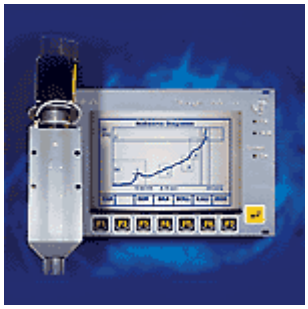
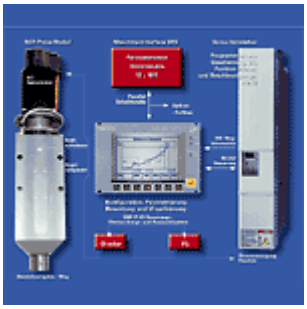
**NCF PRESS-FIT SYSTEM BY DR. STAIGER MOHILO**

NC jointing unit for press-fit operations with force-displacement monitoring and control system as well as integrated sensory analysis NCF-press-r



NCF with DMF-P V3
(click on picture)



NCF Press-Fit System Outline
(click on picture)

Practical extension for NCF-press module
(click on picture)

## GENERAL DESCRIPTIONS

Dr. Staiger's press-fit system NCF is excellent for the use in automatic production plants and for manual manufacturing. The modular construction allows upgrading of existing systems too.
The NCF press-module is installed in an aluminium housing where the displacement sensor as absolute position encoder and the strain gage forc
Signal conditioning of the sensors is performed by the system Dr. Staiger Mohilo DMF-P V3.
The ball screw spindle is supported by the housing by means of the force measuring ring, so that a direct force measurement is guaranteed. The spindle is limited to the upper and lower edge by signal transmitters (spindle protection).
The drive motor is an AC servo motor which is supplied by a servo amplifier. Constant speed, i.e. a constant process rate is ensured.
The NCF press-fit module may be installed both vertically and horizontally.
A feather key and 4 cylinder head screws with hexagon socket M 10 DIN 912 are provided so that the jointing unit can be fixed to a machine rack
The tappet of the spindle has a tool holder hole according to DIN 810. All the moved parts have lifetime lubrication.

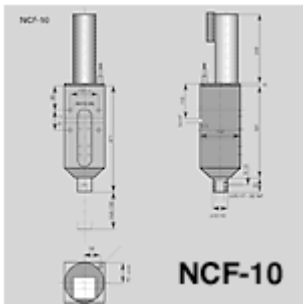
## COMBINATION WITH DMF-P V3

Control of the jointing and of the NCF press module is performed by the DMF-P V3.
This system can be used for effecting all para-meters for control of the power section as well as parameter assignment, visualization, evaluation a jointing connection.
The DMF-P V3 is an extremely efficient and compact instrument which displays the force-displacement measurement graphically and evaluates c of a process by means of programmable tolerance windows. Refer to separate data sheet.

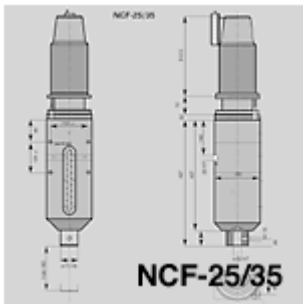
## THE MOST SIGNIFICANT ADVANTAGES

- Very user-friendly
- 4 menu languages available
- Easy installation
- No PC required
- LCD display, diagnostic functions
- Integrated documentation, memory, statistic
- Simple adjustment to partial alterations, up to 32 setpoint records
- Serial data transmission: measured values and curve
- Parallel control of PLC or by Profibus
- 3 housing variants: built-in-, wall mounted-, and table housings
- Up- and download of setpoint data is possible with a PC
- Input of jointing parameters for control of the servo amplifier:
  -positions
  -stop periods
  -rapid motion
  -jointing rate
  -max-force
  -safety functions

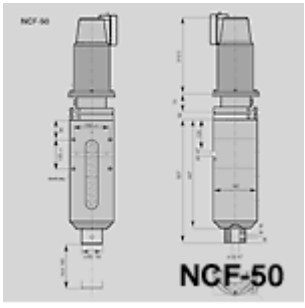
**TECHNICAL DRAWINGS**




NCF-10 (click on picture)




NCF-25/35 (click on picture)




NCF-50 (click on picture)

## AVAILABLE IN FOLLOWING VERSIONS

| Model | press force KN | max. stroke | max. speed | weight Kg |
|---|---|---|---|---|
| **NCF 10-130** | 10 | 130 | 100 mm/s | 30 |
| **NCF 25-130** | 25 | 130 | 100 mm/s | 65 |
| **NCF 35-130** | 35 | 130 | 100 mm/s | 70 |
| **NCF 25-180** | 25 | 180 | 100 mm/s | 65 |
| **NCF 35-180** | 35 | 180 | 100 mm/s | 70 |
| **NCF 50-180** | 50 | 180 | 80 mm/s | 80 |

## SPECIFICATION DATA

| GENERAL | |
|---|---|
| Mains supply | 400 VAC/3 phases 50/60 Hz |
| Operating temperature range | +10° to + 50° C |
| Measuring accuracy of force sensor | < 0.5% f.s. |
| Displacement repeatability | 0.01 mm |
| Displacement resolution depending on spindle stroke | from 0.25 µm to 1 µm |
| Protective system | IP 54 |
| **COMPLETE SYSTEM CONSISTING OF** | |
| NCF 10-130 | Art.No: 19052 |
| NCF 25-130 | Art.No: 19053 |
| NCF 35-130 | Art.No: 19054 |
| NCF 25-180 | Art.No: 19055 |
| NCF 35-180 | Art.No: 19058 |
| NCF 50-180 | Art.No: 19059 |
| DMF-P V3 control panel built in unit | Art.No: 8002 |
| DMF-P V3 wall mounted housing | Art.No: 8003 |
| DMF-P V3 table housing | Art.No: 8004 |

GUEMISA gm

Sta. Virgilia 29 Local.1A 28033 Madrid
Tfno.: 91 764 21 00 Fax.: 91 764 21 32
www.guemisa.com Email.:info@guemisa.com