

Notes on the electrical connection of the machine

CNC Lathes

Note on applicability

Illustrations in this publication may deviate from the product supplied. Errors and omissions due to technical progress expected.

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On-site connection of the machines

For the on-site connection of the machines, the relevant specifications for the (electrical) power supply can be taken from both the order and the cover sheet of the electrical documentation.

The specifications are based on the calculated design of the maximum connected load of the respective machine.



CAUTION!!!

It is essential to ensure that the fuse selected by the customer does not exceed the "maximum fuse" rating specified by INDEX-Werke GmbH & Co. KG; otherwise, no sufficient protection against short circuit and overload can be ensured.

Due to the cable length, a larger cross-section may be required for the supply cable than is sufficient for the rated current.

For proper functioning of the safety elements belonging to the machine, the energy source (transformer station) must be able to provide a sufficiently large current in the event of a short circuit.

For this purpose, observe the specification "**Tripping current – I₂**" on the nameplate or on the cover sheet of the electrical documentation.

The selection of the fuse selected on site and the associated connection cable is the responsibility of the operator.



A specification or recommendation on the part of INDEX-Werke GmbH & Co. KG is **not** possible, as this depends on the prevailing environmental conditions on site.

The following factors, among others, play a role in the selection of the connecting cables:

- **Distance to the fuse**
- **Type of installation (in cable duct, routed openly, commonly, ...)**
- **Wire type (single wires, cables)**
- **Jacket material insulation material**
- **Ambient temperature**



The latest version of **EN 60204** provides information on the correct dimensioning of the connecting cable.

The machine is designed for a 5-wire mains system (TN-S) as standard.



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