Installation manual

ToPs Programming Systems

Version 3.1

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Edition: **06/2004**

Ordering information

Before you read on...

This manual describes the installation of the ToPs programming systems ToPs 100, ToPs 100 lite, ToPs 300, ToPs 400, ToPs 600, ToPs 800, ToPs 2000 and ToPs CAD.

Prior to the installation   ToPs programming systems place certain demands on your hardware and software.
It is therefore essential you read the "Prerequisites" section prior to installation.

Valid versions   This installation manual applies to ToPs programming systems of the following versions or higher:

- ToPs 100 lite   Version 5.30
- ToPs 300   Version 4.10
- ToPs 400   Version 4.30
- ToPs 600   Version 3.00
- ToPs 800   Version 2.21
- ToPs 2000   Version 4.10
- ToPs CAD   Version 2.00

Table of contents

TRUMPF

1.   Overview

The latest versions of ToPs programming systems can be installed and operated both as a single-workstation solution or within a network – as "client/server system".

This section provides you with an overview of the different types of operation and installation.

1.1   ToPs as a single workstation

Description   ToPs as a single workstation refers to the operation of a ToPs programming system at a single computer. All data is saved and administered locally on this computer.

Licensing   The licensing process is carried out locally at the computer via a hardware dongle. One dongle is required for each computer if several ToPs programming systems are used.

Types of installation   There are two ways of installing ToPs as a single workstation:

- **Initial installation**
  A new ToPs version is installed on an existing ToPs programming system. No data from previous versions is adopted.

- **Update**
  A new ToPs version is installed on an existing ToPs programming system. The data of the previous version is adopted in the process.

1.2   ToPs as client/server system (optional)

Description   ToPs as a client/server system refers to the operation of several ToPs programming systems at several computers (clients) which have access to a joint database and save and administer their data centrally at a specific location (server).

Licensing   The licensing process is carried out centrally via a hardware dongle, which is plugged into the dongle server and installed.
The individual ToPs clients now only require the license information. The licenses are administered by the dongle server, which is automatically installed during the installation of the ToPs server.

Components	The client/server system consists of four components:

- **ToPs server**
  The server environment with the network database.
- **Dongle server**
  The network dongle with the license administration.
- **File server**
  Common storage.
- **ToPs Client**
  The ToPs programming system.

The individual components can be installed and operated in various combinations. For more information, refer to the section "Installing ToPs as a client/server system" on page 33.

The following diagram shows one configuration option:

ToPs Server
Dongle Server
File Server
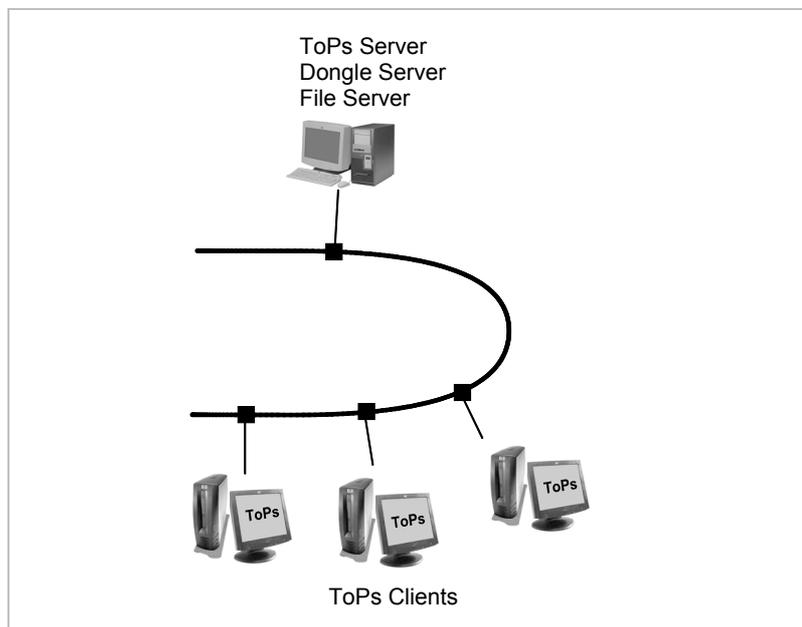
ToPs Clients

Example of a client/server system   Fig. 37548

Types of installation	There are three ways of installing ToPs as a client/server system:

- **Initial installation**
  The client/server system is installed completely for the first time.
- **Update**
  You already have a client/server system and want to install a new version.
- **Extension**
  You have a ToPs single workstation solution and want to turn it into a client/server system.

The procedure for the individual types of installation is described in the section, "Installing ToPs as a client/server system" starting on page 33.

TRUMPF

2. Prerequisites

2.1 General information

ToPs versions
This installation manual applies to ToPs programming systems of the following versions or higher:

- ToPs 100 lite   Version 5.30
- ToPs 300   Version 4.10
- ToPs 400   Version 4.30
- ToPs 600   Version 3.00
- ToPs 800   Version 2.21
- ToPs 2000   Version 4.10
- ToPs CAD   Version 2.00

Note
Read the corresponding manuals in order to install older or other ToPs programming systems.

Knowledge
Basic knowledge on the operating system used is required in order to install a ToPs programming system.

Data backup
Back up all important data prior to installation.

Helpful hint
You can use e.g. the "Microsoft Backup" program for the backup procedure. You can find detailed information in the documentation of your operating system.

Note
If you have already installed one (or more) ToPs system(s), you can store these during the installation with the additional program "ToPsCopy" (refer to Section 3.1, p. 12).

2.2 Hardware and operating system

ToPs client and single workstation

	Required	Recommended
Processor	1 GHz ToPs 600 / 8002 GHz	2 GHz ToPs 600/800: 2 GHz
Random access memory	256 MB RAM ToPs 600/800: 512 MB	512 MB RAM ToPs 600/800: 1 GB
Hard drive	300 MB available memory	1 GB available memory
Drives	• CD-ROM • 3.5" disk	
Graphics card	16 MB OpenGL ToPs 600/800: 128 MB	64 MB OpenGL ToPs 600/800: 128 MB
Operating system	• Windows 2000, SP 2 • Windows XP Prof. • Windows 2000 Server • Windows 2003 Server	
User rights	Administrator rights	

Hardware requirements   Tab. 1

ToPs server

	Required	Recommendation
Processor	1 GHz	2 GHz
Random access memory	256 MB RAM	512 MB RAM
Hard drive	1 GB available memory	2 GB available memory
Drives	• CD-ROM • 3.5" disk	
Graphics card	3D, 4 MB RAM	3D, 16 MB RAM
Operating system	• Windows 2000, SP 2 • Windows XP Prof. • Windows 2000 Server • Windows 2003 Server	
User rights	Administrator rights	

Hardware requirements   Tab. 2

Systems which are not supported   ToPs cannot be installed on the following systems:

- Windows NT or older.
- Windows XP Home Edition.
- Domain controllers.
- Terminal servers.

TRUMPF

3. System components

A number of auxiliary programs are required in order to use ToPs. It is checked whether these programs have already been installed during the installation. If not, they are installed via their own installation routines.

You can follow the checking and installation procedures on the screen.

Installation   The system components required depend on the respective ToPs system. The components required in each case are displayed on the screen.

Automatic restart   After installing the individual system components, it is necessary to restart the computer. This occurs automatically and it is not possible to alter this.

All non-saved data in open programs is then lost. For this reason, you should save your data and before installation and close all open programs. When installing on a server, take all appropriate precautions.

For further reference   You can find details on the programs GeoViewer, CAD-Converter, NC-Link and WZG-Export in the software manual of your ToPs system.

3.1 ToPs in general

ToPsCopy

With ToPsCopy, you can back up the ToPs systems you have already installed at the start of the installation procedure.

The entire ToPs directory is copied and then renamed in '<drive>:\TRUMPF\ToPsX_Vy' (e. g. 'ToPs100w_V5.00') and a corresponding icon is added to the TRUMPF program bar.

Executing ToPsCopy   1. Confirm the back up request of ToPsCopy using *Yes*.

The computer searches for installed ToPs systems.

2. Choose the ToPs system to be backed up from the list and confirm using *OK*.

The ToPs system is backed up and you are then asked again whether you want to back up your ToPs systems.

3. Select *Yes*, if you want to back up another ToPs system or *No* to continue installation.

Note
ToPs systems backed up with ToPsCopy can **not** be installed as Update.

TRUMPF

Adobe Reader

Software used to display and print files in "PDF format". Some ToPs information files are stored in this format.

Installation ➢ Confirm all messages and questions during the installation with *OK* or *Continue*.

Niknak

Program used to generate PDF files.

Installation ➢ You can only see the Niknak logo during the installation procedure. An appropriate message appears on the screen after the installation procedure.

ODBC driver

The data from ToPs (single workstation) are stored in a database. The "ODBC driver" is required to access this database.

Installation ➢ The entire installation procedure is executed in the background. An appropriate message appears on the screen at the end of the installation.

The computer is restarted and the installation procedure then automatically resumed.

Note
It may happen that the current driver is overwritten by an older version if other software is installed. In this case, install the ODBC driver again under the "User" setup type.

TRUMPF

Dongle driver

A special driver for the password dongle.

Installation
1. Select the desired language and then click *OK*.

2. Confirm all questions and messages with *OK* or *Next* during installation.

At the end of the installation an appropriate message appears and the computer is restarted. The ToPs installation procedure is then automatically resumed.

GeoViewer

Program used to display geometric files.

Installation
➢ Select the target drive.
   The installation procedure is started.

An appropriate message appears on the screen at the end of the installation.

CAD-Converter

Program used to convert various CAD formats.

Installation
1. Selecting the target drive.
   The installation procedure is started. An appropriate message appears on the screen at the end of the installation. In addition, a read-me file is displayed in PDF format.

2. Close the read-me file.

3. The installation is complete.

If the installation will not continue
It could be that a mask was opened in the background for confirmation of the license information if Acrobat Reader was installed for the first time.
➢ Find the open mask with <Alt>+<Tab> and confirm the message.

NC-Link

Merges the NC programs to form one production plan.

Prerequisite

- Microsoft Internet Explorer version 5.0 or higher is installed.

Installation ➢ Confirm all questions and messages.

The installation procedure is started.

An appropriate message appears on the screen at the end of the installation.

WZG-Export

If you use SolidDesigner, you can provide it with some tool data with this auxiliary program under ToPs 300 and ToPs 600.

Installation ➢ Select the target drive.

The installation procedure is started.

An appropriate message appears on the screen at the end of the installation.

3.2 ToPs server

MSSQL server tools

The MS SQL server tools are specific applications for SQL operation.

Installation ➢ Confirm all messages with "Next" or "Finish" during the installation.

The computer is restarted after the installation.

MS SQL (MSDE)

The **M**icrosoft **S**QL Server **D**esktop **E**ngine is a database module based and structured on SQL server technology. It is used to administer the ToPs database.

Installation The installation procedure is fully automatic.
The computer is restarted after the installation.

MS SQL-DB

The MS SQL-DB component creates a new ToPs database or adopts data from the existing Access ToPs database, if necessary.

Installation The installation procedure depends on whether you want to adopt the data from an existing ToPs database or not.

Adopting no data 1. Wait for the following message:

Adopting data   Fig. 37549

2. Press *No*.

   The drive is then selected. You can determine here on which drive the database is to be installed at the server computer.
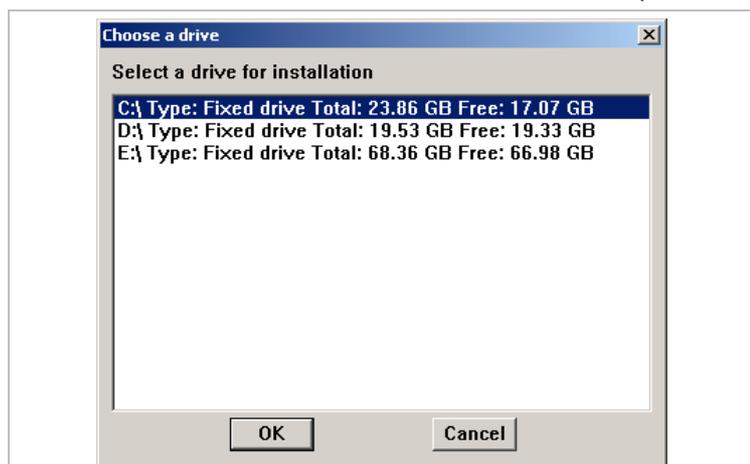
Select the drive   Fig. 37550

Note
The drive selection mask only appears when the component is installed for the first time.

3. Select a drive and press *OK*.

4. The machine data is then queried.
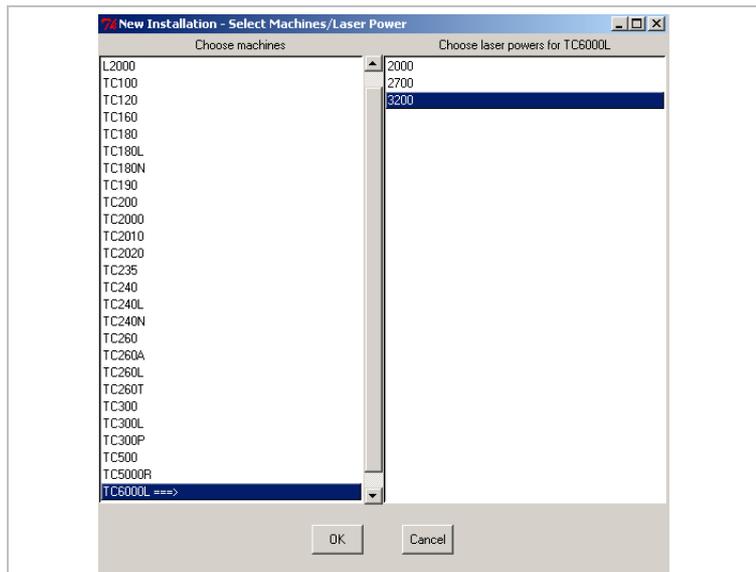
Selecting machine data   Fig. 37551

5. Selecting machine data.

   – Select the machine and, if necessary, the corresponding laser power.

   – To reverse a selection, click on the machine/laser again.

   – Multiple selections are possible.

   Note
   At least one laser power must be marked for combi and laser flatbed machines. The *OK* button is otherwise gray.

6. Press *OK*.

   The database is created.

   If no "TOPS" user group has yet been set up, it is now created automatically. The following message then appears:
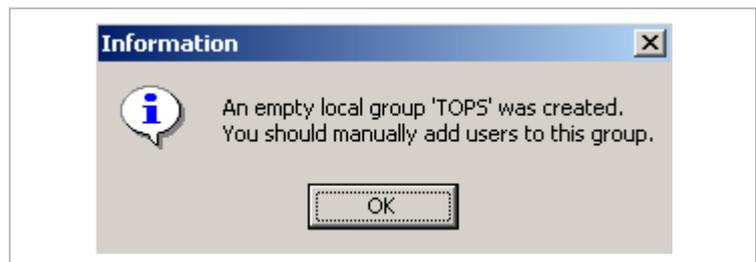
                                           Fig. 37552

7. Press *OK*.

The installation of the component is now complete.

Adopting data

Prerequisite

- The database containing the data to be adopted can be accessed (see Section 5, p. 33).

1. Wait for the following message:
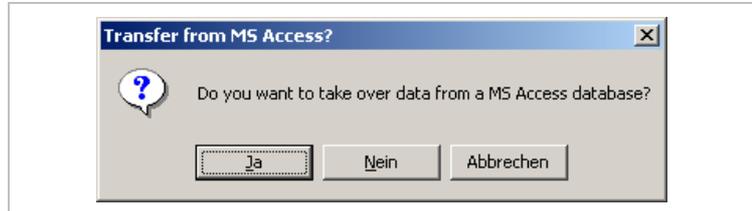
Adopting data   Fig. 37549

2. Press *Yes*.

   The drive is then selected. You can determine here on which drive the database is to be installed at the server computer.
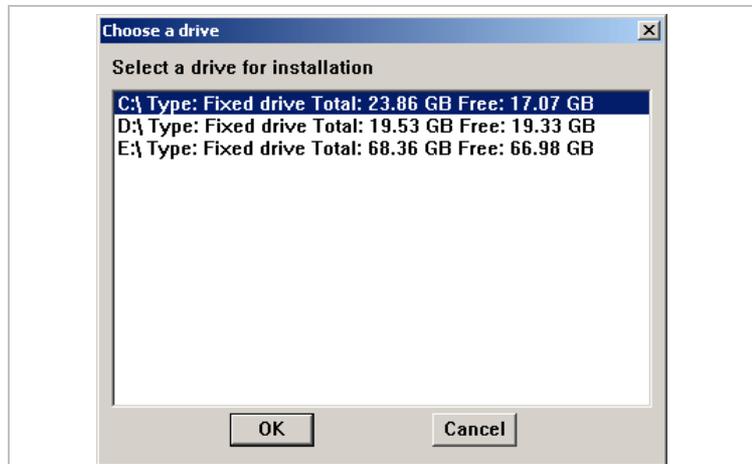
Select the drive   Fig. 37550

Note

The drive selection mask only appears when the component is installed for the first time.

3. Select a drive and press *OK*.

4. Select the Access database ("*.mdb") to be adopted in the selection dialog mask which then appears and confirm your selection.

   The adoption process is initiated.

5. If no "TOPS" user group has yet been created, it is now created automatically. An appropriate message then appears.

The installation of the component is now complete.

Further data

Data which are not stored in the database(e. g., tools, templates, samples) must be copied manually to the server computer after installation of the ToPs server.

ToPsNet

The ToPsNet component creates the directory for the joint data of the clients.

Installation   The installation procedure is fully automatic.

Dongle server

The dongle server makes the licenses available to the ToPs clients.

Tools required

• Dongle plug.

• Disk with passwords.

Installation   1. Plug in the dongle.

2. Insert the disk with the passwords in the disk drive when the following message appears:
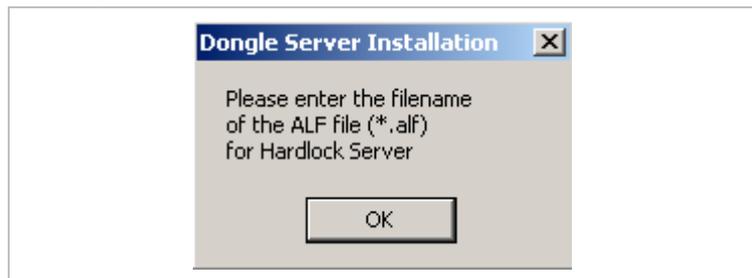
Fig. 37553

3. Confirm message by pressing *OK*.

4. Select the file with the extension ".alf" from the disk during the selection dialog and confirm your selection.

The following message appears:

Fig. 37554

5. Click *Weiter> (Continue)*.

    The mask appears for the selection of the backup copy.

Creating a backup copy   Fig. 37555

6. Select the option "Yes" and then click on Weiter (*Continue)*.

    The installation begins.

    The following message appears when the installation is complete:

Installation of the dongle driver   Fig. 37556

7. Click on *Yes*.

    The installation of the dongle driver is started. A final message appears at the end of this procedure.

8. Confirm message.

The installation is now complete.

Dongle monitor

The dongle monitor administers the licenses on the dongle server.

Installation   1.   The following message appears at the start of the installation:

Fig. 37557

2.   Click Weiter (*Continue*).

The backup copy is then queried.
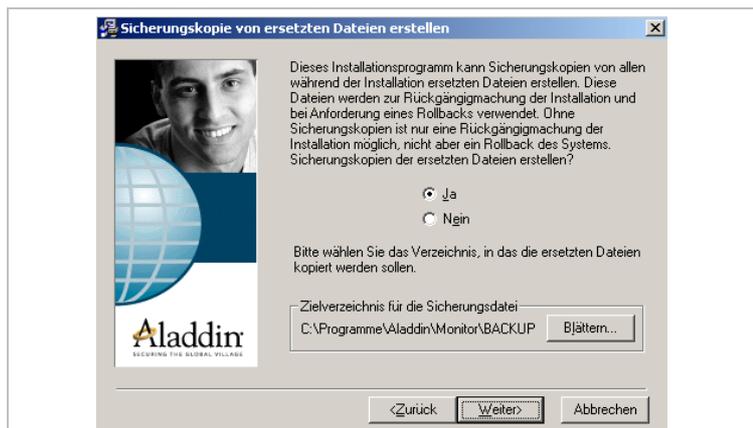
Creating a backup copy   Fig. 37558

3.   Select the option "Yes" and then click on Weiter (*Continue*).

The installation begins. A final message appears at the end of the installation procedure.

4.   Confirm message.

The installation is now complete.

For further reference   There are instructions for the operation of the dongle monitor on your ToPs server CD.
You can find the instructions in the directory
'<drive>:\Support_Tools_Extern\Dongel\V<XXX>\'. The file is called 'hlendkundenhandbuch_<Sprachkürzel>.pdf'. '

4. Installing ToPs as a single workstation

4.1 ToPs CAD, 100 lite, 300, 400, 2000

Prerequisite

- You have checked your settings using the Section "Requirements" (see Section 2, p. 10) and corrected them if necessary.
- The operating system has been started and all programs have been closed.

ToPs 100 lite
ToPs 2000
ToPs 100 lite and ToPs 2000 can also be installed directly at the machine.
For more information, refer to the corresponding section in the "Miscellaneous" chapter (refer to Section 6.1, p. 49).

Starting
1. Insert the ToPs CD.
Start the 'setup.exe' file on the ToPs CD if the installation does not start automatically.

Language
2. Select language for the installation and press *OK*.
The setup type selection mask appears.

Selecting the setup type   Fig. 19836

Setup type
3. Select the setup type.
- **User**
The *User* setup type allows you to install individual system components (not recommended).
- **Standard**
All system components required are checked and installed (recommended).

4. Click *Continue*.
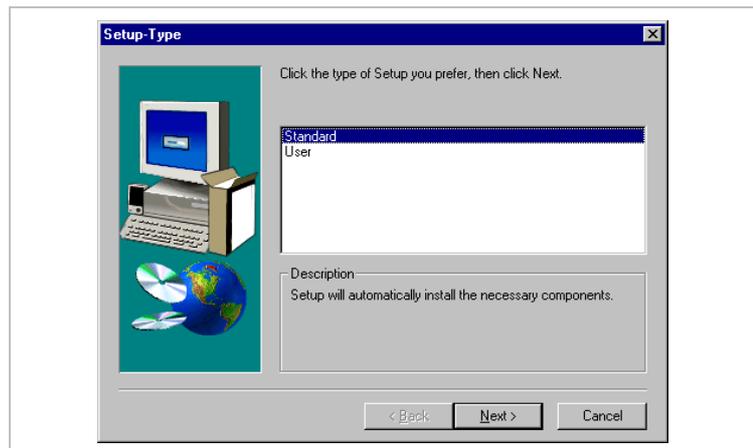
The system components are then checked and installed (refer to Section 3, p. 12).

Continuing the installation   The installation of ToPs is continued after the system components have been checked and installed.

Selecting the target drive   5. Select the desired target drive and click on *Next*.

The database access is then queried.
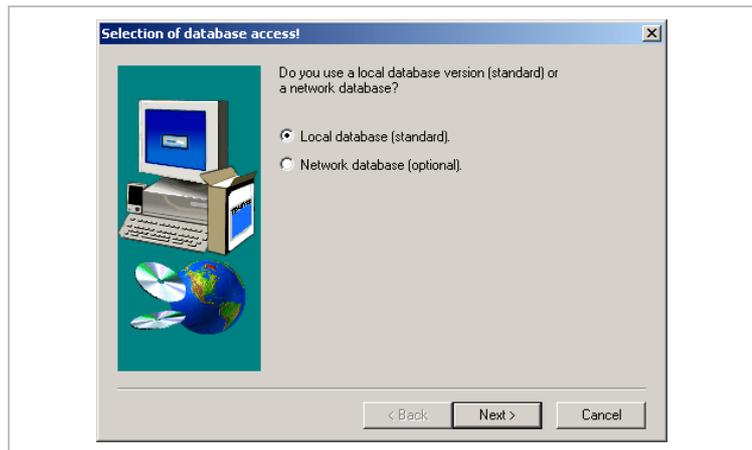
Fig. 37559

6. Select the option "Ich setze eine lokale Datenbank (Standard) ein" ("I local database (default)") and press *Continue*.

The mask appears for the selection of the installation type.
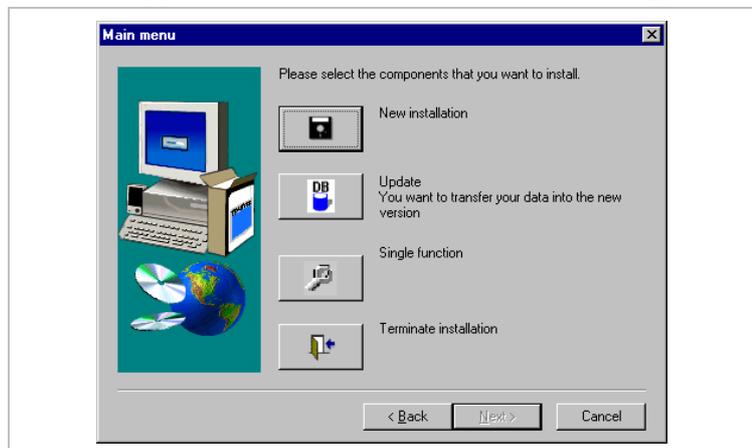
Fig. 22606

Selecting the installation type   7. Select one of the following installation types:

- **Initial installation**
  ToPs is installed completely for the first time.
- **Update**
  Select Update if a ToPs version is already installed on your computer. Only the data of the new version is installed. User-defined data is retained.
- **Einzelfunktion (Individual function)**
  Various auxiliary functions.

The individual installation types are described in the following.

Initial installation

You are asked to enter certain information (machine, laser, etc.) in several dialog fields after selecting "Neuinstallation" ("Initial installation").

Entering information   1. Enter all requested information and confirm with *Next*.

A list of all of your entries appears after entering all of the required information.
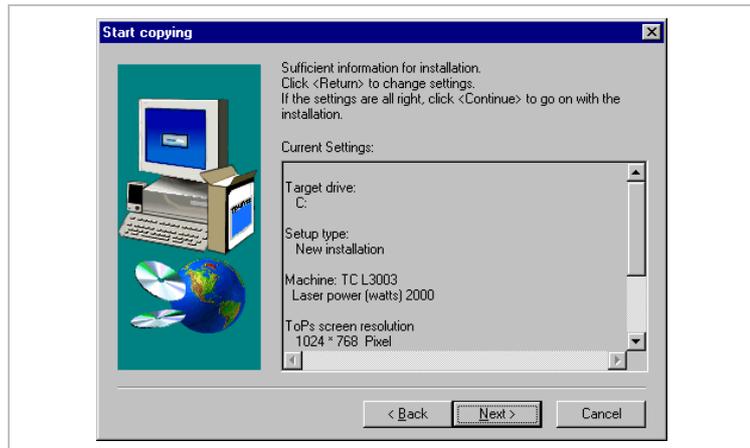
Fig. 22607

Completing the installation   2. Check data entries.

➢ Click on *Continue* if all entries are correct.

or

➢ Click on *Return* to change the entries.

The installation procedure is started. A progress display keeps you informed about the current status during the installation.

The dongle type is selected after completing the installation.

Selecting the dongle type   Fig. 37560

3. Select "I use a local dongle" and press *next*."

    The ToPs components (CAD-Converter or NC-Link) which are required are now installed.

    The password is queried after the installation.

Password query

4. Enter the password and license number (refer to the section "Entering passwords" on page 29).

5. Click *Continue*.

    The installation is now complete.

You can now work with ToPs.

Update

Prerequisite

- One of the following versions is already installed on your system:
    - ToPs 100 lite version 4.00 (or higher)
    - ToPs 300 version 3.00 (or higher)
    - ToPs 400 version 3.40 (or higher)
    - ToPs 2000 version 3.30 (or higher)

User data
Only program files of the new ToPs system are installed during an update. User-specific data from the old version is retained.

ToPs 200
ToPs 250
If you wish to update ToPs 200 and ToPs 250 by installing ToPs 300, you first have to update them to the following versions:

- ToPs 200   Version 2.13.
- ToPs 250   Version 2.02.

These versions can be found on the installation CD of ToPs 300 V3.0x, which you can order at TRUMPF CAD/CAM Support. The installation manual supplied there contains more detailed information on the procedure.

Starting an update
The installation program searches for existing ToPs systems after selecting "Update".

Note
This procedure can take a long time, depending on the number of network connections.

If an existing installation is found, it is displayed in a mask.

Selecting an update basis
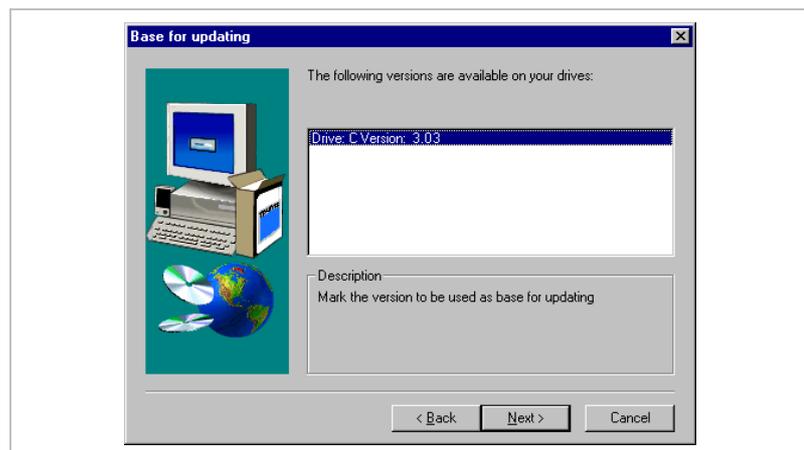
Fig. 23518

1. Select the ToPs version on which the update is to be installed and click on *Next*.

The dongle type is selected after completing the installation.
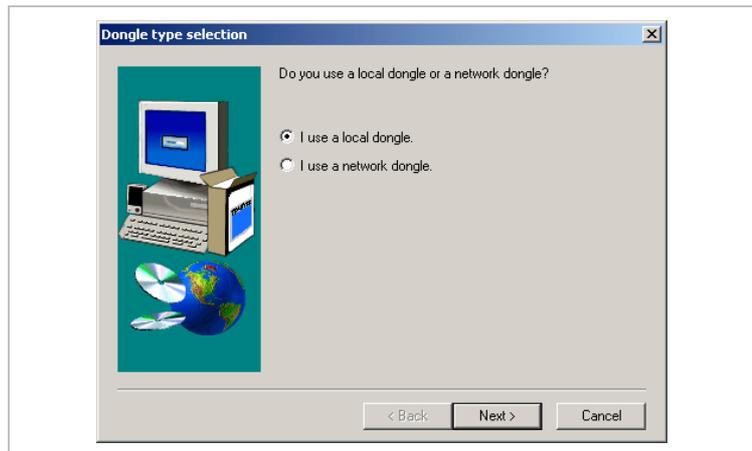
Selecting the dongle type   Fig. 37560

2. Select "I use a local dongle" and press next.

    The ToPs components (CAD-Converter or NC-Link) which are required are now installed.

    The password is queried after the installation.

Password query   3. Enter the password and license number (refer to the section "Entering passwords" on page 29).

4. Click *Continue*.

    The installation is now complete.

Individual functions

The individual functions of the ToPs installation provide a series of help functions for the ToPs installation.

Note

Most of these functions are only to be used by experienced users. Only use these functions when really necessary.

The following functions are available (varying depending on the ToPs system):

- Reading in individual files from the installation CD or an installation disk.
  - Individual files can be extracted from the CAB file created by the installation program.
- Editing machine parameters.
  - Adding new machines to the database or deleting existing machines from the database.
- Editing lasers for machines.
  - Adding new laser data to the database or deleting existing laser data from the database.
- DB table editing.
  - Deleting, exporting or importing database sources.
- Entering passwords and serial numbers.
- Adapting the TRUMPF program group and creating symbols.
  - The TRUMPF group and the symbols contained in it are recreated or updated.
- Carrying out hardware and software analyses.
- Packing functions.
- Displaying readme files with current information on the programming system.
- ODBC
  - Opens the ODBC data source administrator.
- Finishing the installation.

Entering passwords

Each ToPs programming system, the postprocessors, the machines and the options are protected by passwords. Every dongle has a serial number as well.

As part of an initial installation or an update, you can either enter the serial number of your dongle and your password manually or read them in from a disk.

Selecting a procedure

Password dialog   Fig. 22620

Loading passwords from diskette

1. Insert the disk with the passwords in the disk drive and click on *Continue*.

2. Select the 'tops_pwd' file and click on *Open*.
   The passwords are read in.

Editing existing passwords

➢ Click on *Continue* and enter the following data (you can find them in your software license):

   – Serial number:
     String of 16 characters in the "ID-Modul-Nr" ("ID module no.)" line after "SN-No" ("SN-No").

   – Password:
     String of 8 characters in the "Codewort" ("Code word") line.

All passwords and the serial number are stored in the file 'tops_pwd' in the directory '\Trumpf'.

Adopt existing passwords

The current passwords are adopted.
The installation is completed.

4.2 ToPs 600 and ToPs 800

Prerequisite

- You have checked your settings using the Section "Requirements" (see Section 2 p. 10) and corrected them if necessary.
- The operating system has been started and all programs have been closed.

Starting 1. Insert the ToPs CD.

Start the 'setup.exe' file on the ToPs CD if the installation does not start automatically.

Language 2. Select language for the installation and press *OK*.

The setup type selection mask appears.

Selecting the setup type   Fig. 19836

Setup type 3. Select the setup type:

  – **User**
    The *User* setup type allows you to install individual system components (not recommended).
  – **Standard**
    All system components required are checked and installed (recommended).

4. Click *Continue*.
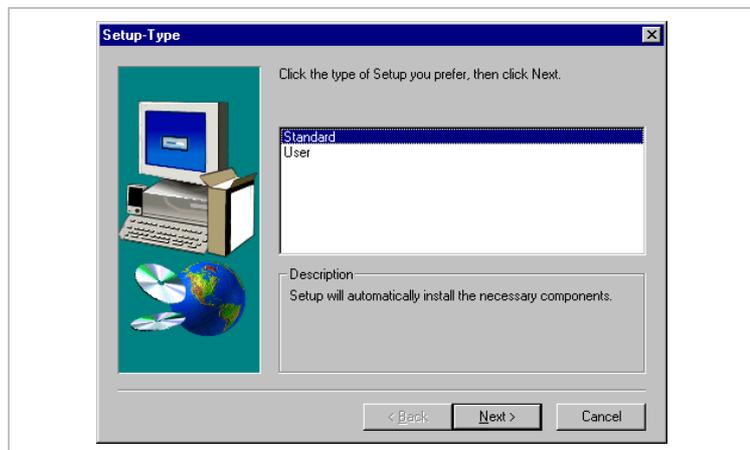
The system components are then checked and installed (refer to Section 3, p. 12).

Choosing the installation type (only ToPs 600)
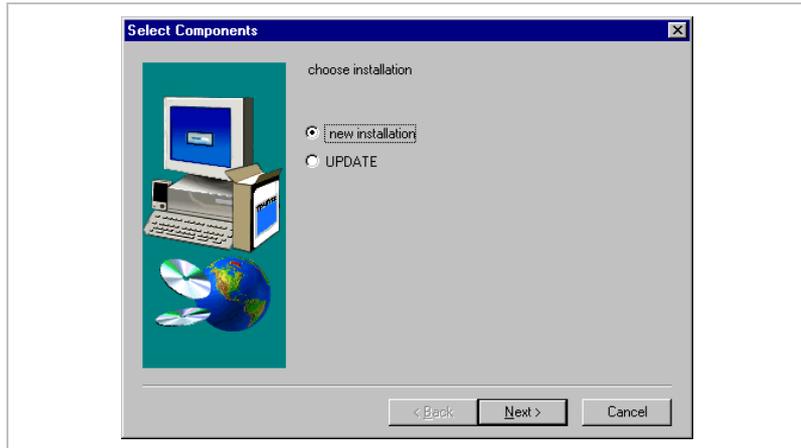
Fig. 22610

➢ Select the installation type and click on *Continue*.
The installation types are described in the following.

Initial installation

Selecting the resolution ➢ Select the resolution and click on *Continue*.
The installation procedure is started.

Installation A progress display keeps you informed about the current status of the installation.

Note
The procedure can be interrupted at any time with *Cancel.*

Password query
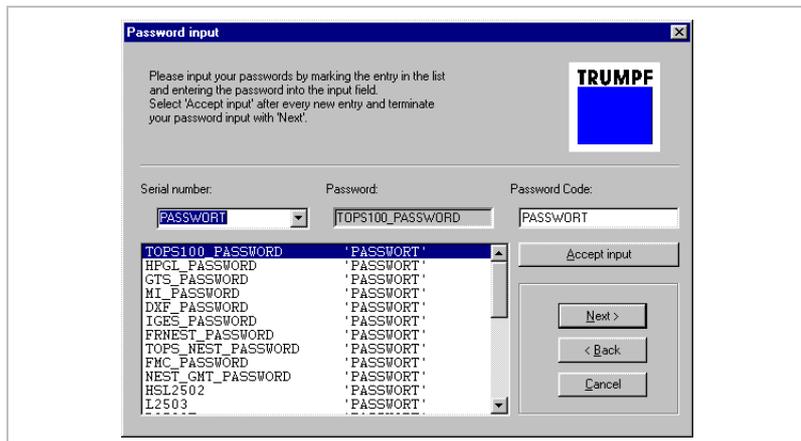
Password query   Fig. 26592

1. Select the password to be entered from the list, enter it under "Password" and then press *Apply the value*.

2. Click on *Continue* after entering all passwords.

The installation is now complete.

You can now work with ToPs 600.

Update (only ToPs 600)

Prerequisite

- The following version is already installed on your system:
    - ToPs 600 version 2.00 (or higher).

The system searches through all connected drives for a previous versions of ToPs once you have selected the installation type "Update".

Note
This procedure can take a long time, depending on the number of network connections.

Selecting the previous version
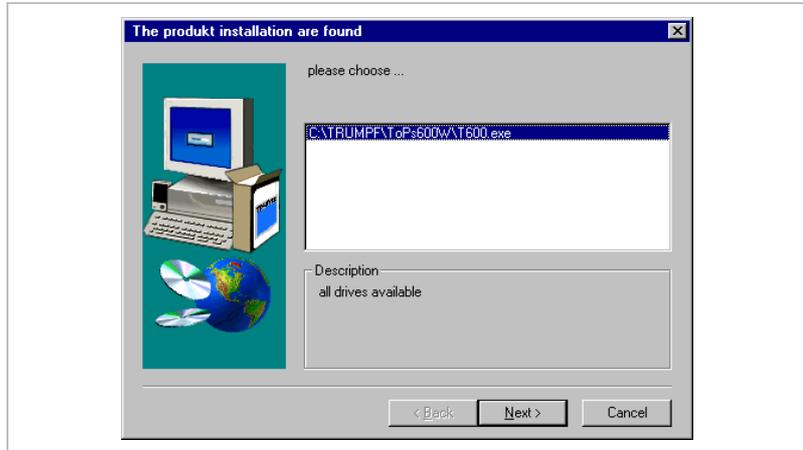
Previous version   Fig. 22611

1. Select the desired version from the list and click *Continue*.

Selecting the resolution
2. Select the desired resolution and click *Continue*.

The installation procedure is started. A progress display keeps you informed about the current status during the installation.

Note
The procedure can be aborted at any time with *Cancel.*

Database update
The "DB-Update" program is started in order to transfer the data to the new database after installing the program.

The program starts and ends automatically.

Ending the installation	3. Confirm the message at the end of the installation. The "Readme" file opens. It contains information on the installation procedure. You can now work with ToPs 600.

5. Installing ToPs as a client/server system

5.1 Prior to the installation

General preparations

You should sort out and prepare the following things before beginning with the installation of your ToPs client/server system:

System requirements	The computers on which you want to use the client/server system must meet the requirements specified in the "Prerequisites" section at the beginning of this manual (refer to Section 2, p. 10).
Joint storage location (file server)	The data saved is administered centrally at a joint storage location if a client/server system is used. By default, this storage location is on the computer on which the ToPs server is running. You can define a different storage location however. In this case, make sure that the computer on which the data is stored is within the network and that you have the administrator rights there.
Common drive letter	All clients access a joint storage location. This is based on the condition that the clients are connected with the storage location via a network drive. The same letter must be assigned to this drive at all clients. Therefore determine a letter for the drive which is unused on all client computers prior to the installation.
"TOPS" user group	The server is accessed within a defined "TOPS" user group. If no such group is available prior to the installation of the ToPs servers, it is created automatically. You have to create the group yourself prior to the installation of the ToPs server if you want to administer the user group via a domain controller. For more information, refer to the section "Setting up a "TOPS" user group" on page 48.
Adopting the database	The database of the single workstation can be adopted during the installation when turning a single workstation into a client/server system.

You have to determine a database from which you want adopt the data prior to the installation if you have several single workstations. Also carry out an update upto the current version. Copy the database into a directory which can be accessed by the server computer (Recommendation: Copy the database directly onto the server computer). You are then requested to enter the path when saving the data.

Note
The database from which you wish to take data must have the same version as the new database.

You can see where your local database is in the "Info" module in your ToPs programming system under "Files" -> "Actual data base".

Selecting a configuration

There are different ways of combining the four components of the client/server system (ToPs server, dongle server, file server, ToPs client).
You can install all of the four components on a single computer, but also install each of them on individual computers.

Only restriction:
The **ToPs server** and **dongle server** must run on the same computer.

File server For the installation, it is important to know whether the components file server and ToPs server are running on a single computer or on different computers.
Decide therefore where you want to store your data prior to the installation.

File server on ToPs server

ToPs Server
Dongle Server
File Server
(ToPs Client)

ToPs Clients
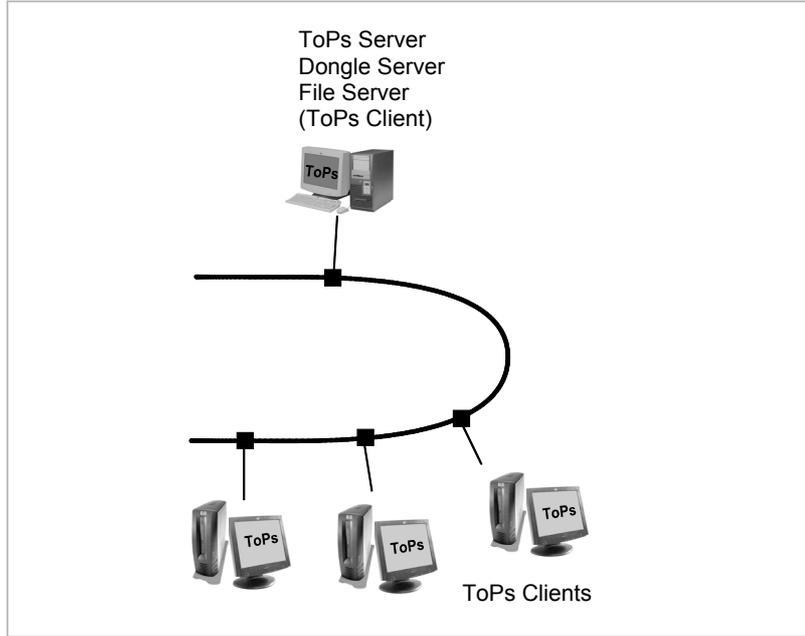
Configuration with a joint file server   Fig. 37562

Separate file server

ToPs Server
Dongle Server
(ToPs Client)

File Server
(ToPs Client)
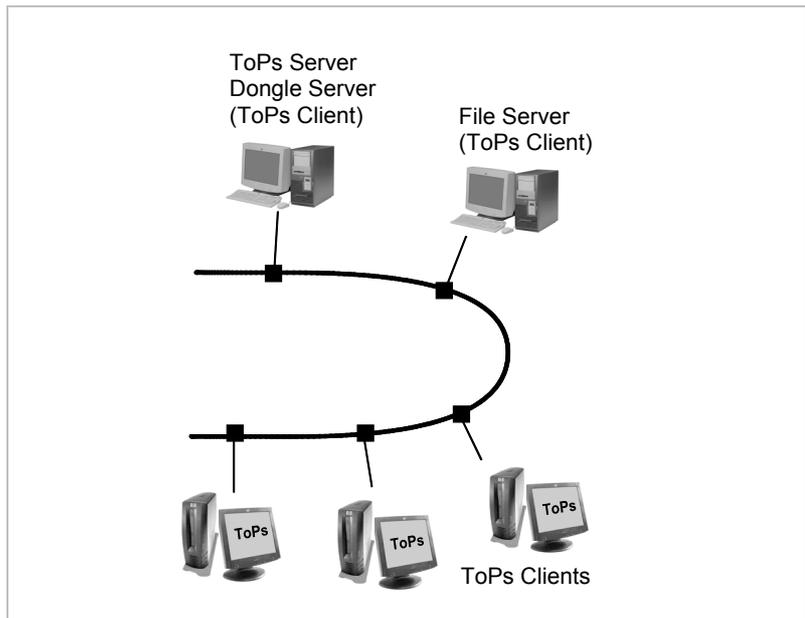
ToPs Clients

Configuration with a separate file server   Fig. 37561

TRUMPF

Selecting the installation type

The installation procedure depends on whether you already have a ToPs programming system or not.

Initial installation   The client/server system is installed completely for the first time. No data of existing single systems or server systems are adopted.

Extension   An existing ToPs single workstation is turned into a client/server system.

Update   An existing client/server system is updated with a new version.

The individual types of installation are described on the next pages.

5.2 Initial installation

Flow chart
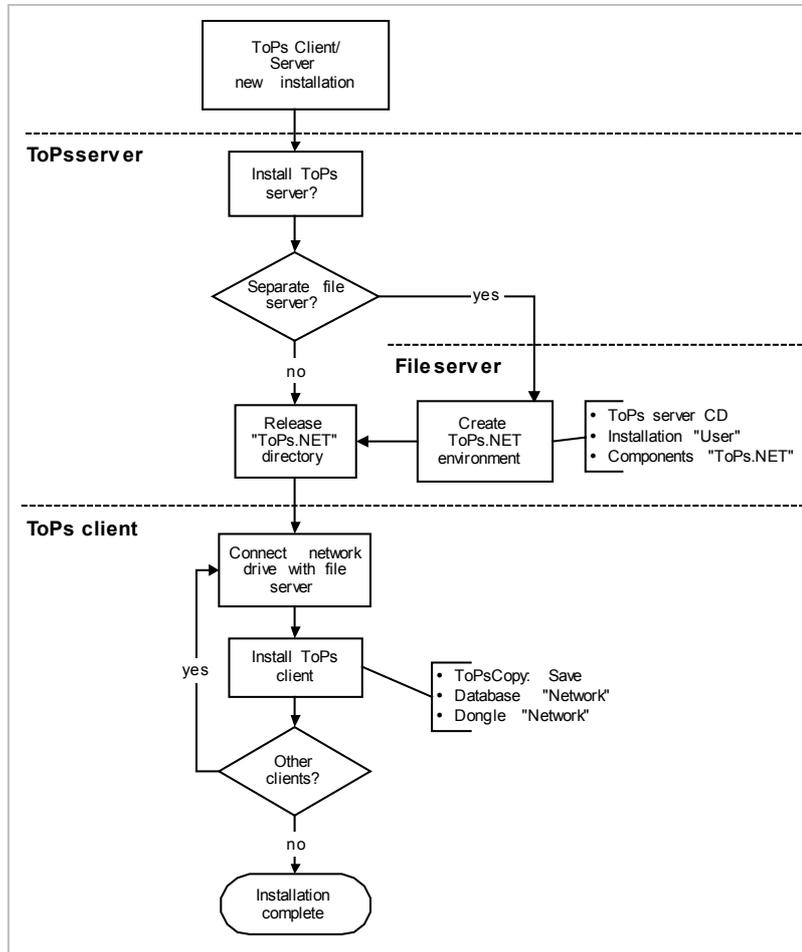
Installation procedure   Fig. 37563

Overview of the procedure

1. Install the ToPs server.
    (refer to Section 5.5, p. 41)

2. If a separate file server is used, set it up.
    (refer to Section 5.5, p. 42)

3. Install the ToPs clients.
    (refer to Section 5.5, p. 44)

5.3 Extension to a client/server system

Flow chart


```
                    ┌─────────────────┐
                    │   ToPs Client/  │
                    │ Server extension│
                    └────────┬────────┘
Client  ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ │ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─
                         ◇ Is ToPs ──── yes
                         ◇ installed?
                    no                 ┌──────────────┐
                                       │   Check      │
                                       │ the version  │
                                       │ installed    │
                                       └──────────────┘
                         ◇ Current? ──── no      • Database  "local"
                                                 • Dongle  "local"
                                                 • Installation  "Update"
                    yes          ┌──────────────┐
                                 │ Carry   out  │
                                 │ the update on│
                                 │ the new version│
                                 └──────────────┘
                         ◇ Take   over ──── yes
                         ◇ database?
                                       ┌──────────────┐
                    no                 │ Copy  database│   Localize database:
                                       │ on ToPs server│   "Info" module > files
                                       └──────────────┘   > current database
                         ◇ Other
                         ◇ clients?
                    no
Server  ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─
                    ┌──────────────┐   • MSSQL-DB: "Take over data?" -> "Yes"
                    │ Install ToPs │   • Set up "ToPs" user group
                    │ server       │
                    └──────────────┘
                         ◇ Separate  file ──── yes
                         ◇ server?
                    no          Fileserver ─ ─ ─ ─ ─ ─ ─ ─
                                              • ToPs server CD
                    ┌──────────┐  ┌──────────┐  • Installation "User"
                    │ Release  │←─│ Create   │  • Components "ToPs.NET"
                    │ "ToPs.NET"│  │ ToPs.NET │
                    │ directory │  │environment│
                    └──────────┘  └──────────┘
Client  ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─
                    ┌──────────────┐
                    │ Connect network│
                    │ drive with file│
                    │ server        │
                    └──────────────┘
                    ┌──────────────┐   • ToPsCopy:  Save
           yes      │ Install ToPs │   • Database  "Network"
                    │ client       │   • Dongle  "Network"
                    └──────────────┘
                         ◇ Other
                         ◇ clients?
                    no
                    ┌──────────────┐
                    │ Installation │
                    │ complete     │
                    └──────────────┘
```

Extension procedure   Fig. 37564

TRUMPF

Overview of the procedure

1. Update all single ToPs system workstations to the current version.
   (refer to Section 4.1, p. 22).

2. Define the ToPs system from which the database is to be adopted.

3. Copy the database into a directory of your choice on the server computer (path is queried when adopting the data).
   – You can see where your local database is in the "Info" module in ToPs under "Files", "Actual data base".

4. Install the ToPs server.
   (See p. 41)

5. If a separate file server is used, set it up.
   (See p. 42)

6. Install the ToPs clients.
   (See p. 44)

5.4   Update

Flow chart

| ToPs client/server Update |

ToPsserver

| Install ToPs server |

ToPs client

| Install ToPs client |

- ToPsCopy: Save
- Database   "Network"
- Dongle   "Network"

yes

Other clients?

no

(Installation complete)
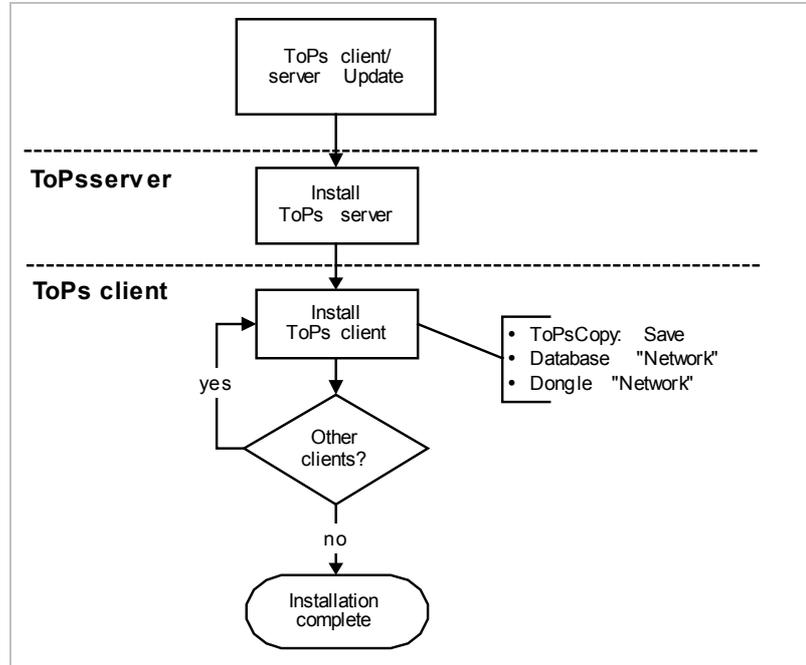
Update procedure   Fig. 37565

Overview of the procedure

1. Carry out a server database update.
    (See p. 43)

2. Update the ToPs client.
    (See p. 44)

5.5   Installation

Install the ToPs server

1.   Plug the dongle into the server computer.

2.   Insert the ToPs server CD.
     Start the 'setup.exe' file on the ToPs CD if the installation does not start automatically.

3.   Select the language for the installation.

4.   Select setup type *Standard.*

5.   The system components are then checked and installed.
     Observe the following information:

     – **MS SQL-DB**
        You have to confirm the message "Take over Data from Access Database?" with "Yes" when installing the component MS SQL-DB if you want to adopt data from a previously installed ToPs programming system.
        Read the corresponding section under "System components" (refer to Section 3.2, p. 15).

6.   Release the storage directory.

     ➢   Joint storage location on the server computer:
         Release the directory '<drive>:\TRUMPF.NET\ToPs.NET' on the server computer and set up authorizations.

     or

     ➢   Joint storage area on a separate computer:
         Set up a storage computer (refer to Section 5.5, p. 42).

7.   Set up a user for the "TOPS" group.

     ➢   With domains:
         Enter each client with its user name.

     or

     ➢   With work group:
         Create a "Guest" user.

Setting up a file server

If the storage location for joint access by the clients is on a separate computer instead of on the server computer (default), you first have to set up the separate computer.

1. Insert the ToPs server CD in the computer.

2. Select a language and press *OK*.

   The setup type is then selected.
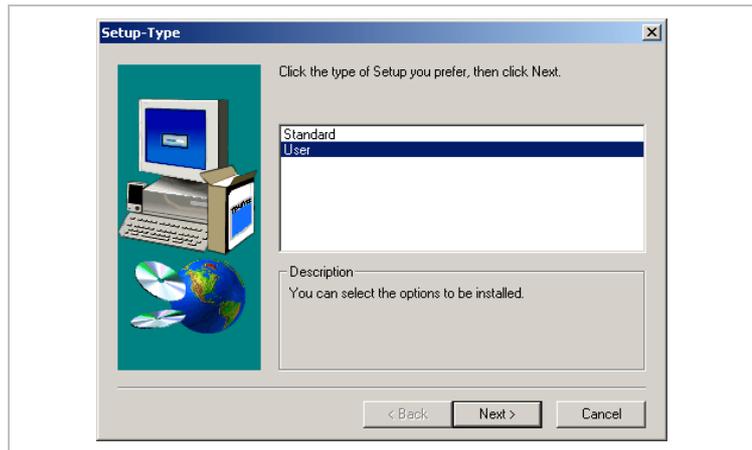
Fig. 37566

3. Select the *User* installation type.

   The system components are then selected.
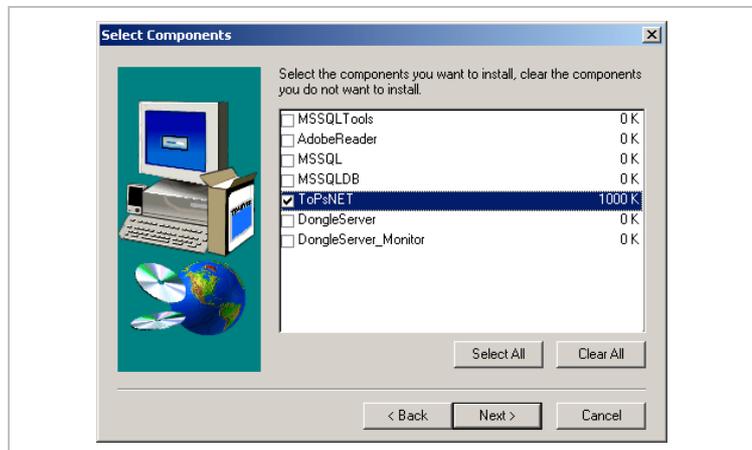
Fig. 37567

4. Press *Delete all* and then select the components "ToPs.NET".

5. Press *Continue*.

   The installation procedure is started. The following message appears at the end of the installation procedure:
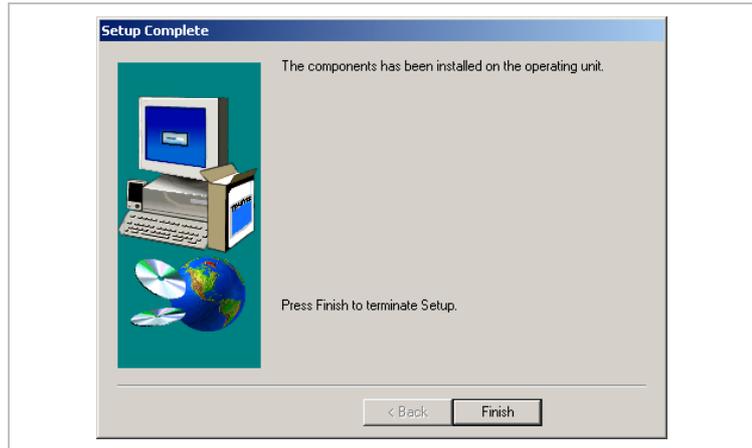
Completing the installation   Fig. 37568

6. Release the directory '<drive>:\TRUMPF.NET\ToPs.NET' and set up access rights for the clients.

Carry out a server database update

1. Insert the ToPs server CD in the ToPs server computer.

   Start the 'setup.exe' file on the ToPs CD if the installation does not start automatically.

2. Select the language for the installation.

3. Select the setup type *Standard*.

   The system components are then checked and installed.

4. Await the following message for the system component **MS SQL-DB**:

Adopting data   Fig. 37549

5. Press *No*.

   If a ToPs server version is already installed, a selection mask appears with the versions found.
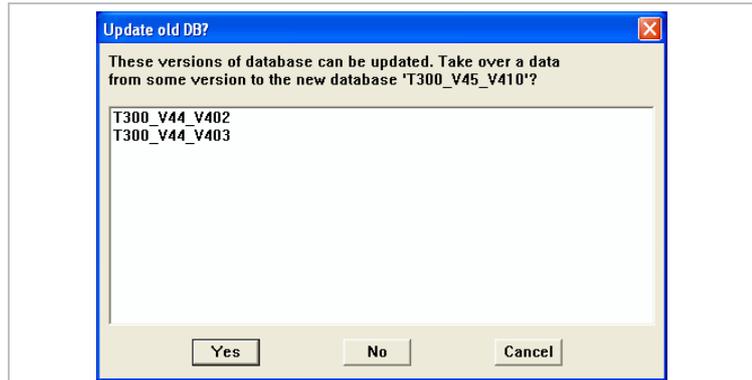
Select the drive   Fig. 37550

6. Select the database to be updated and press *Yes*.

    The update is carried out. When the update is completed, the installation routine continues with the installation of the system components.

Install/update the ToPs client

Prerequisite

- You have checked your settings and, if necessary, corrected them in accordance with the "Prerequisites" chapter.

- The ToPs server has been installed and configured.

- A common drive letter has been determined for access to the storage computer or server computer by the clients.

- The operating system has been started and no programs are open.

- Any ToPs programming systems which have already been installed at other clients are closed.

Connect the network drive (not necessary for update)

1. Connect the client computer with the storage computer or server computer via a network drive.

Connecting the network drive   Fig. 37569

Note

The same drive letter must be used by all clients.

Activate the "Verbindung bei Anmeldung wiederherstellen" ("Restore connection during logon") checkbox. The connection would otherwise not be available after a restart.

Starting the installation   2.   Insert the ToPs CD in the client computer.

Start the 'setup.exe' file on the ToPs CD if the installation does not start automatically.

Language   3.   Select language for the installation and press *OK*.

The setup type selection mask appears.
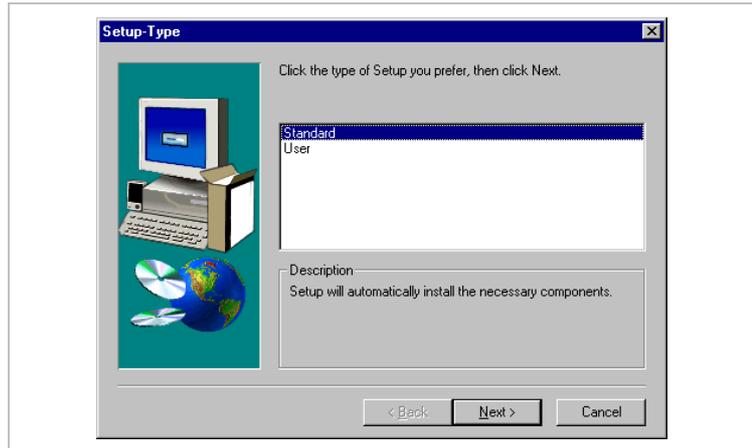
Selecting the setup type   Fig. 19836

Setup type   4.   Select setup type *Standard*.

5.   Click *Continue*.

The system components are then checked and installed. Refer to the "System components" section for more information (refer to Section 3, p. 12).

Note

Carry out a back up using ToPs Copy as part of the update. Refer to the corresponding section in the description of the system components.

6.   Select the drive on which ToPs is to be installed.

The database selection mask appears.
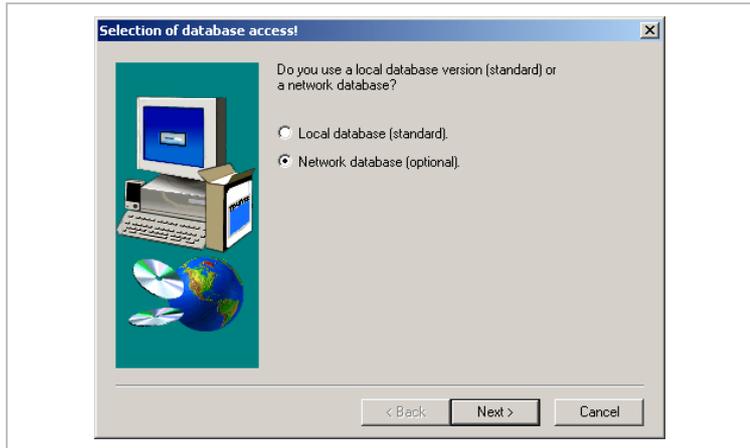
Fig. 37570

7. Select the option "network database (optional)" and press *Continue*.

   SQL servers are searched for throughout the network. The following mask appears once the search procedure is over:
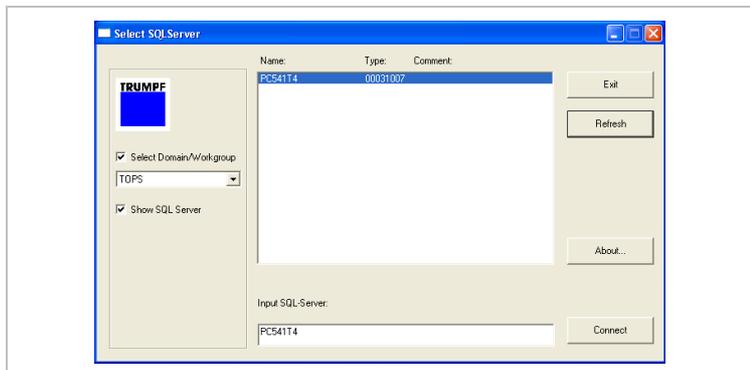
Selecting the SQL server   Fig. 37571

8. Select the ToPs server from the list and press *Connect*.

   An attempt is made to establish a connection to the server. The following message appears if the connection is successful:

Fig. 37572

If your ToPs server is not part of the list

➢ Enter the computer name of the server in the "Input SQL-Server" ("SQL server input") field and press *Connect* again.
Get in touch with TRUMPF software support if the connection cannot be established.

9. Press *Yes*.

10. Select the language for ToPs and press *OK*.

A list of all entries appears.
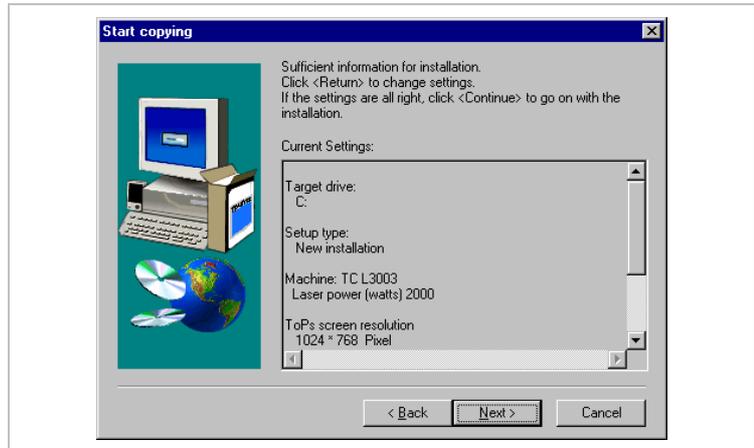
Confirming entries   Fig. 22607

11. Press *Continue*.

ToPs is installed. A progress bar shows the progress of the installation. The dongle is queried after completing the installation.

Dongle query   Fig. 37573

12. Select the option "I use a network dongle") and press *next*.
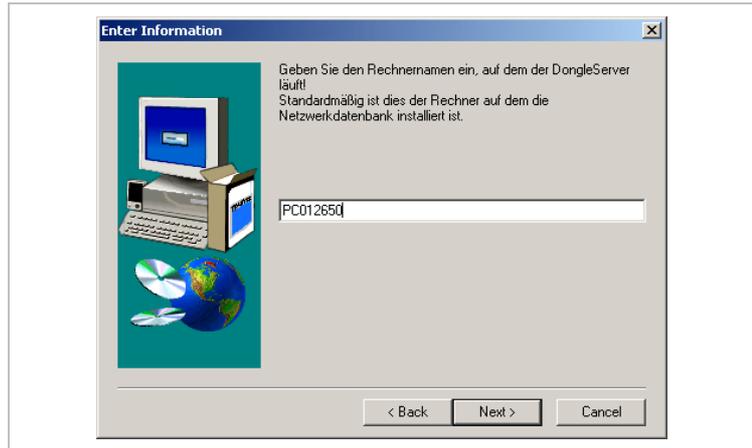
13. Enter the correct PC name if the PC name displayed does not correspond to the PC name of the server computer.

   The password dialog follows.

14. Enter the passwords (refer to the section "Entering passwords", p. 29).

15. If the CAD-Converter or NC-Link ToPs components are required, they are now installed.

   An appropriate message appears at the end of the installation.

16. Confirm message.

The installation is now complete.

Setting up a "TOPS" user group

The ToPs clients access the ToPs server within the "TOPS" user group. This user group must be set up before the clients are installed.
If the group does not yet exist, it is created automatically during the installation of the ToPs server.

If you therefore administer your user administration via a specific server, you have to create the "TOPS" group manually before installing the ToPs server.

The following specifications apply here:

Domain controller
- User group name: "TOPS".
- Enter all clients with their user names.

Work group
- User group: "TOPS".
- Only enter the "Gast" ("Guest") user.

6.   Miscellaneous

6.1   Installing ToPs 100 lite and ToPs 2000 at the machine

ToPs 100 lite and ToPs 2000 can be installed directly at the machine's control system.
A distinction is made between 16-bit control systems (Windows for Workgroups 3.11) and 32-bit control systems (Windows NT 4.0 or later version) during the installation.

Installation software

You can either create the installation software yourself using the ToPs CD or order it at TRUMPF as a complete installation package.

Note
Before installation, ensure that your machine is equipped with the hardware necessary for installation (diskette, ZIP drive/CD drive).

Ordering the installation software The order numbers for the installation software can be taken from the following tables:

16-bit version

	Metric		Inches	
	Disk	ZIP	Disk	ZIP
ToPs 100 lite	0352 045	0352045	0352 046	0352046

Order numbers   Tab. 3

32-bit version

	Metric		Inches	
	CD	ZIP	CD	ZIP
ToPs 100 lite	1271463	0352047	1271464	0352048
ToPs 2000	1271465	0352049	1271466	0352050

Order numbers   Tab. 4

Creating 16-bit installation software

The installation software for ToPs 100 lite at 16-bit control systems can only be created on disks.

Tools required

- About 20 formatted 3.5" disks.

1. Insert ToPs CD in an external PC.
   End the installation with *Cancel* if it starts automatically.

2. Start Windows Explorer and select the CD-ROM drive.

3. Start the file 'Diskman.exe' in the directory
   '\Support_Tools_ToPs10L\y\V4.xx\Disks'
   (y = w for metric / i for inch, xx = version number).

4. Select "All disks" and press *Execute*.

5. Follow the instructions on the screen.

Creating 32-bit installation software

The installation software for ToPs 100 lite and ToPs 2000 at 32-bit control systems can be created on ZIP disks or CD-ROMs.

Tools required

- Empty ZIP disk (250MB) or empty CD-ROM.
- 250 MB ZIP drive or CD burner.

1. Insert ToPs CD in the CD drive of the external PC.
   End the installation with *Cancel* if it starts automatically.

2. Start Windows Explorer and select the CD-ROM drive.

3. Copy the directory '\ToPs100lite_Panel\Vxx_Bxx\ZIP_x_250\'
   (x = version ID) onto the ZIP disk or burn it onto a CD.

TRUMPF

Installation on 16-bit control systems

Note
Only **ToPs 100 lite V4.xx** can be installed on 16-bit control systems.

Data backup   Back up your data at the machine's control system prior to the installation (e. g. with "Ghost").

Installing ToPs   **Note**
If a ToPs system has already been installed, it will be overwritten during the installation.

1. Insert the first disk of the set of disks or the ZIP disk in the (ZIP) disk drive of the machine's control system.

2. Start installation via *Operation >Maintenance/Start-up >Load software >Software update >ToPs*.

3. Follow the instructions on the screen.

Installation on 32-bit control systems

Prerequisite
- 250 MB ZIP drive or CD-ROM drive at the machine.
- You have the password required to install programs on the machine's control system.

TC 2000 R   The following instructions only apply to machines of the TC 2000 R series of the software series version V03.xx. or later.

Data backup   Back up your data at the machine's control system prior to the installation (e. g. with "Ghost").

Installing ToPs   1. Insert a ZIP disk / CD-ROM in the drive of the machine.

2. Reboot the machine's control system.

3. Press *Service on* within ten seconds after starting up the TOS (TRUMPF operating system).

4. Enter the password `tcohope` within 30 seconds.
   The MMC start-up procedure is aborted.
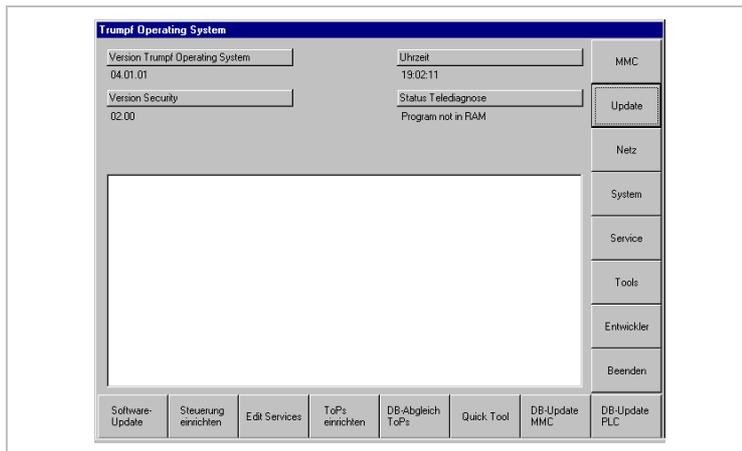
5. Press *Update*.

6. Press *Software update*.

7. Select installation language.
   The installation procedure is started.

8. Follow the instructions on the screen.

9. Boot the machine control system after the installation.

Updating the database at the control system

The database has to be copied onto a disk and then transferred to the control system in order to transfer the data of your ToPs programming system from the computer to the machine's control system.

Prerequisite

- The same ToPs version is installed on the machine's control system and the PC.

Tools required

- You will need either three or four blank, formatted 3.5" diskettes, depending on the size of the database 3.5".

Note
The database of the machine's control system is overwritten without warning during the update.

Copying the database at the PC onto disk(s)

1. Insert an empty diskette into the disk drive of the computer.

2. Start the copying process via *Start >Programs >Trumpf >Update Tops(Version)*.

3. Follow the program instructions.

   The database is copied onto the disk(s).

Updating data at the machine

4. Insert the first diskette into the machine's disk drive.

5. Start the data update via *Operation >Maintenance/Start-up >Load software >Software Update >Tops*.

6. Follow the program instructions.

   The new database is copied onto the machine's control system.

6.2 Change operating system (ToPs single working station)

1. Install the new operating system on your computer and adjust it for ToPs (see Section 2, p. 10).

2. Install new ToPs version as an update.

   The installation program carries out all necessary steps as part of the normal update procedure.

6.3 Change computer (ToPs single working station)

Without adopting data

If you do not wish to adopt any data from the database of an ToPs programming system which has already been installed, simply carry out an initial installation of the ToPs product on the new computer.

With data adoption

With network connection

You can copy your data directly onto a new computer if you have a network connection:

1. Copy the directory '<drive>:\TRUMPF\', together with all of its subdirectories, from the old computer onto the new computer.

2. Install the current ToPs version on the new computer as an update.

   The installation program carries out all necessary steps as part of the update procedure.

Without network connection

You have to backup the data of your old computer on a disk (or another medium) and then copy it onto the new computer if you do not have a network connection.

1. Copy the following directories:
   – '<drive>:\TRUMPF\ToPsX\
     (X = ToPs product)'
   – '<drive>:\TRUMPF\Teile\'
   – '<drive>:\TRUMPF\WZG\'
   – '<drive>:\TRUMPF\ToPs_ZCH\'
   – '<drive>:\TRUMPF\Templates\'
   – '<drive>:\TRUMPF\Sample\'

Note
Make sure that the copied data and directories are **not write-protected**.

2. Install the current ToPs version on the new computer as an update.

   The installation program carries out all necessary steps as part of the normal update procedure.

Note
If the database entered in the ODBC management system is not found during the installation, you will be asked to enter the path of the database.
The default directory of the database is
'<drive>:\TRUMPF\ToPsX\DB\' (X = ToPs product) with the extension '*.mdb'.

6.4 Editing machines and lasers (ToPs server)

There is a program used solely to add machines and lasers to your SQL database and delete them from it.
The program is on the ToPs server CD and can be executed on the ToPs server.

Prerequisite

- The ToPs server has been installed and configured.

Starting the program

1. Insert the ToPs server CD in the ToPs server computer.

   The installation starts automatically.

2. Select the language for the installation.

3. Select the installation type *User* from the "Setup-Typ" ("Setup type") mask.
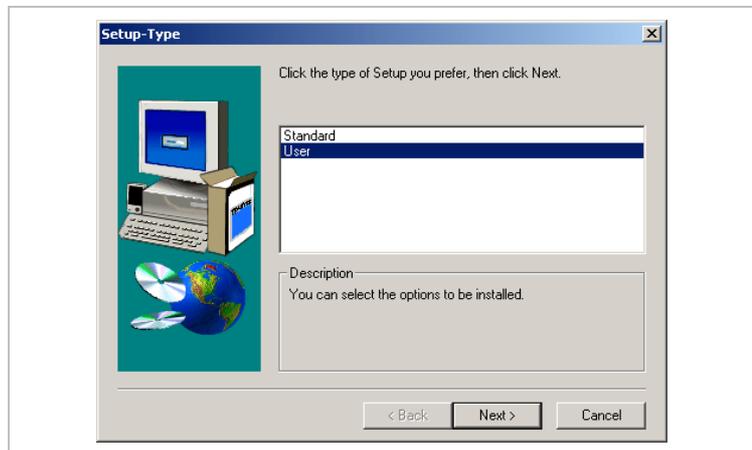
Fig. 37566

4. Press *Delete all* on the component selection mask and only select "MS SQL-DB".

Fig. 37586

5. Press *Continue*.

The following message appears:

Adopting data   Fig. 37549

6. Confirm the message with *No*.

The database selection mask appears.
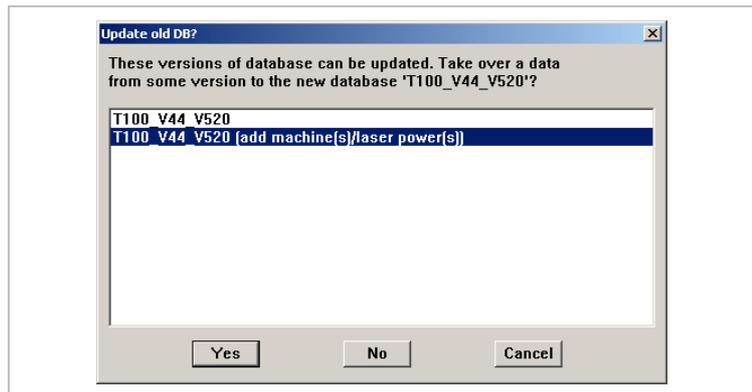
Fig. 37575

7. Select the database with add-on *(add machine(s)/laser power(s))* and press *Yes*.

The database is loaded and an overview mask appears.

Adding a laser
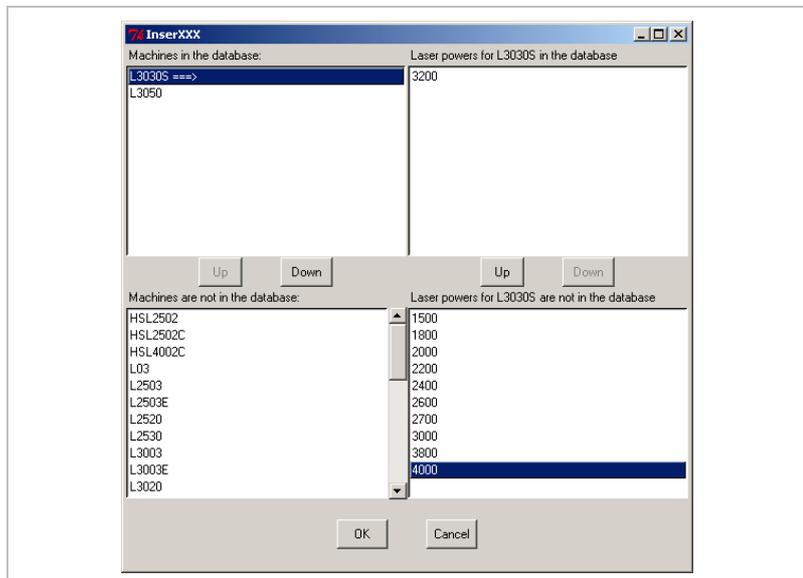
Fig. 37576

1. Select the machine to which a laser is to be added from the top, left field.

2. Select the laser to be added from the bottom, right field.

3. Press *Up*.

   The laser appears in the top laser field.

Adding a machine
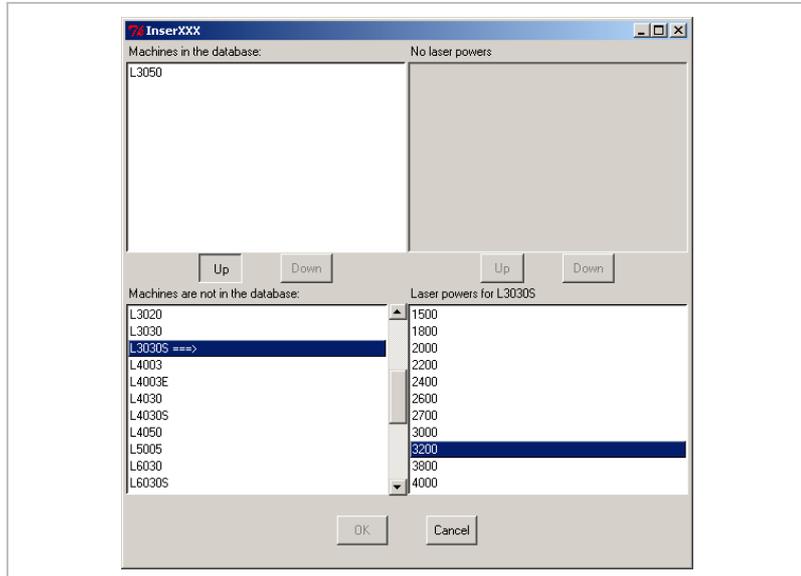
Fig. 37577

1. Select the machine you want to add from the bottom, left field.

   If any lasers exist for the machine, they appear in the bottom, right field.

2. Select the laser from the bottom, right field.

3. Press *Up*.

   The machine and laser appear in the top field.

Deleting a machine/laser ➢ In order to delete a machine or laser, select it from the top field and press *Down*.

   The machine or laser is removed from the top field.

Save modifications ➢ Press *OK* to save the changes.

   The data is saved. An appropriate message appears on the screen at the end of the installation.

6.5 Backing up the SQL database (ToPs server)

There is a special program for backing up and recreating your SQL database.
You can call up the program from your start menu.

Starting the program
1. Select *Start >Programs >TRUMPF >MS SQL Server Tool (MS SQL server tool) >Backup & Restore DB.*

The tool is started.
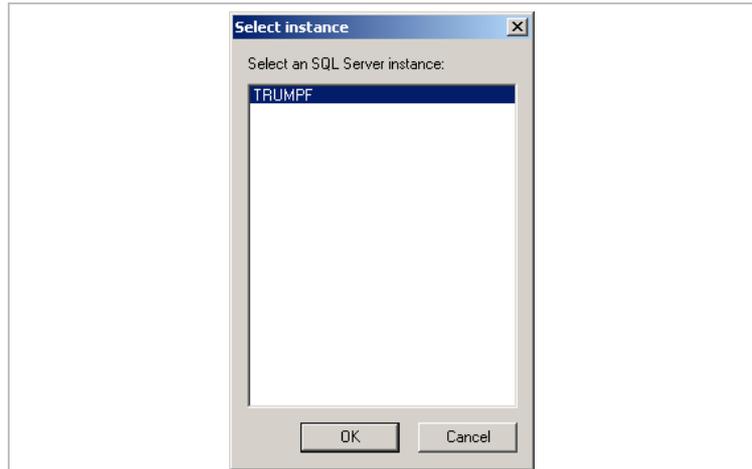
Selecting a server instance   Fig. 37578

2. Select the server instance *TRUMPF* and press OK.

The following dialog box appears:

Fig. 37579

TRUMPF
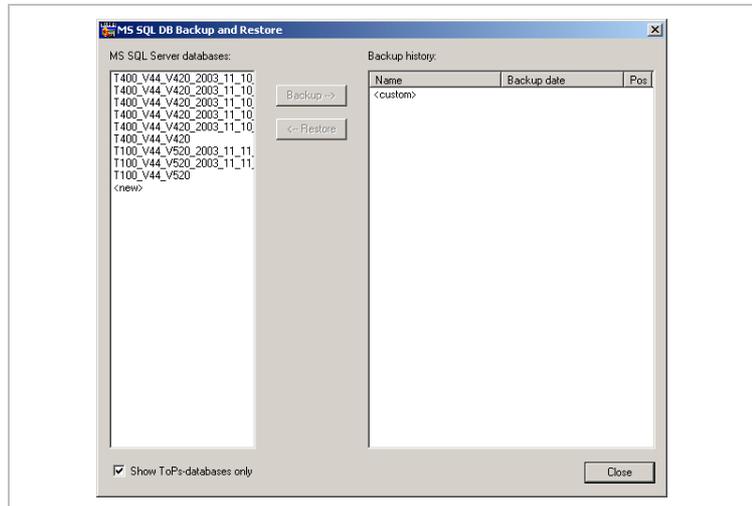
Backing up the database	1. Choose the database to be backed up from the left-hand list.
	2. Select *<custom>* from the right-hand field.
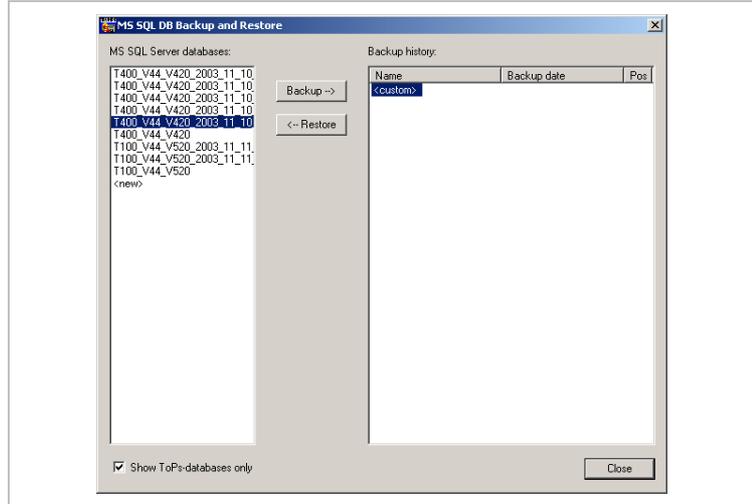
<div align="right">Fig. 37580</div>

3. Press *Backup*.

   A dialog box appears in which you can enter where the back-up file is to be saved.

4. Select the storage location and press *Save*.

   The back-up procedure is started. The following message appears afterwards

Backup completed   Fig. 37581

Restoring a backed up database	1. Select the database you want to restore from the left-hand list.
	There is a list of all backup copies of this database in the "Backup history" field.

The backup copy you have created is not displayed.
The backup copy paths may become lost after an initial installation or server problems.

   ➢   Select the backup copy manually. Refer to the next section for more information.
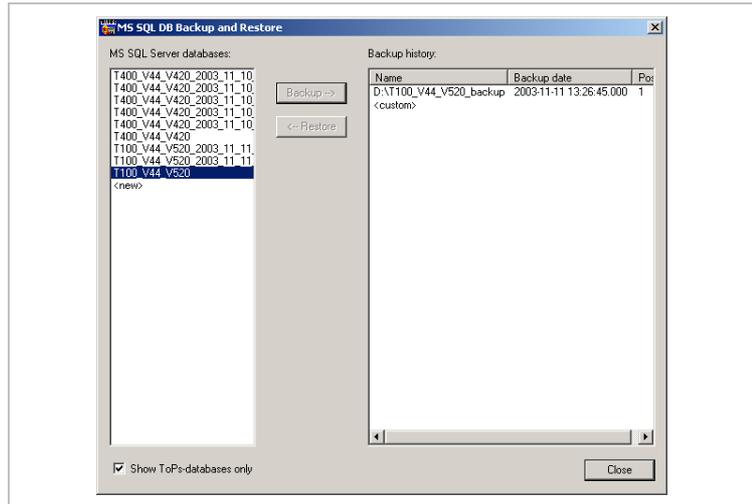
Fig. 37582

2. Select a backed up database.

3. Press *Restore*.

The database is restored.

The following message appears afterwards

Fig. 37583

Selecting a backup copy manually
It may be the case that the backed up database does not appear in the "Backup history" field after server problems or an initial installation.
In this case you can select the backed up database manually.

1. Select the database you want to restore from the left-hand list.
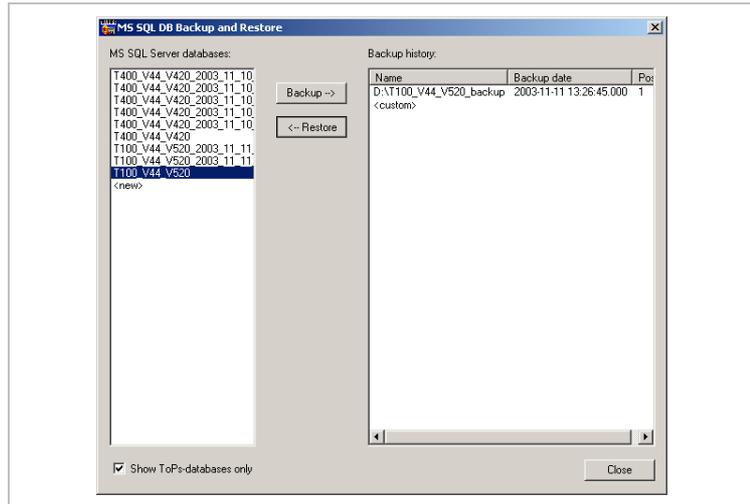
Fig. 37584

2. Select *<custom>* from the "Backup history" field.

3. Press *Restore*.

   The following dialog box appears:
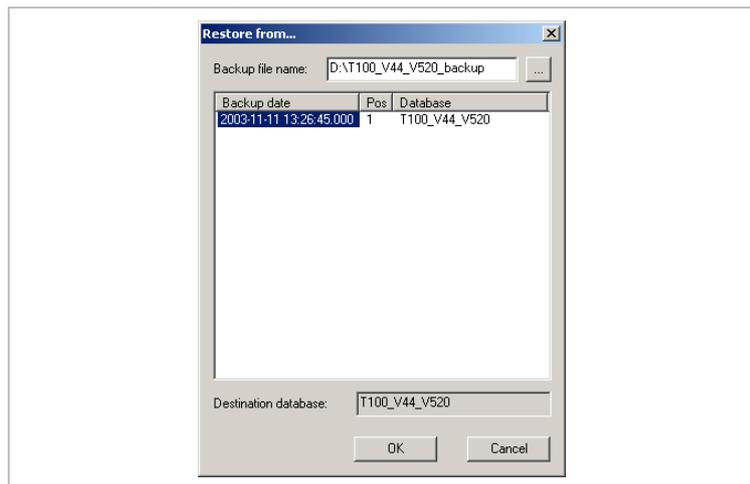
Fig. 37585

4. Enter the path to the backup copy.

   ➢ Enter the path to the database in the "Backup file name" field.

   or

   ➢ Press the button *...* next to the input field and search for the database via the selection dialog.

   All backup copies of this database appear in the bottom field.

5. Select the backup copy from the list and press *OK*.

   The data is restored.

   An appropriate message then appears on the screen.

6.6 Administering licenses (ToPs server)

Aladdin monitor   The "Aladdin monitor" program administers your licenses using a network dongle. It is automatically installed as part of the ToPs server installation.
You can view all licenses of your ToPs product and also install new licenses.

Displaying existing licenses

Starting the license monitor   1. Choose *Start >Programs >Aladdin Monitor >AKS Monitor* on the ToPs server.
The program will start.

2. Select your ToPs server computer in the left-hand navigation liste under "HL server".
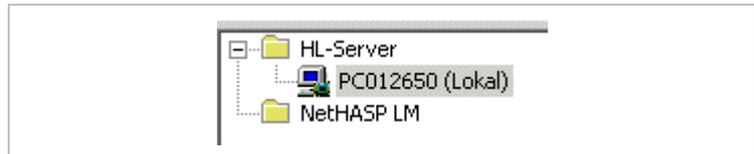
ToPs server   Fig. 38739

Enter the module address   3. Enter the number `21456` in the field "Moduladresse" and press *Add*.
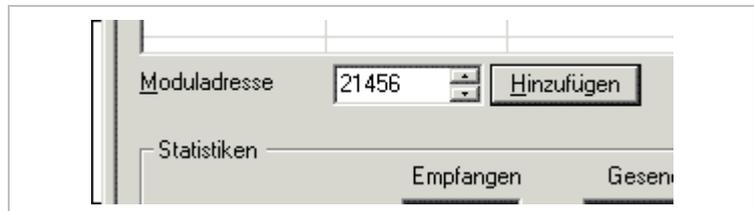
Module address   Fig. 38740

The module "21456" is displayed under the PC name.

Module 21456   Fig. 38933

Choose the module   4. Select the module "21456".
All license information concerning the module is displayed.

Hardlock Information

Module address: 21456   Port: 0x0378   RUS Id: 0x0000000B

License Information

Slot	Licenses	Used	Peak	Exp. Date	Counter	Max. Counter
0	250	0	3	-		
1	5	0		-		
10	30	0		-		
15	30	0		-		
20	30	0		-		
25	30	0		-		
30	30	0		-		
40	30	0		-		
46	30	0		-		
47	30	0		-		
50	30	0		-		
55	30	0		-		
57	30	0		-		
60	30	0		-		
65	30	0		-		
70	30	0		-		
80	30	0		-		
90	30	0		-		
91	30	0		-		
92	30	0		-		
95	30	0		-		
100	30	0		-		
110	30	0		-		

Update ...

License information   Fig. 38934

Every TRUMPF product licensed via a network dongle occupies a so-called "Slot" on the dongle.

The numbers of the slots can be seen in the column "Slot". The column "Licenses" shows the licenses available for each slot and the column "Used" shows those licenses currently in use.

Slot occupation   A list of the slot numbers for TRUMPF products can be found on page 65.

Installing new licenses

When new licenses are ordered, the following files are received from TRUMPF:

- One file with the extension '*.vtc'.
  It contains the license information for the network dongle.
- File 'tops_pwd'.
  It contains the new password information for ToPs.

Have both files at hand for the installation of the new licenses.

Installing new licenses

1. Display existing licenses in the Aladdin monitor (refer to previous section).

2. Press the button *Update* under the list of license information.
   The following dialog box appears:
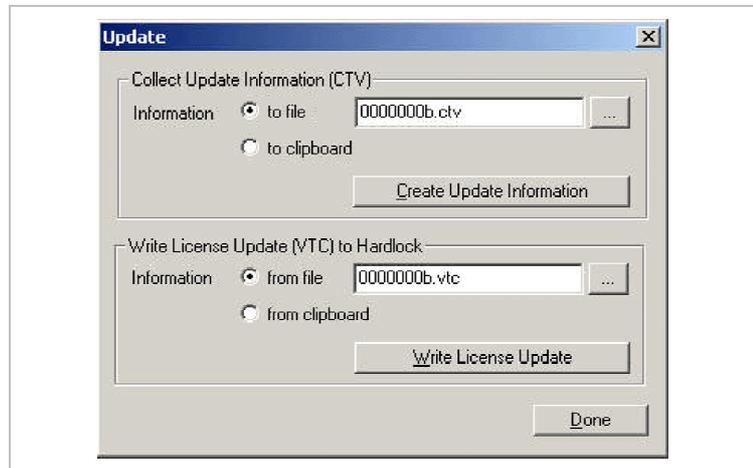
License update   Fig. 38935

3. Select the option "from file" under "Write License Update (VTC) to Hardlock".

4. Choose the new license file ('*.vtc') using the button "...".

5. Press *Write License Update*.
   The new licenses are installed.

6. Press *Done*.
   The dialog field is closed.

Copy the file 'tops_pwd'

7. Copy the new file 'tops_pwd' to the ToPs server into the folder '<drive>:\TRUMPF.NET\ToPs.NET\TRUMPF\'. Overwrite the old file.

Slot occupation

The following table shows the occupation of the slots on the network dongle:

Slot number	PRODUCT
10	ToPs
10	TOPS100
15	TOPS100_LITE
20	TOPS150
25	TOPSCAD
30	TOPS200
35	TOPS200_LITE
40	TOPS250
45	TOPS250_LITE
46	TOPS300
47	TOPS300_LITE
50	TOPS400
55	TOPS600
57	TOPS800
58	TOPS900
60	IGES
65	SVG
70	DXF
80	MI
85	DSTV
90	FRNEST
91	TILE_NEST
92	TOPS_NEST
95	NEST_GMT
100	SIMILAR_SHEET
110	GTS
120	GTS150
130	HPGL
140	DIGIT
150	TRANSFER
155	MICROWELD
156	TUBEPROFILE
160	PP
170	FMC
172	GRIP

Slot number	PRODUCT
174	SORT
175	LIFTMASTER
176	SORTMASTER
180	AUTOTEC
190	API
195	NETWORK_DB
200	NC_EXPORT
205	AUTO_BEND
206	CALC_BEND
220	MEASURING
230	PDM
240	TOPS900_EXPERT
241	TOPS900_CUSTOM
300	TIMS
400	SLM
500	NC_CONVERTER
505	ABC_TOOL
550	SOFTLOCK
555	CALCULATION
560	LABELPRINT
600	TQ_OFFLINE
601	ASCONA_REF
602	ASCONA_MES
603	ASCONA_DXF
705	LASER_3D
706	FIXTURE CONSTRUCTION
707	CATIA_V42_READ
708	CATIA_V42_WRITE
709	IGES_3D_READ
710	IGES_3D_WRITE
711	VDAFS_READ
712	VDAFS_WRITE
713	CATIA_V50_READ
714	CATIA_V50_WRITE

Slot occupation   Tab. 5

Index

TRUMPF