

Date:	23.03.2006	Speed testing machine for flap discs and mounted flap wheels	HELMUT WEISS GMBH - Automatisierungstechnik - Leitenacker 3 / D-95326 Kulmbach Tel.: (+49) 9221-92090 Fax: (+49) 9221-920922
Written by:	S. Eichhorn		

Speed testing machine for flap discs and mounted flap wheels

Description
and
scope of delivery

Date: 23.03.2006	Speed testing machine for flap discs and mounted flap wheels	HELMUT WEISS GMBH
Written by: S. Eichhorn		- Automatisierungstechnik - Leitenacker 3 / D-95326 Kulmbach Tel.: (+49) 9221-92090 Fax: (+49) 9221-920922

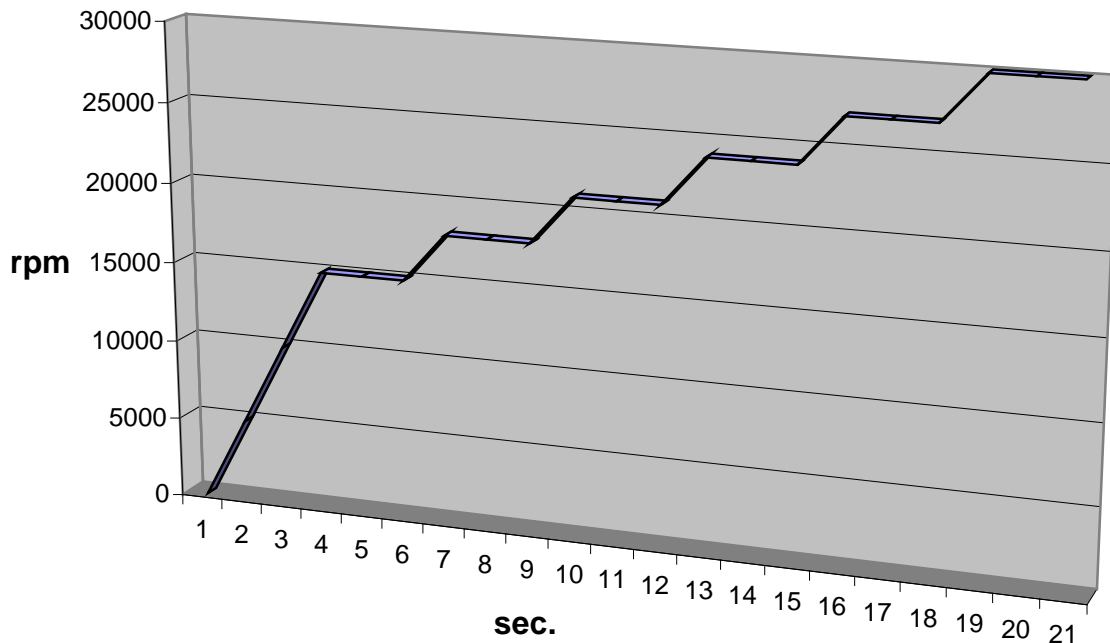
1 Function of the machine

This equipment designed for speed testing of abrasive flap discs of a maximum diameter of 7" (180 mm) optional for mounted flap wheels with a shaft diameter of 3, 6, or 8 mm.

The grinding tools have to be fixed to the spindle of the machine using the appropriate holding adaptors. The control panel of the machine allows the programming of different testing sequences with various speed steps and holding times for these steps (see picture below). Up to 20 different sequences for different products, each with up to 10 speed steps can be stored in the memory of the PLC. This allows a quick testing of different products only by choosing the appropriate testing program.

In case the tool can not withstand the rotation speed and the disc breaks, the flaps will be detected by an optical sensor and the spindle will stop immediately. The maximum speed, reached during that test will be displayed on the screen of the operator panel. There is an option available which allows to make a printout of each test result.

possible testing sequence (example)



Date: 23.03.2006	Speed testing machine for flap discs and mounted flap wheels	HELMUT WEISS GMBH - Automatisierungstechnik - Leitenacker 3 / D-95326 Kulmbach Tel.: (+49) 9221-92090 Fax: (+49) 9221-920922
Written by: S. Eichhorn		

2 Equipment and scope of delivery of Speed Testing Machine DTM0001

All details in this chapter are included in the basic machine DTM0001

2.1 General

- Machine frame of steel with steel table plate
- Spindle driven by an AC-Motor using a belt drive
- High quality spindle with hybrid bearings
- Safety protection case with safety door
- Siemens S7 PLC with Operator Panel OP3
- Free programmable testing sequence (max. 10 speed steps)
- Memory for up to 20 different testing programs
- Optical tachometer directly at the spindle
- Optical burst sensor
- 1 spindle adaptor for discs with inside diameter 16 mm
- 1 spindle adaptor for discs with inside diameter 22,3 mm

2.2 Others

- 1 Operator manual; 1 Parts list with pictures; 1 wiring diagram in English or German language

2.3 Technical specifications:

Possible tools for testing:	\varnothing 100 – 180 mm
flap discs:	inside diameter: 16,0 and 22,3 mm outside diameter: \varnothing 100 to \varnothing 180 mm
mounted flap wheels (optional):	shaft size: \varnothing 3, \varnothing 6 and \varnothing 8 mm others on request
Maximum testing speed:	30.000 rpm
Dimensions:	Length: 900 mm Width: 800 mm Height: 1100 mm
Weight:	ca. 340 kg
Electrical supply: (others are possible)	400 V / 3 Phase 16 A 50 / 60 Hz

Date:	23.03.2006	Speed testing machine for flap discs and mounted flap wheels	HELMUT WEISS GMBH - Automatisierungstechnik - Leitenacker 3 / D-95326 Kulmbach Tel.: (+49) 9221-92090 Fax: (+49) 9221-920922
Written by:	S. Eichhorn		

3 Options

DTM0002 Adaptation of a printer for test result protocols

This option contains a module which allows the connection of a printer directly to the machine control. The test result will be directly printed on a printer when the test is finished.

The following information will be shown on the printout:

- consecutive number of the protocol
- date and time of the test
- number of testing program
- programmed maximum speed
- breaking speed
- free area for the signature of the inspector

DTM0003 Draw-in collet chuck to hold the collet for the testing of mounted flap wheels

This equipment is needed in order to hold the bellow described draw-in collets.

DTM0004 Draw-in collet for testing of mounted flap wheels with 3 mm shaft diameter

DTM0005 Draw-in collet for testing of mounted flap wheels with 6 mm shaft diameter

4 Warranty

The warranty for the machine is 12 month, if not arranged different in an additional contract. For purchased parts, we can only pass on the warranty given by the supplier. The warranty starts with the day of delivery.

Not covered by the warranty are:

- wearing parts such as seals, conveyor belts etc.
- damage caused by wrong handling of the machine.
- damage caused by lack of maintenance or structural alterations on the machine.
- damage caused by improper implemented adjustments
- damage caused by local power supply problems
- damage caused by natural forces such as fire, lightning, earthquake, floods etc.

Date:	23.03.2006	Speed testing machine for flap discs and mounted flap wheels	HELMUT WEISS GMBH - Automatisierungstechnik - Leitenacker 3 / D-95326 Kulmbach Tel.: (+49) 9221-92090 Fax: (+49) 9221-920922
Written by:	S. Eichhorn		

5 Picture

Operator Panel

safety protection case



Printer (Option DTM0002)