High Frequency Converter SFU 0100

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High Frequency-Spindle for manual use Type 33 A1

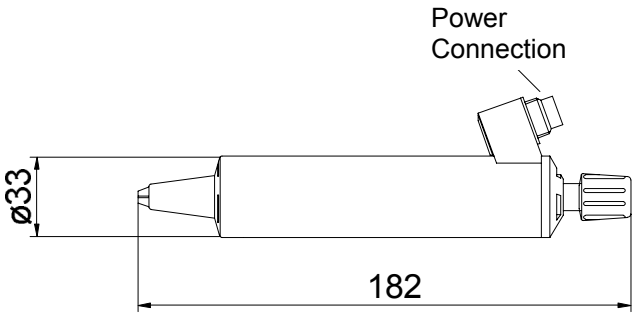
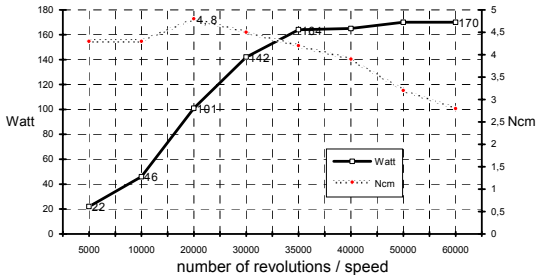


Diagram of Power and Torque



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Three operating modes are possible

1. manually (no plug inserted in the ¼" Jack on the backpanel)
   the number of revolutions per minute of the spindle can be adjusted with the control-knob on the frontpanel. Pulling the knob starts the spindle, it will accelerate to the speed adjusted, and pushing back the knob will stop the spindle.
2. manually and remote start-stop: (a plug is inserted in the ¼" Jack on the backpanel)
   the number of revolutions per minute of the spindle is adjusted with the control-knob on the frontpanel and the start-stop signal is generated with a galvanically isolated contact connected to the ¼" Plug. (contact closed: STOP, contact open: START
3. analogue remote controlled operation (available as option, instead of 2.)
   a dc-voltage between at least 2.6V and max.12V will cover the range of minimum (5.500 rpm) and maximum (50.000 rpm) speed of the spindle. 0V makes the spindle stop. voltages beyond this range, exept 0V, must not be applied.

Recommended High Frequency Spindle for manual use (Type 33 A 1)

The housing is made of anodized aluminum with integrated air cooling. The ball bearings are free of maintanance with grease filling for full lifetime. This spindle is delivered with a chuck either of 3mm or 2,35mm diameter.

Technical Data: **Frequency Converter**

Mains Connection:	220 V AC 50/60 Hz
Fuse:	M 2,0 A / 250 V
Power Output:	160 V A
Power Consumption:	300 V A for short time
Output:	3-phase with electronic current limitation
Output Voltage Range:	4 ... 32 V
Current/Phase:	I max. 6,5 A
Frequency Range:	83...834 Hz (5.000...50.000 rpm)
Weight:	about. 3,4 Kg
Dimensions:	80 x 210 x 270mm (W x H x D)

Spindle

Housing:	Aluminium
Frequency Range:	50.000 rpm
Power Deliverance:	170 W over 35000 rpm
Current:	6 A
Range of Clamp Diameter:	1 - 3,5 mm
Chuck Operation:	with the control-knob on the top
Weight:	about. 0,4 kg