NCyclopedia





NCyclo Mill / NCyclo Turn Software for teaching CNC technology

CNC machining is all about motion. It is impossible to learn or teach it through text books and diagrams. As a result, teaching faculty members spend a lot of time collecting visual material and preparing presentations. These are however inadequate, and there is still a huge gap between what is taught and what is required in industry. NCyclopedia bridges this gap.

What NCyclopedia does

NCyclopedia teaches CNC milling and turning technology in a highly effective manner through hundreds of videos, animations, diagrams and explanations written in simple, easy to understand language. It covers the complete range of topics in CNC machining technology.

Machine construction Machining operations Cutting tools Tool holding Cutting parameters Work holding CNC programming concepts

I hear, and I forget I see, and I remember I do, and I understand _{Confucius}

NCyclopedia has content from real life machines, tools and machining situations from the best shop floors in industry. Videos and animations have been created exclusively for training.

Who can benefit from NCyclopedia

NCyclopedia is designed to provide foundational competence in CNC milling and turning. It can be used a self-learning system or as a powerful training tool by faculty in a classroom.

Engineering colleges, Polytechnics, Industrial Training Institutes In-house training centers of manufacturing industries Owners of CNC machining job shops CNC machine builders, to train their customers Cutting tool companies, to train their customers



NCyclo Turn

Chapters - Kaches construction / Hechanicals / Ball scre

Ball screws

A bell screw converts the ratary neetice of meters to linear webox. It is similar to a leadacrew, but has no sking control between the screw and nut. The threads in the screw and nut have a semi-cruiter cross section, and have bain rullion in them. Sence railing frictors is much lower than allocal protoco, ball screws typically have 60% mechanical efficiency as against 50 % for the usual lead occease with Acres freedom. Because of this the power expansion and the axis motor is reduced, and a smaller mater safe be used.

The threads on ball screws are ground, to improve their accuracy. The nets have a special arrangement for recreationing the balls continuously, ball screws are far more expensive than lead screws.

The screw is attached to the bed between the galdesays, and rotates in bearings at either and. The null is attached to the carriage.

Ball screw motion 🔘



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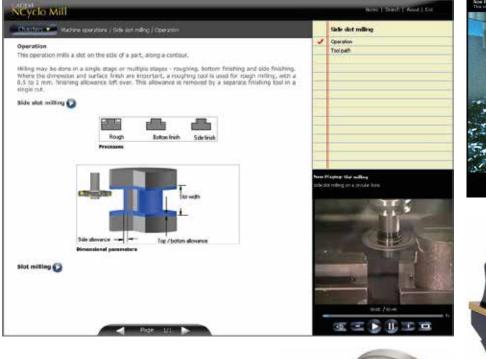
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