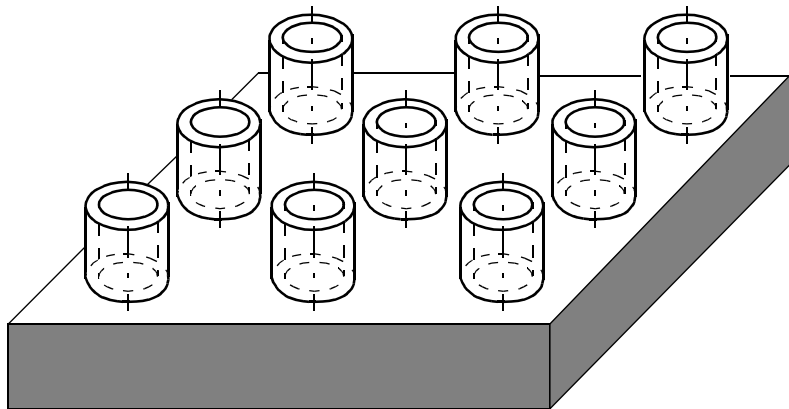


# UMESS

## Option 18 Pallet CNC



## Operating Instructions



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# Preface

This manual describes the function, operation and application possibilities of the measuring program **UMESS Opt. 18**.

It is here assumed that the user is familiar with the coordinate measuring machine and the **UMESS** basic software. Please keep all printed materials delivered with the measuring machine ready to hand at all times.

All rights pertaining to changes in the measuring machine version, scope of delivery, the software packages and the pertaining documentation reserved.

## Principles in this operating manual

Before starting to work with this manual, the user has to familiarize himself with the applied principles.

In the following, you will find information on the used font types, signs and symbols.

### Typographic principles

The font types and font schemes used in this manual have the following meaning:

- **bold face**
  - Dialog element on the screen  
Example: „... the button **<TERMIN>**”
  - Term  
Example: "During calculation the location of a **measuring element** in relation to a **reference element** is determined."
  - File and directory names  
Example: **/home/zeiss/UB**
- *italic*
  - Highlighted text of which the content is very important  
Example: "Click with the *right* mouse button ....."
  - Cross reference  
Example: "....., see also ► "*signs and symbols*" on page -4"

- **Courier bold face**  
Text in dialog windows and protocols

## signs and symbols

Special signs and symbols are used in this manual.

### Symbols for warnings and information



#### **Danger!**

In this case, special care is called for. The warning triangle indicates risk of injury. Non-observance of this warning may cause personal injury.



#### **Attention!**

This symbol warns against situations which may lead to loss of data, measuring errors, errors in the measuring run, collisions or damage to the machine and workpiece.



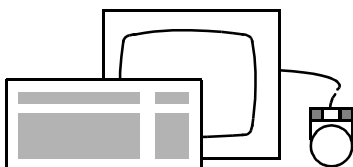
The **Note** symbol is shown next to important text and helpful additional information.

### Symbol for function call

There are several possibilities:

- Direct input by means of the DI number
- Function selection by means of the pull-down menu
- Selection by means of icons

Example:



<DI 1649>



### Symbol for softkey

Reference to softkeys in dialogs.

## Overview of chapters

This manual describes the function, operation and application possibilities of the measuring program UMESS Opt.18.

The following subjects are described:

- *"General" on page 1-1*
- *"User interface of the Pallet CNC program" on page 2-1*
- *"Simplest operation of the Pallet CNC program" on page 3-1*

## Direct input functions

DI no.	Input abbrev.	Function	Page
1649		Pallet CNC	



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# Chapter



## General

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The **Pallet CNC** program is used for:

- feed systems
- for multiple fixtures (pallets)
- for access to measuring functions and CNC runs to be individually configured
- for access to measuring functions and CNC runs to be limited

The **Pallet CNC** program is an extension of the one button operating mode, see "Automatic Mode AUTO RUN" operating instructions.

The **Pallet CNC** software must be installed and activated separately.

You can adapt the user interface to on-site conditions:

- Preselection of workpieces
- A pos.
- Record header data etc.

The user interface of the **Pallet CNC** program can be operated in full using the mouse.

With this one central user interface of the **Pallet CNC** program:

- workpieces, manufacturing groups, A-positions and features can be selected
- record header inputs made
- measuring functions defined
- part runs defined

Once a run has been started, the next runs can be defined and started.

You can always recognize the current status of the CNC runs.

The priority of runs can be changed.

# Chapter

# 2

## User interface of the Pallet CNC program

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### **This chapter contains:**

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## Structure of the user interface

The user interface consists of five areas

- Menu bar for pulldown menus
- Static general information
- Variable
- Control elements (STOP etc.) station-dependent information
- Status information

File Edit Printer Process				Help
Operator: <input type="text"/> Shift: <input type="text"/> CMM No. <input type="text"/> Transfer Line: <input type="text"/>				
Station	1	2	3	4
Status	Termin GOOD	Termin BAD	Measure	Waiting 1
Workpiece	5.4 L 2V Head	5.4 L 2V Head	4.6L 2V Head	4.6L 2V Head
Manufacturing gr	All	10	Surface	Cylinder
Features	All		Standard	All
Part No:	TFG1881	TFG1882	JG114	JG115
Data -> SAM	YES	NO	YES	YES
Output	All	Only nominals	Only nominals	Only nominals
Part runs	Run 1	Run 5		
<input type="text"/>	Modify	<input type="text"/>	STATUS messages	
<input type="text"/>	<input type="text"/>	<input type="text"/>	DNC pallets	DNC status
Store	<input type="text"/>	<input type="text"/>	1 <input type="checkbox"/>	SPS automatic
Start	<input type="text"/>	<input type="text"/>	2 <input type="checkbox"/>	
			3 <input type="checkbox"/>	
			4 <input type="checkbox"/>	
			5 <input type="checkbox"/>	

## Operation

The user interface of the **Pallet CNC** program can be operated in full using the mouse:

- You can make inputs in the fields using either the keyboard or the mouse.
- The selection function (list) becomes active by double clicking an input field.
- With normal input fields, a keyboard is displayed on the screen which can be operated with the mouse.
- When selecting from a list, e.g. of workpieces, the current workpiece catalog is displayed.
- With selection fields, the selection is displayed, e.g. alternative inputs **<YES>** or **<NO>**
- The function is executed by clicking with the mouse or **<Return>** after selecting using the cursor.
- With interactive processing of a pallet, the applicable pallet number is highlighted yellow.
- When you newly define a job, you need only enter a new workpiece name.

## Description of the menu bar

**FILE**

**START**

Start of a CNC run. The run is placed in the CNC queue and receives the status **WAITING**

**END AUTO-CNC**

End of **Pallet CNC** program, can be secured by password outside the prototype mode.

**EDIT**

**MODIFY**

Modification of the station selected. The station currently undertaking a measurement cannot be modified. Stations in the **WAITING** status can be changed by pressing the **<Modify>** button.

**PROCESS CONTROL**

refers to the run selected

**HIGH PRIORITY**

**LOW PRIORITY**

**HELP**

Possible help files

## Static general information

Input fields from the layout definition. These fields contain general data which is not workpiece-specific.

The Operator and Password fields have a special function and manage the access to the **Pallet CNC** program and to the layout definitions (not in the prototype mode).

Input either using the keyboard or after double clicking with the mouse, using the keyboard displayed.

## Variable station-dependent information

Input fields for the run-specific data

The fields Workpiece name, Manufacturing group and Select have a special function if clicked twice. They can then be selected via the respective catalog functions.

### Display fields

**Pallet** Pallet or fixture number, with interactive processing this is highlighted yellow

**Status** Status of the individual runs:

**FREE**

**MEASURING**

**WAITING**

to be measured

**TERMIN GOOD**

Measurement results ok

**TERMIN BAD**

Measurement results not ok

**FAULT**

Problem with the CNC run or the automation of a station

### Control information

If you double click the **Workpiece** field, you reach the applicable workpiece catalog.

After selecting the workpiece, the groups can be defined via **Select**.

Call of FOCUS selection is then only necessary with individual selection of features.

**Select** Feature selection using the FOCUS user interface, groups or individual selection

### Record header

Input of the record header data

### Program instruction

Refers to the PCM parameters which have been defined in the CNC run. These can either be selected (alternative fields) or entered.



## Control elements

### MODIFY

Modification of a CNC run. Modification of runs which are still in the queue or are already finished.

Can also be activated implicitly by clicking the corresponding field or the pallet number.

The run currently to be measured cannot be modified.

Runs in the **WAITING** status can be modified if the **<Modify>** button is pressed after selection.

### STORE/START

Start of a CNC run. The run is placed in the CNC queue and receives the status **WAITING**

## Status displays

Display of the stations

blue means the station is occupied

red means a fault in the station

Displays for the programmable control (SPS), information on the SPS, fixture etc.

## User notes

User notes, warnings and error messages in additional screen windows



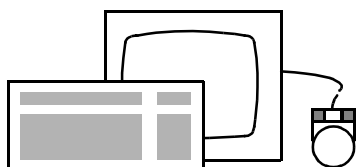
# Chapter

# 3

## Simplest operation of the Pallet CNC program

The few, absolutely necessary operating steps (1 to 4) of the simplest operation are set forth below:

### Function call



<DI 1649>

### Then the stations can be occupied

#### Procedure

- Click the station number, station number becomes yellow = > station selected
- Then select a workpiece, either by entering the name or after double click in the workpiece field and selection from the workpiece catalog.
- Then the workpiece can be started by way of the <START> function button.

### Modification of a CNC run

- The CNC run which is current and is being measured cannot be modified.
- You can modify CNC runs in the **WAITING** status if you press the <Modify> button after selecting the workpiece.



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