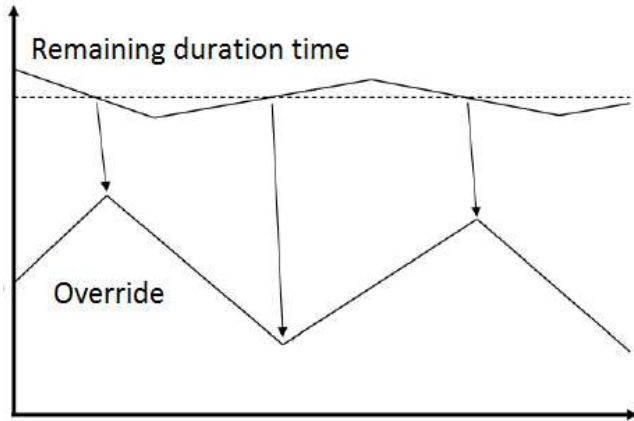


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Feed Functions



Smart Adaptive Control

Features

The Function Smart Adaptive Control optimizes the feed rate during machining depending on the load and the temperature of the spindle. The spindle motor power can be exploited optimally that way, especially at roughing operations. The feed rate is optimized by three different types of control:

Constant spindle load control:

The feed rate increases if the spindle load (as detected by the spindle load meter) is below a specified threshold and vice versa. This reduces cycle time on the one hand and prevents tool damage on the other hand.

Overheat avoidance control (type A):

The feed rate decreases if the spindle temperature is going to exceed its maximum temperature. Overheat alarms are avoided, leading to less down time.

Overheat avoidance control (type B) (Constant duration time control):

The feed rate decreases if the remaining duration time of the spindle is shorter than a specified threshold and vice versa. The available spindle motor power is utilized effectively while keeping a small performance buffer at the same time.

Benefits

- Reduce cycle time
- Prevent damage to machine and tools
- Minimize downtime

Ordering Information

Specification	Description
A02B-0323-R361	30i-B Smart Spindle-Load Control
A02B-0326-R361	31i-B5 Smart Spindle-Load Control
A02B-0327-R361	31i-B Smart Spindle-Load Control
A02B-0328-R361	32i-B Smart Spindle-Load Control
A02B-0333-R361	35i-B Smart Spindle-Load Control
A02B-0340-R361	0i-MF Smart Spindle-Load Control
A02B-0350-R361	0i-MFP Smart Spindle-Load Control
A02B-0353-R361	Smart Spindle-Load Control
A02B-0356-R361	Smart Spindle-Load Control
A02B-0357-R361	Smart Spindle-Load Control
A02B-0358-R361	Smart Spindle-Load Control

Notice

Certain functions may require additional hardware, different CPU type or additional memory capacity or may cause compatibility issue with other functions. In case of doubt, contact your FANUC sales representative for additional information and support.

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