

# **WinPlant**

## **BLACK**

**Automated Directory Of Steel Plants**

**version 3.5**



**Quantor-Soft Metal**

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  - 1) The CD, reference materials (User's Guide) and Security Device are not defective.
  - 2) The reference materials (User's Guide) are complete and contain all the information that **Quantor** deems necessary for use of the **Software**.

3) The **Software** program functions substantially as described in the reference materials (User's Guide), provided that the **Software** program is used on the computer hardware and operating system for which it was designed.

- If the CD on which the program is furnished and Security Device are defective, return them to **Quantor** for replacement during the warranty period. This Limited Warranty is for 12 month from delivery, as evidenced by your receipt. Defective CD and Security Devices will be replaced at no charge, damaged Devices will be replaced at 45\$ per Device, upon return of the damaged Device.

***Quantor will not replace the lost Security Devices.***

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## TABLE OF CONTENTS

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### Table of Contents

|  |            |
|--|------------|
| <b>1. Introduction</b>   | <b>1-1</b> |
| <b>2. WinPlant Installation</b>  | <b>2-1</b> |
| 2.1. Requirements for Hardware and Windows Versions                              | 2-1        |
| 2.2. Installation Process  | 2-2        |
| 2.3. Validation of Installation  | 2-7        |
| 2.4. Re-Installation of the Software   | 2-9        |
| <b>3. Getting Started</b>  | <b>3-1</b> |
| 3.1. The Run and the Exit of the Software  | 3-2        |
| 3.2. The Main Menu   | 3-3        |
| 3.3. How to Find the Required Plant in the Database                              | 3-5        |
| 3.4. How to Obtain Information on the Selected Plant<br>and Its Products         | 3-7        |
| 3.5. How to Find Manufacturers of Required Steel Products                        | 3-9        |
| <b>4. User's Manual</b>  | <b>4-1</b> |
| 4.1. Database  | 4-1        |
| 4.1.1. Database Structure  | 4-1        |
| 4.1.2. How to Get Information on Plants, Their Products, Steels<br>and Standards | 4-6        |
| 4.2. Search for Manufacturers of Required Steel Products                         | 4-17       |
| 4.2.1. Search Criteria   | 4-17       |
| 4.2.2. How to Input Search Criteria  | 4-20       |
| 4.2.3. View of Search Findings   | 4-29       |
| 4.2.4. Saving and Printing of Search Findings                                    | 4-34       |
| 4.3. How to Operate with Help  | 4-41       |
| <b>5. Software Operation Examples</b>  | <b>5-1</b> |





## 1. Introduction

The **WinPlant. BLACK** software is intended for searching manufacturers of required steel products in Russia, Ukraine and other CIS countries.

The database contains the data on more than **200 plants and holding companies** of all CIS countries and Baltic states, which produce *steel ingots and concast billets, flat rolled products, long rolled products, tubes and pipes, wire, roll-formed profiles, wheels, tyres, rings, forgings*.

### Information on each plant includes:

- mail address, contact phone and fax nos. of main departments, E-mail address, Web-site, teletype and telex;
- list of main product distributors and their contact data;
- list of main process equipment;
- detailed information on products with reference to valid standards on assortment and specifications, steel grades and main dimensions.

### The WinPlant. BLACK software helps you:

- to obtain detailed information on plants and their product range;
- to find plants which make the products of your concern;
- to get reference data on steel grades and valid standards.

The present User's Guide consists of the following sections:

**Section 2 WinPlant. BLACK Installation.** How to install the software to your PC and prepare it for operation is outlined here.

**Section 3 Getting Started.** This section describes how to start the software, and what first simple actions shall be made by an user to find the plant required to him and to obtain the reference information on the plant as well as to find plants, which make the products, he is interested in.

**Section 4 User's Manual** depicts the main concepts of the software operation. It contains the detailed information on operating techniques. This section describes the database structure and the product classification applied in it, the search principles and criteria, the operation with all software procedures as well as with the Help.

**Section 5 Software Operation Examples** shows examples how to search for manufacturers of particular product types.

**The authors reserve the right**

*to introduce amendments into the software in the process of operating the program. That is why, before you start working, it is so important to get acquainted with the file **Read Me** where we specified **the differences of the version purchased by you from the basis version** described in the User's Guide.*

You can easily contact the software authors by:

**Phones: (+7 095) 234 4905, (+7 095) 232 2691**

**Fax: (+7 095) 234 4905**

**E-mail: [winplant@quantor.com](mailto:winplant@quantor.com)**

**Internet: <http://www.metaldata.info>**

We would ask you to return filled-in registration forms to the following address:

**Quantor-Soft Metal, P.O. Box 39, 119049 Moscow, Russia**

or to sent them to us by fax or by E-mail.

# WinSteel – Automated Directory of Steel Grades

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## 56,000 steel grades of 28 countries at your fingertips

If need information on Russian steel grades and their correspondence to the foreign ones we have a pleasure to present our product WinSteel – Automated Directory of Steel Grades.



WinSteel is an original user-friendly software that helps you to find the correspondence between steel standards used in your country and the steel standards of the other industrial countries.

WinSteel, ver. 5.0 database contains data on **more than 56,000 steel grades of 25 countries**: CIS, USA, Germany, UK, Japan, France, Italy, Canada, Finland, Norway, Sweden, Austria, Spain, Switzerland, Belgium, Korea, Australia, Brazil, China, Poland, Hungary, Czechia & Slovakia, Bulgaria, Romania, former Yugoslavia, and grades included in European (EN) and two international (ISO and UIC) standards.

### Features:

- Ability to find foreign analogues for steel specified in any national standard;
- Two levels of the analogue search: the easiest way to use Fast Search and the Advanced Search for specialists;
- Ability to find steel if you know only its chemical composition;
- Search for the steel grade in the database by Mask (used if you don't know correct grade designation).

### Benefits:

- Fast searching of the data on compositions and analogues within seconds;
- Ensure that you have the most complete and up-to-date information on steel grades;
- Printing and saving data on grades and analogues;
- Comprehensive User's Guide with illustrations of operation with the software and context Help;
- Possibility to operate with all major network hardware and software.

### With your purchase you receive:

- Unlimited license to use the software and our technical Support Service;
- New software releases every quarter without additional payments during the warranty period of 12 months;
- Free access to **WinSteel Online** during the warranty period;
- Ability to subscribe to our **Annual Support Service** after the warranty period;
- Hot information on new software versions with ability to buy upgrades;
- Discounts for another information software of Quantor-Soft Metal.

### Users:

Now we have **near 700 WinSteel users** in Russia and other CIS countries, USA, UK, Germany, Japan, Italy, Spain, Austria, Norway, Sweden, Switzerland, Finland, Korea, China, Turkey, Mexico, Hong Kong, Singapore, Poland, Hungary, Czech and Slovak Republics, Iran, Lithuania, Latvia, Estonia.

- **Metallurgical and machinery plants:** Severstal, MeChel, Novolipetsky iron & steel works, Magnitogorsk iron & steel works - MMK, Kuznetsky iron & steel works - KMK, Norilsky Nickel, Serp i Molot - SIM, Izhorastal, Oskol electrical iron & steel works - OEMK, Zaporozhstal, Stupinsky metallurgical plant, AvtoVAZ - LADA, Azovmash, Sibtyazhmash, Filit, Kurganmashzavod, Pervouralsky, Volzhsky and Seversky tuberolling plants, Cherepovetsky steelrolling plant, Anshan iron & steel works (*China*), VSZ (*Slovak Republic*) and others;
- **Educational and research institutes:** Moscow Steel and Alloy Institute, Perm Politechnical Institute, Byelorussian State Politechnical Academy, Metallurgical Institute of Ukrainian Academy of Sciences;
- **Russian foreign trade associations:** VO Promsyrioimport - PROMSI, VO Avtoexport, VO Rosvooruzhenie, VO Mashinoimport, VO Techsnabexport - TENEX, VO Truboimpex, VO Mashinoexport - SOMAX, VO Rostechexport, VO Techintorg - TEXNO, VO Dalintorg VO Energomashexport - ENERGO, VO Zarubezhsvetmet and others;
- **Trade companies:** Balli, Multicom Ltd. (*UK*), Rudolf Robinson Steel Co., Cargill Enterprises Inc. (*USA*), Thyssen AG, Griff GmbH, Deutsche Babcock AG, Preussag Handel GmbH (*Germany*), Nichimen Corp., Sumitomo Corp., Nittets Shoji Co., Tokyo Boeki (*Japan*), Danieli SpA, Loterious SpA (*Italy*), Glencore International, Newco AG (*Switzerland*), Rautaruukki OY (*Finland*), Sandvik (*Sweden*), Nordex GmbH (*Austria*), Daewoo Corp., Hyundai Corp., Posko Corp. & Kolon Corp. (*Korea*), MetalsRussia Corp., MetalsAsia Corp. (*Hong Kong*), Tekfen Foreign Trade Inc. (*Turkey*), Skonto Metals, Severstallat, Kora+ (*Latvia*), Trade House Metallurgia, Interspetsstal, Azovmet, Azovimpex and many others.

### Online - version

**WinSteel exists in two forms now: offline and online.** To see WinSteel Online please visit [www.metaldataline.com](http://www.metaldataline.com).

**Please notice that if you buy WinSteel on CD-ROM we will give you access to WinSteel Online during a warranty period of 12 months free of charge.**

**Phones: +7 095 234 49 05, +7 095 232 26 91**

**Fax: +7 095 234 49 05**

**Address: P.O. Box 39, 119049 Moscow, Russia**

**Internet: [www.metaldataline.info/winsteel.htm](http://www.metaldataline.info/winsteel.htm)**

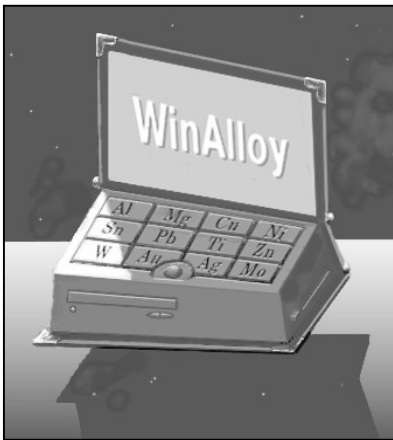
**E-mail: [winsteel@quantor.com](mailto:winsteel@quantor.com)**

# WinAlloy – Automated Directory of Non-Ferrous Metals and Alloys

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## 27,000 non-ferrous of 33 countries on your PC

If you are also interested in non-ferrous metals and alloys, we are glad to present you our software WinAlloy – Automated Directory of Non-Ferrous Metals and Alloys.



WinAlloy is an original user-friendly software that helps you to find the correspondence between non-ferrous metals and alloys used in your country and the grades of the other industrial countries.

WinAlloy, ver. 1.5 database contains data on **more than 27,000 metals and alloys in 30 countries**: CIS countries, USA, Germany, UK, Japan, France, Italy, Canada, Finland, Norway, Sweden, Austria, Switzerland, Spain, Belgium, Netherlands, Czech & Slovak Republics, former Yugoslavia, China, Australia, India, Mexico, Argentina, South Africa and metals & alloys included in European (EN), International (ISO) and COPANT standards.

### Features:

- Ability to find foreign analogues for alloy specified in any national standard;
- Two levels of the analogue search: the easiest way to use Fast Search and the Advanced Search for specialists;
- Ability to find an alloy if you know only its chemical composition;
- Search for the alloy grade in the database by Mask (used if you don't know correct grade designation).

### Benefits:

- Fast searching of the data on compositions and analogues within seconds;
- Ensure that you have the most complete and up-to-date information on metals and alloys;
- Printing and saving data on grades and analogues;
- Comprehensive User's Guide with illustrations of operation with the software and context Help;
- Possibility to operate with all major network hardware and software.

### With your purchase you receive:

- Unlimited license to use the software and our technical Support Service;
- New software releases every quarter without additional payments during the warranty period of 12 months;
- Free access to **WinAlloy Online** during the warranty period;

## WinAlloy Software

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- Ability to subscribe to our **Annual Support Service** after the warranty period;
- Hot information on new software versions with ability to buy upgrades;
- Discounts for another information software of Quantor-Soft Metal.

### Users:

Now we have **near 150 WinAlloy users** in Russia and other CIS countries, USA, Germany, Canada, Sweden, Spain, Switzerland, Belgium, Korea, Greece, Czech and Slovak Republics, Singapore, Iran, Indonesia, Vietnam, Latvia, Estonia.

- **Industry:** ABB Power Generation Division (*USA*), Alfa Laval (*Sweden*), K.Hitzos Tube Mills (*Greece*), Philips Optical Storage (*Singapore*), Bogoslovsky Aluminium Plant, VolgaBurMash, Kaluga Turbin Plant, Caterpillar Tosno, Moscow Mint, Solikamsk Magnesium Plant, JSC Svetogorsk, Stupino Metallurgical Plant, Uralelectromed', Ural Plant of Precision Alloys (*Russia*), Artyomovsk Non-Ferrous Metal Processing Plant, Turbine Blade Plant Zarya, Motor Sich (*Ukraine*) and others;
- **Information and Consulting:** SGS Commercial Testing & Engineering Corp. (*USA*), Ingenieurburo Victoria Garten (*Germany*), SGS Supervise (Suisse) (*Switzerland*), Korea Institute of Machinery & Materials (*Korea*), SGS Ukraine (*Ukraine*), TU-VSB (*Czech Republic*), Rating Agency Expert (*Russia*);
- **Foreign trade companies:** Bel-Kap-Steel (*USA*), Isan-Metall GmbH (*Germany*), Marubeni Benelux (*Belgium*), Mildsider (*Spain*), Daewoo and Dae Song (*Korea*), Renimex (*Czech Republic*), EuroMet and Latvijas Metals (*Latvia*), EMEX Ltd. (*Estonia*) and others;
- **CIS trade companies:** VO Aviazapchast', Aviapromnaladka, Dnister-M, InterRos-Metal, Koalko, Almed, Nikkom, Resourse, TAS, Metal-Market, Ankor, Maglyug, Krikonika, Metalloresursy, Scrap, Ferrosplavkomplekt, Forum and others.

### Online - version

**WinAlloy exists in two forms now: offline and online.** To see WinAlloy Online please visit [www.metaldataline.com](http://www.metaldataline.com).

**Please notice that if you buy WinAlloy on CD-ROM we will give you access to WinAlloy Online during a warranty period of 12 months free of charge.**

**Phones:** +7 095 234 49 05, +7 095 232 26 91

**Fax:** +7 095 234 49 05

**Address:** P.O. Box 39, 119049 Moscow, Russia

**Internet:** [www.metaldataline.info/winallloy.htm](http://www.metaldataline.info/winallloy.htm)

**E-mail:** [winallloy@quantor.com](mailto:winallloy@quantor.com)

# WinPlant. RED – Automated Directory of Non-Ferrous Plants

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## The best knowledge of Russian metal plants

If you need detailed information on manufacturers of non-ferrous products in CIS countries also we have a pleasure to offer our software WinPlant. RED - Automated Directory of Non-Ferrous Plants.

**WinPlant. RED** software is intended for searching manufacturers of required metal products in Russia, Ukraine and other CIS countries.



The database contains data on more than **60 producers** in CIS, manufacturing:

- *ingots, pigs and concast billets,*
- *flat products,*
- *long products,*
- *tubes,*
- *wire,*
- *roll-formed profiles,*
- *forgings,*
- *wheels, tyres, rings,*
- *anodes and cathodes,*
- *solders.*

### Information on each plant includes:

- mail address, contact phone and fax nos. of main departments, E-mail address, Web-site, teletype and telex;
- list of main product traders and their contact data;
- list of main process equipment;
- detailed information on products with references to standards on assortment and specifications, with indication of alloys and main dimensions.

### WinPlant. RED software helps you:

- to obtain detailed information on plants and their product range;
- to find plants which make the products of your concern;
- to get reference data on alloy grades and valid standards.

### The ways of search:

The search for information on manufactures of non-ferrous products is performed by following parameters:

- type of product,
- standard (GOST's, TU or foreign) on assortment and specifications,
- alloy grades,
- base dimensions of the product.

The search will be carried out among *all plants* included in the database, among the plants situated at *the chosen region* or among the plants *selected by User*.



## WinPlant. RED Software

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***Information in the database of WinPlant. RED software is currently corrected and updated. Every three months we issue new software releases.***

### **Benefits:**

- Fast searching of the manufactures of products you need within seconds;
- Ensure that you have the most complete and up-to-date information on CIS non-ferrous plants;
- Printing data on plants, products and alloys;
- Context Help;
- Comprehensive User's Guide with illustrations of operation with the software;
- Possibility to operate with all major network hardware and software.

### **With your purchase you receive:**

- Unlimited license to use the software;
- Our technical Support Service;
- New software releases every quarter without additional payments during the warranty period of 12 months;
- Free access to **WinPlant. RED Online** during the warranty period;
- Ability to subscribe to our **Annual Support Service** on completion of the warranty period;
- Hot information on new software versions with ability to buy upgrades;
- Discounts for another information software of Quantor-Soft Metal.

### **Online - version**

**WinPlant. RED exists in two forms now: offline and online.** To see the online version please visit [www.metaldatabase.com](http://www.metaldatabase.com).

**Please notice that if you buy WinPlant. RED on CD-ROM we will give you access to the WinPlant. RED Online during a warranty period of 12 months free of charge.**

**Phones: +7 095 234 49 05, +7 095 232 26 91**

**Fax: +7 095 234 49 05**

**Address: P.O. Box 39, 119049 Moscow, Russia**

**Internet: [www.metaldatabase.info/winplant.htm](http://www.metaldatabase.info/winplant.htm)**

**E-mail: [winplant@quantor.com](mailto:winplant@quantor.com)**

## 2. WinPlant. BLACK Installation

The installation of the **WinPlant. BLACK** software on the User's PC is easy and, as a rule, does not require the presence of its authors. In this section, we will describe the minimum requirements your computer should meet and inform you how installation is to be done.

### 2.1. Requirements for Hardware and Windows Versions

To operate with the **WinPlant. BLACK** software, your PC should meet the following requirements:

- be compatible with computers *IBM PC Pentium / Pentium II / Pentium III / Pentium IV*;
- have at least *16 Mb* of RAM;
- have a CDR.

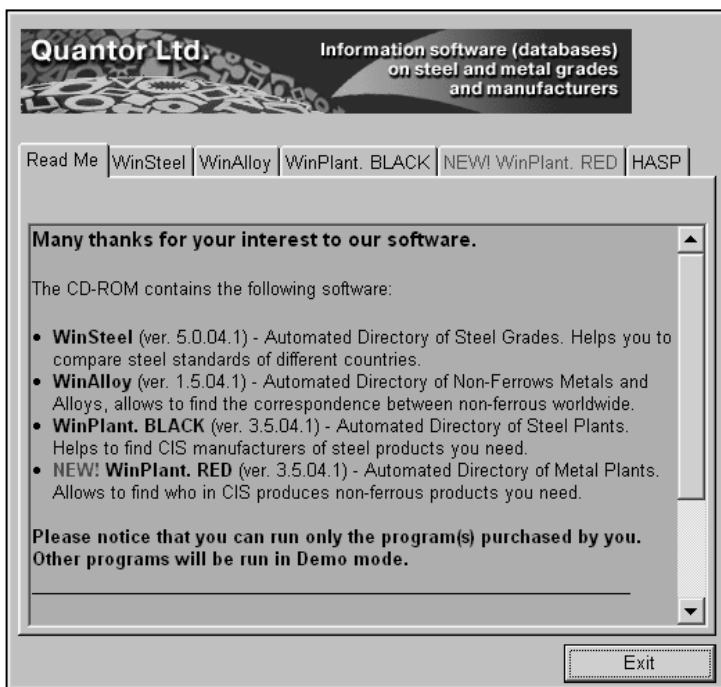
The **WinPlant. BLACK** software operates under *Windows 95 / 98 / NT / 2000 / ME / XP*.

## 2.2. Installation Process

In order to install the software, it is necessary to have at least **70.0 MB** of free space on the hard disk of your computer. During the installation, a directory with the name chosen by you will be set up on the hard disk (that directory is set up automatically, and by default it is set up on disk **C:** and named **\Program Files\Quantor\WinPlant.BLACK**).

### How to run the installation

The software is installed from CD-ROM you have received. It is most convenient to install the software by using the **AutoRun** program. This program runs automatically when you insert the CD-ROM in your PC. The window of the **AutoRun** program consists of several pages, and the toggling between them can be done by means of the Tabs located in its upper part (see **Fig. 2.1.**). Their purpose is described below:

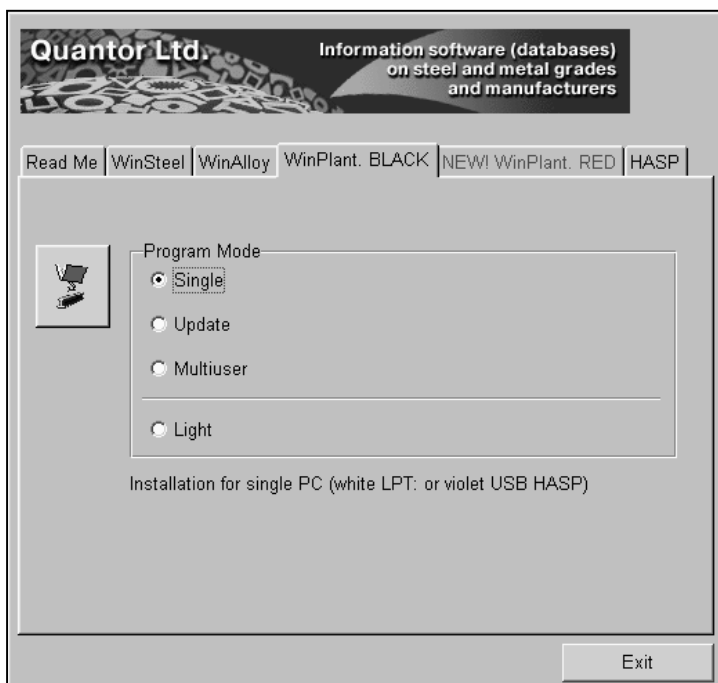


**Fig. 2.1** AutoRun program. Main page

- the **Read Me** Tab opens the page that describes the content of the CD-ROM acquired by you;

- the pages **WinSteel**, **WinAlloy**, **WinPlant. BLACK** and **WinPlant. RED** are used for the installation of the above software;
- the **HASP** page contains drivers and other software used in the Security Device operation.

In order to start the procedure of installation, you should go to the **WinPlant. BLACK** page. By means of the relevant *Radio Button*, you should select **Program Mode** in the central part of the page and then click the **WinPlant** icon located on the left side.



**Fig. 2.2 AutoRun program. WinPlant. BLACK**

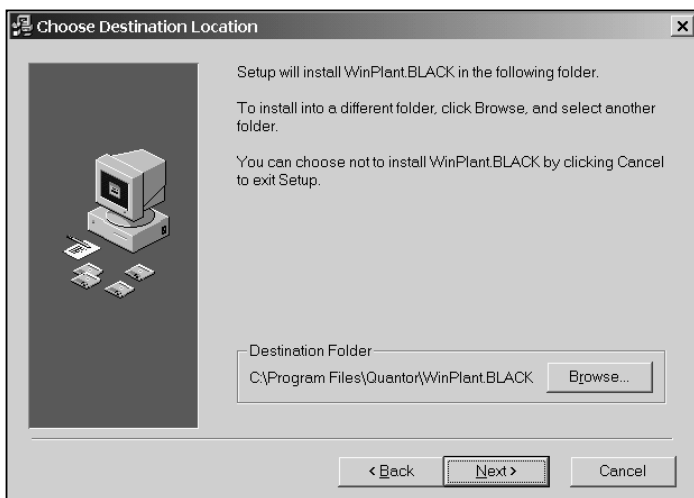
Please note that the CD-ROM contains both **Single** and **Network** versions of the software. While installing the software, you should select the version (**Program Mode**) that corresponds to the version acquired by you. For your information: *white LPT: Security Device or violet USB one is supplied with the Single version*, whereas *the red Device is supplied with the Network version*.

**The Light version** does not require the Security Device. This version with considerably reduced database, along with the Demo-version is used to familiarise the user with the main features of the software.

If the software was already installed on your PC and you want to install its new release over the old one you should select the *Update program mode*.

In case the **AutoRun** program has not run in your PC for any reason, you can also install the software manually. The installation starts with the run of the **setup.exe** executable file, which can be found on the CD-ROM in the **\\WinPlant.BLK\\Single** directory (for Single version) or in the **\\WinPlant.BLK\\Network** directory (for Multi-User version). For users not acquainted with Windows, we will describe how to run this file.

1. Click the **Start** button.
2. Select the **Run...** in the appearing menu. The **Run** window will be displayed.
3. Enter the following in the **Open** string:  
**[name:]\\WinPlant.BLK\\Single\\setup.exe**,  
where **[name:]** is a name of your CDR.
4. Click the **OK** button to run the installation.



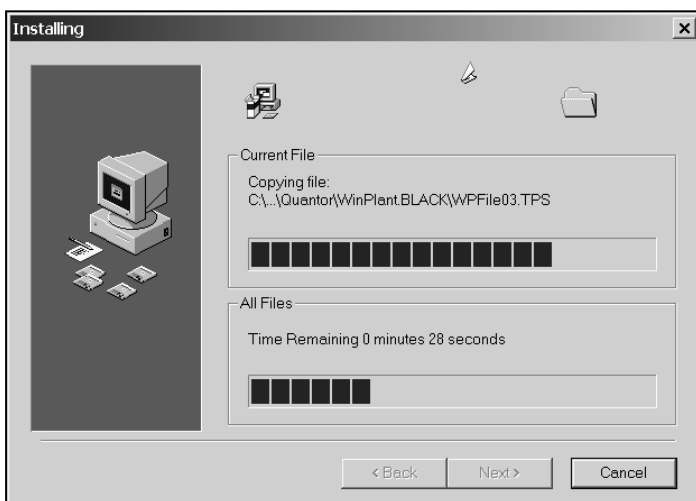
**Fig. 2.3 Selection of a directory for installation**

## Installation process

After the start, the main window of the installation program appears on the screen. This window contains basic information on the software, with which you should familiarise yourself before the installation. After reading, you should click the **Next >** button, in this way passing to the next page (see **Fig. 2.3**).

By default, the software is installed in the `\Program Files\Quantor\WinPlant.BLACK` directory on disk **C:**. If you want to install the software in another directory, click the **Browse...** button and indicate another path in the appearing window. When the directory is selected, click the **Next >** button to continue the installation. If you for any reason have to interrupt the installation, click the **Cancel** button.

The process of installation (see **Fig. 2.4**) is visualised on the screen by means of two Progress Bars. The upper Bar reflects the status of copying the current file, and the lower Bar shows the percentage of the program fulfilled and the time left till the end of copying.



**Fig. 2.4 The course of installation process**

After the successful installation, the window with the appropriate message will be displayed on the screen. To exit the installation program, it is necessary to click the **Finish** button.

As a result of the installation, you will have the **WinPlant. BLACK** icon on the DeskTop of your PC. Use it to run the software.

Besides in the **Programs** menu (called by the **Start** button clicking) the **WinPlant. BLACK** menu with six items will appear. Note their purpose:

- the item **WinPlant. BLACK** is used to run the software;
- the item **WinPlant Help** is used to call the Help;
- the item **Read Me** serves to call the text editor for reading the file of the same name;

- the item **WinPlant INI File** is used to make changes in the INI file of the software;
- the items **HASP Driver** and **Remove HASP Driver** are intended for installation and removal of the Security Device driver<sup>1</sup>.

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<sup>1</sup> If you install the *Network version* of the software the **NetHASP INI File** item will be placed in the **WinPlant. BLACK** menu instead of the **HASP Driver** and the **Remove HASP Driver** items.

### 2.3. Validation of Installation

Make sure of the presence of the **WinPlant. BLACK** icon on the DeskTop. Then connect the *Security Device* supplied with the software to your PC. We deliver Security Devices of two types: white (for single version) or red (for the multi-user one) LPT: – plastic box with two steel connectors and violet (for single version) or red (for the multi-user one) USB, like as a key trinket.

To connect the LPT Security Device disconnect the printer cable from the computer and insert the Security Device to this port, then re-connect the printer cable to the Security Device. The USB Security Device is simply inserted in the corresponding port of your PC.

Then you can try to run the software by double clicking of the **WinPlant. BLACK** icon. If you have carried out the installation correctly, and installed the Security Device, the software will start operation: the main window and menu will appear on the screen.

In case you:

- forgot to *insert the Security Device*,
- inserted it *in a wrong way*,
- inserted *not the device* that was supplied to you with the program,

the software would not run, and an appropriate message will be displayed.

If the software does not run:

1. First of all, check if the Security Device is connected correctly.
2. Click the **Start** button, and then step by step select the **Programs**, the **WinPlant. BLACK** and the **WinPlant INI File** menu items. When you click the last one the set-up program file **winplant.ini** will be opened. Find the string **ProgramMode=...** in this file. If you purchased the *Single version* (white LPT: or violet USB device) the right value of this string is **ProgramMode=Memo**. For *Network version* (red LPT: or USB device) the correct string is **ProgramMode=Net**.
3. Try to re-install the Security Device driver. For doing this, firstly delete the installed driver by clicking of the **Remove HASP Driver** item of the **Start / Programs / WinPlant. BLACK** menu. Then you should install the driver again using the **HASP Driver** item of the same menu. When the message appears that the driver has been installed successfully, *restart your PC*.

If the result is unsuccessful, delete all software files from the hard disk and the directory where they were stored, restart your PC and repeat the process of installation (during the first installation some malfunction could have taken place). If the new run fails again, you should address our Support Service using hot line E-mail address, telephones or fax given in this User's Guide.



*We draw your attention that after you have installed the software and it proved to be workable, you will have to fill in the attached Registration Form and send it to the address given in Chapter 1 (you can also send your Form by fax or E-mail).*

*Otherwise you would be deprived of our free user service, namely:*

- *the possibility to use consultations of our Support Service;*
- *to receive new software releases each quarter during the warranty period.*

## 2.4. Re-Installation of the Software

The installation CD-ROM of the **WinPlant. BLACK** software does not contain any counters of the installations: you may re-install the software in your or other computers as many times as you wish. The process of re-installation does not differ from the original installation. If you have re-installed the software in another computer, you should connect the Security Device to that computer too.

After the re-installation from CD-ROM, your computer will have the basic version of the software. In order to save your own information on plants, which you entered in the **Remark** fields (see 4.1.2), you will have to store on a separate diskette the file

**wpfileum.tps**

When the installation is over, it would be necessary to copy the above file from the diskette over the existing file of the same name in the directory where the software has been re-installed.

We also recommend you to save the above file periodically in the process of operation, even if you are not going to reinstall the software. It will save the information entered by you in case of failure or breakdown of the computer.

***We draw your attention to the fact that in accordance with the License Agreement, a simultaneous operation of the software on several computers is prohibited.***

If you need to do so, you can address Quantor-Soft Metal or your distributor and to buy the lacking copies at a reduced price or to purchase the **Multi-User version** of the software.



### 3. Getting Started

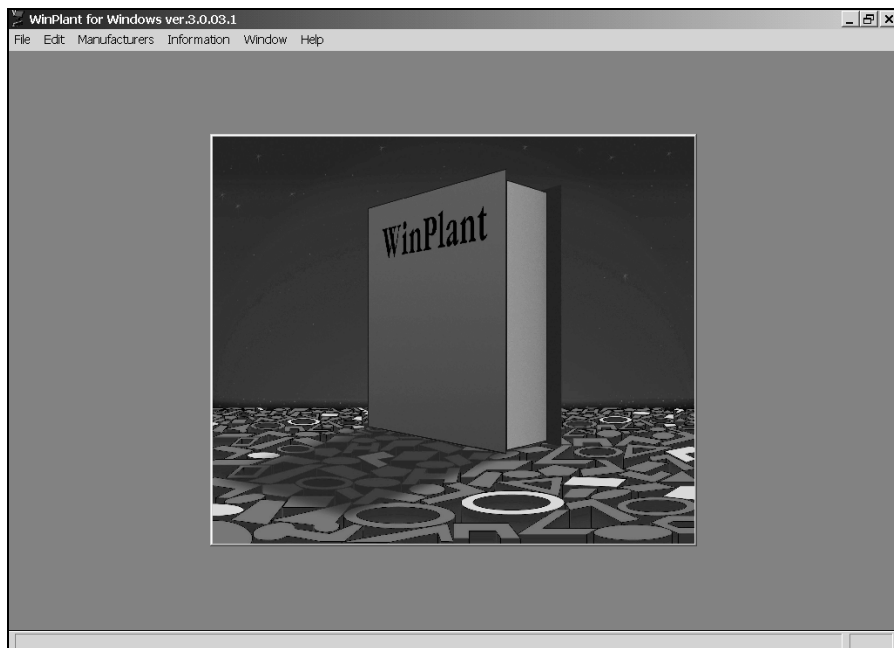
This section gives the brief data that will help you:

- to start the **WinPlant. BLACK** software,
- to exit the software,
- to find the required plant in the database,
- to obtain information on the plant and its products,
- to find the manufacturers of the steel products required to you.

For more detailed information on the above-mentioned functions and other capabilities of the software go to the Section 4.

### 3.1. The Run and the Exit of the Software

The **WinPlant. BLACK** software can only be operated if you connect to your computer the **Security Device** supplied with the software. So, make sure that it is available before you start to operate.



**Fig. 3.1 The main software window**

The operation starts with running the file named **winplant.exe**. The above file can be run in a standard way by pointing the mouse on the **WinPlant. BLACK** icon created during the software installation and double-clicking the left mouse button or by means of the **WinPlant. BLACK** item of menu with the same name called by clicking the **Start** button (**Start / Programs / WinPlant. BLACK**). If you forget to insert the Security Device, the message **Security Device Not Found** would be displayed, and the software would run in Demo mode.

If the installation was done correctly, the main window of the software will be displayed (see **Fig. 3.1.**). The upper part of the window contains the main menu items, the purpose of which will be described in the next part (see **3.2**).

To exit the software use the **File** item of the main menu. For doing this, the mouse should be pointed to the **File** item of the main menu and the left mouse button should be clicked. After doing this, it is necessary to click the **Exit** item on the appearing pull-down menu.

## 3.2. The Main Menu

The **WinPlant. BLACK** software is operated by means of the items of the main menu, which are *available in all windows and procedures of the software*. In most cases when you click a main menu item the corresponding pull-down menu appears and helps you to perform the required actions.

### The Information Item

The **Information** item of the main menu is intended for getting reference information on the plants, their products as well as on steel grades and standards contained in the software database. When you click the above item of the main menu, the appearing pull-down menu consists of four items: **Plants**, **Plants by Products**, **Steel Grades** and **Standards**.

The procedure of viewing the lists of plants, steels and standards called by means of the items of the **Information** pull-down menu is explained in detail in **4.1.2**.

### The Manufacturers item

This item of the main menu is intended for the search of plants that produce the steel products required to you. Opposite to the other items of the main menu, the **Manufacturers** item does not contain a pull-down menu, so when it is clicked the search criteria input window is screened at once. For detailed information on how to operate with the search criteria input procedure go to para **4.2.2**, with viewing, printing and search findings saving procedures, go to para **4.2.3** and **4.2.4**.

Below we will briefly describe standard Windows items of the main menu: **File**, **Edit**, **Window** and **Help**. Users who are well acquainted with Windows will not learn anything new here, and they may skip the end of this section.

### The File Item

The **File** item of the main menu is intended for calling the procedure of printer selection and set-up, and also for exit the software. To perform the above actions, you should click the relevant items on the pull-down menu. The detailed information on the procedure of selection and set-up of printer can be found in Windows manuals or by addressing the specialist servicing your PC.

### The Edit Item

The **Edit** item of the main menu is intended for editing information. In most procedures of the software, information editing is prohibited and the relevant menu items are disabled. However, in some procedures connected with the viewing of text information, there is a possibility to copy information through the Windows clipboard. You can find more detailed information in appropriate Windows manuals.

## The Window Item

The **Window** item of the main menu is used for putting in order the software windows on the display and for quick toggling from one window to another. The sequencing of window lay out is done in two ways: you can select the **Tile** or **Cascade** mode. For doing this, you should click the relevant item on the pull-down menu.

The quick toggle between the windows of the software is also done by means of the above menu. To pass to the required window, you should click one of the menu items located in its lower part (under the horizontal line).

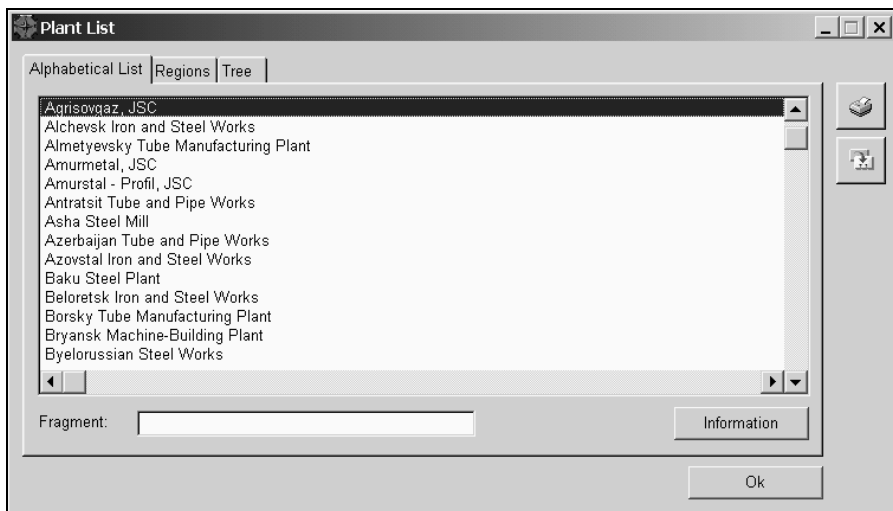
## The Help Item

The **Help** item of the main menu is meant for calling Help and additional information on the **WinPlant. BLACK** software. The first two items of the **Help** menu serve to call various windows of the Help. The operation of Help will be described in 4.3. The **How To Use Help** item on the menu will help you to get information on the Help. You can call the **About WinPlant...** item if you need information on the serial number of your software copy and the details (address, phones) of the authors and owner of the software – **Quantor-Soft Metal** company.

### 3.3. How to Find the Required Plant in the Database

In order to find the required plant in the database, do the following.

1. Click the **Information** item of the main menu.
2. Click the **Plants** item on the on-screen pull-down menu. The list-box containing the list of plants incorporated into the software database will be screened (see **Fig. 3.2**).



**Fig. 3.2. Plant List**

3. Using the mouse and scroll bars or the *locator*, find the required plant in the list-box.

Please note that the plants are alphabetized in the list-box. Apart from plants proper, the list also includes their managing companies (Eurazholding, TMK, OMK, MAIR, etc.).

**The locator** greatly facilitates your search. In order to use the locator, place the mouse arrow on any list-box record, click the left mouse button and in so doing highlight this record and then key-in the name of the plant letter by letter.

When the first character is keyed-in the cursor will be automatically placed on the first list-box record (plant) beginning with this character. When the second character is keyed the cursor will go to the record whose name starts with the



keyed-in two-character combination, and so on. As a rule, two or three characters are enough to find the required plant in the list-box.

4. If when using the mouse or the locator you failed to find the required plant try to do it with the help of its ***name fragment***. In this case not only plants' names (old and new ones) proper are looked-up but also text fields where individual data on plants and their distributors are indicated.

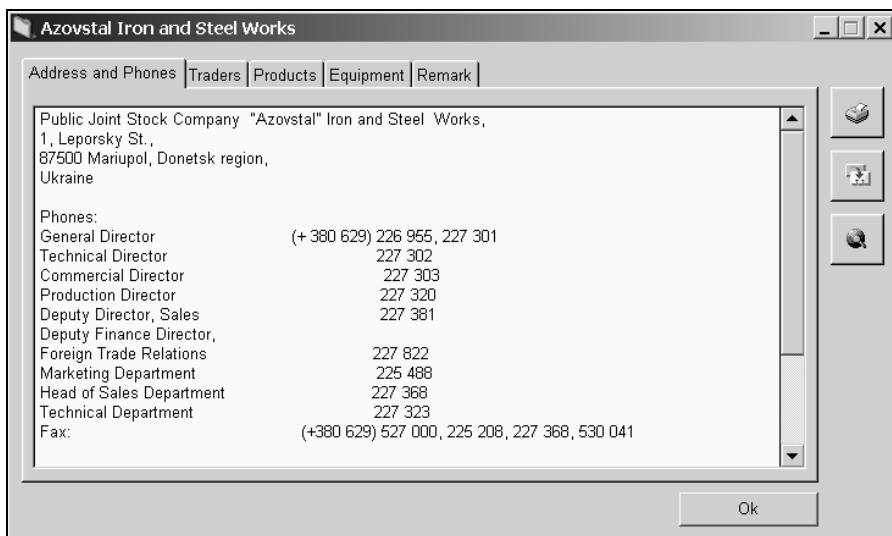
The plant's name fragment is keyed-in into the corresponding string below the list-box. Once it is keyed-in, the **Select** button appears to be clicked for making a selection. The list of plants selected by the name fragment will appear in the list-box instead of the alphabetic list.

Other ways to find the required plant in the database can also be applied. For detailed information on them, go to para **4.1.2**.

### 3.4. How to Obtain Information on the Selected Plant and Its Products

You can get the information on the highlighted plant selected in the list-box (see Fig. 3.2) using one of three techniques as follows:

- click the **Information** button located in the right lower part of the window;
- place the mouse arrow on the selected line and double click the left mouse button;
- select the **Information** item of the pop-up menu called by clicking the right mouse button.





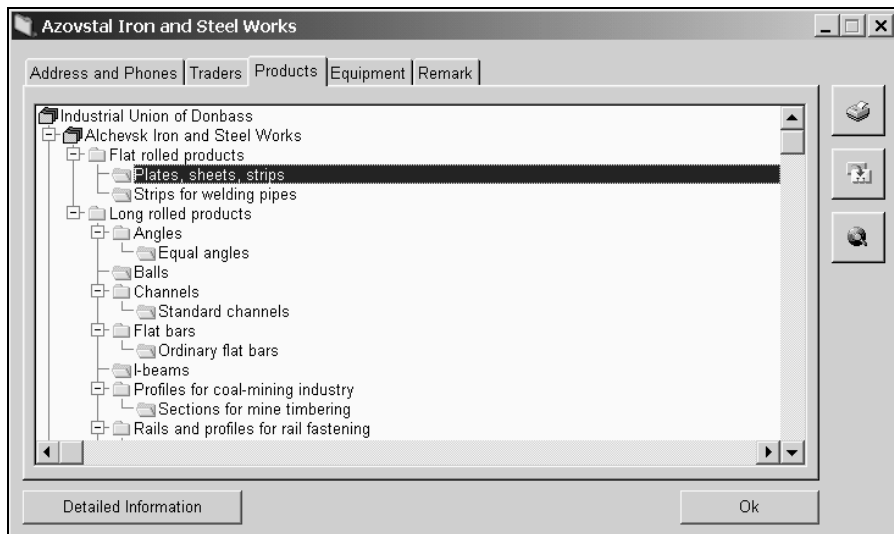
**Fig. 3.3 Information on the plant**

In the procedure of viewing the selected plant data (see Fig. 3.3) information is arranged page by page. To call the required page use the Tabs in the upper part of the window. Information on each plant as a rule contains:


- address, phone and fax numbers of main departments, teletype, telex, E-mail, Web-site, data on product quality certificates – the **Address and Phones** page;
- data on plant product distributors – the **Traders** page;
- general list of products made at the plant – the **Products** page;
- data on main process equipment – the **Equipment** page;

- additional information input by the user – the **Remark** page.


The general list of steel products made by the plant is screened as a tree (see Fig. 3.4). The lower level lines of the tree are marked with the  icons, the other level lines are marked with the  icons. For obtaining more detailed information for the required products do the following:



**Fig. 3.4 General list of products of the plant**

1. Find the required line of the low level (marked with the  icon) in the list using the mouse and scroll bars and highlight it.
2. Click the **Detailed Information** button on the left below or use the title item of the pop-up menu called by the right mouse button.
3. The above actions will result in the start of the search procedure, which will select all the information on the required product type made by the selected plant. The findings of the search are viewed using the procedure depicted in detail in para 4.2.3.

In order **to print** the information use the  button located in the right part of the

screen. The information can be also *saved in a HTML file*. Please use the  button for it.

### 3.5. How to Find Manufacturers of Required Steel Products

You will search for plants, which produce the required steel products, in three steps:

- selection and input of search criteria,
- search (proper) of producers in the database by input criteria,
- viewing, printing and saving of search findings.

#### Selection and Input of Search Criteria

Search criteria are selected and input as follows:

1. The **Manufacturers** item of the main menu is selected.
2. With the help of the screened tree of product types (see Fig. 3.5) the required steel product type is selected.

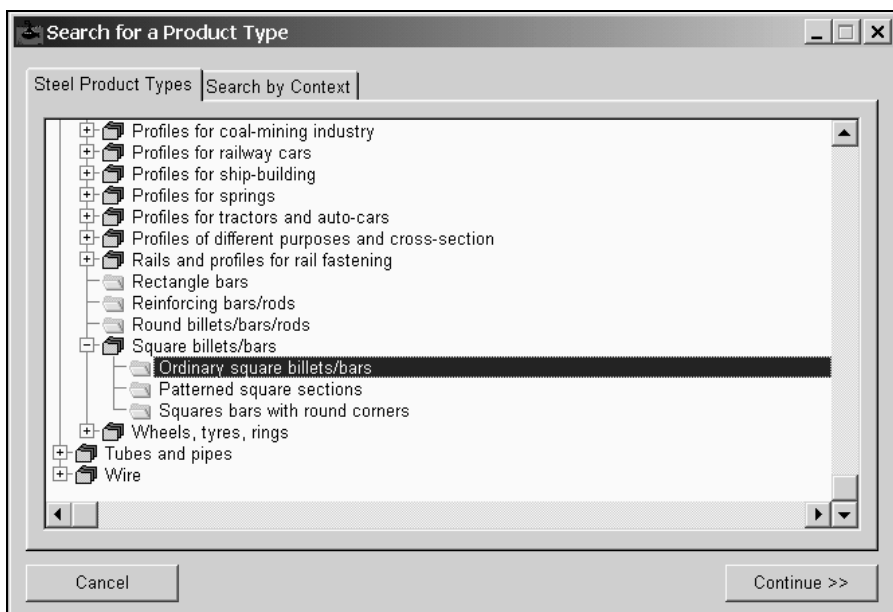










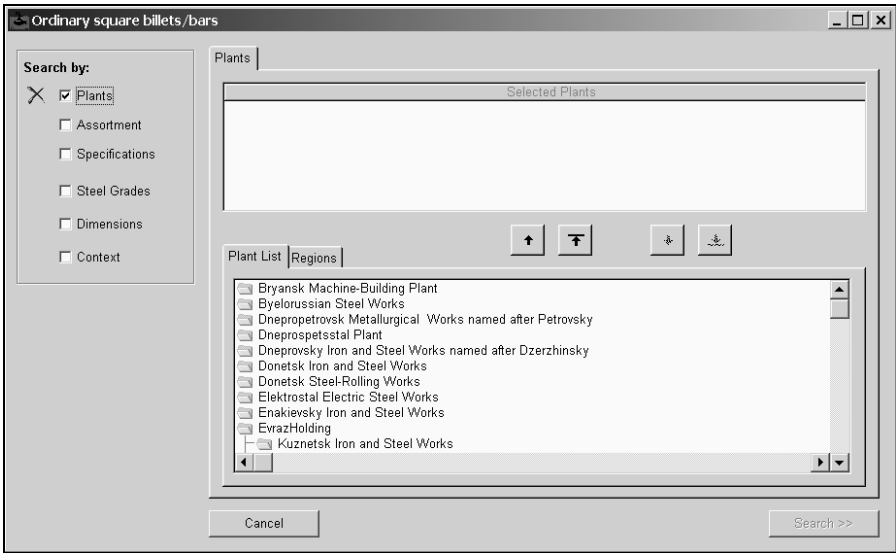
Fig. 3.5 Select steel product type

The tree structure and building concepts are described in detail in para 4.1.1. The tree is default contracted, i.e., only the upper level is screened, namely, the names of the general product types *Concast billets and ingots*, *Flat rolled products*, *Forgings*, *Rolled-formed profiles*, *Steel long products*, *Tubes and*

*pipes, Wheels, tyres, rings, Wire.* In the left of each line (tree branch) there is the  sign, which indicates that the relevant branch is contacted.

**The product types** out of which one must be chosen for further search are arranged at the lower levels of each branch and marked with the  icons on the left, opposite to other lines. To make the required product type available, expand the relevant branch. It can be done by clicking  on the left of the branch. Here  will be replaced with , and the second tree level related to the required product type will be screened.

The second level has lines marked with the  icons (no need to further expand them), while there are lines marked with  on their left (if necessary, these branches are expanded according to the same rules). Any branch can be contract by clicking  on its left.



**Fig. 3.6 Select the search criteria**


On identifying the required product type, for further criteria search to be input, please highlight the product type you need and click the **Search >>** button, which will be able on the screen.

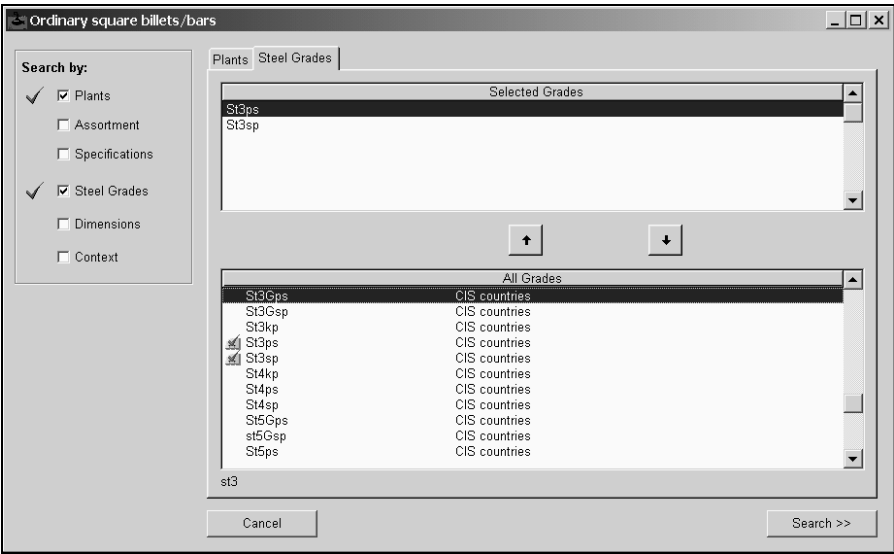
*Note.* The required steel product type can be identified in another way with the help of **Search by Context**. This technique suits if due to any reason you have trouble in identifying the required product type with the help of the tree. For more detailed information on this subject go to sections **4.2.1** and **4.2.2** of this Manual.

3. The next step identifies other search criteria.

The **Search by Plant** is always default assigned (see **Fig. 3.6**). It is indicated by (☑) sign in the *Check Box* on the left of the criterion name. Further to the left there is the ✕ icon, which means that although the parameter is selected its value is not yet identified (i.e., the plants are not selected for search so far).

In the right part there are two list-boxes. The lower one includes *all plants* producing the required product type, the upper one is intended for inputting

plants for search. By clicking the  button between the list-boxes, you will move all the plants from the lower list-box to the upper one, i.e., you will select them for search. Here ✕ icon on the left of the **Search by Plant** *Check Box* will be replaced with ✓.




**Fig. 3.7 Search by Steel Grades**

*Note.* Apart from search by all the plants included in the database, the software grants the opportunity to search by the plants located in a particular region or by the plants selected by the user. For more detailed information on this subject, go to section **4.2.2**.

The other search criteria, which are enlisted in the left part of the screen, are not compulsory. To select them or not depends on your wish and data available with you. Section **4.2.1** describes all the criteria in detail. Here we shall dwell only on

two of them, which are most popular: *Search by Steel Grades* and *Search by Dimensions*.

4. The criterion of **Search by Steel Grades** will permit a selection of steels from which the required products must be made. In order to include the required steels into the search, please do the following:
- select the **Search by Steel Grades Check Box** in the left part of the screen;
  - find the required steel in the lower list-box of the **Steel Grades** page, which will appear on the right (see Fig. 3.7), using the scroll bars or the locator;
  - click the  button and in so doing select the steel for the search by transferring it from the lower list-box to the upper one;
  - repeat the above actions if you have to select other steels for the search as well.

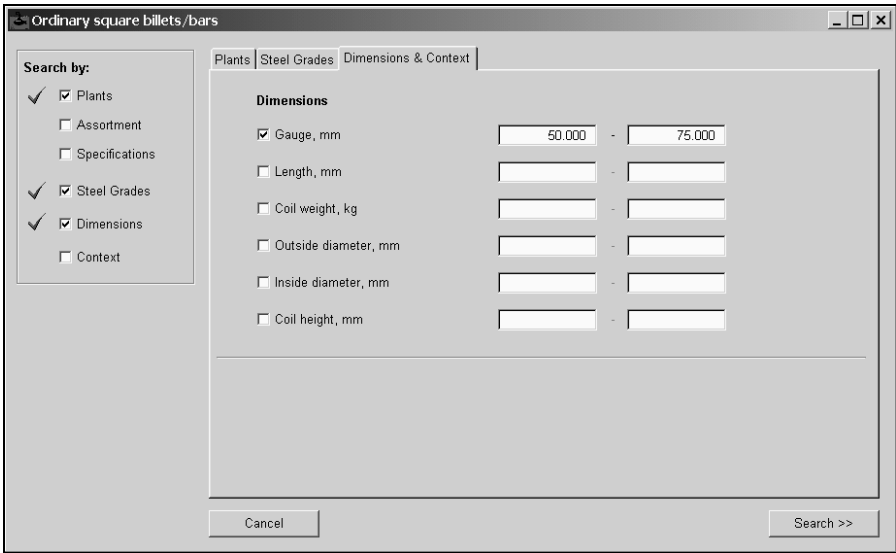


Fig. 3.8 Search by Dimensions

5. To input the required product dimensions:
- select the **Search by Dimensions Check Box**;
  - The **Dimensions & Context** page will appear on the screen (see Fig. 3.8). Using the relevant *Check Boxes* to select the names of the required dimensions (values of other dimensions will not be taken into consideration during the search);

- input limits of possible values for the selected dimensions.

*Please note that the search will be possible only in case you input values (both minimum and maximum ones) for all dimensions of your selection.*

## Search of Manufacturers by Input Criteria

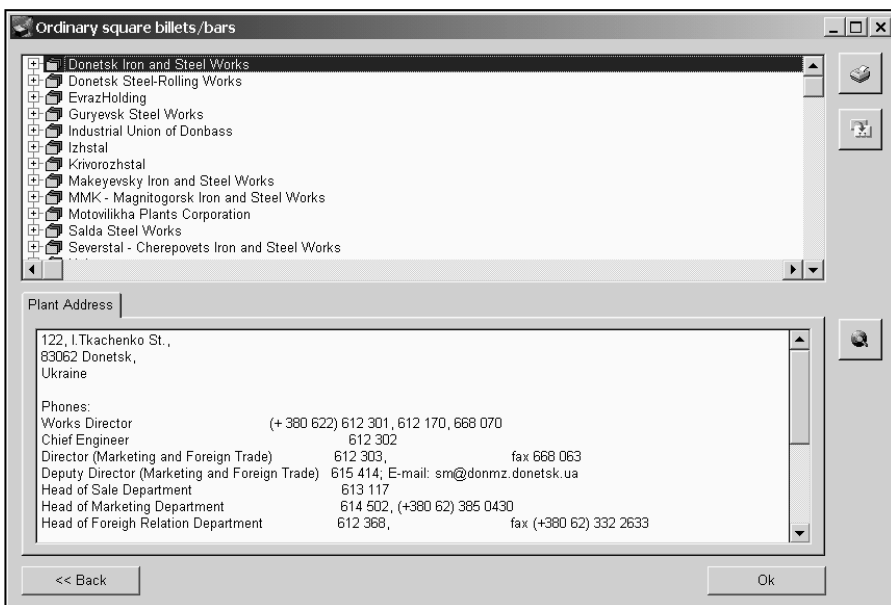
Producers will be searched by the input criteria after you click the **Search >>** button located on the right below.

*Please note that this button will be available only if there are ✓ icons near all the selected search criteria (marked with ☒ on the left).*

The search process is screen-visualized with the help of two progress bars. If the search succeeded on its completion the search findings view window will appear (see Fig. 3.9), if not a message to the effect that no findings were obtained will be shown. There may be two reasons for this situation:

- you input the contradicting search criteria values, and they have to be corrected;
- the required product is not made by CIS and Baltic plants.

For correction of the search criteria values you must go back to the preceding procedure by clicking the **<< Back** button and make necessary corrections. Then you can repeat your search.



**Fig. 3.9 Search results**



## Viewing, Printing and Saving Search Findings


A list of found plants is arranged in the upper part of search findings view window (see **Fig. 3.9**). To obtain information on any of them, you must highlight the required plant in the list using the mouse and scroll-bar.

Here the required information will appear in the lower window. It includes address data (address, phone and fax nos., E-mail, etc.) arranged on the **Plant Address** page, and data on product distributors, which are on the **Traders** page.

Besides the data on plants, in this procedure you can also obtain data on steel products manufactured by the input search criteria. For more detailed information on this subject, go to section **4.2.3**.

The information on the identified plants and their products can be printed with the

help of the  button on the right. Apart from it, you can save this information in

html file. To do this, use the  button. For more detailed information on printing and html-file settings procedures go to section **4.2.4**.

## 4. User's Manual

### 4.1. Database

#### 4.1.1. Database Structure

##### Information on Plants

At present the database of the **WinPlant. BLACK** software contains information on more than 200 plants of the iron & steel industry of the CIS and Baltic countries, which produce:

- *ingots and concast billets,*
- *flat rolled products,*
- *long rolled products,*
- *tubes and pipes,*
- *wire,*
- *roll-formed profiles,*
- *wheels, tyres, rings,*
- *forgings.*

Apart from the plants proper, the database also contains information on managing companies of some of the plants. It permitted a presentation of recently set-up holding companies, like TMK, Eurazholding, OMK, Severstal-Group, Interpipe, Industrial Union of Donbass, Steel Group McChel, MAIR and others as well as their sales divisions.

For convenient operation, all plants are related to *regions*. Here the software applies a generalized region notion. A region can be CIS as a whole, individual countries (or groups of countries), inside (Caucasus, Central Asia) and outside CIS (Baltic countries) as well as enlarged Russian areas (the European part, Ural, Siberia, the Far East). That is why one and the same plant can be related to several regions. For example, the plants located in Ural, are at the same time included into the regions as follows: *CIS countries, Russia, Ural*, while the plants located in Ukraine, into *CIS countries* and *Ukraine*.

The **WinPlant. BLACK** software contains the following information on each plant (holding):

- mail address, reference phones and fax nos. of main departments, E-mail address and Web-site, teletype and telex;
- data on product quality certificates;
- list of main product distributors with contact data;
- list of main process equipment;
- detailed data on steel products made by the plant.

## Information on Products

The information on steel products made by each plant includes:

- *name of a product* according to our classification applied in the software (described in detail below);
- name of a product *assortment* with reference to relevant standard (GOST, TU or foreign);
- reference to standard with *specifications* of the steel product;
- list of *steel grades* the product is made from;
- main product *dimensions*.

Moreover, the database incorporates information on *equipment* steel products are made at and some additional data on peculiarities of production operations in making this product at this particular plant (the *Remark* field).

## Classification of product types

The database employs the classification of steel product types as below (see **Fig. 4.1**). For better understanding, it is shown as a tree.

The upper tree level is the names of nine general product groups included into the database.

- *Concast billets and ingots,*
- *Flat rolled products,*
- *Forgings,*
- *Non-ferrous long products,*
- *Roll-formed profiles,*
- *Steel long products,*
- *Tubes and pipes,*
- *Wheels, tyres, rings,*
- *Wire.*

The next tree levels are the names of product types within each group. There may be one or two levels for different steel product types. For example,

- Flat rolled products – Plates, sheets, strips,
- Steel long products – I-beams,
- Wire – Round wire.

At the same time:

- Flat rolled products – Black and tin plates – Tin-plates,
- Steel long products – Profiles for railway cars – Sections for binding,
- Tubes and pipes – Round tubes/pipes – Seamless tubes/pipes.

When dividing steel product groups into types the factors as follows were taken into consideration:

- product application,
- product geometry (cross-section shape),
- production way,
- coatings (yes or no),
- other factors.



**Fig. 4.1 Tree of steel product types**

**Product application** dictated the division into types of *flat* (black and tin plates, bar strips, strips for welding pipes) and *long products* (groups of sections of different applications) as well as *wire* (reinforcing wire) and *roll-formed profiles* (profiles for road side railing, profiles for window and lantern transoms).

**Cross-section shape** was taken into consideration when dividing *long products* (round, square, I-beam, channel, etc., sections of various shapes within different application section groups), *roll-formed profiles* (C-shaped, U-shaped, Z-shaped, angle, channel, etc.), *tubes and pipes* (round, square, rectangular and of other section), *wire* (round, square, rectangular), *concast billets* (round, square, hollow),

*forgings* (disc, square, round) into types.

**Production way** was the governing factor in the division of *tubes and pipes* (welded or seamless) and *semi products* (ingots or concast billets) into types.

**Coating** was taken as a governing aspect because standards for this product type, besides main geometric dimensions, also define coating parameters: type and thickness. This aspect was taken into consideration for *flat products* (tin-plates, galvanized and chromitized plates; galvanized, lead coated sheets, sheets with insulation coating), *wire* (coppered, brass coated, galvanized, polymer-coated, tinned), *tubes and pipes* (galvanized, lined, polymer-coated, etc.) and *roll-formed profiles* (hot-galvanized).

Apart from the above, we singled out bimetal and multi-layer *tubes/pipes* as well as bimetallic *wire* into separate groups.

## Standards for Products

In the classification, each type of steel product is related to standards according to which this product is made. Here the standards are divided into two groups:

- *Standards on assortment*, which define product geometry (dimensions, tolerances, etc.);
- *Standards for specifications*, which define product mechanical and other properties.

In some cases one and the same standard can define both assortment and specifications of the product. Here the standard was included into both groups. The examples are given below.

*Cold-rolled flat products* are made according to **GOST 19904**. It is a standard for product *assortment*, which defines product dimensions and tolerances of deviations from nominal values. Meanwhile *specifications* of the same product are stipulated by other GOSTs: **16523** – for ordinary steel grades, **17066** – for low-alloyed grades, **5582** – for stainless and heat-resistant steels, etc.

*Reinforced bars* are produced according to **GOST 5781**. This standard defines their dimensions and mechanical properties, i.e., it is a standard both for *assortment* and *specifications*.

Besides GOST numbers and names, the database also contains information on validity of standards and data on what obsolete standards they replaced.

## Steel Grades

Opposite to previous versions 1.0 and 2.0 and their modifications, in this software version steel grades of various products are given only as a list without the relation to standards and chemical compositions.

It permits much simpler and speedier search, preventing mistakes during search of products made from steels of the same name but different chemical compositions

that are made according to different standards.

Users interested in steel grades are recommended to buy another our software **WinSteel**, whose database includes detailed information on over 56,000 steel grades of the whole world including near 6,000 Russian steels. For more detailed information on **WinSteel** go to the [www.metalddata.info/winsteel.htm](http://www.metalddata.info/winsteel.htm).

## Dimensions

A generalized notion of dimension is applied in the software. Apart from geometric dimension proper, this notion implies:

- inside and outside coil diameter as well as weight (for coiled flat products);
- coating type and thickness (for coated sheets/strips, tubes/pipes, roll-formed profiles and wire);
- section number (for standard sections – I-beams, channels, rails, etc.);
- layer thickness (for bimetallic tubes/pipes and wire),

and other parameters.

### 4.1.2. How to Get Information on Plants, Their Products, Steels and Standards

You may call information on plants, their products and reference data on steels and standards with the help of the **Information** item of the main menu. Once this item is selected, the pull-down menu, which will help you to obtain the required data, appears.

#### Information on Plants and Their Products

In order to obtain reference data on any plant included into the database and its products, select the **Plants** item of the **Information** pull-down menu. After that, the list-box with the list of all plants arranged in the alphabetic order will be screened (see Fig. 4.2).

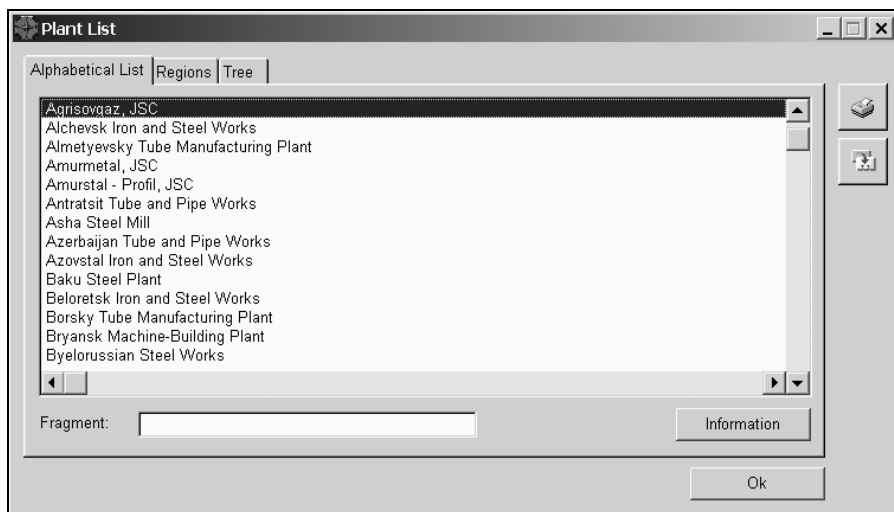


Fig. 4.2. Plant list in the alphabetic order

#### How to find the required plant in the list

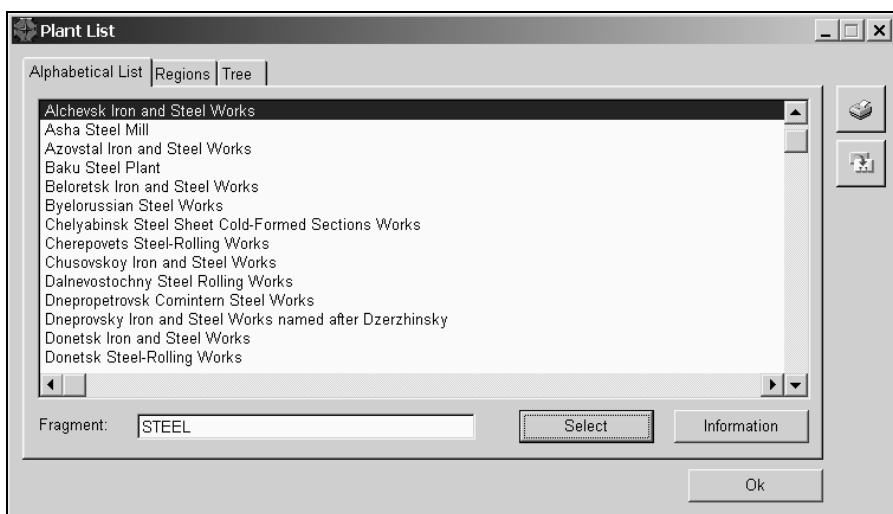
There are four possible ways to find the required plant.

1. You can find it on the **Alphabetical List** page among *all the plants and holdings* incorporated into the software database with the help of scroll bars or **locator**. The locator operates as follows: the name of the required plant is keyed-in letter-by-letter. When the first character is keyed-in the first record (plant) starting with the input character is highlighted in the list-box. When the next character is keyed-in the cursor goes to the record starting with the keyed-in combination of two characters and so on. Usually it is enough to key 3 or 4





characters to find the required plant in the list-box.

2. You can find it on the same page with the help of *search by fragment of plant name*. The **fragment** is input in the corresponding string below the list-box (see **Fig. 4.3**). When the fragment is input, the **Select** button, which must be clicked to make a selection, appears. The list of plants selected by the name fragment will appear in the list-box instead of the alphabetic list.

Please note that the search by fragment is fulfilled not only among the plants names (both new and old ones) but also in the text fields in which address information (address, phone, telex, teletype, etc.) as well as information on the dealers of plants is arranged.



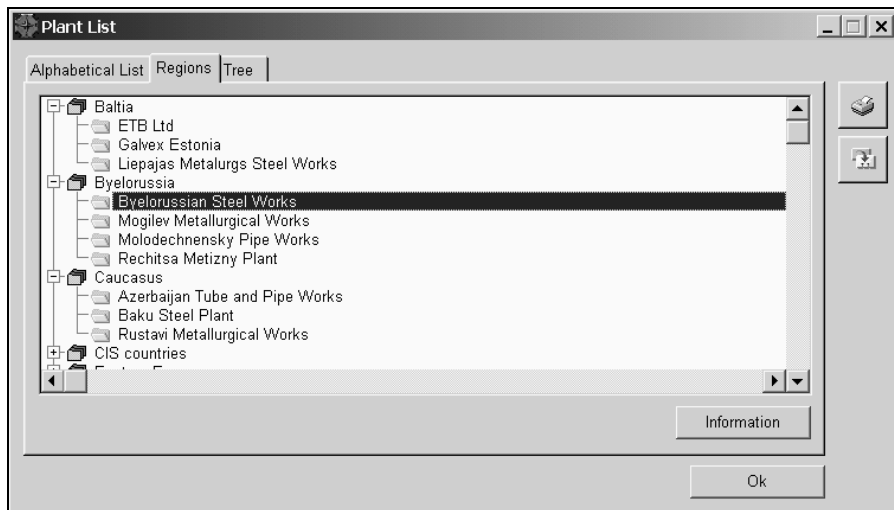
**Fig. 4.3. Select plants by the fragment**

3. You can find it among the plants located in the required *region*. For this action, you must go the **Regions** page using the title Tab (**Fig. 4.4**). This page shows the list of plants arranged by regions. This list is presented on the page as a tree. The upper level is the names of the regions, the lower one is the names of the plants located in the regions. To get an access to the lower tree level, highlight the required region and click the  icon located on the left. The branch, which is highlighted, will be expanded and  will be replaced with . If you want to contract the pre-expanded branch click the  icon.

Please note that as one and the same plant can be related to several regions (see **page 4-1**) you can find one and the same plant mentioned in the above list several times.



4. You can find it on the **Tree** page where plants and holdings are alphabetized as a tree with due regard to their subordination (i.e., plants incorporated into holdings are related in the above list to their leading companies). Here, just as on the **Alphabetical List** page you can use the locator for search for the plant or holding in the list-box.



**Fig. 4.4. Plants in regions**


### Information on a plant







In order to obtain information on the selected plant (holding) available in the database, you must highlight the required record in the list and click the **Information** button. For the same purpose, you can also use the same item of the pop-up menu, which is called from the list-box by clicking the right mouse button or simply by double-clicking the list-box line with the name of the plant.

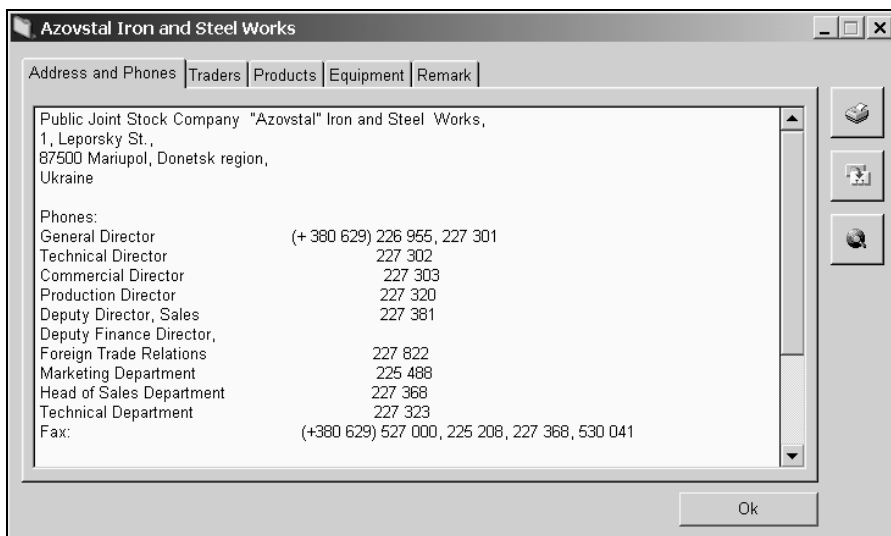
In the information view procedure (see **Fig. 4.5**) information is arranged page-by-page. To call the required page, you must use one of the Tabs in the upper window part. Please mind that the information on the plant includes:

- address, phone and fax nos. of main departments, teletype, telex, E-mail, Web-site, data on product quality certificates – the **Address and Phones** page;
- information on product distributors – the **Traders** page;
- general list of products made by the plant – the **Products** page;
- data on main process equipment – the **Equipment** page.

The general list of steel products made by the plant is a fragment of the total tree of product types (see Fig. 4.1) in which only those lines (branches) which are connected with the products made by the particular plant (Fig. 4.6) are left. If you select a plant including into a holding you can get information on products made by

all plants of this holding also. For that you have to click the  button on the right.


The default list is expanded as indicated by the  icons on the left of each branch. The lines of the lower tree level are marked with , other level lines, with . If you want to contract any tree branch click  on the left of the branch. Here the branch will be contracted, and  will appear on its left. Clicking  will permit the branch to be expanded again.



**Fig. 4.5 Information on the plant. Address and phones**

To obtain more detailed information on the product type highlighted in the list, click the **Detailed Information** button on the left below or to use the same item of the pop-up menu (called from the list-box by clicking the right mouse button).

In so doing, the search procedure will start (see para 4.2), and it will select all the information (standards for product assortment and specifications, steel grades, dimensions) on the product type made by the plant that is available in the list-box. The search findings will be viewed using the procedures described in detail in para 4.2.3.

Please note that the **Detailed Information** button and the pop-up menu will be available only if in the product list the cursor highlights *one of the lines of the lowest level of the product tree*. Mind that the above lines are marked with .

Besides the above-mentioned pages, the plant information view procedure window also contains the **Remark** Tab. The above page is intended for additional data on the plant to be input into the database by a user. In order to save the input information on the hard disk of your computer, click the **Save** button once the information input is completed. If you fail to do it this information will be lost. If, due to any reason, you decided to omit the saving click the **Restore** button. In so doing the information saved on your hard disk before will be recovered.

Using the relevant item of the **Edit** pull-down menu, you can *copy* the information on the plant that was input by you and use it in the other Windows applications.

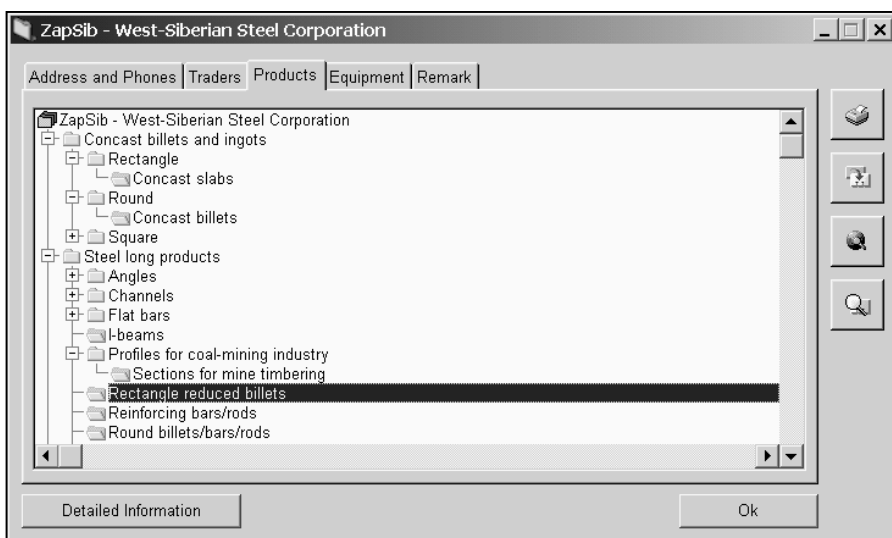



Fig. 4.6 Information on the plant. General product list

### Printing plant information



You can print the information on the required plant either from the *list of plants* (see Fig. 4.2 - 4.4) or from the *information view procedure* (see Fig. 4.5 and 4.6). In order to call the printing settings procedure, you must use:

- the  button on the right (available in both variants),
- the **Print** item of the pop-up menu called from the plant list-box by clicking the right mouse button.

The printing settings procedure makes it possible to select what information on the plant will be printed. You can print:


- plant address and reference phone numbers;
- list of plant products distributors;
- general list of products made by the plant.

*Please note that the default printing includes only information on plant address and reference phone numbers. If you want to print the other data click the relevant Check Box on the left.*


**For printing start**, click the  button in the right lower corner. For printing settings procedure **exit**, you can use the  button, and printing will not follow.

### How to save information in HTML file

Apart from printing, the information on the required plant can be saved in HTML file for further usage in other Windows applications. To fulfill this operation, it is necessary:


- to click the  button on the right (it can be done both from the plants list-box and the information view procedure);
- to make use of the **Export to HTML** item of the pop-up menu called from the plant list-box by clicking the right mouse button.






### How to go to Web-site of the plant

Besides the printing and HTML export buttons, there is the  button in the right part of the information view procedure window. This button is used for quick transition to the Web-site of the selected plant. On clicking it, the browser installed on your computer will be initiated and if the computer is connected to Internet the head page of the Web site will appear.


### Lists of Plants by Product Types

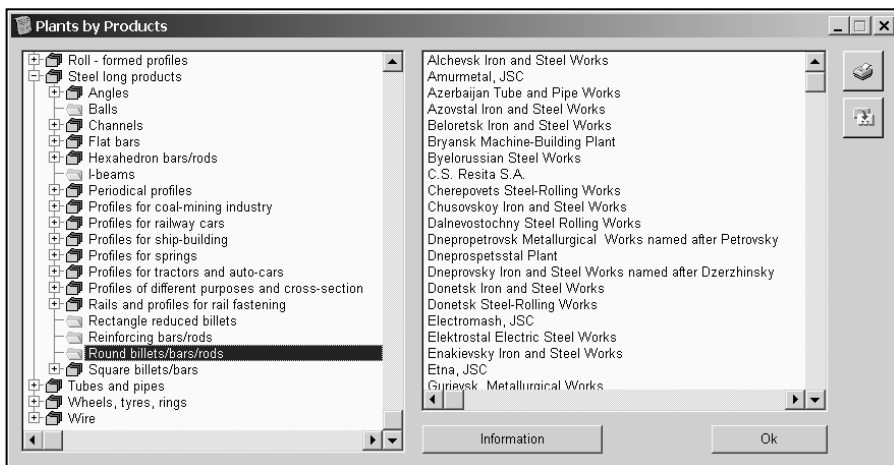
If you need to find in the database plants manufacture steel product of required type (see **pages 4-2 – 4-3** and **Fig. 4.1**) use the **Plants by Products** item of the **Information** menu. The window of the procedure, which is called by this menu item, consists of two parts (see **Fig. 4.7**).

*In the left part of the screen the tree of product types is represented. By default the tree is contracted, i.e., only the upper level is screened, namely, the names of general product type: *Concast billets and ingots, Flat rolled products, Forgings, Non-ferrous long products, Roll-formed profiles, Steel long products, Tubes and pipes, Wheels, tyres, rings, Wire*. In the beginning of each line (tree branches) there is the  icon indicating that the relevant branch is contracted.*

In order to expand any products tree branch, you must click  on its left or just double click the required line in the list. Here  is changed to , and the second tree level appears on the screen. Some lines of the second level are also contracted (which is shown by the same  icons on the left). If you are interested in one of these branches expand it according to the same rules. You can contract any branch by clicking the  icon on its left.

When you highlight any line in the product types tree *in the right screen part* (see **Fig. 4.7**) *the list of plants, which produce the selected product*, is displayed.

To get more detailed information on the required steel product manufactured by the highlighted plant use the **Information** button on the bottom or the same item of the pop-up menu called from the right part of the window by the right mouse button clicking. *Please note* that this button and the pop-up item will be available only if in the product list on the left *the cursor highlights one of the lines of the lowest level*, which in contrast to the other lines are *marked with the  icons*.




**Fig. 4.7 Plants by product types**

Similarly to obtaining information on plant products (see **page 4-9**), the search procedure will be initiated by clicking the **Information** button. It will select the required information in the database. This information will be viewed with the help of the procedure described in para 4.2.3.

### How to print and to save in HTML file information on the plants


Information on plants, which produce the required steel products, is **printed** with

the help of the  button or the **Print** item of the pop-up menu. The print setting procedure makes it possible:

- To select what to print: information on only one highlighted plant or on all plants included into the list. To do it, you must use the relevant *Radio Button* in the lower part of the page. *By default information only on the highlighted plant is printed.*
- To indicate with help of the corresponding *Check Box* that information on each plant must be printed at a *new page* if you wish to print the plant list.
- To identify what information on the plant (plants) will be printed. To do it, please use the *Check Boxes* in the upper part of the page. Only address data (address, phone and fax nos, E-mail, etc.) are default printed (the **address and phones/faxes** *Check Box* is selected). At your wish you can also print the data on the product distributors also. To do it please select the **list of traders** *Check Box*. If both *Check Boxes* are not selected only the names of the plants will be printed.


The **Total Information** button is used to print at once all information on the highlighted plant or on all plants in the list.


To **start printing** please click the  button at the bottom. To **exit** the setting procedure without printing use the  button.

The  button or the same item of the pop-up menu is used **for saving information on found plants in HTML file**. The saving setting procedure allows you:

- To select what to save: information on only one highlighted plant or on all plants included into the list. To do it, you must use the relevant *Radio Button* in the lower part of the page. *By default information only on the highlighted plant is saved.*
- To identify what information on the plant (plants) will be saved in HTML file. As when you print only address data (address, phone and fax nos, E-mail, etc.) are default saved (the **address and phones/faxes** *Check Box* is selected). At your wish you can save the data on the product distributors also (the **list of traders** *Check Box*).

The **Total Information** button is used to save at once all information on the highlighted plant or on all plants in the list.

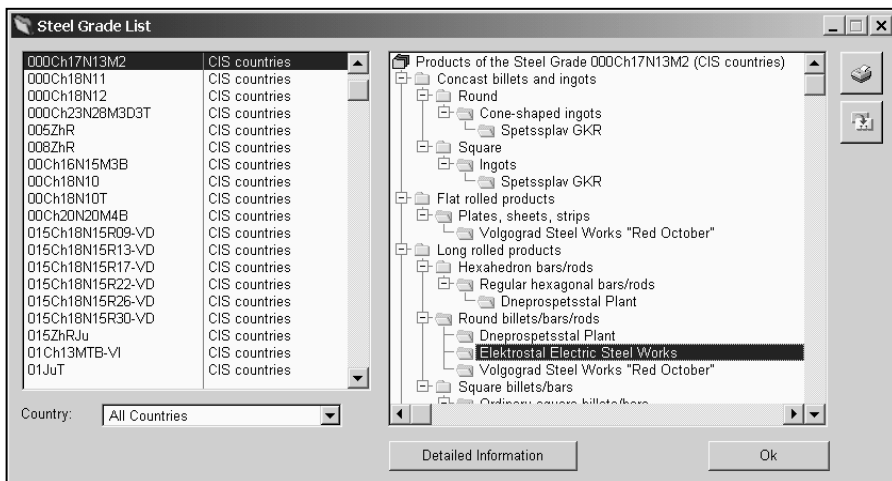
When you defined what information would be saved in HTML file click the 

button to **start saving**. If you changed your mind use the  button **to go back** to the preceding procedure.

## Reference Information on Steels

The reference information on steel grades is called through the **Steel Grades** item of the **Information** menu.

The steel information view procedure window (see **Fig. 4.8**) consists of two parts. In the left part there is the list of all *steel grades* included into the database. Steels are enlisted in *alphabetic-and-digital order*. The *locator* is most convenient for searching required steel. If desired, only *steels of one country* can be left in the list. *The country is selected* in the standard way in the **Country** string below the list.



**Fig. 4.8 Steel grade list**

*In the right screen part there is a window with the data on products made from the steel highlighted on the left and on the plants producing them. This list is screened as a tree. The upper and medium levels of the tree are the names of product types (see pages 4-2 – 4-3 and Fig. 4.1), the lower level is the names of plants producing the products from the selected grade. The default list is expanded, you can operate with it according to same rules as with the list of products in the procedure of plant information view (see pages 4-9, 4-10 and Fig. 4.6) using the and icons and scroll bars.*

You can get the detailed information on any product type made from the selected steel grade by clicking the **Detailed Information** button below or with the help of the same item of the pop-up menu. *Please note* that this button and the pop-up item will be available only if in the product list the cursor highlights either the *name of the plant* or the *name of the product type* marked with on its left.

Here:

- *if the cursor highlights the name of the product type* information on all plants producing this product type from the selected steel grade will be screened by clicking the **Detailed information** button;
- *if the plant is highlighted* information on the selected product made from this steel only by this plant will be screened.

Similarly to obtaining information on plant products (see **page 4-9**), the search procedure will be initiated by clicking the **Detailed information** button. It will select the required information in the database. This information will be viewed with the help of the procedure described in para **4.2.3**.

Information on products made from the steel grade selected on the left is **printed**

with the help of the  button or the **Print** item of the pop-up menu. In order to

save this information in **HTML file**, use the  button or item **Export to HTML** of the pop-up menu.

## Reference Information on Standards

Information on standards included into the software database can be obtained with the help of the **Information** item of the main menu and the **Standards** item of the pull-down menu.



*The list of standards* included into the database is *in the left part* of the screen (see **Fig. 4.9**). The *default* list includes only *CIS standards* (GOSTs, DSTU, OSTs, TU, STP, etc.). It is indicated by the relevant record in the **Country** line below. If desired, you can select *another country* in this line. In this case standards of this country will appear in the list. You can use *the locator* to seek for the required standard.


*The right upper part of the screen* displays information on the standard highlighted on the left. As a rule information on a standard includes:

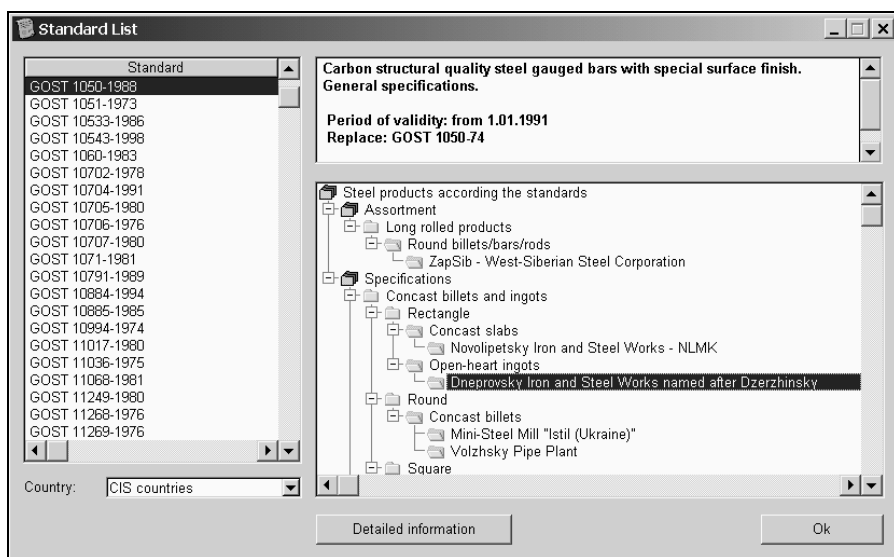
- full name of standard;
- validity;
- standard (standards) the valid standard replaced.

*Below the information on the standard* there is the window with the data on the products made according to this standard and the plants producing them. This list is screened *as a tree*. The *upper tree level* indicates if this standard defines requirements to *product assortment* or it is a standard for *specifications*. The *intermediate levels* are the names of product types (see **page 4-2 – 4-3** and **Fig. 4.1**) made according to this standard, the *lower level* is the names of the plants, which manufacture these products.



As other lists of products (see Fig. 4.6 and 4.8), this list is default expanded. You can operate with it according to the same rules as with other similar lists, using the  and  icons as well as scroll bars.

Detailed information on any product type made in accordance with the selected standard can be obtained by clicking the **Detailed Information** button or using the same item of the pop-up menu. The button and menu will be available only if in the list of products the cursor highlights the line with *the name of the product type marked with the  icon on the left or the line with the name of the plant.*



**Fig. 4.9 Standard list**

Here:

- if the cursor highlights the name of the product type the screen will display the information on all plants making the products meeting the selected standard on clicking the **Detailed Information** button;
- if the plant is highlighted the screen will display the information on the products made according to the selected standard only by this plant.

On clicking the **Detailed Information** button the search procedure will be initiated which will select the required information in the database. This information is viewed with the help of the procedure to be described in detail in para 4.2.3.

*Printing* of information on standards and products made according to them is not provided for by the software.

## 4.2. Search for Manufactures of Required Steel Products

The search procedure described in this section will permit a selection of information on plants, which manufacture the steel products you need.

### 4.2.1. Search Criteria

The criteria of search are identified in two stages:

- at the first stage the required product type is selected using the tree described above (see pages 4-2, 4-3 and Fig. 4.1);
- at the second stage the parameters (additional criteria) according to which the search procedure will be carried out are selected and the values of these parameters are input.

### Selection of Product Type

Two ways are possible to select the required product type: *by shifting with step-by-step manual opening of required tree branches or by context.*

**Context** is a fragment of steel product name. It can completely or partially coincide with the name of one of the products tree branches or it can be a part of the name of the product assortment (or standard) in accordance with which the product is made.

Why did we envisage this possibility? The classification of steel product types which we use (described on page 4.2 - 4.4) is not a generally accepted one. In our opinion, it has a lot of indubious advantages but at the same time it is not perfect. After the search parameters are input a situation when the required product type will not be found among the tree branches may take place. It does not at all mean that there is no such product in the database but it may be just united with the other product of similar type.

The classical example we came across with more than once is *Water- and gas-supply tubes/pipes*. There is no such product type in our tree. Our opinion is that as these tubes of round cross section are made at electric-weld lines they can be easily combined with other similar tubes/pipes with an attribution to *Round welded tubes/pipes*. Some part of water and gas tubes/pipes is made with internal and external zinc coating. According to our classification, they are attributed to the group of *Coated round tubes/pipes*.

In so doing, this product type is available in two branches of our tree. Search by context will demonstrate it. After the context value is input and the search is carried out the screen will display only those branches that are related to the required products. Here it must be particularly stressed that search by context is carried out *not only by product tree branch names but also by the names of product*

*assortments and specifications* which are related to these branches in the database. Exactly this ensures maximum effectiveness of search.

In conclusion, a piece of advice. When searching by context, do not input large fragments. In the example given above, for effective search it will be quite enough to input the name fragment of **WATER**.

## Search Parameters

You can search manufacturers of the selected product type by the following parameters (criteria):

- *plants*,
- standards for *product assortment* (name of assortment),
- standards defining *specifications* of products,
- *steel grades*,
- *product dimensions*,
- *context*.

We will examine these parameters in detail.

**Search by plants.** The parameter of search by plants is intended to select enterprises, which will be included into the search process. Here three variants are possible:

- to search *among all the plants* included into the software database;
- to search only among plants located in one *region*;
- to search only among plants *selected* directly by *the user*.

This search parameter is useful when, for example, it is required to find those who manufacture the particular products in your region or to identify whether or not a particular plant makes this product. The parameter of search by plant can also be used when you do not deal with export-import operations and are only interested in the products made in your country.

*We would like you to note the following peculiarities of this search algorithm: if you select any holding or plant incorporated into the holding the search is carried out among all enterprises incorporated into this holding.*

**Search by assortment.** When using this parameter you can limit your search only to the product, which is made according to the required standards for assortment. The standards (product names) are looked-up in the list, which includes only standards related to the steel product type selected at the preceding stage. Here you can select one or several assortment standards.

**Search by specifications.** This search parameter is used for the same purpose as the preceding one. On its selection, you can limit your search to desired standards for specifications of the products.

**Search by steel grades.** This search parameter will permit steel grades used for product making to be indicated. The required grades are looked up with the help of the total list, which includes all steels referred to in the software database.

**Search by dimensions.** Here you can input required steel product dimension limits. You can use only the necessary dimension values. The other dimension values will not be taken into consideration.

We remind you that the software uses a generalized notion of dimension, which includes dimension proper, section number, weight and coil dimensions, etc. Please go to **page 4-5** for more detailed information.

**Search by context.** The above-described (see **page 4-17**) concept of product type selection by context can also be applied for search of producers. This search parameter can be applied when it is necessary to limit the search by the standards which names meet the input context.

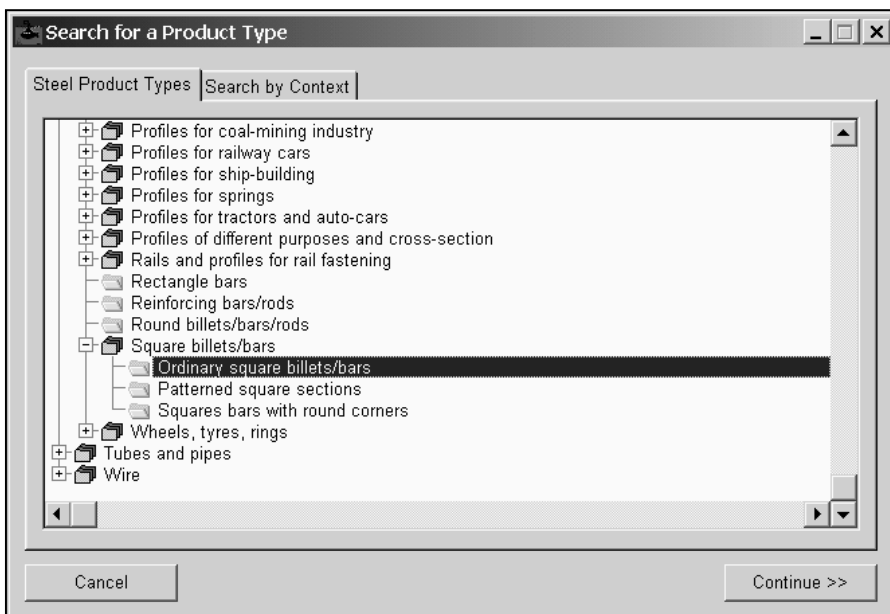
*In conclusion, please note that you are not obliged to search by all the above parameters on the whole. Depending on your aim and the available information, you can select only parameters known to you or required. In this case all the other parameters will be just ignored during the search process.*

### 4.2.2. How to Input Search Criteria

You will begin a search of plants that can produce the required products by selecting the **Manufactures** item of the main menu. Prior to the beginning, you must identify the criteria according to which the search will be carried out. As shown above, the search criteria are identified in two stages. The first stage is applied for selecting the product type, and the second one, for inputting the required search parameters.






#### How to Select Product Type


The product type selection procedure window (see **Fig. 4.10**) comprises two pages. You can find the required product on the first page (**Steel Product Types**) manually with the help of the tree while the second one (**Search by Context**) is intended for selecting product types by context.

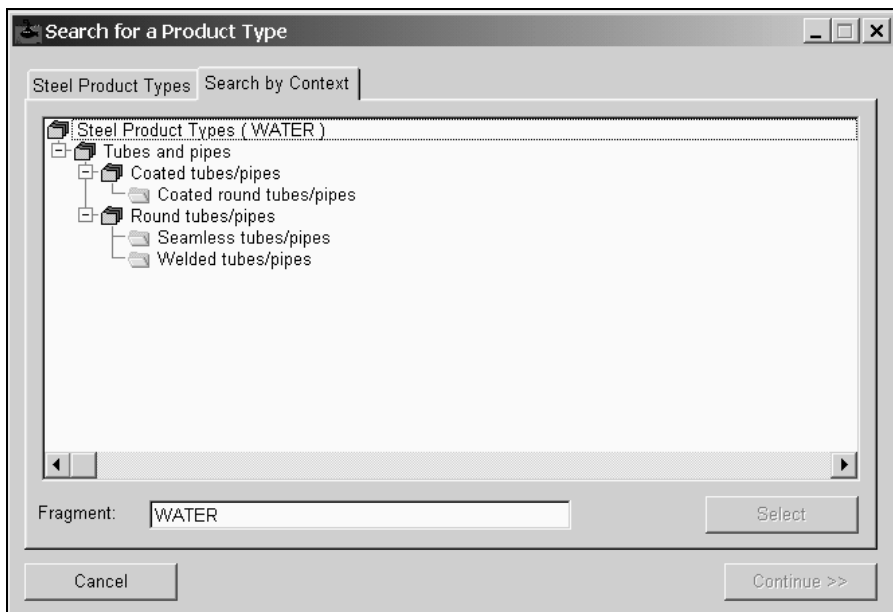


**Fig. 4.10 Search for a product type**

The product type tree (**Fig. 4.10**) is default contracted, i.e., only the upper level is screened, namely, the names of general product type: *Concast billets and ingots, Flat rolled products, Forgings, Non-ferrous long products, Roll-formed profiles, Steel long products, Tubes and pipes, Wheels, tyres, rings, Wire*. In the beginning of each line (tree branches) there is the **+** icon indicating that the relevant branch is contracted.

As with all other trees described above, in order to expand any products tree branch, you must click  on its left or just double click the required line in the list. Here  is changed to , and the second tree level appears on the screen. Some lines of the second level are also contracted (which is shown by the same  icons on the left). If you are interested in one of these branches expand it according to the same rules. You can contract any branch by clicking the  icon on its left.

**Product types** out of which one must be selected for further search, are arranged at the lower levels of each branch and marked with the  icons on the left, opposite to other lines. To choose the required product type, highlight it and click the **Continue >>** button which will be screen-opened. You can fulfill the same operation by double clicking the line with the name of the required steel product type also.



**Fig. 4.11 Search for a product type by context**




If you do not know which type the required product is attributed to or on what tree branch it is arranged use **search by context** in order to find it (see **page 4-17**). Here you must go to the relevant page with the help of the title Tab (see **Fig. 4.11**).

The context for search is keyed-in in the **Fragment:** string in the lower part of the screen. After the required context is keyed-in in this string click the **Select** button, which will be screen-opened on the right.

As a result of the context search, in the central window part there will appear a part of the product type tree whose branches will be related to the input fragment. You can operate with the 'cut-off' tree according to the same rules as with the tree as a whole. The **Continue >>** button is employed for selecting the required product type and transiting to the second stage of identifying the search criteria.

## Search Parameters

The search parameter input procedure window (**Fig. 4.12**) consists of two parts: search parameters are selected on the left, and their values are input on the right.

Each search parameter is selected with its value identified as follows. First the required parameter is selected using the relevant *Check box* (☒) in the left screen part, with the  icon appearing on the left of its name, the page to input the indicated parameter values, on the right. After that, this parameter values are keyed in on this page. On completing the key-in,  is replaced with .

## Search by Plant



The parameter of **search by plant** is *obligatory* that is why it is default selected once the search parameter input procedure is called. The **Plants** page (see **Fig. 4.12**), which is connected with this parameter and where plants are selected for search, is always on the screen as well.

This page contains two list-boxes. The lower list-box includes all the plants manufacturing the required steel product type (the example in **Fig. 4.12: Round welded tubes/pipes**). The upper list-box incorporates all the plants selected for the search. They can be selected in one of two ways:



- among all the plants included into the software database – on the **Plant List** page of the lower list-box;
- among the plants located in the selected region – on the **Regions** page.

**On the Plant list page** plants are arranged in alphabetic and subordinate (plants included into holdings are arranged together) order.

To include the required plant into your search, you must highlight its name in the

lower list-box with the help of scroll bars or locator and click the  button or choose the **Select** item of the pop-up menu called by the right mouse button clicking. The name of the selected plant will appear in the upper list-box while in the lower list-box this plant will be marked with the  icon. If several plants are to be included into the search list this procedure must be fulfilled for each of them. Moreover, you can **at once include all the plants** from the lower list-box **into the**

**search**. To fulfill it, you must click the  button or use the **Select All** item of the pop-up menu.

If the plant is selected by mistake it can be deleted from the list. Highlight the name of the plant of wrong selection and click the  button or select the **Delete** item of the pop-up menu. You can delete all the plants recorded in the upper list-box by clicking the  button or selecting the **Delete All** item of the pop-up menu.

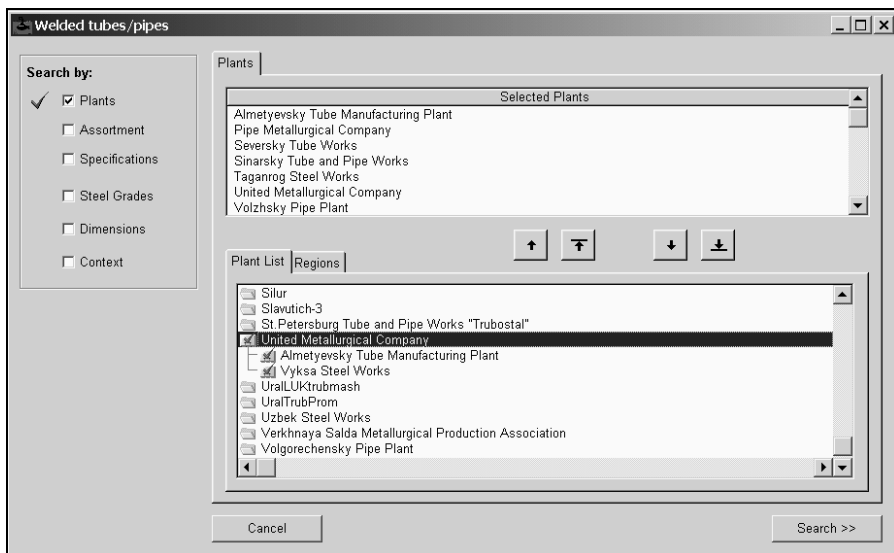









Fig. 4.12 Search by plants

**On the Regions page** the list is shown as a default contracted tree. The first tree level is the names of the regions; the second one is the names of the plants located in the regions. You can operate with this tree according to standard rules: the  icons are used for extracting the required branches and the  icons for contracting them.

Individual plants and all the plants at once are included or deleted from the search according to the same rules as on the **Plant List** page, i.e., with the help of the

, ,  and  buttons, and the relevant items of the pop-up menu as well.

Moreover, on the **Regions** page you can **at once include all the plants arranged in the selected region into the search**. To do it please highlight the name of the

required region in the lower list-box and click the  button.



Please note that if you select a holding or one of the plants included into the holding all the plants of this holding, which produce the selected product type, will be looked up.

Search by Assortment

Just as the **Plants** page, the **Assortment** page contains two list-boxes (see Fig. 4.13). The lower list-box includes all standards (GOSTs, TU and foreign) for the assortment in accordance with which the steel products of the type selected by you are produced, the upper list-box is used for inputting the standards which will be used in the search.

The lower list-box arranges standards in alphabetical order (ASTM, BS, DIN, EN, GOST, etc.). The standards of one title (all GOSTs or all DINs) are arranged in the ascending order of number.

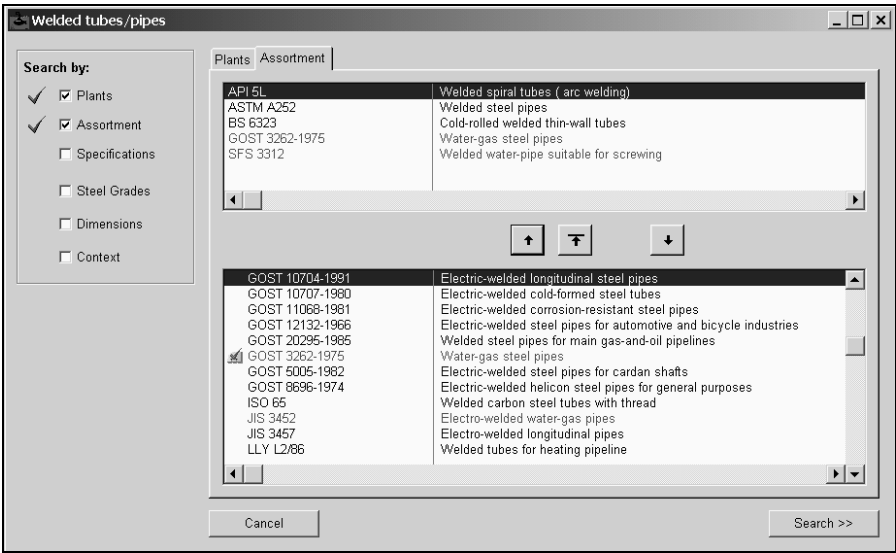




Fig. 4.13 Search by assortment


If the steel product type was selected in the preceding procedure by context all standards whose names are related to this context are red-colored in the list-box.

In order to include the required standard in the search procedure, highlight it in the

lower list-box and click the  button or select the **Select** item of the pop-up menu. Here the standard name will appear in the upper list-box and will be marked with the  icon in the lower list-box. If several standards are required to be

included into the list of search the above procedure must be fulfilled for each standard.

Besides, you have an opportunity to *simultaneously include all the standards pre-selected by context* and red-colored in the list-box into the search. To do it, you

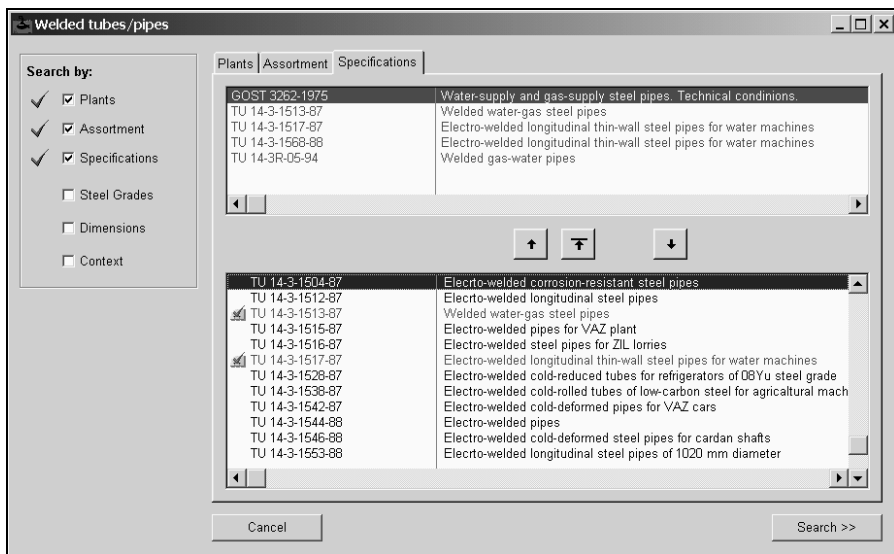
must click the  button or use the **Select All by context** item of the pop-up menu.

If any standard was selected by mistake you can delete it from the list. To do it, please highlight the name of the misselected standard in the upper list-box and

click the  button or select the **Delete** item of the pop-up menu.




### Search by Specifications

Standards for specifications to which the required products are made are selected according to the same rules as standards for assortment. The **Specifications** page (see Fig. 4.14) also contains two list-boxes. The lower list-box includes alphabetized standards for specifications according to which steel products of the required type are produced. The standards you selected for search are input into the upper list-box.



**Fig. 4.14 Search by specifications**

And here also if the steel product type was selected by context all standards whose names are related to this context are red-colored in the list-box.

To include the required standard into search use the  button or the **Select** item of the pop-up menu. To exclude the standard from the search, it is required to use the  button or the **Delete** item of the pop-up menu. If it is necessary to *simultaneously include all standards selected by context* and marked in the list-box with red color use the  button or **Select All by context** item of the pop-up menu.

Search by Steel Grades

The **Steel Grades** page (see Fig. 4.15), just like the preceding ones, contains two list-boxes. The lower list-box includes all the steels applied to make the steel products of the selected type; the upper list-box is used for input the steels selected for search.

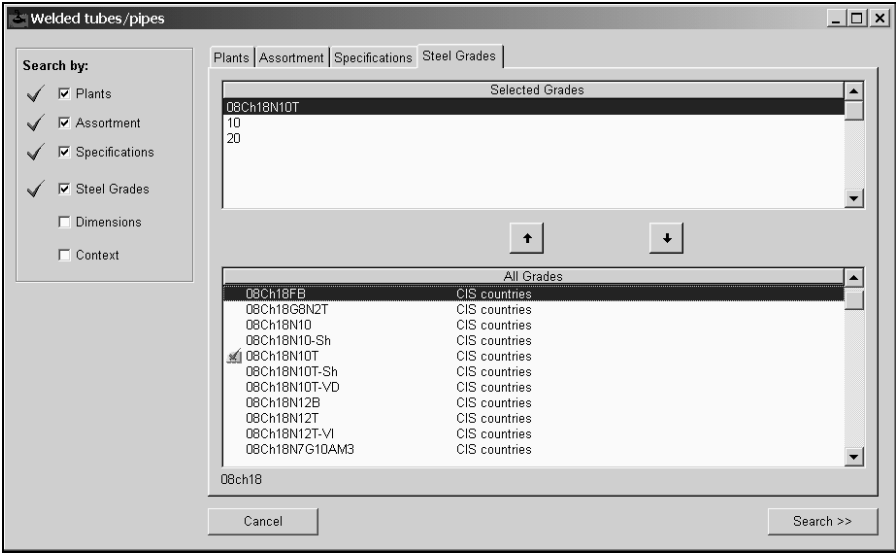




Fig. 4.15 Search by steel grades

In the lower list-box steels are arranged in the alphabetic-and-digital order, i.e., first there are grades whose names begin with figures from 0 to 9, then steels starting from letters.

You can include steel grade into search according to the same rules as the plant or the standard. To do it, use the  button or the **Select** item of the pop-up menu.

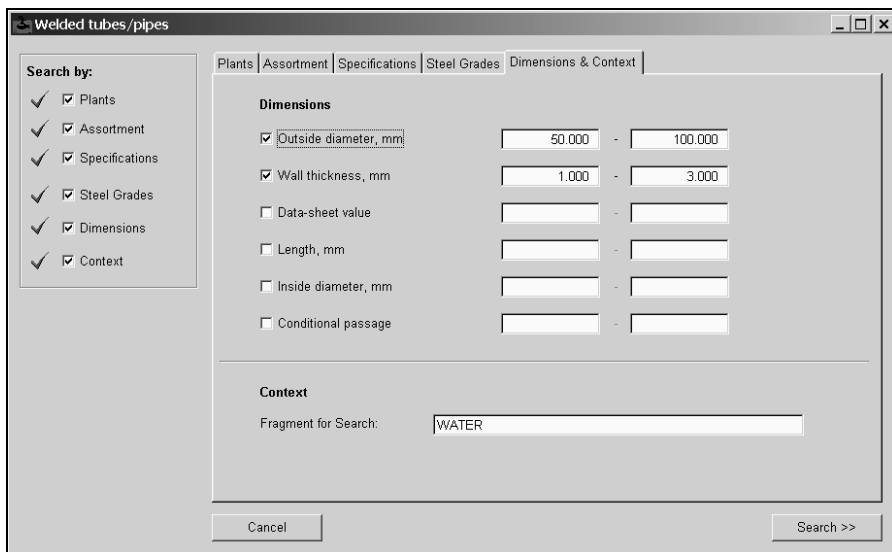
To exclude misselected steels, use the  button or the **Delete** item of the pop-up menu.

### Search by Dimensions

You can input the required steel product dimensions for further search in the upper part of the **Dimensions & Context** page (Fig. 4.16) of the search parameter input procedure.

The total number of dimensions, which will appear on the screen, and their names, depend on the selected product type. Here there is an opportunity to input the required values not for all dimensions but only for those you require. You can input them as follows:

- first the required dimension is selected using the relevant *Check Box* (☒);
- then the limits of the required dimension value is input, here an automatic check-up is carried out so that the right (maximum) value will be not less than the left (minimum) one.



The screenshot shows a software window titled "Welded tubes / pipes" with a tabbed interface. The "Dimensions & Context" tab is active. On the left, a "Search by:" panel lists several categories with checkboxes, all of which are checked: Plants, Assortment, Specifications, Steel Grades, Dimensions, and Context. The main area is divided into two sections. The "Dimensions" section contains a list of dimension types, each with a checkbox and two input fields for minimum and maximum values. "Outside diameter, mm" and "Wall thickness, mm" are checked and have values entered (50.000 and 1.000 respectively). The other dimension types are unchecked. The "Context" section has a label "Fragment for Search:" followed by a text input field containing the word "WATER". At the bottom of the window are "Cancel" and "Search >>" buttons.

| Dimension  | Min    | Max     |
|--|--------|---------|
| <input checked="" type="checkbox"/> Outside diameter, mm | 50.000 | 100.000 |
| <input checked="" type="checkbox"/> Wall thickness, mm   | 1.000  | 3.000   |
| <input type="checkbox"/> Data-sheet value                |        |         |
| <input type="checkbox"/> Length, mm                      |        |         |
| <input type="checkbox"/> Inside diameter, mm             |        |         |
| <input type="checkbox"/> Conditional passage             |        |         |

Context  
Fragment for Search: WATER

Fig. 4.16 Search by dimensions and context

### Search by Context

The context value is input or changed (from the one input previously) in the lower part of the **Dimensions & Context** page. *Please note that if the context was used*

*before for look-up of product type this parameter will be default included into the search.*

The **Fragment for Search:** string is used inputting the context value. If the context was used for the search of product type before the earlier-input fragment will be in this string. In this case you can leave this value in the context field or input a new value for search. You can also leave the string blank but in this case you must delete the search by context from the number of search parameters with the help of the relevant *Check Box* in the left part of the page.

### **Transition to Search for Manufactures**

The search of manufacturers of required steel product will begin after the **Search >>** button on the right below is clicked.

**Please note** that this button will be available only if you *identify the values of all parameters* included into the search, i.e., if the ✓ icons are near all selected search parameters (marked with ☒) in the left part of the screen.

### 4.2.3. View of Search Findings

If the search is successful the software will offer you the list of found plants manufacturing the products meeting the search conditions after the transfer to the relevant procedure.

The search findings view procedure contains two windows (Fig. 4.17). There is the tree of plants, product assortments and specifications in the upper window while the lower window is designed for viewing the information on the plants found as a result of the search and their products as well.

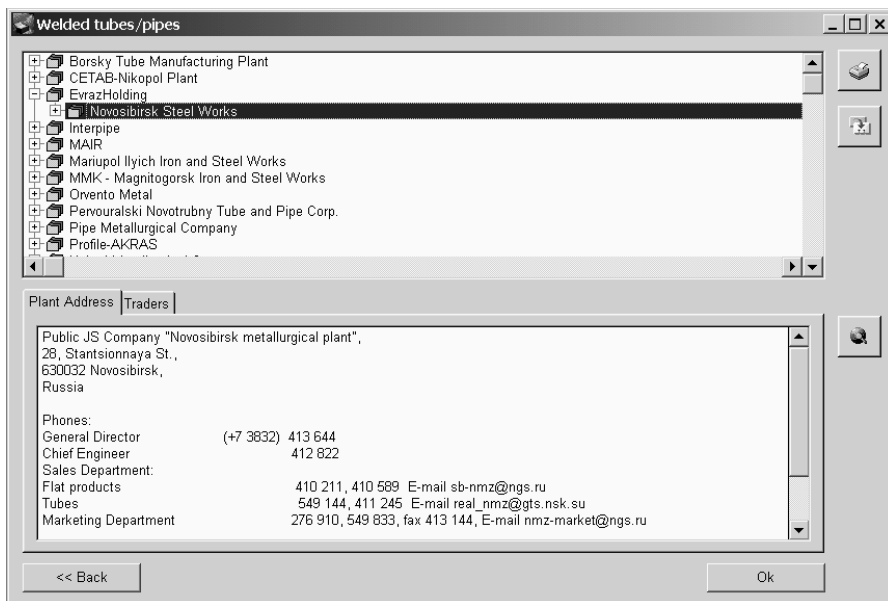




Fig. 4.17 Search results. Information on the plant

### Tree of Plants, Product Assortments and Specifications (Upper Window)

The information on plants and standards in accordance with which the plants manufacture the required products is screened as a tree. The tree is default contracted, i.e., only the upper tree level is screened, namely, the list of plants found as a result of the search. The plants are alphabetized, with their subordination taken into account. So, in the upper tree level you will not find the plants incorporated into the holdings. In order to make them available, you must expand the tree branch related to the head company of the holding. The next tree

*level is standards for assortment* in accordance with the selected products are manufactured, and *at the last level* there are *standards for specifications*.

This tree is operated with according to standard rules, the  icons are used for expanding the required branches, the  icons for contracting them.


## Information on Plants, Product Assortments and Specifications (Lower Window)

*The information in the lower window is related to the line highlighted in the upper window* and depends on what was highlighted: plant (head company of holding), standard for product assortment or standard for specifications.

### If the plant is highlighted

If the name of the plant or holding is highlighted in the upper window the lower window shows the information on this plant or holding (**Fig. 4.17**). Please note that this information contains address, reference phone and fax nos., Web-site, E-mail, teletype and telex (on the **Plant Address** page), and data on main product distributors (on the **Traders** page).




Using the  icon on the right, you can go to the Web-site of the highlighted plant. Here your computer browser is automatically initiated and if the computer is connected with Internet you will be on the head page of the site of the selected plant.

### If the standard for product assortment is highlighted

If the standard for product assortment is highlighted in the upper window (see **Fig. 4.18**) the lower window shows the information on the products made in accordance with this standard by the plant related in the tree with the highlighted standard. The information of product includes:


- data on dimensions of steel product made according to the selected assortment – the **Dimensions** page;
- data on steel grades which are used to make products of the selected assortment – the **Steel Grades** page;
- data on equipment used for making products of the selected assortment – the **Equipment** page.


If the search was carried out with due regard to the dimensions the list-box on the **Dimensions** page will contain the data only on dimensions which correspond to the input values (the lines will be marked with the  icons. If you require data on all dimensions of the products made by the plant in accordance with the selected

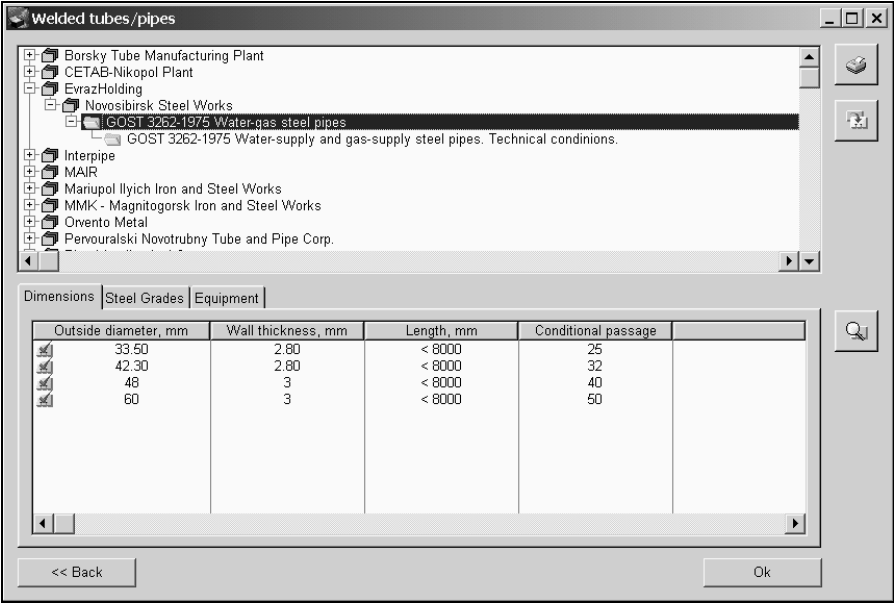


assortment click the  button on the right of the list-box. Re-clicking of the

button will again leave in the list-box only the dimensions, which correspond to the values selected during the input of the search parameters.

In a similar way, if the search procedure was carried out by steel grades the list-box on the **Steel Grades** page will show only steels selected during the input of the search parameters (the lines will be marked with the  icons). If you required data

on all steel grades, which are used for making the selected products, click the  button on the right. Re-clicking this button will again leave only those steel grades in the list-box, which were selected during the input of the search parameters.



**Fig. 4.18 Search results. Information on products made according to the selected assortment**

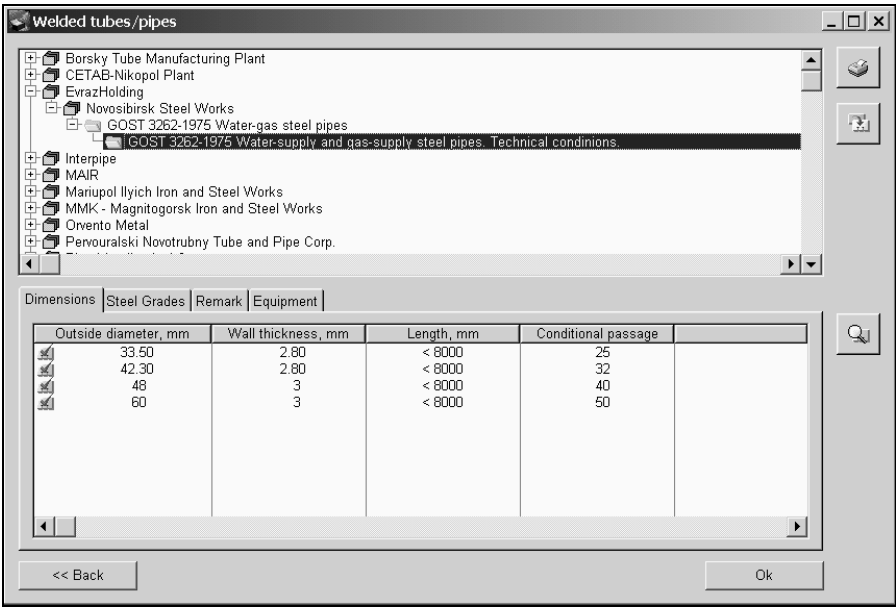
**If the standard for specifications is highlighted**

If the standard for specifications is selected in the upper window (see Fig. 4.19) the lower window shows the information on the products made in accordance with these specifications and related assortment. The information on products will include:

- data on dimensions of steel products made according to the selected assortment and specifications – the **Dimensions** page;




- data on steel grades which are used for making the products according to the selected assortment and specifications – the **Steel Grades** page;
- additional data on products made according to the selected assortment and specifications – the **Remark** page;
- data on equipment used to make the products according to the selected assortment and specifications – the **Equipment** page.




**Fig. 4.19 Search results. Information on products made according to the selected assortment and specifications**

Similarly to assortments, if you searched with regard to dimensions the **Dimensions** page will contain the data only on dimensions, which correspond to

the input values of the search parameters. The  button will permit a screen display of information on all dimensions of the products made according to the selected assortment and specifications.

Similarly, during the search by steel grades, the **Steel Grades** page will contain the data only on steels selected during the input of search parameters. If you require data on all grades, which are used for making the selected steel products, click the

 button on the right.

## Exit from Search Findings View Procedure

You can exit from the search findings view procedure in two ways, depending on the search findings and your wish.


1. If *the search findings are not satisfactory* you can go back to the procedure of search parameter input (see para **4.2.2**) in order to make corrections with the help of the << **Back** button on the left below
2. *To return to the main menu* you can use the **Exit** button.

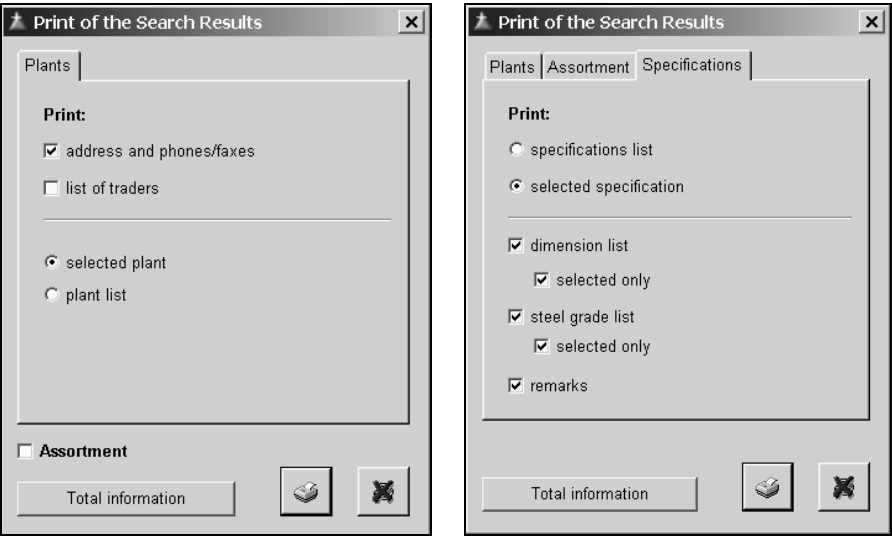
### 4.2.4. Saving and Printing of Search Findings

Information found during the search can be *printed* and/or *saved in html file*, which you can operate with in other Windows applications.

#### Printing

The print settings procedure is called from the search findings view procedure with

the help of the  button or using the **Print** item of the pop-up menu (called by the right mouse button click from the upper window).



**Fig. 4.20    Print setting procedure**

The print setting procedure window includes three pages: **Plants**, **Assortment** and **Specifications** (see Fig. 4.20). What page will be screened depends on what line was highlighted in the list of plants, assortments and specifications in the upper window when the print setting procedure was called.

So, when the print setting procedure is called the screen will show page as follows:

- **Plants** if the line with the name of the plant or holding was highlighted;
- **Assortment** if the line with the name of the standard on assortment was selected;
- **Specifications** if the line with the name of the standard for specifications was highlighted.

## The Plants page

You can do the following on the **Plants** page:

- Select what to print: information on only one highlighted plant (holding) or on all plants found as a result of search. To do it, you must use the relevant *Radio Button* in the lower part of the page.
- Identify what information on the plant (plants) will be printed. To do it, please use the *Check Boxes* in the upper part of the page. Only address data (address, phone and fax nos, E-mail, etc.) are default printed (the **address and phones/faxes** *Check Box* is selected). At your wish you can also print the data on the product distributors also. To do it please select the **list of traders** *Check Box*. If both *Check Boxes* are not selected only the names of the plants will be printed.

The **Total Information** button is used to print at once *all information* on all the plants found during the search.

If, apart from the data on plant (plants) you want to print the data on the products made by them as well you must select the **Assortment** *Check Box* in the lower part of the page. Here above the **Assortment** Tab will appear using which you can go to this page.

## The Assortment page

Depending on where from you came to the **Assortment** page one of the *Radio Buttons* will be default selected in the upper part of the page:

- **selected assortment** if the page was called from the search findings view procedure;
- **list of assortments** if you came to this page from the **Plants** page.

When the **list of assortments** of *Radio Button* is selected the list of standards for assortment according to which the required products are made by the selected plant (plants) is printed. The **selected assortment** *Radio Button* will permit the printing of the information only on the assortment highlighted in the search findings view procedure.

Besides the data on assortments, you can also print:

- Data on dimensions of products made in accordance with each assortment. To do it, you must select the **dimension list** *Check Box*. If the products were searched with due regard to dimensions as well the information only on dimensions corresponding to the input values is default printed. If you want to print information on all dimensions for each assortment delete the ☒ icon from the **selected only** *Check Box*.
- Data on steel grades used to make the found products. To do it, select the **steel grade list** *Check Box*. If producers were searched by steel grades only data on

steels selected for search will be default printed. If you want to print information on all steel grades used to manufacture each assortment use the **selected only Check Box**.

Use the **Total Information** button to print *all information on all assortments* as well as dimensions of selected steel products and steel grades the products are made from.

If, besides the data on plants and assortments, you also want to print information on specifications select the **Specifications Check Box** in the lower part of the window. Here the title Tab will appear above using which you can go to this page.

### The Specifications page

As with the **Assortment** page, depending on where from you came to the **Specifications** page, one of the *Radio Buttons* will be default selected in its upper part:

- **selected specification** if the page was called from the search findings view procedure;
- **specifications list** if you came to this page from the **Assortment** page.


If the **specifications list Radio Button** is selected the list of standards for specifications according to which the found plant (plants) manufactures the required products is default printed. The **selected specification Radio Button** will permit the printing of the information only on that standard for specifications which was highlighted in the search findings view procedure.


Besides the standards for specifications, you can also print:


- Information on dimensions of products made in accordance with each specification. To do it, please select the **dimension list Check Box**. If the search was carried out with regard to dimensions as well the information only on dimensions corresponding to the input values is default printed. If you want to print the information on all dimensions for each specification delete the ☒ icon from the **selected only Check Box**.
- Data on steel grades used to make the selected products. To do it, select the **steel grade list Check Box**. If the producers were searched by steel grades the information only on steels selected for the search will be default printed. If you want to print the information on all steel grades used to make products conforming to each specification use the **selected only Check Box**.
- Additional information on the products made in accordance with each assortment and specifications. To do it, select the **remarks Check Box**.

The **Total Information** button is used to print *all information on specifications* as well as dimensions of required steel products and grades they are made from.

Start printing

When you defined what information to print click the  button to **start printing**.

If you changed your mind use the  button to **go back** to the preceding procedure.

Please note that on clicking the  button *printing will not be done immediately*. For you to assess the scope of information to be printed, we introduced a special **Report Preview** utility. It will permit a preview of the report prepared for printing to be screened on the display (see Fig. 4.21).

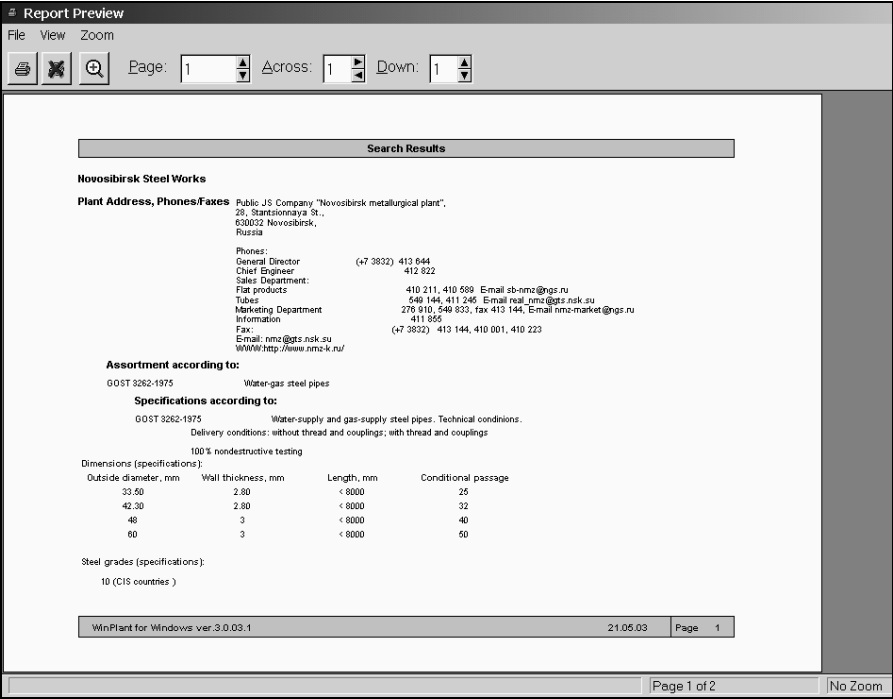




Fig. 4.21 Report Preview


The total number of pages is shown in the lower string of the screen on the right. The pages are moved around and viewed with the help of relevant arrows in the **Page:** string in the upper part of the screen or relevant items of the **View** menu. At

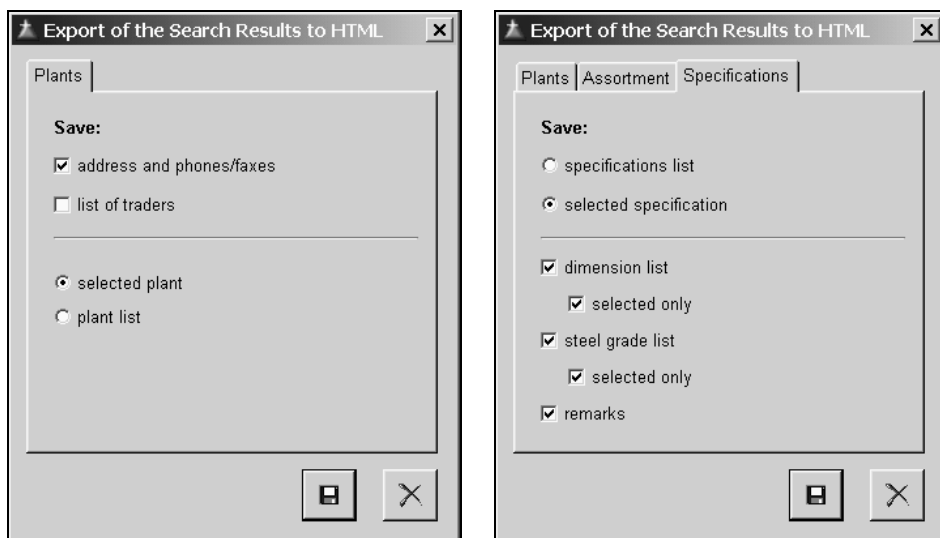
your wish the screened image can be enlarged or reduced. To do it, use the  button or the **Zoom** menu.

The **printing operation proper begins** when the  button is clicked or the **Print** item of the **File** menu is selected. **To cancel printing and go back** to the

print setting procedure click the  button or use the **Exit** item of the **File** menu.

## Saving of Information in HTML File

The procedure of setting an html file is called by the  button or using the **Export to HTML** item of the pop-up menu.



**Fig. 4.22 Export setting procedure**

As with printing, the volume of information to be saved in html file will depend on what line (with the name of plant, assortment or specifications) was highlighted in the search findings view procedure when the procedure of setting was called. When it is called the following page will be screened (see **Fig. 4.22**):

- **Plants** if the line with the name of the plant was highlighted;
- **Assortment** if the line with the name of the standard for assortment was selected;
- **Specifications** if the line with the name of the standard for specifications was highlighted.

## The Plants page

On the **Plants** page you will be able to:

- Select what to save: information on only one plant (holding) selected by you or all plants found as a result of the search. To do it, you must use the relevant *Radio Button* in the lower part of the page. Only information on the selected plant (holding) will be default saved.
- Identify what information on plant (plants) must be saved. To do it, use the relevant *Check Boxes* in the upper part of the page. Only address data: address, phone and fax nos., E-mail, etc., are default printed (the **address and phones/faxes** *Check Box* is selected). At your wish you can also save data on product distributors (select the **list of traders** *Check Box*). If the both *Check Boxes* are not selected only the names of the plants will be saved.

## The Assortment page

The **selected assortment** *Radio Button* is default selected on the **Assortment** page, i.e., only the information on products made according to the selected assortment by the selected plant will be exported. The name of the plant and address information will be also default saved.

At your wish you can save data on not only one selected assortment but on all assortments in compliance with which the required products are made by the selected plant. To do it, it is necessary to use the **assortment list** *Radio Button*.

Besides the list of assortments, you can also save:

- Data on dimensions of the products of the required assortment. To do it, select the **dimension list** *Check Box*. If the products were searched with regard to dimensions as well the data only on those dimensions, which correspond to the input values, are default saved. If you want to save data on all dimensions of required products delete the ☒ sign from the **selected only** *Check Box*.
- Data on steel grades used to make the selected products. Use the **steel grade list** *Check Box* to save data on the grades. If the search was carried out by steel grades only data on the selected steels are default saved. If you want to save data on all steel grades which are used to make the required products use the **selected only** *Check Box*.

We have pointed out above that along with the data on products the address information on the plant, which makes the products of the selected assortment, will be default saved in html file. If you do not need this information or if you also want to save the information on the product distributors of the plant use relevant *Check Boxes* on the **Plants** page where you can go with the help of the title Tab.

## The Specifications page

The **selected specification** *Radio Button* is default selected on the **Specifications** page, i.e., only the data on products made according to the highlighted specification



by the selected plant will be saved. The default saving will also include the name of the selected plant, address data and the name of the standard for assortment which is related to the above specification.


At your wish you can export the data on all specifications according to which the products of the selected assortment is produced by the selected plant. To do it, use the **specifications list Radio Button**.


Besides the list of specifications, you can also save:

- Data on dimensions of products made in compliance with the selected specification. Use the **dimension list Check Box** to export these data. If the products were searched by dimensions as well only information on those dimensions, which correspond to the input values is default saved. If you want to save information on all dimensions of products complying with each specification delete the ☒ sign from the **selected only Check Box**.
- Data on steel grades used to make the selected products. Use the **steel grade list Check Box** to export data on the grades. If the search included steel grades, as parameter only data on steels selected for the search will be default exported. If you want to save information on all steel grades used to make products meeting the selected specifications use the **selected only Check Box**.
- Additional information on products meeting the selected specifications. Use the **remarks Check Box** to save this information.

As with assortments, you can also save the information on product distributors of the selected plant. Use the relevant *Check Box* on the **Plants** page to which you can go using the title Tab. On the same page you can also delete the address data of the plant from the saving operation if you do not need them.

## Start of saving

When you identified what information would be saved in html file click the  button. Here the screen will display the standard Windows window offering you to input the file name to save and select a directory to write the file. The default file will have an extension of **htm** and be saved in the directory where you installed the software.

To go back to the search findings view procedure without saving information in html file, use the  button.

### 4.3. How to Operate with Help

Help is intended for getting reference information in the process of operation with **WinPlant. BLACK** software. Help is arranged in a standard Windows way. Using the Help, you can:

- get reference information, connected with the current procedure (window) of **WinPlant. BLACK** software;
- enter the Contents (main window) of the Help;
- find the required information by selected keywords;
- get a standard Windows reference on the operation with the Help;
- display the information on right owners of the software – Quantor-Soft Metal.

Below we will describe briefly the methods of operating with Help. You can get more detailed information in appropriate Windows reference books and manuals. The Users well acquainted with the operation with Windows Help can skip the next section.

#### Entering Help

In the course of operation with the **WinPlant. BLACK** software, you can call the Help in one of three ways:

- by pressing **F1** - in this case the Help section connected with the current window will appear on the screen;
- by selecting the **Contents** item of the **Help** menu – the main Help section named **Contents** will appear on the screen;
- by selecting the **Search for Help On...** item in the same menu – by means of this menu item, you can pass to those Help sections that contain information you are interested in (the way to do it will be described below).

Apart from the above ways, you can enter the Help by means of the **WinPlant Help** item of the **WinPlant. BLACK** menu (called through **Start / Programs** – see para 2.2 for details).

You can exit from the Help by means of the relevant item of the **File** menu.

#### Operation with Help

The Help consists of sections connected with the current window of the **WinPlant. BLACK** software. Having entered Help, besides reading current information, you can pass to its various sections and have opportunity to get more detailed information on the software. You can move through the Help sections by means of buttons and *Jump* and *Pop-up* fields.

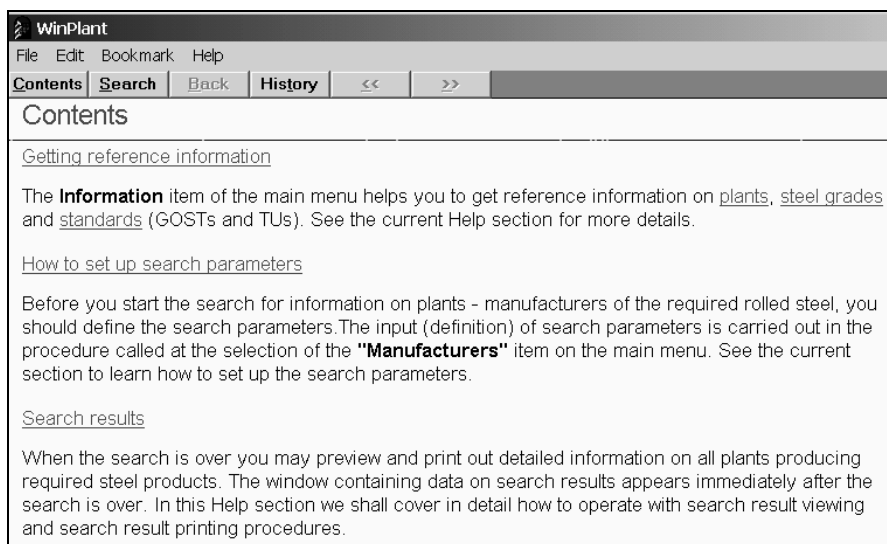
## Buttons

Operating buttons of the Help are located in the top part of the screen under the items on the main menu (see **Fig. 4.23**).

The purpose of the buttons is described below.

The **Contents** button is used in cases when you need to go back to the main Help menu. The action of this button is similar to the **Contents** item on the **Help** menu of the **WinPlant. BLACK** software.

The **Search** button is used for searching reference information by keywords. You can also accomplish these operations by means of the **Search for Help On...** item on the **Help** menu (see details below).



**Fig. 4.23 Part of Help window**

The **Back** button will return you to the previous Help window (that you had viewed before the current window was called).

The **Print** button serves for printing the text information of the current Help window.

## Jumps and Pop-up's

The *Jump* fields are used for quick transfer from one Help window to another, and the *Pop-up* fields are used for getting further (mostly detailed) information. The above fields are parts of Help text marked as a rule with green font and underlined with full line (*Jumps*) or with dotted line (*Pop-up's*).

The operation with these fields is carried out as follows. You should point the mouse to the required field (the shape of the cursor will change) and click the left mouse button. In this way you either pass to another Help window semantically connected with the text of the chosen field (for *Jumps*), or display another window with information specifying the chosen text (for *Pop-up's*).

### Search for Help Information by Keywords

The mode of information search by keywords is called through the **Search for Help On...** item of the **WinPlant. BLACK Help** menu or by Help **Search** button. The search procedure operates as follows:

- at first the **Help: WinPlant** window appears; the keyword list-box is located in the lower part of the window;
- highlight the required keyword by means of the mouse and scroll bars or locator (situated in the upper line over the list-box);
- click the **Display** button located at the bottom of the window, and the **Sections found** window appears on the screen;
- among the suggested sections, choose the section that interests you and click the **Display** button of the **Sections found** window;
- as a result, you will enter the chosen Help section.






In the authors' opinion, the above minimum information is quite enough for efficient operation with the Help. You can get further information (including the operation of the Help menu) using the **How to Use Help** item of the **Help** menu, or in relevant Windows manuals.



## 5. Software Operation Examples <sup>1</sup>

### Example 1.

#### Search for plants producing reinforcing steel bars of 35GS and 25G2S steel grades





1. Select the **Manufacturers** item of the software main menu.
2. In the appearing **Search for a Product Type** window click the  icon on the left of the **Steel long products** line and in that way extract this branch of the product type tree.
3. Highlight the **Reinforcing bars/rods** line.
4. To pass to the next step click the **Continue >>** button.
5. On the right part of the **Reinforcing bars/rods** page click the  button and thus include all plants from the lower list-box to the search. The  icon on the left of the **Search by plants Check Box** will be changed to .
6. Include the **Search by Steel Grades** parameter into the list of the search parameters by clicking the relevant *Check Box* on the left.
7. In the lower list-box of the **Steel Grades** page, which will be screened, select the **25G2S** grade using the locator.
8. Highlight this grade and click the  button between the list-boxes. The **25G2S** grade is appeared in the upper list-box. This means that the grade is selected for the search.
9. Find the **35GS** steel grade in the lower list-box and include it into the search by the same way.
10. Click the **Search >>** button and thus start the searching.
11. As a result **36** plants will be found. To see detailed information on these plants and their products use directions described in **4.2.4**.

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<sup>1</sup> When you repeat the examples from this section on your PC the search results can differ from the results stated below. The reason is that you operate with new software release with the updated database.

## Example 2.







**Search for Ukrainian plants producing plates of St3kp, St3ps, St3sp grades**

1. Select the **Manufacturers** item of the software main menu.
2. In the appearing **Search for a Product Type** window click the  icon on the left of the **Flat rolled products** line and in that way extract this branch of the product type tree.
3. Highlight the **Plates, sheets, strips** line.
4. To pass to the next step click the **Continue >>** button.
5. In the lower part of the **Plants** page go to the **Regions** sub-page by clicking the relevant Tab.
6. Highlight the **Ukraine** line in the lower list-box and click the  button. Thus all plants located in this region will be included into the search.
7. Include the **Search by Steel Grades** parameter into the list of the search parameters by clicking the relevant *Check Box* on the left.
8. In the lower list-box of the **Steel Grades** page, which will be screened, select the **St3kp** grade using the locator.
9. Highlight this grade and click the  button between the list-boxes. The **St3kp** grade is appeared in the upper list-box. This means that the grade is selected for the search.
10. In turn find the **St3sp** and **St3ps** steel grades in the lower list-box and include them into the search by the same way.
11. Include the **Search by Context** parameter into the list of the search parameters by clicking the relevant *Check Box* on the left.
12. In the lower part of the **Dimensions & Context** page, which will be screened, input **PLATE** into the **Fragment:** string.
13. Click the **Refresh** button. As a result the **Search by Assortment** and the **Search by Specifications** parameters will be included into the list of the search parameters automatically.
14. Pass to the **Assortment** page by clicking the relevant Tab and click the  button between the list-boxes. Thus all red colored assortments, which satisfy to the input context, will be included into the search.
15. Exclude the **Search by Specifications** parameter from the list of search by clicking the relevant *Check Box* on the left. The **Specifications** page will disappear at that.

16. Click the **Search >>** button and thus start the searching.
17. As a result **8** plants will be found. To see detailed information on these plants and their products use directions described in **4.2.4**.

### Example 3.

#### **Search for plants producing seamless pipes for oil and gas pipelines according to API 5L standard of X-46, X-50 grades. Outside diameter is 141.3 mm; wall thickness is 9.5 mm**






1. Select the **Manufacturers** item of the software main menu.
2. In the appearing **Search for a Product Type** window click the  icon on the left of the **Tubes and pipes** line and in that way extract this branch of the product type tree.
3. In the same way extract the **Round tubes/pipes** branch of second tree level by clicking the  icon on the left.
4. Highlight the **Seamless tubes/pipes** line.
5. To pass to the next step click the **Continue >>** button.
6. On the right part of the **Seamless tubes/pipes** page click the  button and thus include all plants from the lower list-box to the search. The  icon on the left of the **Search by plants Check Box** will be changed to .
7. Include the **Search by Steel Grades** parameter into the list of the search parameters by clicking the relevant *Check Box* on the left.
8. In the lower list-box of the **Steel Grades** page, which will be screened, select the **5L Gr X-46** grade using the locator.
9. Highlight this grade and click the  button between the list-boxes. The **5L Gr X-46** grade is appeared in the upper list-box. This means that the grade is selected for the search.
10. Find the **5L Gr X-52** steel grade in the lower list-box and include it into the search by the same way.
11. Include the **Search by Dimensions** parameter into the list of the search parameters by clicking the relevant *Check Box* on the left.
12. In the upper part of the **Dimensions & Context** page, which will be screened, select the **Outside diameter, mm** dimension using the relevant *Check Box*.
13. Input minimum and maximum values of the selected dimension **141.3** and **141.3** to the corresponding fields on the right.



14. Similarly select the **Wall thickness, mm** dimension and input its values: **9.5 – 9.5**.
15. Click the **Search >>** button and thus start the searching.
16. As a result **5** plants will be found. To see detailed information on these plants and their products use directions described in **4.2.4**.

#### Example 4.







### Search for plants producing round spring wire according to foreign standards

1. Select the **Manufacturers** item of the software main menu.
2. In the appearing **Search for a Product Type** window pass to the **Search by Context** page by using the relevant Tab.
3. On the **Search by Context** page input the **SPRING** value in the **Fragment** string on the bottom.
4. Click the **Select** button on the right. On the central part of the window the reduced product type tree is screened. All the branches of this tree are concerned with the input fragment.
5. Click the  icon on the left of the **Wire** line and in that way extract this branch of the product type tree.
6. Highlight the **Round wire** line.
7. To pass to the next step click the **Continue >>** button.
8. On the right part of the **Round wire** page click the  button and thus include all plants from the lower list-box to the search. The  icon on the left of the **Search by plants Check Box** will be changed to .
9. Include the **Search by Assortment** parameter into the list of the search parameters by clicking the relevant *Check Box* on the left.
10. In the lower list-box of the **Assortment** page, which will be screened, select the **ASTM A29 Spring wire** standard marked with red colour.
11. Highlight this line and click the  button between the list-boxes. The highlighted standard is appeared in the upper list-box. This means that the standard is selected for the search.
12. In turn find the red marked **DIN 17221** (two records) and **DIN 17223** standards in the lower list-box and include them into the search by the same way.
13. Click the **Search >>** button and thus start the searching.

14. As a result **2** plants **Izhstal** and **Silur** will be found. To see detailed information on these plants and their products use directions described in **4.2.4**.

### Example 5.

#### **Search for plants producing square billets from 10 steel grade. The gauge is 100 mm, length is no less than 8 m**

1. Select the **Manufacturers** item of the software main menu.
2. In the appearing **Search for a Product Type** window click the  icon on the left of the **Steel long products** line and in that way extract this branch of the product type tree.
3. In the same way extract the **Square billets/bars** branch of the second tree level by clicking the  icon on the left.
4. Highlight the **Ordinary square billets/bars** line.
5. To pass to the next step click the **Continue >>** button.
6. On the right part of the **Ordinary square billets/bars** page click the  button and thus include all plants from the lower list-box to the search. The  icon on the left of the **Search by plants Check Box** will be changed to .
7. Include the **Search by Steel Grades** parameter into the list of the search parameters by clicking the relevant *Check Box* on the left.
8. In the lower list-box of the **Steel Grades** page, which will be screened, select the **10** grade using the locator.
9. Highlight this grade and click the  button between the list-boxes. The **10** grade is appeared in the upper list-box. This means that the grade is selected for the search.
10. Include the **Search by Dimensions** parameter into the list of the search parameters by clicking the relevant *Check Box* on the left.
11. In the upper part of the **Dimensions & Context** page, which will be screened, select the **Gauge, mm** dimension using the relevant *Check Box*.
12. Input minimum and maximum values of the selected dimension **100** and **100** to the corresponding fields on the right.
13. Similarly select the **Length, mm** dimension and input its values: **8000 – 20000**.
14. Click the **Search >>** button and thus start the searching.
15. As a result **13** plants will be found. To see detailed information on these plants and their products use directions described in **4.2.4**.





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