

## Programska oprema Phoenix<sup>®</sup>, različica 10.7.0

Opombe ob izdaji

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EDGE, Phoenix, HPR, HPRXD, CutPro, ProNest, SensorTHC, True Hole, XPR300 in Hypertherm so blagovne znamke družbe Hypertherm Inc. in so morda registrirane v Združenih državah in/ali v drugih državah. EtherCAT je blagovna znamka družbe Beckhoff Automation. Vse druge blagovne znamke so last njihovih lastnikov.

Ena od ključnih dolgoročnih vrednot družbe Hypertherm je tudi zmanjševanje našega vpliva na okolje. To je zelo pomembno za uspeh nas in naših kupcev. Od nekdanj si prizadevamo k boljšemu okoljskemu upravljanju in to je proces, za katerega nam je resnično mar.

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# *Install updates*

## Before you begin

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### CAUTION



**Create a backup of your CNC before AND after any updates are performed.  
Run the EDGE Connect Suite Installer before you update Phoenix.**

Do the following:

- **Make sure the CNC has image 27 or later and Phoenix version 10.00.0 or later.** Do not install this update if the CNC does not have these software versions.
  - To check which versions the CNC has, choose **Main > Setups > Diagnostics > Control Information**. Under **Software Versions**, see the **Phoenix** and **System Image** boxes. If you need to update the system to image 27 or later and Phoenix version 10.00.0 or later, contact your regional Product Application Engineer (PAE) or Technical Support Team.
- Create a back up of your CNC before and after any updates are performed. See *Backup and Restore the System* in the *EDGE Connect Installation and Setup manual* (809340) for details.
- Back up the CNC's system files: choose **Main > Files > Save to Disk > Save System Files to Disk**.

## Install updates


- If the CNC has a custom software operator console (Soft Op Con), back up the custom Soft Op Con application and associated **steps.json** file by copying the files to a USB memory stick. The steps.json file is located in the C:\Phoenix folder. The custom Soft Op Con files are located wherever they were saved originally. They are often located in a folder in the Phoenix folder.



If a unique name was not used for the custom Soft Op Con when it was created, the custom Soft Op Con will be replaced and any existing files will be overwritten with the standard Hypertherm Soft Op Con when this update is installed.

## Available updates

Based on your system configuration you may need to complete all of the updates shown below.

- CNC software (CNC system software **only**)
  - EDGE® Connect Suite Installer (updates ProNest® CNC, EtherCAT® Master Stack, Backup and Restore utility, and INtime®)
  - Phoenix software
  - Cut charts
  - Online help file
- XPR firmware
  - For instructions on updating the firmware and where to find the update see the *XPR300 Firmware Updates Field Service Bulletin* (809820).
  - Go to *Software versions* on page 37 to see the XPR firmware version that is compatible with this Phoenix release.
- ProNest 2017
  -  ProNest 2017 is the desktop version. **This is not the update for ProNest CNC.**
- Manuals



## Download the updates

1. On the [www.hypertherm.com](http://www.hypertherm.com) website, choose **Customer support > Product service > Phoenix software updates**.
2. Click **GET FILES** for the software updates
3. Right-click on the software file for the applicable language and save it to the root directory of a USB memory stick.



We recommend updating Phoenix in two parts if you are installing a language. First update the CNC with the English version and then update Phoenix using the language of choice.

4. Install the software in the following order. See figure below.
  - a. EDGE Connect Suite Installer
  - b. Phoenix software
  - c. Cut charts
  - d. Online help

Phoenix version 10 is only to be used with EDGE® Connect CNCs.

### To install update:

1. Check the **release notes** for important product and software installation information.

- English (900KB)

2. Download the **cut chart file** (includes all languages).



**DOWNLOAD CUT CHARTS (412KB)**

3. Click on the language below and download the files you need.




Language	Release notes	Phoenix update	Online CNC Help file	EDGE Connect Suite installer (ProNest CNC only)
English	900KB	15MB	700KB	280MB
Chinese - simplified		26MB	700KB	

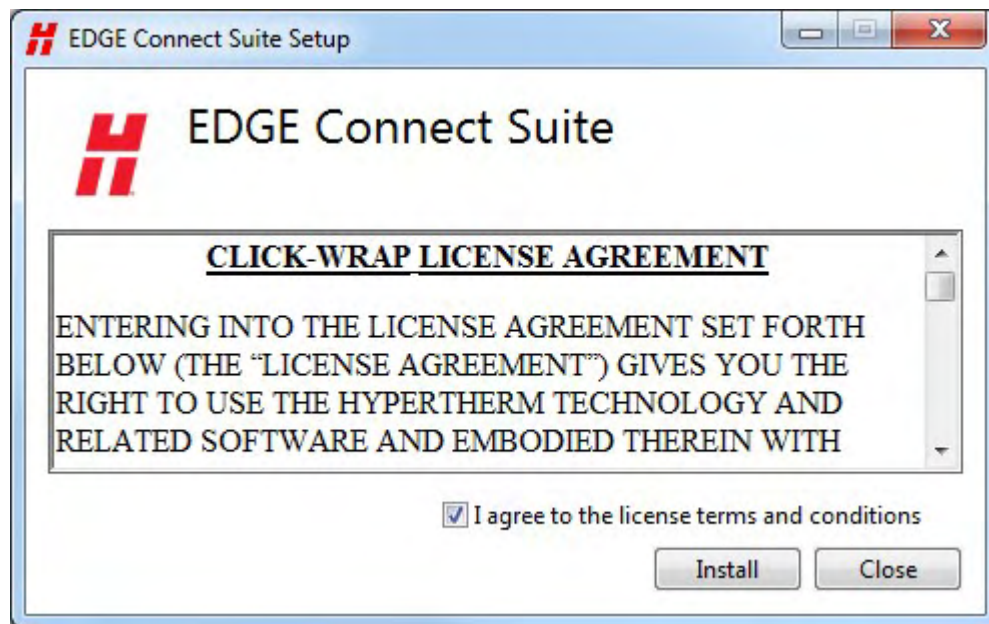
The EDGE Connect Suite Installer now updates: ProNest CNC, EtherCAT Master Stack, Backup and Restore utility, and INtime


- e. ProNest 2017. See *Install ProNest 2017 version x.x.x.* on page 13.
- f. Manuals. See *Update manuals* on page 13.

## Install the updates

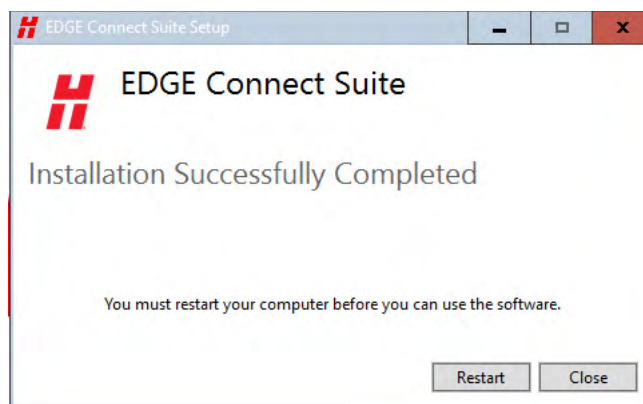
### Update the EDGE Connect Suite Installer

1. At the CNC, put the USB memory stick in a USB connector on the CNC.
2. Click anywhere in the **Main** screen of Phoenix, and then press **Alt+F4** to exit Phoenix.
3. Close any other software running on the CNC.
4. Click the Windows® Start button and go to File Explorer to view the USB contents.
5. Copy the EDGE\_Connect\_Suite\_x.x.x.x\_x86\_en.exe file to the **C:\Phoenix** directory.
  -  Delete the file after the update is complete.
6. Double-click the **EDGE\_Connect\_Suite\_x.x.x.x\_x86\_en.exe** file. An installer window opens.
7. Check the box to agree to the terms and conditions, and then click **Install** to begin the process.



-  The CNC may restart multiple times during the update.

8. When you see the Installation Successfully Completed message shown below, click Restart.



9. After the CNC restarts two errors **ntx.dll and nttext.dll missing** may appear. Click OK to clear the errors. When the installation is complete, two messages are displayed - **Installation Successfully Completed** and **The Archive Was Restored Successfully** (disregard this message). Click Restart again.



If your cutting system has Phoenix version 10.3.1 or earlier and you are using Yaskawa EtherCAT drives, you need to re-configure the EtherCAT network after installing this update. That is, re-scan the EtherCAT network and create a new Phoenix.xml file. See the *Configure the EtherCAT Network* section in the *EDGE Connect Installation and Setup Manual* (809340) for instructions.

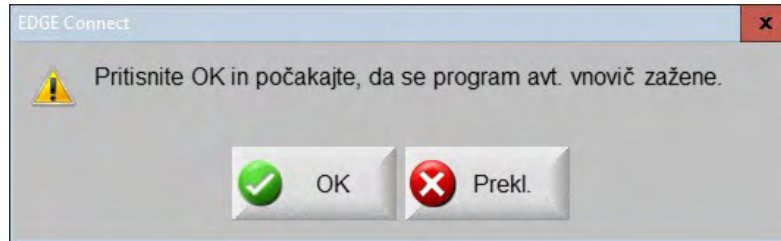
## Update Phoenix

1. To update Phoenix choose **Setups > Password** on the **Main** screen.
2. Type **UPDATESOFTWARE** (one word) and then choose **OK**.



The update software password will cause Phoenix to look for the PhoenixSuiteInstaller.exe file on your thumb drive.

3. When prompted, choose **OK**.



4. Wait while the update is installed.

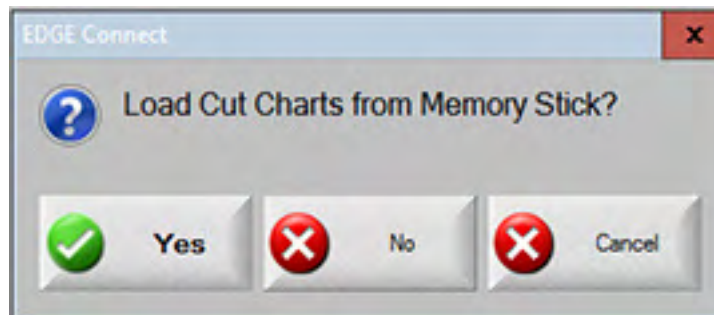


Multiple windows will open and close automatically. This is normal.

5. Once the update is installed, the CNC restarts and Phoenix opens and begins to start the EtherCAT network.

## Update the cut charts

1. Download the cut charts to a USB memory stick. See *Download the updates* on page 9.
2. At the CNC, put the USB memory stick in a USB connector on the CNC.
3. Go to the **Cut Chart** screen (**Main > Setups > Process > Cut Chart**) and select the **Load Cut Charts** soft key.
4. Select Yes when the following message appears.



5. A status message appears. The update is complete when the status message disappears.



Phoenix must be restarted to make the new cut charts available

## Update the online CNC help

1. Download the **Online CNC Help** file to a USB memory stick. See *Download the updates* on page 9.
2. At the CNC, put the USB memory stick in a USB connector on the CNC.
3. Go to the **Special Setups** screen (**Main > Setups > Password > Special Setups**) and select the **Update Help** soft key.
4. A status message appears. The update is complete when the status message disappears.

## Update manuals

1. Go to the Hypertherm Document Library at [www.hypertherm.com/docs](http://www.hypertherm.com/docs) and download the manuals you want to update onto the USB memory stick.
2. At the CNC, put the USB memory stick in a USB connector on the CNC.
3. Go to the **Special Setups** screen (**Main > Setups > Password > Special Setups**) and select the **Update Manuals** soft key.
4. Click **OK** when the status message appears that says the update is complete.

## Install ProNest 2017 version x.x.x.

1. Log in (or create a new account as needed) to the [Hypertherm CAD/CAM Software Knowledge Base](#).
2. Choose **ProNest > Downloads > ProNest 2017 > Get the latest version of ProNest 2017**.
3. Follow the instructions provided in the knowledge base.



The knowledge base contains more information about the ProNest update as well as a variety of relevant CAM-specific training and educational content for channel partners.

4. Contact your regional Product Application Engineer (PAE) or [Technical Support Team](#) to get the latest XPR Machine Setup for this version of ProNest.

## Update the XPR firmware

For instructions on how to update the XPR firmware see the *XPR300 Firmware Updates Field Service Bulletin (809820)*. If you do not have this document, Technical documentation is available at [www.hypertherm.com/docs](http://www.hypertherm.com/docs).

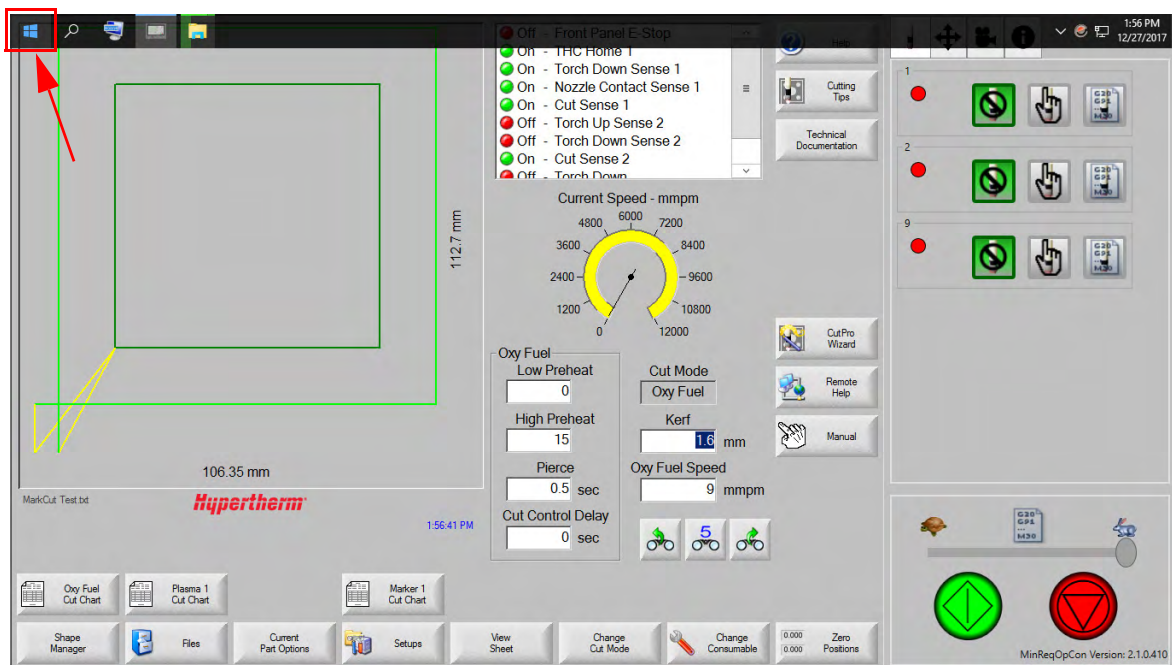
## Replacing the launcher shortcut

This section is for TSEs, PAEs, and OEMs who are upgrading an existing system to Phoenix 10.6.

In the 10.6 release the name of the launcher changed from Phoenix Launcher to EDGE Connect Launcher to highlight that more than just Phoenix software is launched when the EDGE Connect launcher is used.

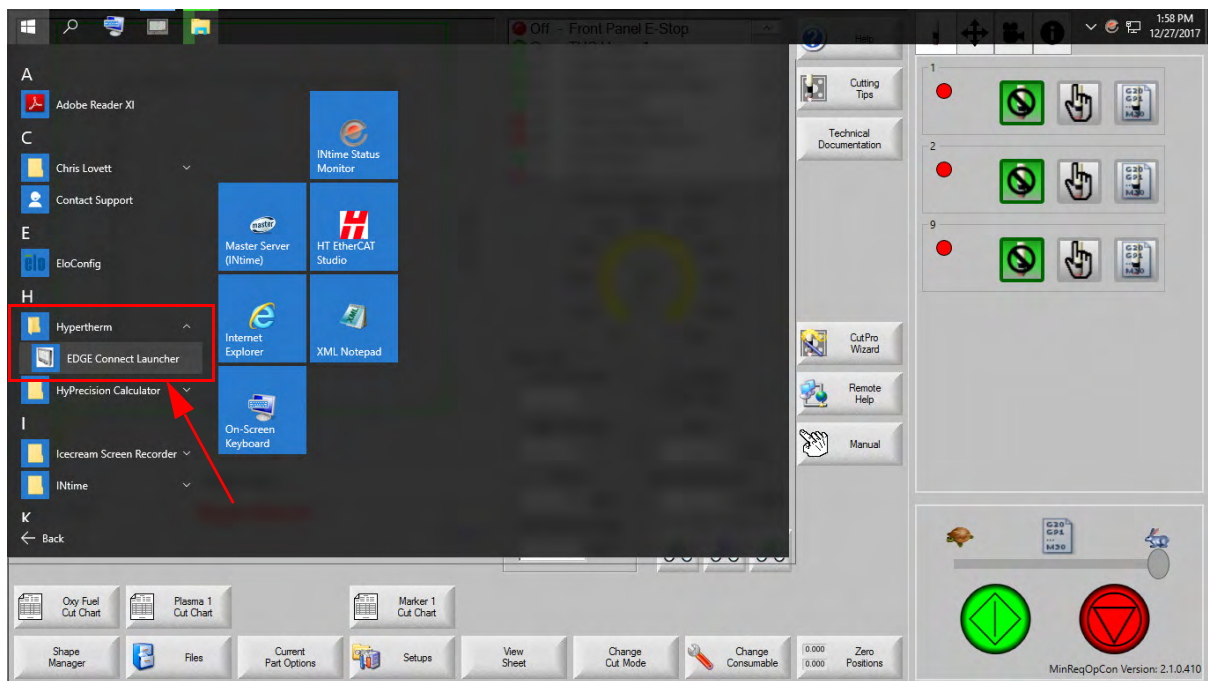
The Edge Connect software automatically starts when the EDGE Connect is powered on. The software can be launched manually by opening the Windows Start menu and selecting the Phoenix Launcher shortcut. In the 10.6 release the short cut was removed from the Start Menu. To add a short cut back to the Start menu follow the steps below.

1. To make the task bar visible, position the mouse at the top of the screen or drag a finger from the top of the screen down.
2. Select the Start menu icon in the upper left corner of the screen and select All apps at the bottom of the menu.

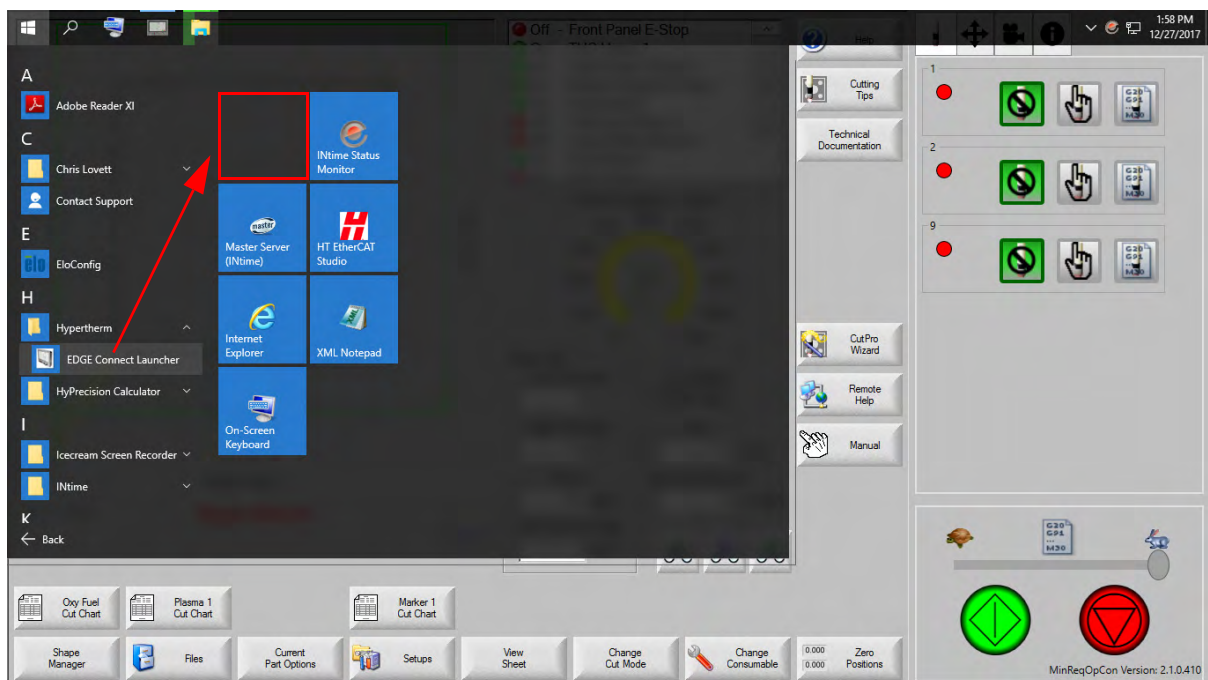




3. Look for the Hypertherm folder and select it to expand the list and show the EDGE Connect Launcher short cut.



4. Pin the EDGE Connect Launcher short cut to the Start menu by dragging and dropping the EDGE Connect Launcher to the Start Menu.



***Install updates***



# Različica 10.7.0

## Opombe ob izdaji

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### Nove funkcije

- Dodana je bila možnost spremljanja diagnostike za največ dva plazemska izvora XPR300 na CNC-ju prek omrežja EtherCAT. Zdaj si lahko v Phoenixu ogledate večino informacij o plazemskem izvoru, plinskem sistemu in diagnostičnih kodah, kot jih lahko najdete v spletnem vmesniku XPR na vaši brezžični napravi.
  - Če želite odpreti pogled Diagnostika XPR v Phoenixu, izberite Nastavitve > Diagnostika > Sistem XPR.
  - Za več informacij glejte dokument *Cut and Mark with an XPR300™ on an EDGE® Connect CNC* (809900, revizija 3).
- Phoenix zdaj preveri ujemanje ločljivosti zaslona z nastavitvami, ki jih priporoča Hypertherm. Če se nastavitev ne ujema z nastavitvami, ki jih priporoča Hypertherm, se ob zagonu prikaže sporočilo.
  - Če želite ohraniti trenutne nastavitve, izberite Ne. Sporočilo se ne bo več prikazalo.
  - Če želite odpreti nadzorno ploščo zaslona in spremeniti zaslonske nastavitve, izberite Da. Po spremembi zaslonskih nastavitvev se bo sporočilo prenehalo prikazovati.

Na zaslon Sistemska orodja je bil dodan gumb Zaslonske nastavitve, s katerim lahko kadarkoli zaženete sistemsko nadzorno ploščo zaslona za preprostejšo prilagoditev zaslonskih nastavitvev.
- Ob zagonu Phoenixa se za tri sekunde pokaže logotip Hypertherm 50 YEARS OF SHAPING POSSIBILITY. Logotip bo viden samo v koledarskem letu 2018.

## Nova in posodobljena dokumentacija

- Ustvarjeno je bilo obvestilo za servisno službo *RMA Process for Software Features* (810150) z navodili za odstranitev programskih funkcij iz CNC-jev EDGE Connect. Obvestilo za servisno službo je na voljo v Hyperthermovi knjižnici dokumentov na naslovu [www.hypertherm.com/docs](http://www.hypertherm.com/docs).
- Posodobljen je bil dodatek k priročniku *Cut and Mark with an XPR300 on an EDGE Connect CNC* (809900). Dodatek k priročniku je na voljo v Hyperthermovi knjižnici dokumentov na naslovu [www.hypertherm.com/docs](http://www.hypertherm.com/docs).
- V HTML-pomoč za Phoenix so bila dodana navodila za ogled Diagnostike XPR na CNC-ju prek omrežja EtherCAT.

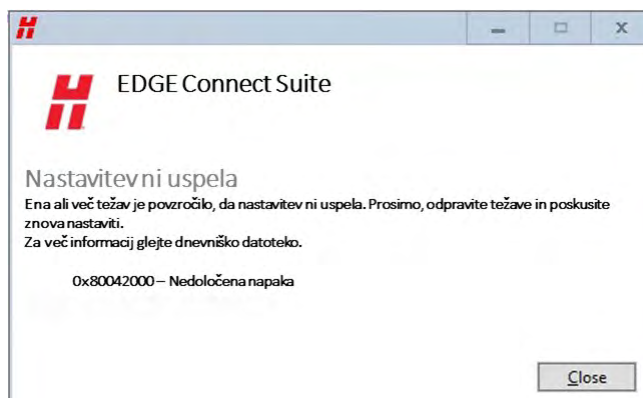
## Izboljšave

- Dodana podpora za 4-kanalni digitalni izhodni modul Beckhoff EL2004.

## Odpravljene težave pri Phoenixu

- Odpravljena je bila težava, ko se preslikane omrežne mape niso pravilno ohranile po ponovnem zagonu Phoenixa in sistema EDGE Connect.
- Odpravljena je bila možnost scenarija, v katerem se lahko ročno premikanje s krmilno palico ustavi, zažene ali izvede v napačno smer, kadar so izpolnjeni naslednji pogoji. Obstaja tudi možnost, da stroj obtiči na programski meji, kadar so izpolnjeni ti pogoji:
  - Dvojna prečna os je omogočena in prezrcaljena.
  - Stroj je bil premaknjen v domači položaj in programske meje so bile omogočene na zaslonih za nastavitve prečne in vzdolžne osi.
- Odpravljena je bila težava z enojno plazemsko postajo, ko je bila nastavev Stop pri eni izgubi obloka onemogočena med rezanjem z enim plazemskim gorilnikom XPR na postaji 1. Če je prišlo do izgube obloka med rezanjem (izgube zaznave rezanja), se je gorilnik vrnil na vrh drsnika dvigala, rezalno gibanje pa se je nadaljevalo, dokler ni uporabnik pritisnil stop.
  - Zdaj se program pri enojni plazemski postaji in onemogočeni nastavitvi Stop pri eni izgubi obloka začasno prekine po tem, ko se izteče čas izklopa obloka, na CNC-ju pa se prikaže statusno sporočilo Izgubljena zaznava rezanja.
  - Pri več plazemskih postajah in onemogočeni nastavitvi Stop pri eni izgubi obloka se gorilnik v primeru izgube zaznave rezanja umakne, rezanje pa se nadaljuje na preostalih delujočih postajah.
- Odpravljena je bila težava, ko Phoenix ni ustvaril napake FieldbusDeviceFault za pogone Kollmorgen AKD, kadar je prišlo do napake ravni pogona pri Field Bus v delovnem stanju.
- Odpravljena je bila težava s Čarovnikom CutPro, ki je povzročila napako programa Phoenix ob izbiri Nazaj (vrnitev na prejšnji zaslon) ali ob izbiri tabele rezanja. Odpravljena je bila tudi težava pri premikanju naprej (preskakovanju) in nazaj (prejšnji) v Čarovniku CutPro, zaradi katere so se prikazala napačna polja tabele rezanja v oknu za izbiro procesa Čarovnika CutPro.

- Odpravljena je bila težava, do katere je prišlo ob ročni spremembi dela z nastavitvami Prezrcaljeno X ali Y na zaslonu Možnosti trenutnega dela. Če je bil del prezrcaljen s temi nastavitvami, lahko segmenti za hitro prečenje v delu povzročijo hardverski ali softverski podaljšan hod.
- Odpravljena je bila težava, ko se je namestitev zbirke EDGE Connect Suite zaradi napake v delu namestitve ProNest CNC. Prikazalo se je sporočilo o napaki Namestitev ni uspela skupaj s kodo napake 0x80042000 - Nedoločena napaka.



- Odpravljena je bila napaka, ko se je Phoenix prenehal odzivati, če je uporabnik naložil del s procesom za orodje, ki ni bilo konfigurirano za njegov rezalni stroj (če je bil naložen program HPR v CNC, ki je bil konfiguriran za XPR). Phoenix zdaj naredi prekinitve in za razlog prekinitve navede Zahtevan neveljaven proces v programu dela. Uporabnik mora pred vnovičnim zagonom tega programa odpraviti težavo.
  - Možen osnovni vzrok:
    - Naložite veljaven program dela za ta rezalni sistem
    - Program dela vsebuje kode G59 V5xx Fxx, ki izberejo tabelo rezanja za drugačno orodje.
    - Program dela vsebuje rezalni proces (označevanje, vodni curek, laser, plazma 2), ki ni konfiguriran. Npr. v programu dela so kode za označevanje M09/M10, toda proces označevanja je v tabeli rezanja nastavljen na Brez ali pa rezalni proces nima označevalnega procesa (za rezalno površino je nastavljeno Podvodno).
  - Možnosti za odpravo težav:
    - Začasno onemogočite **Premostitev kode EIA G59** v tabeli Programska koda na zaslonu Rezanje.
    - V Tabeli rezanja izberite rezalni proces, ki se ujema s programom dela. Za označevanje izberite plin za označevanje (N2 ali Ar).
    - Onemogočite **Premostitev izbire procesa**, če program kliče proces, ki ni konfiguriran na CNC-ju.
- Odpravljena je bila težava s prikazom nepravilne vrednosti parametra nastavitve hitrosti v watch window pri uporabi potenciometra za hitrost med poskusno izdelavo. Stroj se je sicer premikal s pravo hitrostjo, vendar ni bila prikazana prava hitrost v watch window.
- Operacija obnovitve zadnje različice zdaj pravilno povrne prejšnjo različico programske opreme v imeniku C:\Phoenix ter zeleni jezik.

### **Različica 10.7.0**

- Odstranjena je bila možnost, da operater premakne del do programske meje in nato nadaljuje z rezanjem po tem, ko se prikaže pogovorno okno za programske meje. Iz pogovornega okna je bila odstranjena izbira Prekliči in scenarij se zdaj ujema z obstoječimi kontrolami programskih mej.
- Odpravljena je bila težava z nepravilnim španskim prevodom napak Pogoni Fieldbus niso pripravljene in Ni bilo mogoče pridobiti sistemskih informacij.

## Različice programov



Za izvedbo te posodobitve je potrebna slika 27 ali novejša.

Različici programske opreme in vdelane programske opreme v trenutni posodobitvi sta prikazani na različnih mestih CNC-ja EDGE Connect. V spodnji tabeli so prikazana vsa mesta, kjer si je mogoče ogledati informacije o različicah.

- Za ogled informacij o različici programa Windows, Phoenix, Real-Time OS, Field Bus Master, Real-Time Module, PLC engine, System Image in Op Con APIs:

V **glavnem meniju** izberite **Nastavitve > Diagnostika > Informacije krmilja**.

- Za ogled informacij o različici tabel rezanja izberite na **glavnem zaslonu Nastavitve > Proces > Tab. reza**. Informacije o različici so prikazane v zgornjem levem kotu zaslona.
- Za ogled informacij o različici ostalih elementov kliknite gumb Windows Start in izberite **Vse aplikacije > Sistem Windows > Nadzorna plošča > Programi in funkcije**.



Za posodobitev CNC-ja ali če imate druga vprašanja v zvezi z različicami programske opreme, se obrnite na lokalno [tehnično podporo](#).

### Prikazano na diagnostičnem zaslonu Phoenix

Element	Različice / Revizije
Windows	10.00.10240
Phoenix	10.7.0
Real-Time OS	6.3.17188.1
Field Bus Master	1.5.61015.0
Real-Time Module	10.7.0.1507
PLC engine	1.1.0.0
Phoenix OpCon API	2.0.0.0
Active OpCon APIs	2.0.0.0

### Prikazano na zaslonu Tabela rezanja

Element	Različice / Revizije
XPR	K
HPRXD	AA
HPR	80003Ea in 80003Eb
Oxyfuel	F – razširjeni format A

**Prikazano v spletni aplikaciji XPR**

Element	Različice / Revizije
XPR main control	G – 472
XPR torch connect	G – 180
XPR gas connect	G – 122
XPR choppers	G – 169
XPR wireless	24095

**Prikazano na zaslonu Programi in funkcije Windows**

Element	Različice / Revizije
ProNest CNC Client	1.1.5.210
ProNest CNC Package	1.1.9
ProNest CNC Nesting software	12.1.3.6507
KPA EtherCAT Studio	1.12.259.0
KPA Licensing utilities	2.3.106.0
Microsoft XML Notepad	2.7.1.15
EDGE Connect Suite	1.4.6673.34133
EDGE Connect Launcher	1.4.6673.33634
Backup and Restore Utility	1.1.6592.40703
EtherCAT ESI Library	1.0.23.0

**Drugo**

Element	Različice / revizije
MULTIPROG	1.2
SoftOpCon	2.1.0.410
MinReqOpCon	2.1.0.410
Strojna upravljalna konzola	1.0

# ***Version 10.6.1***

## **Release notes**

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### ***NOTICE***

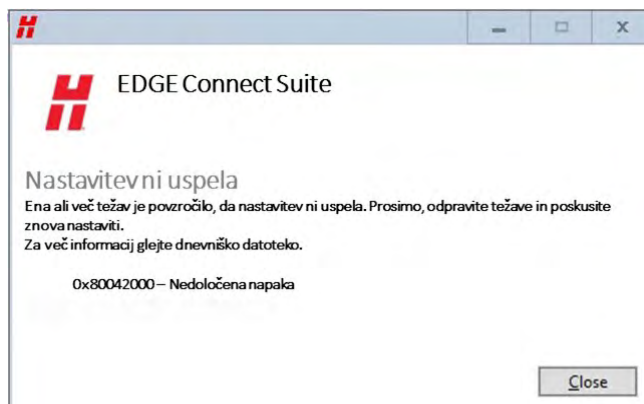


This is an unplanned release for EDGE Connect CNCs to address a reported field issue discovered in Phoenix version 10.6.0 software that was released earlier in January. For improved safety, all customers, especially any customers currently using version 10.6.0, are urged to update their software to Version 10.6.1.

## **Phoenix resolutions**

- Resolved an issue for incorrect motion on mirrored part programs in Phoenix that resulted in the rapid traverse segment moving in the opposite direction, and significantly farther, than expected.
- Removed the ability for an operator to move a part into a soft limit and continue cutting after canceling the soft limits dialog. The option to Cancel the dialog was removed to be consistent with existing soft limit checks.

- Resolved an issue where the EDGE Connect Suite installer failed during the ProNest CNC segment of the installation and the message shown below was displayed.





## Software versions



You must be at image 27 or higher to perform this update.

The versions for the software and firmware in the current update are shown in different locations on the EDGE Connect CNC. The table below is grouped by the location where the version information is shown.

- To see version information for Windows, Phoenix, Real-Time OS, Field Bus Master, Real-Time Module, PLC engine, System Image, and Op Con APIs:

Choose **Main > Setups > Diagnostics > Control Information**.

- To see version information for cut charts choose **Main > Setups > Process > Cut Chart**. The version information is displayed in the top left corner of the screen.
- To see version information for other items click the Windows Start button and go to **All apps > Windows System > Control Panel > Programs and Features**.



If you need to update the CNC or have any other questions about software versions, contact your regional [Technical Support Team](#).

### Shown on the Phoenix Diagnostics screen

Item	Versions / Revisions
Windows	10.00.10240
Phoenix	10.6.1
Real-Time OS	6.3.17188.1
Field Bus Master	1.5.61015.0
Real-Time Module	10.6.1.1504
PLC engine	1.1.0.0
Phoenix OpCon API	2.0.0.0
Active OpCon APIs	2.0.0.0

### Shown on the Cut Chart screen

Item	Versions / Revisions
XPR	K
HPRXD	AA
HPR	80003Ea and 80003Eb
Oxyfuel	F - Extended format A

**Shown in the XPR web application**

Item	Versions / Revisions
XPR main control	F - 472
XPR torch connect	F - 180
XPR gas connect	E - 122
XPR choppers	E - 169
XPR wireless	22311

**Shown on the Windows Programs and Features screen**

Item	Versions / Revisions
ProNest CNC Client	1.1.5.210
ProNest CNC Package	1.1.9
ProNest CNC Nesting software	12.1.3.6507
KPA EtherCAT Studio	1.12.259.0
KPA Licensing utilities	2.3.106.0

**Other**

Item	Versions / Revisions
MULTIPROG	1.2
SoftOpCon	2.1.0.410
MinReqOpCon	2.1.0.410
Hardware operator console	1.0

# Version 10.6.0

## Release notes


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### New and updated documentation

- Updated the application note, *Panasonic EtherCAT Drives Supported by EDGE Connect CNCs* (809760) to add support for Panasonic A6 drives. The application note is available in the Hypertherm Document Library at [www.hypertherm.com/docs](http://www.hypertherm.com/docs).
- Updated the application note *Bosch Rexroth EtherCAT Drives Supported by EDGE Connect CNCs* (809600) to add support for Bosch economy drives. The application note is available in the Hypertherm Document Library at [www.hypertherm.com/docs](http://www.hypertherm.com/docs).
- Updated the application note *Mitsubishi EtherCAT Drives Supported by EDGE Connect CNCs* (809750) to add support for J4 drives. The application note is available in the Hypertherm Document Library at [www.hypertherm.com/docs](http://www.hypertherm.com/docs).

### Improvements

- Added support for Bosch economy drives.
- Added support for Panasonic A6 drives.
- Updated the Phoenix simulation software so the EtherCAT screens look like a real EtherCAT network is present. This allows a demonstration of Phoenix that shows how the setup screens would look on a real CNC.
- The operator is no longer able to choose to run a part or nest when the Soft Limits will be exceeded. The operator has to fix the overshoot. If this is not acceptable, the Nest/Soft Limit Checks can be disabled in the Special Setups (Not Recommended).

- Updated the Transfer Height and Pierce Height fields for XPR in Phoenix to support only absolute values in inches or millimeters. This change creates consistency with the XPR cut charts which list Transfer Height and Pierce Height as absolute values instead of percentages of Cut Height.
  - Updated the timeout in the Hypertherm EtherCAT Studio launcher for version 1.12.259.0 to allow acquiring a license with a larger number of slave ESI files in the slave library directory. This corrects an issue where the Hypertherm EtherCAT Studio name on the title bar has “- Trial” at the end of it. In the About dialog box the Product name: also says, “Hypertherm EtherCAT Studio - Trial” and the Licensed to: and Expire date: both say “No license”.
  - Updated the Marker Font Generator to support Retract to Transfer for all segments of a text string except the last segment where a normal Retract is used. This update provides faster marking and prevents torch crashes on warped or uneven surfaces when marking multiple locations on a plate.
  - Added the ability to resume a part after a fault that requires homing on a table with a dual transverse axis, to allow a part or nest to finish cutting. When the cut is resumed with both the Transverse and the Dual Transverse unparked, the Dual Transverse now re-spaces to the previous spacing before moving to the Resume Part location.
  - Added support for Yaskawa sigma7 series 400 V drives.
    - SGD7S-xxxxA0xxxF64 models with rev 7.01, 7.03, 7.06, 7.08, 7.10, 7.11 firmware. Product Code 0x02200401.
  - Updated the Phoenix Simulation software to include the features listed below when no HASP is found. This change allows the use of the Phoenix simulation software without a HASP.
    - Oxyfuel: Advanced and Bevel
    - Plasma: Advanced, 2 Bevel, 4 Advanced Sensor THCs, Pipe and Tube Bevel, and Dual Transverse
    - Waterjet: Advanced, 2 Sensor WHCs, and 2 Bevel
-  An announcement will be distributed in early 2018 when the simulation is available.
- Added the ability to move the THC up and down the full length of the slide when cutting in manual mode and using a waterjet process. Added a manual increment parameter to the machine setups for the THC. This parameter has a range of 0.001 – 0.100 inches. This parameter is the distance the THC travels when the raise or lower THC button is pressed while cutting in manual mode. In previous versions the THC could only raise up 1 inch above cut height and could only lower back down to the cut height.
  - Improved the installation experience by keeping Phoenix and Software Operator Console (Soft Op Con) applications from being launched when the CNC restarts as part of the EDGE Connect Suite installation process.

## ProNest CNC resolutions

- Fixed the following part program issues in ProNest CNC
  - HPRXD Stainless Steel HDi process information
  - MAXPRO200 transfer height process information
  - Updated cutting techniques and part lead-ins for HPR

## Phoenix resolutions

- Resolved issue where an HPR plasma supply could get stuck without motion after an arc has been established. The state of each HPR plasma supply is now updated every time the operator begins or resumes a part program or activates a Rip Cut or Rip Mark operation.
- This corrects an issue where ArcWriter could not be selected in the Station Configuration screen. Re-enabled the capability for Marking Only power supplies in the Station Configuration screen.
- Resolved an issue where AC style bevel heads would not return to the proper bevel angle when pausing, going off path and resuming a part program.
- When pausing an XPR marking segment, the operator only has marking process options in the Cut Chart screen. Previously, both plasma and marking process options were displayed but only changes to marking options are valid.
- Fixed an issue that could cause an analog input mapped to a speed pot to momentarily display a different speed or zero in the process speed watch window. This would also cause the speed of the motion to change during that period.
- When an XPR operator uses the Cut Pro Wizard to load a part, they will now see the consumables needed to cut that part, unless G59 codes are disabled. If G59 codes are disabled, then the operator will see the process selection screen (Cut Chart screen), followed by the consumables that match the process that is selected.
- Resolved an issue where an unexpected command window was displayed when the network was being phased up while using Mitsubishi drives.
- Fixed an issue where changing the cut height in an XPR part program would also incorrectly change the transfer height and the pierce height. Changing the cut height with M07 overrides now only changes the cut height.
- Resolved the following issues with Soft Limits:
  - Repeated parts are now checked against the soft limits.
  - Non-repeated and repeated parts are now checked against the soft limits when the part programs are resumed after a pause in cutting, Power Down or Power Loss.
  - Transposed parts will now be properly checked against the Soft Limits.
- Improved a stability issue that occurred when restarting the EtherCAT network after turning off the power to a plasma supply. When power is restored, the network can be restarted without displaying an error. The improvement was made by updating the Field Bus Master to 1.5.61015.0.
- Resolved an issue where the metric units were not displayed in the oxyfuel cut chart screen, when the system was set to metric mode.

- When an operator changes language, the following will now happen as expected:
  - The manuals folder holds a copy of all the PDF files for the system. If there are language files for the selected language, those will be displayed. If there are not files for the selected language, the English copy of the file will be displayed.
  - When the Help button is selected, a help screen will be displayed with information. If the selected language has translated help, it is displayed. If the selected language does not have translated help it will be displayed in English.
- Resolved an issue with the XPR plasma supply that caused cutting instead of marking. If the operator pauses an XPR during marking and manually changes to a cutting process on the Cut Chart screen, the marking process is maintained when cutting resumes.
- Resolved an issue where pressing the E-Stop button during a rip cut prevented cutting or motion after the E-Stop has been cleared.
- Resolved an issue where the Ready to Start message was displayed incorrectly. If the Ready to Start message is disabled and an operator pressed the green Cycle Start button on the Soft Op Con while a cycle start operation (cutting, trialing, rip cutting, etc.) was already in progress, the Ready to Start message was displayed the next time the F9 keyboard key or green hard OpCon Cycle Start button was pressed to initiate a cycle start operation.
- Resolved an issue with the XPR where the part program did not pause if the XPR failed to produce an arc at the pierce point. If an XPR fails to transfer an arc to the work piece or fails to produce a pilot arc, the cut is now paused and a dialogue box is displayed to inform the user of the issue. The cut is also now paused instead of remaining locked on the cut screen when a Cut Sense Lost error occurs while using an XPR.
- Resolved an issue where XPR Not Ready dialog was taking precedence over an XPR Error or Fault. The XPR Not Ready message was displayed when an XPR had an active error and Cycle Start was pressed. The correct message is now displayed when the program is paused due to an XPR error. The operator may still receive the dialog message XPR Not Ready, but the message will only show when cycle start is pressed and the XPR is not in the Wait for Start or Initial Checks state.
- Fixed an issue that allowed the cutting table to move through a soft limit during table alignment. Support was added for a warning message to indicate that soft limits will be exceeded prior to final alignment. If the machine has been homed, this message will prevent final alignment until the alignment settings and final alignment are within the soft limits. The message is shown below:
  - Final Alignment will exceed Machine Software Travel Limits. Please check corner to align with, and repeat alignment.
- Made the following improvements to the XPR Not Ready dialog message:
  - Removed the “error” label. This message does not indicate an error condition.
  - Rewrote the message description for clarity. The description now states: “XPR must be in the Wait For Start or the Initial Checks state to start.”
  - Fixed an issue where the dialog incorrectly displayed because of an alarm, warning, or error condition. Dialogs for these conditions now include a more specific message.

- Resolved an issue where the CNC appeared to freeze (no response when the stop button was pressed) after trying to perform a plasma cut with the plasma station and the oxyfuel station enabled.
  - A part program is now paused and the Conflicting Process on Active Station status message is displayed if the cutting tool on an enabled station (such as an oxyfuel torch) does not match the cutting process. For example, the cut type is set to plasma 1 and the operator has the Oxyfuel cutting station enabled.
- Resolved an issue where the oxyfuel cut mode was not maintained when using ProNest CNC for nesting parts. Now the cut mode does not need to be changed after nesting when the CNC is in oxyfuel mode.
- Improved the ability of the Soft Op con to detect HID devices which prevents the Soft Op con from exiting when a 3rd party touchscreen is connected.

## Software versions



You must be at image 27 or higher to perform this update.

The versions for the software and firmware in the current update are shown in different locations on the EDGE Connect CNC. The table below is grouped by the location where the version information is shown.

- To see version information for Windows, Phoenix, Real-Time OS, Field Bus Master, Real-Time Module, PLC engine, System Image, and Op Con APIs:  
Choose **Main > Setups > Diagnostics > Control Information**.
- To see version information for cut charts choose **Main > Setups > Process > Cut Chart**. The version information is displayed in the top left corner of the screen.
- To see version information for other items click the Windows Start button and go to **All apps > Windows System > Control Panel > Programs and Features**.



If you need to update the CNC or have any other questions about software versions, contact your regional [Technical Support Team](#).

### Shown on the Phoenix Diagnostics screen

Item	Versions / Revisions
Windows	10.00.10240
Phoenix	10.6.0
Real-Time OS	6.3.17188.1
Field Bus Master	1.5.61015.0
Real-Time Module	10.6.0.1501
PLC engine	1.1.0.0
Phoenix OpCon API	2.0.0.0
Active OpCon APIs	2.0.0.0

### Shown on the Cut Chart screen

Item	Versions / Revisions
XPR	K
HPRXD	AA
HPR	80003Ea and 80003Eb
Oxyfuel	F - Extended format A



**Shown in the XPR web application**

Item	Versions / Revisions
XPR main control	F - 472
XPR torch connect	F - 180
XPR gas connect	E - 122
XPR choppers	E - 169
XPR wireless	22311

**Shown on the Windows Programs and Features screen**

Item	Versions / Revisions
ProNest CNC Client	1.1.5.210
ProNest CNC Package	1.1.9
ProNest CNC Nesting software	12.1.3.6507
KPA EtherCAT Studio	1.12.259.0
KPA Licensing utilities	2.3.106.0

**Other**

Item	Versions / Revisions
MULTIPROG	1.2
SoftOpCon	2.1.0.410
MinReqOpCon	2.1.0.410
Hardware operator console	1.0



# Version 10.5.0

## Release notes

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### New and updated documentation

- Created an application note, *Absolute Positioning for Homing* (809870). It is available in the Hypertherm Document Library at [www.hypertherm.com/docs](http://www.hypertherm.com/docs).
- Updated the application note *Panasonic EtherCAT Drives Supported by EDGE Connect CNCs* (809760) with all the drives that are now supported. It is available in the Hypertherm Document Library at [www.hypertherm.com/docs](http://www.hypertherm.com/docs).

### Improvements

- Updated the Phoenix cut charts and ProNest CNC to support corrections and additions for Revision K of the XPR cut charts. The updates include:
  - 60A F5/N<sub>2</sub> stainless steel cut speed fixes.
  - Thick non-ferrous pierce setting fixes (170 A and 300 A non-ferrous).
  - 130A O<sub>2</sub>/Air pierce setting updates.
  - Added the 12 mm Al, 80A, N<sub>2</sub>/H<sub>2</sub>O process.
  - Added the 1.25 inch Al, 300 A, N<sub>2</sub>/H<sub>2</sub>O process.
- The EDGE Connect suite installer now updates INtime.
- Updated INtime to version 6.3 as part of routine maintenance.
- Support was added for absolute positioning for homing. For details see the application note *Absolute Positioning for Homing* (809870) in the Hypertherm Document Library at [www.hypertherm.com/docs](http://www.hypertherm.com/docs).

- Added support for Panasonic A5 drives. To see a list of all the drives that are now supported see the application note *Panasonic EtherCAT Drives Supported by EDGE Connect CNCs* (809760) in the Hypertherm Document Library at [www.hypertherm.com/docs](http://www.hypertherm.com/docs).
- A Conflicting Process on Active Station message is now displayed when a plasma process is used and an oxyfuel station (Station 9 and above) is enabled.
- M50H and M50N codes can now be used without the Click-Wrap license for the MAXPRO200®.
- Duplicate parameters are no longer listed in the Unable to Load the Following Setups dialog box.

## Phoenix resolutions

- Updated the EDGE Connect suite installer to resolve an issue where performing a system restore from a User Backup did not correct a corrupted INtime configuration.
- Resolved an issue with cut height override in a bevel part program that caused the pierce height to decrease by 2.5 times per pierce. The G59 V603 Fx code should be used for cut height override in bevel part programs.
- The Bevel Homing Prompt is no longer displayed if the Auto Home on Power Up setting is on.
- Resolved an issue where an unexpected transverse position error or dual gantry command-output error prevented a part program from being completed.
- Resolved an issue that caused Phoenix to stop working unexpectedly when a part program was started in Plasma mode when only an oxyfuel station was enabled.
- Resolved an issue where part programs with station select and process select codes corrupted oxyfuel cut charts when Phoenix translated the codes.
- Resolved an issue where Phoenix displayed the Invalid Process error from an XPR and would not allow a new part to be started.
- Resolved an issue that occurred when saving data in the Cut Chart screen. If values were modified and then saved to the cut chart data file, it was possible that the data could be corrupted. This corrupt data could cause Phoenix to stop working unexpectedly. This fix requires the latest cut charts files provided in this release.
- Resolved an issue with cut chart file formatting that resulted in corrupted oxyfuel and plasma cut charts.
- To safely stop cutting, waterjet pumps are turned off when Stop is pressed during a pierce.
- Resolved a Phoenix exception error that occurred with part programs that used the M65 auto reload code with filenames that contain all numbers (no letters in the filename prefix).
- Removed a soft key labeled F7 that was displayed in error on the laser mapping screen.
- Resolved an issue where a conflicting process error was displayed when a zinc marker was assigned to station 2 with an XPR assigned to station 1.

## XPR

- Updated firmware to support revision K of the cut charts. See *Improvements* on page 35 for details.

## ProNest

- Added support for revision K of the XPR cut charts. See *Improvements* on page 35 for details.

## Software versions



You must be at image 27 or higher to perform this update.

The versions for the software and firmware in the current update are shown in different locations on the EDGE Connect CNC. The table below is grouped by the location where the version information is shown.

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- To see version information for cut charts choose **Main > Setups > Process > Cut Chart**. The version information is displayed in the top left corner of the screen.

- To see version information for other items click the Windows Start button and go to **All apps > Windows System > Control Panel > Programs and Features**.



If you need to update the CNC or have any other questions about software versions, contact your regional [Technical Support Team](#).

### Shown on the Phoenix Diagnostics screen

Item	Versions / Revisions
Windows	10.00.10240
Phoenix	10.5.0
Real-Time OS	6.3.17188.1
Field Bus Master	1.5.61009.0
Real-Time Module	10.5.0.1495
PLC engine	1.1.0.0
Phoenix OpCon API	2.0.0.0
Active OpCon APIs	2.0.0.0

**Shown on the Cut Chart screen**

Item	Versions / Revisions
XPR	K
HPRXD	AA
HPR	80003Ea and 80003Eb
Oxyfuel	F - Extended format A

**Shown in the XPR web application**

Item	Versions / Revisions
XPR main control	F - 472
XPR torch connect	F - 180
XPR gas connect	E - 122
XPR choppers	E - 169
XPR wireless	22311

**Shown on the Windows Programs and Features screen**

Item	Versions / Revisions
ProNest CNC Client	1.1.4.209
ProNest CNC Package	1.1.9
ProNest CNC Nesting software	12.0.4.6250
KPA EtherCAT Studio	1.12.210.0
KPA Licensing utilities	2.1.104.0

**Other**

Item	Versions / Revisions
MULTIPROG	1.2
SoftOpCon	2.0.0.406
MinReqOpCon	2.0.0.406
Hardware operator console	1.0

# ***Version 10.4.0***

## **Release notes**

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### **Announcements**

- Windows 10 is not affected by the latest ransomware malware attacks. All Windows 10 Security Updates are included in this update.
- There is a change in Delta EtherCAT drive support:  
Until a solution is found and proven by Delta, Hypertherm strongly advises against the use of Delta EtherCAT drives in combination with HPR, XPR, and MAXPRO200 cutting systems and in environments with the potential for high frequency electrical noise. This is due to the drive's susceptibility to high-frequency electrical noise, which causes EtherCAT field bus faults.

### **New features**

- A feature named Nest Limit Checks has been added to let you know if a part's nest will exceed the soft limits set for the cutting system. If a nest exceeds the soft limits, a warning message is displayed when start is pressed. The operator can stop and re-position the nest to fit on the table or proceed to run the part (not recommended).

The message is displayed if:

- The machine was homed
- Soft limits are enabled and programmed in the axis setup screens

The message is NOT displayed if you are using the following part programs:

- ABXYZ dual tilting bevel part programs. This feature may be supported in a future release.

- Pipe and tube part programs. This feature may be supported in a future release.
- Go to home commands that are programmed to exceed the soft limits set for the cutting system will now display a message to update the programmed go to home location.
- The HPR or XPR Cut Sense input is now used when the ResetPositionLog or RPL password is used to record position data. This feature requires either the Cut/Mark Sense or Cut Sense # input to be assigned to an input.
- Argon marking is now supported by using M07 AR in part programs. Argon or nitrogen can be selected as the marking gas from the manual cut chart selection screen.
- 3 new commands (R, G, and V) have been added to the Phoenix Marker Font Generator for XPR nitrogen and argon marking. They are intended to be used within ProNest software. The commands are not supported for use with the Shape Wizard.



See the ProNest software documentation for more details about marking with Argon.

The 3 new commands are:

- R: The sixth information block determines if a Retract to Transfer is used at the end of each segment of the marked text. The R is followed by a number to indicate the type of retract:
  - 0 = a full or partial retract depending on CNC setting
  - 1 = a retract to transfer height
- G: The seventh information block determines the type of marking gas used for XPR marking. The G is followed by a number to indicate the type of gas:
  - 0 = none
  - 1 = argon
  - 2 = nitrogen
- V: The eighth information block determines if the default marking speed is overridden with another speed. The V is followed by a number to indicate the new marking speed. Zero indicates that the default marking speed will be used. This number can be a decimal value.
- Gas flow tests can be started from the CNC, if the CNC is in control of the XPR. The test results are still viewed on the XPR web interface, but now the XPR web interface does not have to control the XPR for gas flow tests to be performed. Gas flow tests are started on the CNC via a new XPR System soft key on the Setups > Diagnostics screen.
- The Remote Status fixed function input can now be viewed in the Watch window and recorded in the Oscilloscope.

## Improvements

- A new cut type called Interior Features has been added. An alias, O2S, for the O<sub>2</sub>/O<sub>2</sub> cutting process is supported in the part program. M07 TH and M07 O2S have the same effect in the part program. ProNest determines when to output these codes. O2S has been added to avoid confusion if you read the part program when an O<sub>2</sub>/O<sub>2</sub> process is being used on something that is not a hole.



- Estimated creep time for XPR systems is now set to 0 as the default. Creep time is generally not needed with the XPR.
- Resolved an issue where the Pulley simple shape caused an invalid process with XPR systems. The EIA Pulley simple shape caused redundant G41, M07 codes.
- Phoenix now supports bidirectional torque limits for supported Panasonic drives.
- Support has been added for higher resolution encoder devices. To take advantage of these settings, reference the Application Note for the model of drive that you have. Use of higher resolutions is dependent on your particular application.
- A maintenance release from our software supplier has been applied to our existing PLC engine. With version 1.1.0, MULTIPROG now supports new versions of both PLC Connect and PLC Connect LT.
- Oxyfuel cut chart changes (see the tables below for details)

Oxyfuel cut charts have a new format and there are new tip types and EIA codes, and a new V code. The older cut charts still work, but the drop-down list of Tip Types is not shown.

### Torch types

Torch type	EIA code
Airco	62
Generic	47
Harris model 80	48
Harris model 98	49
IHT	63
Koike 100L	59
Koike 200L	60
Koike 500L	61
Meco	64
Messer	65
Oxyweld	66
Smith	67
Victor MT 200	50
Victor MT 300	51

### V code

V code	Description
V566	Tip type for oxyfuel cut charts

## New tip types

Tip type	EIA code
Standard	1
Divergent	2
Heavy preheat	3
Divergent Hvy PH	4

- The Phoenix help is now available in the following languages: Chinese (Simplified), Chinese (Traditional), French (Canadian), German, Italian, Korean, Polish, Portuguese, Russian, Slovenian, Spanish, and Turkish.

When Phoenix is running in a supported language, German for example, and the Help button is chosen, the help page is presented in German. If the Phoenix help is not available for a language, the English version is displayed. A new self-extracting Help.exe file is now available for updating a CNC with this language support.

- XPR or HPR plasma power supply ready status is now shown on the main screen. PS - Ready is shown for a single-torch table or PS# - Ready for a multi-torch table.
  - The ready message will be shown if:
    - The tool's station is in the Manual or Program position
    - The cut mode is Plasma
    - The tool (XPR or HPR EtherCAT) is in the Wait for Start or Initial Checks state
    - The part program is paused or has not started and there are no errors

The message only shows before cutting starts. When a cut starts the individual cutting states and error messages are shown.

## Phoenix resolutions

- An issue was resolved where Phoenix was getting an incorrect F-code for the G59 V564 entry. The decimal value 0.040 inches (19 GA, 1 mm) was mistakenly taking the value for 0.024 inch, which caused an F8 value, instead of the correct F12 value.
- Resolved an issue where the Nozzle Contact Sense 1 input was not working when doing an IHS with water injection or underwater processes. A change was made in Phoenix 10.3.0 to ignore all Nozzle Contact Sense inputs, both fixed function and general purpose, when using an XPR water injection or underwater process. The code has been changed to now only ignore the XPR fixed function input and XPR Nozzle Contact Sense when XPR water injection or underwater processes are used.
- Resolved an issue that caused the XPR torch to momentarily fire in the air. The issue occurred when Preflow During IHS was on and the Stop button was pressed when an Offset IHS offset was being removed. The torch will no longer fire if the machine is paused during the Offset IHS canceling traverse motion.
- Resolved invalid process dialog or status messages for the XPR that occurred in the following cases:
  - During the second cut in a part when Offset IHS was used. To resolve the issue XPR process updates are now sent at the beginning of the IHS, which is part of the Offset IHS sequence.
  - When a user sent a process from the Cut Chart when the XPR was not ready (for example, when the XPR was purging).
  - When a user paused a program and made a change on the Process screen when Offset IHS is on.
  - After a process was sent when the XPR was not ready, the error dialog would continue to show after subsequent program starts because the error did not clear in Phoenix and Phoenix did not send another process update.
  - When a marking gas of None was selected in the cut chart and the user tried to run a marking program.
- Resolved an issue where the Station Configuration screen closed unexpectedly when using non-English languages.
- Resolved an issue that caused Phoenix to close unexpectedly when the Help window was minimized. The Help window can no longer be Minimized.
- Resolved an issue where analog input values for the Beckhoff EL3008, 8-channel analog input were not properly read by Phoenix. The value shown on the diagnostic screen or in the watch window was at the + or - 10v limit.
- Resolved an issue where nozzle contact during IHS was disabled when switching from marking to cutting while cutting with an HPR.
- M65 Auto Reload of sequentially numbered parts now works with EDGE Connect. There are no setup parameters associated with this because it has been permanently enabled. Hypertherm recommends that you use M79Tx Go to Home Commands to re-position the table between each M65 Sheet/Nest that is being auto loaded.

- Resolved an issue where the user could not exit the Manual Options screen. The Manual Options screen is now exited properly under all conditions and regardless of which dialog was active previous to entering the Manual Options screen. Torch spacing on the Manual Options screen is no longer allowed when a part program is active or paused.
- Resolved an issue that caused the Test Lifter button to stay depressed after motion was interrupted on the main screen with the Stop button on the hardware operator panel or the Soft Op Con. The Test Lifter button works correctly on the process screen.
- Resolved an issue with the Cross w/ Circular Hole and Concave Inside Corners simple shapes that caused duplicate G41 and M07 EIA commands prior to cutting the hole. The duplicate EIA commands have been removed. This issue exists in all prior versions of Phoenix.
- Resolved an issue that caused the torch to lower into the plate after a torch collision occurred while cutting. When the user acknowledged the torch collision dialog the torch lowered toward the plate. The issue also occurred when an emergency stop or drive disabled command occurred while cutting.
- All HPR Auto Gas fields are now always displayed in the HPR Diagnostics screen. The user will see the pressure value fields for Cut Gas 1, Cut Gas 2, Mixed Gas 1, and Mixed Gas 2, even if there is no pressure on these channels or the gas channels do not exist (manual gas console).
- Resolved an issue where the speed pot did not work properly after the slide control on the Soft Op Con was used. The issue was only seen when an analog signal was used for the speed pot.

## **XPR**

- Resolved an issue where the torch fired in the air under the following condition: With XPR fixed function I/O, if water remains in the torch after a water injection process, the THC's IHS will be immediately satisfied at the next cut or mark. The XPR firmware was updated to correct the issue. The XPR now pulses gas on and off 7 times (for 14 seconds) when switching from a wet to dry process to make sure the ohmic contact is not shorted out by the water remaining in the torch.

## **ProNest**

- The ProNest CNC Package was updated from 1.1.4 to 1.1.9 and includes the latest XPR cut charts (Revision J).

Summary of the Revision J cut chart changes:

- Fixes:
  - Corrections to arc voltage data for thick, non-ferrous processes
  - Corrections to pierce height and transfer height data
  - Correction to a process name and a shield gas name that did not match

- Pierce times corrected for edge start on 300A MS processes
- Corrections to kerf width data
- Metric value corrected for 170A Air/Air process
- New capabilities:
  - True Hole processes added – More thicknesses covered within the existing ranges
  - 3-1/8 inch mild steel added to the 300A process
  - 12 mm stainless steel added to 80A N<sub>2</sub>/H<sub>2</sub>O process
  - Version 1.1.8 of ProNest CNC Installer created

## Software versions



You must be at image 27 or higher to perform this update

The versions for the software and firmware in the current update are found in different locations on the EDGE Connect CNC. The table below is grouped by the location where the version information is shown.

- To see version information for Windows, Phoenix, Real-Time OS, Field Bus Master, Real-Time Module, PLC engine, System Image, and OpCon APIs:  
choose **Main > Setups > Diagnostics > Control Information**.
- Version information for cut charts is displayed on the cut chart screen in Phoenix
- To see version information for other items Go to **Control Panel > Programs and Features**



If you need to update the CNC or have any other questions about software versions, contact your regional Product Application Engineer (PAE).

### Shown on the Diagnostics screen

Item	Versions / Revisions
Windows	10.00.10240
Phoenix	10.4.0
Real-Time OS	6.1.16110.1
Field Bus Master	1.5.59902.0
Real-Time Module	10.4.0.1469
PLC engine	1.1.0.0
Phoenix Op Con API	2.0.0.0
SoftOpCon	2.0.0.406
MinReqOpCon	2.0.0.406
Hardware operator console	1.0

**Shown on the cut chart screen**

Item	Versions / Revisions
XPR	J
HPRXD	AA
HPR	80003Ea and 80003Eb
Oxyfuel	F - Extended format A

**Shown on the Windows Programs and Features screen**

ProNest CNC	Versions / Revisions
Client	1.1.4.209
ProNest CNC package	1.1.9
Nesting software	12.0.4.6250
<b>KPA</b>	<b>Versions / Revisions</b>
EtherCAT Studio	1.12.210.0
License utilities	2.1.104.0
<b>PLC Connect</b>	<b>Versions / Revisions</b>
MULTIPROG	1.2
<b>Plasma power supplies</b>	<b>Versions / Revisions</b>
XPR main control	E - 458
XPR torch connect	E - 175
XPR gas connect	E - 122
XPR choppers	E - 169
XPR WiFi tool	21493
<b>Drives</b>	<b>Versions / Revisions</b>
Bosch IndraDrive C and Cs	19V08, 18V10, 18V20
Delta ASD A2	1.643 or higher
Kollmorgen AKD	1.15
Mitsubishi MR-J4	Drive: BCD-B46W500 B1 Communication module: 1.10.01
Panasonic MINAS-A5B	1.01
Yaskawa Sigma-5	5.0, 5.04, 6.00
Yaskawa Sigma-7	0023 2016.10

# ***Version 10.3.1***

## **Release notes**

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Version 10.3.1 is an unplanned interim release to address reported field issues and to provide additional safety improvements. It is recommended that all customers update to 10.3.1 or higher software.

## **ProNest CNC**

### **Version information for this release of ProNest CNC software**

- ProNest CNC Nesting Software 12.0.4.6250
- ProNest CNC Client 1.1.4.209
- ProNest CNC Package 1.1.4.0



To view the version information for ProNest CNC software, right-click the Windows Start button, and then click Programs and Features. Click Publisher to sort the items. The Hypertherm items for ProNest CNC are grouped near the top of the list.

- Resolved an issue with an incorrect feed rate being applied to True Hole parts from ProNest CNC that was affecting XPR™ True Hole quality.
- Enabling and disabling height control using M50/M51 part programs codes was not being applied on XPR non-True Hole interior features, affecting cut quality. This has been corrected.
- Incorrect speeds used for lead-out techniques with XPR thick stainless and aluminum processes has been resolved.

## Phoenix resolutions

- Resolved an issue where the fault ramp time was not recognized for the Independent Drive Enable and Series Drive Enable wiring settings. The front panel E-stop input now recognizes fault ramp-down times. The drive enable is now maintained for the programmed Fault Ramp Time instead of turning off immediately.



If your drive supports Safe Torque Off and you are using it for Emergency Stop, Hardware Overtravels, or other Machine Fault Conditions, the Safe Torque Off will then override motor deceleration instead of any programmed Fault Ramp times.

- Resolved an issue where the Hardware Op Con and Soft Op Con Stop keys only stopped motion momentarily with a stuck joystick input if Stop was pressed and released. The Hardware Op Con button will completely stop motion if pressed and held for at least 1 second. This issue exists in all previous versions of Phoenix software. Software was changed so both the Hardware Op Con and Soft Op Con Stop keys completely stop motion generated by a stuck joystick input when pressed and released or pressed and held. Motion cannot be restarted until the input that generated the motion turns off.
- Resolved an issue where the Stop button and Safety Mat input did not stop motion during the Test Lifter function from the Process screen. The Stop button and Safety Mat input can now be used to stop the Test Lifter function from the Process screen.
- Resolved an issue that prevented the selection of an analog input for the Sensor THC on the Machine setup screen when a MAXPRO200 was configured on Plasma 1 on the Station Configuration screen.
- The ResetTHCLog password now supports logging both THC Command position and Actual Position. Previously the THC log file only contained Command Position. The addition of Actual Position to the THC log file adds additional diagnostic capabilities when troubleshooting Sensor THC issues.
- Resolved an issue where coolant would flow during bevel calibration with an XPR plasma power supply. Bevel calibration with XPR requires that you turn off the main power switch (at the wall), turn the main power switch on again, and no process has been sent to the XPR. Bevel calibration is typically performed during machine setup only.
- Resolved an issue where the Hardware Op Con speed pots did not work until the Soft Op Con speed controls were used first.
- A Ready to Move message is now displayed when you attempt manual motion using the jog keys in the Soft Op Con.
- Eliminated an issue where speed pots were briefly jumping from 0 speed to maximum speed when the speed pot was set close to the 0 speed set point.
- Resolved an issue where the Invalid Process message was shown when you tried to start a Cut, Rip Cut, or Rip Mark when an XPR was not in the Wait for Start state or the Initial Checks state. The message has been updated to XPR Not Ready.



- Resolved an issue where quickly switching from Rip Cut to Rip Mark caused an XPR to cut the plate instead of marking the plate.
- Resolved an issue where an HPR plasma supply fired an arc in the air under certain specific conditions when switching from Rip Cut IHS to Rip Mark IHS before the IHS was completed.

## Software versions

The following table shows the software versions before and after this update, for reference purposes.



This table also includes the software versions for new EDGE Connect CNCs shipped with Phoenix version 10.3.1.

To check which software versions the CNC has, choose **Main > Setups > Diagnostics > Control Information**.



If you need to update the CNC or have any other questions about software versions, contact your regional Product Application Engineer (PAE).

Software	Before update	After update	New CNCs
Windows	10.00.10240	10.00.10240	10.00.10240
Phoenix	10.3.0	10.3.1	10.3.1
Real-Time OS	6.1.16110.1	6.1.16110.1	6.1.16110.1
Field Bus Master	1.5.59902.0	1.5.59902.0	1.5.59902.0
Real-Time Module	10.3.0	10.3.1	10.3.1
PLC Engine	1.0.0.0	1.0.0.0	1.0.0.0
System Image	30	32	32
Phoenix OpCon API	2.0.0.0	2.0.0.0	2.0.0.0
Active OpCon APIs	2.0.0.0	2.0.0.0	2.0.0.0



# Različica 10.3.0

## Opombe ob izdaji

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### Nove funkcije

- Dodana podpora za novi plazemski rezalni sistem XPR300. Za več informacij glejte dodatek k priročniku za EDGE Connect 809900 (priročnik EDGE Connect 809340). Med stvarmi, ki se razlikujejo od HPR, so:
  - Označevanje zdaj ne zahteva več posebnega orodja ali procesa: vsak zapis vključuje rezanje, označevanje in True Hole (če pride v poštev).

Temu ustrezno:

- se ne uporabljata več **M36 T3** (izbira procesa markerja 1) in **M36 T4** (izbira procesa markerja 2); **M36 T1** (izbira procesa plazme 1) in **M36 T2** (izbira procesa plazme 2) se uporabljata za rezanje in označevanje
- se ne uporabljajo več **M09** (vklop markerja 1), **M10** (izklop markerja 1), **M13** (vklop markerja 2) in **M14** (izklop markerja 2); **M07** (vklop rezanja) in **M08** (izklop rezanja) se uporabljata za rezanje in označevanje
- Zdaj je mogoče premostiti hitrost označevanja v tabeli rezanja v ProNest-u z vrednostjo F
- Premostitve, True Hole in označevanje so označeni s kodami v vrstici M07 v programu dela
- Vsi parametri procesa in tabele rezanja so označeni v eni vrstici G59 V509/V519 v programu dela. Na primer: G59 V509 F11189. Ta ukaz pove CNC-ju, kateri zapis v bazi podatkov parametrov procesa in tabele rezanja naj uporabi za ta program dela. Ta zapis

vsebuje vse parametre, ki jih potrebujeta Phoenix in XPR300 za izvedbo programa dela. Zapis vključuje ustrezne ID-je procesa XPR za rezanje, označevanje in True Hole (če pride v poštev), ki jih Phoenix pošlje v XPR300 pri izvedbi programa dela.

## **Izboljšave**

- Namestitveni program zbirke EDGE Connect zdaj namesti ProNest CNC.
- Dodana podpora za pogone Yaskawa Sigma 7. Za podrobnosti glejte FSB 809910.

## **Odpravljene težave pri Phoenix**

- Posodobitev vdelane programske opreme HPR (3.19) razreši težavo, ko gorilnik ni vžgal pri poskusu označevanja z Ar pri 25 do 35 A. Vdelana programska oprema HPR je tip plina Ar/zrak nastavljala na AR/AR\_zrak.
- Razrešena težava z zaznavanjem trde plošče Sensor THC IHS. Vhod Zaznavanje stika šobe je bil prezrt med IHS, če je HPR opravljal čiščenje medtem, ko se je gorilnik dotaknil plošče.
- HT4400 je bil dodan na seznam plazemskih izvorov, kjer Sensor THC uporablja odlog umika 0,5 sekunde na koncu vsakega reza, da se gorilnik ne bi umaknil med procesom zmanjševanja ob koncu vsakega reza.
- EDGE Connect CNC je nepravilno prikazoval napako "Izrač. napaka je dvakrat preseгла toleranco napake serva" med pospeševanjem osi. Pogoji napake je bil odstranjen, ker se je prekrival s funkcionalnostjo napake/motnje podrejene naprave in ni bil potreben.
- Razrešena je bila težava, ko so bile napake HPR prikazane v oknu Ogled samo med spuščanjem gorilnika.
- Razrešena je bila težava, ko napake, ki so povzročile nepovračljivo napako omrežja EtherCAT, niso ponastavile zastavice Sensor THC v domačem položaju, če je THC že bil v domačem položaju. Ob ponovnem zagonu omrežja je Phoenix zaznal položaj gorilnika na vrhu drsnika, tako da gorilnika ni bilo mogoče dvigniti še višje. Operaterju ni bil prepričan začetek rezanja, tako da se je gorilnik lahko spustil na nepravilno začetno višino IHS, zaradi česar je gorilnik lahko pognalo v ploščo z visoko hitrostjo, če je bil gorilnik dovolj blizu plošči, ko je prišlo do napake omrežja.

## Različice programov

V naslednji tabeli so za referenco prikazane različice programske opreme pred to posodobitvijo in po njej.



V tabeli so vključene tudi različice programske opreme za nove CNC-je EDGE Connect, ki so dobavljeni z različico Phoenix 10.3.0.

Različice programske opreme na CNC-ju lahko preverite tako, da izberete v **glavnem meniju Nastavitve > Diagnostika > Informacije krmilja**.



Če želite posodobiti CNC ali če imate vprašanja v zvezi z različicami programske opreme, se obrnite na regionalnega aplikativnega inženirja (PAE).

Programska oprema	Pred posodobitvijo	Po posodobitvi	Novi CNC-ji
Windows	10.00.10240	10.00.10240	10.00.10240
Phoenix	10.2.0	10.3.0	10.3.0
Realnočasovni OS	6.1.16110.1	6.1.16110.1	6.1.16110.1
Master področno vodilo	1.5.59902.0	1.5.59902.0	1.5.59902.0
Realnočasovni modul	10.2.0	10.3.0	10.3.0
PLC mehanizem	1.0.0.0	1.0.0.0	1.0.0.0
Slika sistema	30	31	31
Phoenix OpCon API	2.0.0.0	2.0.0.0	2.0.0.0
Aktivni API-ji OpCon	2.0.0.0	2.0.0.0	2.0.0.0




# Različica 10.2.0

## Opombe ob izdaji

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### Funkcije

- Dodana podpora za nekatere Mitsubishijeve pogone, serijo MR-J4. Za podprte modele glejte dokument 809750.
  -  Motorji Mitsubishi z normalno ločljivostjo dajalnikov serije J3 so zahtevani za programsko opremo Phoenix 10.2.
- Dodana podpora za nekatere Panasonicove pogone, serijo Minas-A5B. Trenutno ni podprto krmiljenje momenta. Za podprte modele glejte dokument 809760.
- Dodana podpora za pogone Delta, serijo ASDA-A2. Za podprte modele glejte dokument 809770.

### Izboljšave

- Številke različic programske opreme Phoenix so bile poenostavljene z odstranitvijo dodatnih ničel v funkciji ograd. Trenutna različica je tako prikazana kot 10.2.0 in ne kot 10.02.00. S to spremembo je bila odpravljena zmeda glede različic.
- Dodana podpora za HPRXD 80 A in 400 A maloogljivo jeklo SilverPlus. Na zaslon Spremembe potrošnega materiala sta bila dodana slika in številka dela, v bazo podatkov tabele rezanja pa so bili dodani parametri procesa.
- V funkcijo Posodobitev priročnikov je dodana podpora za Powermax45 XP. Priročnike Powermax45 XP je mogoče uvoziti z geslom "UPDATEMANUALS" ali z gumbom "Posod. priročnike" na zaslonu Posebne nastavitve.



Podpora za rezalni proces Powermax45 XP ni del izdaje 10.2.

- Namestitveni program zbirke Phoenix zdaj posodobi orodje za pretvorbo True Hole.
- Pripomoček za pretvorbo True Hole je bil deležen več izboljšav:
  - Dodana podpora za Phoenixov parameter "EIA I & J kode absolutno", ki se zdaj vedno posreduje iz Phoenixa v pripomoček za pretvorbo True Hole. Programska paketa sta tako sinhronizirana (EIA IJ je inkrementalen ali absoluten) pri interpretaciji/izdaji programa EIA.
  - Pretvorba True Hole zdaj sprejema dele z opcijskimi kodami I ali J. Če je I ali J koda enaka 0, ni več potrebna.
  - Pretvorba True Hole zdaj pravilno ustvari izhod True Hole za luknje, ki so izrezane pozneje v programu dela, četudi je premer prve luknje ali lukenj prevelik za pretvorbo v izhod True Hole.

## **Odpravljene težave pri Phoenixu**

- Upravljalne konzole, ki NISO bile ustvarjene s paketom Nuget, ne bodo delovale pri posodabljanju trenutno uporabljenega jezika na Phoenix 10.2. To se zgodi zato, ker posodobitev premakne dve datoteki dll (InternalComms.dll in Models.dll) v mapo z imenom ObsoletePhoenixOpConAPI v imeniku C:\Phoenix. Težavo je mogoče razrešiti na 2 načina:
  - S premikom 2 datotek dll iz mape ObsoletePhoenixOpConAPI v imenik C:\Phoenix. Na ta način omogočite upravljalno konzolo po meri, vendar NE morete poganjati standardne upravljalne konzole Phoenix v različici 10.2.0.
  - Posodobite upravljalno konzolo po meri z novim paketom Nuget. To je najboljša možnost, ki jo tudi priporoča Hypertherm. Upravljalna konzola po meri bo tako delovala, prav tako tudi nova standardna upravljalna konzola.
- Popravljen nepravilen preklon procesa rezanja iz označevanja na rezanje, če večkrat pride do premora v programu pred prvim zaznavanjem reza.
- Števec posodobitev procesa se zdaj ponastavi na 0, če pride do premora v programu dela še preden plazemski sistem ustvari oblok. Na ta način se prepreči premor v programu in sporoči, da je potreben ponoven poizkus posodobitve procesa.
- Odpravljena težava s sistemi HPR, do katere je prišlo pri menjavi iz rezanja na označevanje z argonom, ko je označevalni tok 25 do 35 A. Proces se ni pravilno posodobil in prišlo je do premora v programu. Phoenix je ob ponovnem zagonu programa posodobil HPR z rezalnim procesom, ne z označevalnim procesom.
- Operacija posodobitve programske opreme zdaj pravilno namesti prevode.
- Da Phoenix ne bi zamrznil pri hitrem prehajanju med programi delov na zaslonu Nalaganje z vključenim predogledom, Phoenix zdaj blokira nalaganje novega programa dela medtem, ko se še izrisuje prejšnji program dela.
- Phoenix zdaj ne ostane več na zaslonu Ročno in zaslonski tipki OK in Prekliči nista aktivni po pritisku na gumb za zaustavitev v sili z aktivnim CutPro ali Align Wizard.
- Zdaj so preprečene napake izjem Phoenixa v primeru nenamerne aktivnosti potenciometra za hitrost ali čezmernega električnega šuma.



## Odpravljene težave pri CNC-ju ProNest

- Odvisno od orientacije stroja/osi v Phoenixu bo CNC ProNest morda ustvaril del s potjo rezanja v napačni smeri, ko uporabljate preproste oblike Phoenix. Nekatere orientacije osi (+Y -X, kjer je X tir) bi povzročile nepravilen izhod iz CNC-ja ProNest pri uporabi preprostih oblik. Na dele DXF to ne vpliva. Zdaj vse orientacije osi dajejo enak vhod v ProNest CNC za preproste oblike, tako da je izhod preproste oblike s CNC-jem ProNest pravilen za vse orientacije.
- Odpravljena je bila napaka v podatkih rezalnega procesa CNC-ja ProNest, tako da se zdaj uporablja pravo podajanje za primike True Hole.

## Različice programov

V naslednji tabeli so za referenco prikazane različice programske opreme pred to posodobitvijo in po njej.



V tabeli so vključene tudi različice programske opreme za nove CNC-je EDGE Connect, ki so dobavljeni z različico Phoenix 10.2.0.

Različice programske opreme na CNC-ju lahko preverite tako, da izberete v **glavnem meniju Nastavitve > Diagnostika > Informacije krmilja**.



Če želite posodobiti CNC ali če imate vprašanja v zvezi z različicami programske opreme, se obrnite na regionalnega aplikativnega inženirja (PAE).

Programska oprema	Pred posodobitvijo**	Po posodobitvi	Novi CNC-ji
Windows	10.00.10240	10.00.10240	10.00.10240
Phoenix*	10.01.0	10.2.0	10.2.0
Realnočasovni OS	6.1.16110.1	6.1.16110.1	6.1.16110.1
Master področno vodilo	1.5.59902.0	1.5.59902.0	1.5.59902.0
Realnočasovni modul*	10.01.0	10.2.0	10.2.0
PLC mehanizem	1.0.0.0	1.0.0.0	1.0.0.0
Slika sistema*	27 ali 28	27 ali 28	30
Phoenix OpCon API*	2.0.0.0	2.0.0.0	2.0.0.0
Aktivni API-ji OpCon*	2.0.0.0	2.0.0.0	2.0.0.0

\* Označuje različico programske opreme, ki se je spremenila s to posodobitvijo.



# Različica 10.01.0

## Opombe ob izdaji

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### Funkcije

- Dodana podpora za 16-kanalni digitalni EtherCAT vhodni modul Beckhoff EL1809 in za 16-kanalni digitalni EtherCAT izhodni modul Beckhoff EL2809. Za več informacij glejte dokument (809660) Pogoni *EtherCAT® in V/I-moduli, ki jih podpirajo CNC-ji EDGE® Connect/TTC*.
- Izboljšan osciloskop Phoenix. Predvajanje podatkov zdaj podpira več nastavitev hitrosti za hitro predvajanje.
- Ko je rezalni stroj pravilno premaknjen v domači položaj, se zdaj omogočijo programske meje podaljšanega hoda X in Y pred izvedbo funkcije Razdalja premika na zaslonu Ročno. Operater CNC-ja je zdaj opozorjen, preden se začne gibanje.

### Izboljšave

- Namestitveni program zbirke Phoenix lahko zdaj po potrebi samodejno posodobi datoteke knjižnice EtherCAT slave.
- Odpravljeno občasno "zatikanje" v gibanju stroja, ki ga povzročajo zakasnitve v omrežju EtherCAT v kombinaciji s prioriteta niti RTOS in Phoenixovim upravljanjem časa.
  - Optimizirane prioritete niti RTOS in posodobitve omrežja PLC I/O EtherCAT za dosledno in pravočasno gibanje.
  - Ustvarjenje napake in sporočila o napaki za vsako zamujeno ciklično posodobitev paketa EtherCAT.
- Dodana vzvratna združljivost s prejšnjimi različicami API-ja Phoenix OpCon.

- Zdaj se pokaže potrditveno sporočilo (Funkcije uspešno posodobljene), ko so omogočene funkcije na novo kupljene programske opreme z geslom UPDATEFEATURES.
- Dodane kontrole za Cev/Vrtenje osi. Kode F za vrtenje v programu dela so zdaj prezrte, če je nastavev Vrtilne hitrosti na zaslonu Hitrosti nepravilno nastavljena na nič (0). Vrtilno gibanje je zdaj blokirano, dokler vrednost največje hitrosti ni popravljena na neničelno vrednost.
- Pri urejanju rezalne konice na zaslonu Tabela rezanja za plamensko rezanje je zdaj namesto zaslonske številčnice prikazana zaslonska alfanumerična tipkovnica, tako da lahko vnašate številke in črke.
- Zdaj je na voljo podpora za negativne vrednosti analognih izhodov.
- Zdaj je za vrednosti analognih vhodov podprto območje  $\pm 10$  V DC namesto območja 0–10 V DC. S tem so podprti pogoni EtherCAT in V/I-moduli s to zmogljivostjo.
- Odpravljeno občasno “zatikanje” v gibanju stroja med zagonom omrežja EtherCAT. Občasna zatikanja je povzročal Phoenix, ki je pogone omogočil še preden je bilo omrežje operativno in tako dopuščal pogonom, da so javljali napačne podatke o položaju.
- Signali HPR Proces pripravljen in HPR Oddaljeni vklop so zdaj na voljo v oknih Ogled V/I in Osciloskop za izboljšano diagnostiko.
- Jasnejše oznake Phoenix OpCon API na zaslonu Informacije krmilja. Oznaka “Podprt API” je zdaj “Phoenix OpCon API”, oznaka “API odjemalca(ev)” pa je zdaj “Aktivni API-ji OpCon”.

## Odpravljene težave

- Phoenix zdaj prezre napako nepravilne podrejene strojne upravljalne konzole, ki se lahko pojavi med zagonom omrežja EtherCAT.
- Potenciometer za hitrost, ki je nastavljen na nič, se zdaj pravilno obravnava, ko je aktivno Nadaljevanje dela med aktivno zaustavitvijo v sili, če pride do napake na stroju, ali če ni aktivirano Nadaljevanje dela.
- Sinhroniziran indikator stanja postaje programske upravljalne konzole in onemogočenje postaje programske upravljalne konzole, ročni način in tipke programskega načina. (Zelena barva označuje omogočeno stanje. Rdeča barva označuje onemogočeno stanje.)
- Popravljeno nepravilno gibanje Vrni na začetek pri uporabi zaustavitve v sili, ko se uporabi Nadaljevanje programa dela/Prekinitev napajanja med izvajanjem programa dela.
- Izboljšana zanesljivost vklapljanja in izklapljanja ročnega načina na programski upravljalni konzoli.
- Dodana kontrola prisotnosti zaslona Premor za odpravo morebitnih Phoenixovih napak izjeme pri shranjevanju podatkov programa dela Izguba napajanja.
- Števec prebodov ne ostane več viden v oknu Watch Windows, ko so v istem spodnjem predelu okna Watch Window prikazani drugi elementi.
- Dodana podpora za napako položaja iz pogonov Yaskawa.



Če je rezalni stroj opremljen s pogoni Yaskawa EtherCAT, ponovno konfigurirajte omrežje EtherCAT po namestitvi te posodobitve. To pomeni, da ponovno poskenirajte omrežje EtherCAT in ustvarite novo datoteko Phoenix.xml. Za navodila glejte poglavje *Konfiguracija omrežja EtherCAT* v *Priročniku za namestitev in nastavev EDGE Connect (809340)*.

- Napetost obloka THC se zdaj pravilno pridobiva pri plazemskih sistemih, ki uporabljajo diskretne analogne vhode.
- V splošnem je izboljšano ravnanje z napakami in napake neveljavnega področnega vodila EtherCAT so bile odpravljene.
- Izhoda Zadrževanja vžiga 1 in 2 se zdaj pravilno posodabljata v Watch Window.
- Pri uporabi zaklenjenega ročnega premikanja v Watch Window (ali z uporabo puščičnih tipk na priključeni tipkovnici) se zaklenjeno ročno premikanje izključi ob pritisku na puščično tipko v programski upravljalni konzoli.

## Različice programov

V naslednji tabeli so za referenco prikazane različice programske opreme pred to posodobitvijo in po njej.



V tej tabeli so vključene tudi različice programske opreme za nove CNC-je EDGE Connect, ki so dobavljeni z različico Phoenix 10.01.0.

Različice programske opreme na CNC-ju lahko preverite tako, da izberete v **glavnem meniju Nastavitve > Diagnostika > Informacije krmilja**.



Če želite posodobiti CNC ali če imate vprašanja v zvezi z različicami programske opreme, se obrnite na regionalnega aplikativnega inženirja (PAE).

Programska oprema	Pred posodobitvijo	Po posodobitvi	Novi CNC-ji
Windows	10.00.10240	10.00.10240	10.00.10240
Phoenix*	10.00.0	10.01.0	10.01.0
Realnočasovni OS	6.1.16110.1	6.1.16110.1	6.1.16110.1
Master področno vodilo	1.5.59902.0	1.5.59902.0	1.5.59902.0
Realnočasovni modul*	10.0.0	10.01.0	10.01.0
PLC mehanizem	1.0.0.0	1.0.0.0	1.0.0.0
Slika sistema*	27	27	28
Phoenix OpCon API*	1.x.x.x	2.0.0.0	2.0.0.0
Aktivni API-ji OpCon*	1.1.0.11	2.0.0.0	2.0.0.0

\* Označuje različico programske opreme, ki se je spremenila s to posodobitvijo. Ostale različice se niso spremenile.

## Namestitev različice 10.01.0

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### Preden začnete

Opravite naslednje:

- **Poskrbite, da bo na CNC-ju nameščena slika 27 ter da bo Phoenix različice 10.00.0 ali novejši.** Ne nameščajte te posodobitve, če na CNC-ju nista nameščeni ti dve različici programske opreme.
  - Različice nameščene programske opreme na CNC-ju lahko preverite tako, da izberete v **glavnem meniju Nastavitve > Diagnostika > Informacije krmilja**. Pod **Verz. programov** glejte polji **Phoenix** in **Slika sist.** Če je treba sistem posodobiti na sliko 27 in na programsko opremo Phoenix različice 10.00.0 ali novejšo, se obrnite na regionalnega aplikativnega inženirja (PAE).
- Naredite varnostno kopijo sistemskih datotek CNC-ja: izberite na **glavnem zaslonu Datot. > Shr. na disk > Shr. sist.dat. na disk**.
- Če ima CNC upravljalno programsko konzolo po meri (Soft Op Con), naredite varnostno kopijo aplikacije Soft Op Con po meri in pripadajoče datoteke **steps.json**. Če ob ustvarjenju ni bilo izbrano edinstveno ime za programsko upravljalno konzolo po meri, bo ob namestitvi te posodobitve aplikacija Soft Op Con po meri zamenjana s standardno aplikacijo Hypertherm Soft Op Con.

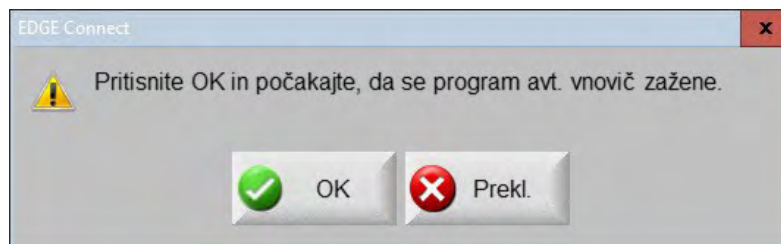
Upoštevajte naslednje:

- To je vmesna posodobitev **samo** za programsko opremo Phoenix. Ta posodobitev ne vključuje posodobitev tabel rezanja, sistema pomoči Phoenix ali tehnične dokumentacije.
- Namestitvi te posodobitve sledi samodejni ponovni zagon Phoenixa.
- Če je rezalni stroj opremljen s pogoni Yaskawa EtherCAT, ponovno konfigurirajte omrežje EtherCAT po namestitvi te posodobitve. To pomeni, da ponovno poskenirajte omrežje EtherCAT in ustvarite novo datoteko Phoenix.xml. Za navodila glejte poglavje *Konfiguracija omrežja EtherCAT v Priročniku za namestitev in nastavitve EDGE Connect (809340)*.

### Prenos in namestitev posodobitev

1. Na spletnem mestu [www.hypertherm.com](http://www.hypertherm.com) izberite **Customer support > Phoenix software updates**.
2. Prenesite datoteko **PhoenixSuiteInstaller.exe** za ustrezní jezik v korenski imenik na spominskem ključu USB.
3. Vstavite spominski ključ USB v vrata USB na CNC-ju.
4. Na **glavnem zaslonu** izberite **Nastavitve > Geslo**.
5. Natipkajte **UPDATESOFTWARE** (ena beseda) in nato izberite **OK**.

6. Na poziv izberite **OK**.

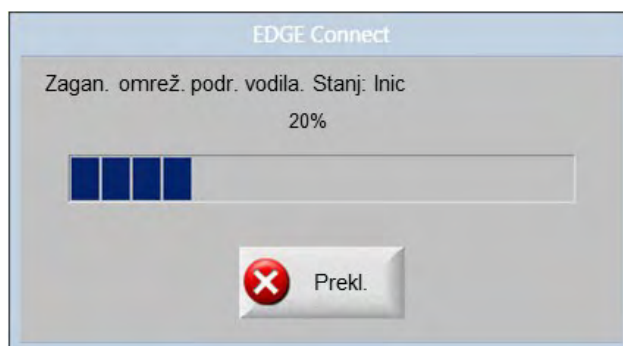


7. Počakajte do konca namestitve posodobitve.



V tem času se bo samodejno odprlo in zaprlo več oken. To je normalno.

8. Ko bo posodobitev nameščena, se bo CNC samodejno ponovno zagnal in Phoenix se bo odprl in začel zaganjati omrežje EtherCAT. Prikaže se naslednje sporočilo.



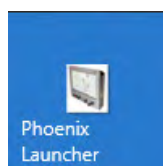
9. Izberite **Prekliči**, da ustavite zagon omrežja.

10. Kliknite kamorkoli v glavnem zaslonu Phoenixa in nato pritisnite Alt+F4 za izhod iz Phoenixa.



**Če je imel CNC programsko upravljalno konzolo po meri:** Če ima CNC upravljalno programsko konzolo po meri (Soft Op Con), za katero ste naredili varnostno kopijo aplikacije in pripadajoče datoteke **steps.json**, prekopirajte te datoteke nazaj v mapo **C:\Phoenix** na CNC-ju.

11. Kliknite gumb Windows Start in nato kliknite **Phoenix Launcher**.



**Če ima rezalni stroj pogone Yaskawa EtherCAT:** Potrebna je ponovna konfiguracija omrežja EtherCAT. To pomeni, da morate ponovno poskenirati omrežje EtherCAT in ustvariti novo datoteko Phoenix.xml. Za navodila glejte poglavje *Konfiguracija omrežja EtherCAT* v *Priročniku za namestitve in nastavitve EDGE Connect* (809340).

