

Grating Ruler for Machine Tools

This grating ruler is a precision measurement device used in metal cutting machine tools. It provides accurate linear position feedback, enhancing the precision and control of machining operations.



Overview

Precision Linear Feedback

This absolute and incremental grating ruler is engineered for high-precision linear position feedback in metal cutting machine tools. It supports advanced communication protocols like BISS-c and DRIVE-CLIQ, ensuring seamless integration with modern control systems. Designed for industrial reliability, it offers high motion velocity and robust protection levels to enhance machining accuracy.

Technical Specifications

Protection Level

IP53 • IP64

Resolution

2.5 nm, 5 nm, 10 nm, 0.5 um, 1 um

Max Motion Velocity

180 m/min

Communication Protocols

BISS-c, DRIVE-CLIQ

Performance Metrics

Accuracy

10 um

Accuracy

5 um

Accuracy

3 um

Accuracy

Response Speed

Resolution	Speed (m/min)
1 um, 0.5 um	30
1 um, 0.5 um	60
5 um, 10 um	120

Environmental

Operating Temperature

0-50

Storage Temperature

-40-55