned cycle support

| | |
|----------|----------------------------|
| CYCLE81 | Drilling |
| CYCLE82 | Spotdrilling |
| CYCLE83 | Peck or breakchip drilling |
| CYCLE84 | Tap cycle |
| CYCLE840 | Tap rigide cycle |
| CYCLE85 | Boring cycle |
| CYCLE86 | Boring cycle drag |
| CYCLE88 | Boring cycle manual |

Miscellaneous M-code support list

| | |
|-----|---------------------------------|
| M0 | Stop |
| M1 | Optional stop |
| M2 | end of program |
| M3 | Spindle rotation CLW |
| M4 | Spindle rotation CCLW |
| M5 | Spindle stop |
| M6 | Tool change |
| M8 | Coolant on |
| M7 | Coolant tool center |
| M9 | Coolant off and air deactivated |
| M23 | Clamp A axis |
| M24 | Unclamp A axis |
| M26 | Clamp B axis |
| M27 | Unclamp B axis |
| M81 | External air activated |
| M83 | Internal air activated |
| M89 | Mist air activated |
| M95 | Aspiration activated |

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