



CASE STUDY

MACHINING CENTER

APPLICATION OVERVIEW:
ReadyChain®: cable carriers
pre-harnessed with cables.
Top condition even after 9
years

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Top condition even after nine years

**Preassembled cable carrier system for precision machinery
work under harsh environmental conditions**

**Energy supply system in a high precision turning and grinding
machine**

For at least 15 years, one company has been using cable carriers systems from igus® in various forms, including open and enclosed versions. Recently, the company installed preassembled cable carriers - so-called ReadyChains® - alongside



cable carriers made from igus®, special material for electrostatic-discharge (ESD) applications.

The company recently replaced a turning-and-grinding machine after nine years and, in the general overhaul, it became apparent that the igus® cable carrier systems were still in faultless condition despite the harsh environment. The cable carrier system consisted of fully preassembled ReadyChain® Series 38 / 39 cable carriers and Chainflex® continuous-flex cables, also from igus®.



Cable carrier system with long travel

ReadyChain® for machining center

The company uses seven cable carrier systems, of which two are fully pre-assembled ReadyChains®. Six move the axles, one the control cabinet. The speed of the tool shaft is about 29.5 ft/min, the travel distance around 8.2 ft.

Components withstand all loads

The complete cable carrier system operates under very high mechanical stress. During an uninterrupted, three-shift operation, seven days a week, an extremely high number of cycles is achieved. A great advantage of the igus® cable carriers is that they are made from rugged plastic which withstands the most extreme adverse conditions. Even when the cable carrier system is not directly exposed to harsh media, the humidity means it can nevertheless come into contact with chemicals.



After nine years in the electroplating industry under adverse environmental conditions, the cable carriers and Chainflex® cables are in top condition.

More product information

[E4/0 type, Series 38](#)

[E4/0 type, Series 39](#)

[Overview of Chainflex® cables](#)

[Overview of ReadyChain®](#)

More application examples from different industries

[Energy Chain® cable carrier application examples](#)