

Prepared Solutions

Software solutions for servo inverter 9300 and ECS



Complexity made simple

Prepared Solutions | Complexity made simple

Do you want to implement your machine concepts with ease and at low cost? Do you want to commission them quickly and reliably? The Prepared Solutions will help you achieve optimum implementation.

We will simplify the process of implementing even complex drive functions into real-life applications.

A combination of the tried-and-tested servo inverters and the innovative Prepared Solution software will form the basis for this.

Make the most of our experience in solving your drive task and benefit from the simple parameterization of a complete application.

The Prepared Solutions

- ▶ save time and money in engineering
- ▶ allow for quick commissioning
- ▶ increase the operational reliability of your plant

Lenze has developed Prepared Solutions for the following applications

- ▶ Flying Saw
- ▶ Cross Cutter



Prepared Solutions | Benefits for you

High level of operational reliability

Prepared Solutions are fully tested, documented and ready for practical use, giving you the guarantee of high levels of operational reliability.

Simple commissioning

The Prepared Solutions integrate seamlessly into Lenze's parameterization and operating program "Global Drive Control". An integrated guide takes you through the simple commissioning process one step at a time.

Save time and money

Prepared Solutions already contain a machine unit's complete functionality. You need simply enter a few parameters, saving you time and money.

Use our experience in your application

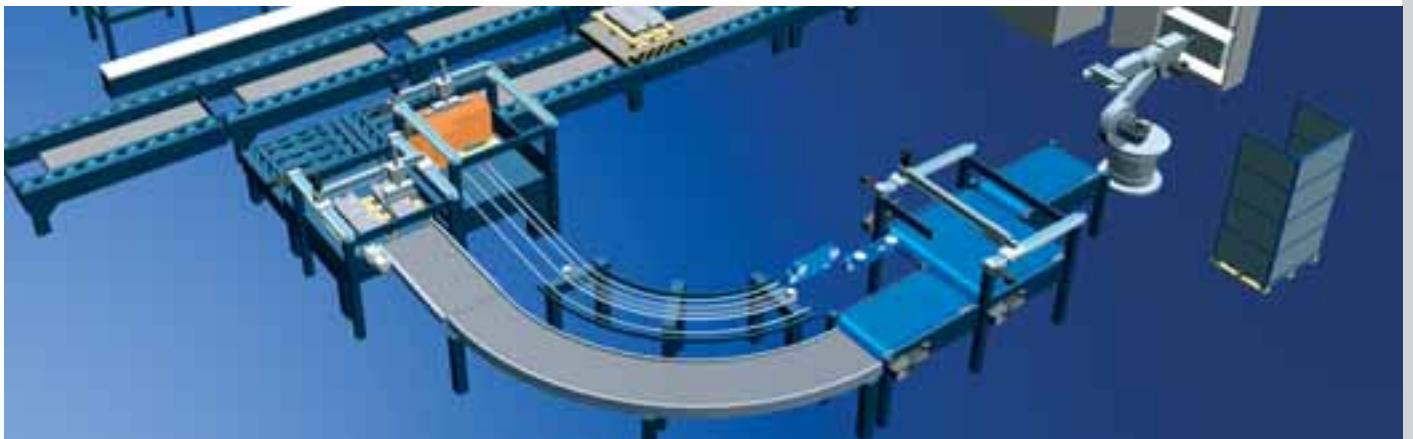
While solving drive tasks for our customers, we have built up global application know-how. The Prepared Solutions are based on the years of experience gained by our application engineers.

Simple integration

Prepared Solutions have their own status and control words. A wide range of fieldbus protocols can be used to easily integrate the solutions into existing topologies.

Can be extended

If your range of functions is subject to more stringent requirements, the user can edit and add to the IEC61131-3 software program in Prepared Solutions, allowing the solution to be adapted to very special machine requirements.



Solution | Flying Saw

The Flying Saw Prepared Solution has been developed for the “Flying Saw” application.

The characteristic feature of this application is that processing can be undertaken on the product during ongoing production processes without the process having to be stopped. Any conceivable processing, e.g. even filling or drilling work, can be carried out.

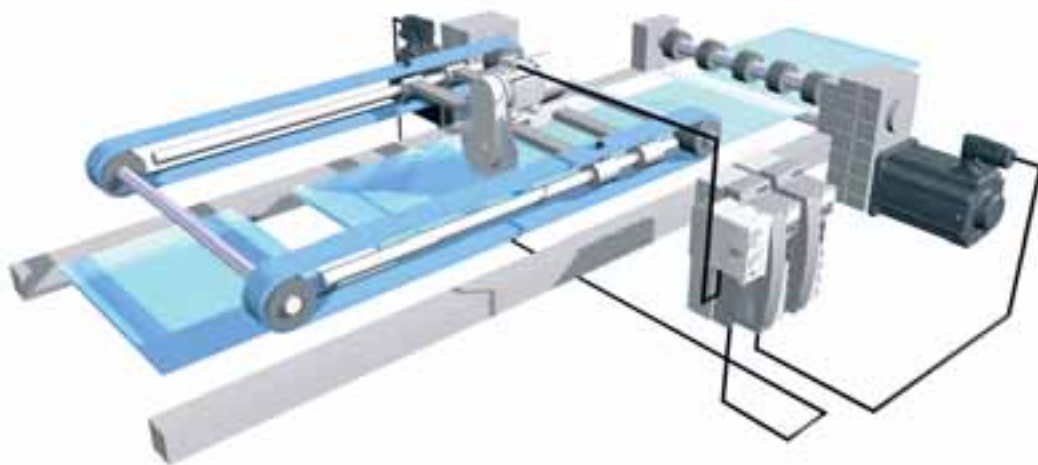
The processing tool is accelerated to the same speed as the conveying belt in a translational manner, the product is processed and once the work is complete, the tool returns to its home position.



Once the Flying Saw Prepared Solution has been downloaded into servo inverters 9300 or ECS, it already represents a flying saw to the commissioning tool “Global Drive Control”. A few individual parameters is all that is needed to quickly and reliably commission the servo inverter as a “flying saw”.

Typical areas of use include

- ▶ cutting to length and dividing,
- ▶ printing, embossing and marking of material in motion
- ▶ processing, gripping and checking moving workpieces



Solution | Cross Cutter

Lenze offers the Cross Cutter Prepared Solution for cross cutter or “rotary knife” applications.

Cross cutters are used in cases where rotary processing is to be carried out on the material during an ongoing production process. These are not necessarily cutting processes. The printing, embossing or marking of material in motion is also possible.

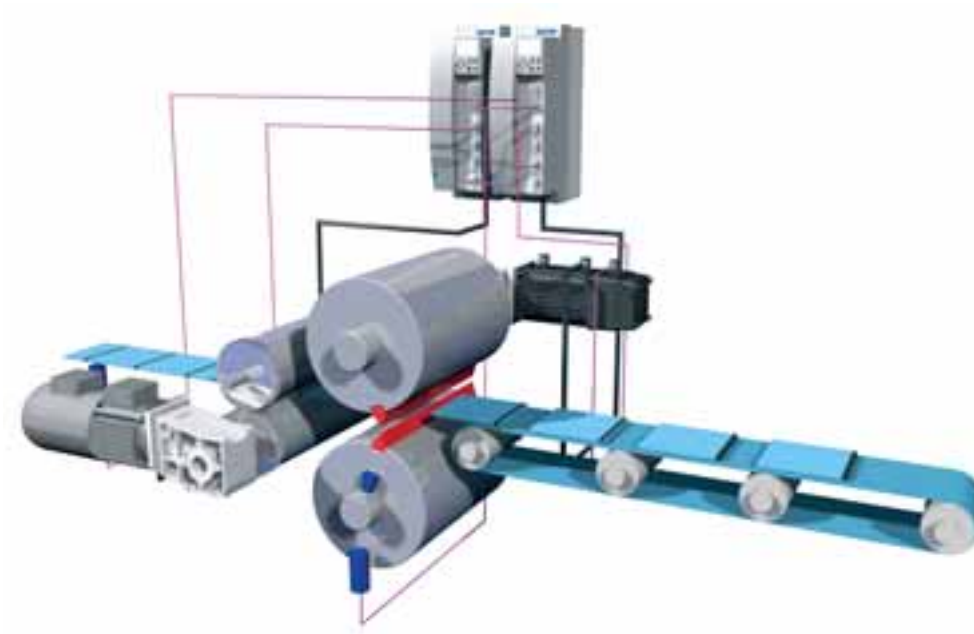
Depending on the cutting length required, the knife drum outside the cutting phase moves faster or slower than the material speed. Synchronisation to the path speed is controlled simply by registration or marks.



You can be sure of effective and reliable commissioning of the cross cutter when using the Cross Cutter Prepared Solution.

Typical areas of use include

- ▶ cutting, embossing cards, envelopes or films
- ▶ production and assembly of packaging material
- ▶ format cuts
- ▶ heat-sealing films



Prepared Solutions | Scope of supply/ requirements



The CDs contain all files required for the parameterisable variant.

The files are installed on the PC automatically by means of an installation wizard. If the following programs have not yet been installed, GDLoader, GDCeasy, GDOscilloscope, and Lenze Cam Designer Basic for the cross cutter are also installed at this time.

For the programmable variant for both Prepared Solutions the Drive PLC Developer Studio (ESP-DDS1-P > V2.2) software is required additionally.

System requirements

- ▶ Microsoft® Windows XP (SP2)
- ▶ IBM-AT-compatible PC with Intel®Pentium®-90 processor or higher
- ▶ Main memory of at least 128 MB (RAM)
- ▶ 70 MB of free hard-disk storage for the installation of the Prepared Solutions
- ▶ Additionally 250 MB of free hard-disk storage if GDC is not yet installed on your PC
- ▶ Additionally 100 MB of free hard-disk storage if GDLoader V3.0 is not yet installed on your PC
- ▶ VGA graphics card
- ▶ Pointing device (mouse, trackball, etc.)
- ▶ Free USB port for communication with the controllers via the EMF2177IB PC system bus adapter
- ▶ Installation of DDS Professional V2.2 or higher (only for use of the programmable variant of the Prepared Solutions)

Supported hardware components

Product	Type designation	Hardware version	Firmware version
9300ET ServoPLC	EVS93xxET	7A or higher	6.5 or higher
Axis controller	ECSxA	4B or higher	7.4 or higher
PC system bus adapter	EMF2177IB	1.3 or higher	1.7 or higher
Hand-held unit (XT keypad)	EMZ9371BC	all	all

Basic functions | Prepared Solutions

Prepared Solution	Basic functions
Flying Saw ESPLV01XA0FC1	Homing
	Manual jog, including hardware and software limit positions
	Positioning in the home position
	Top cut
	Item and length counter
	Cutting length and cutting mark control
	Gap formation
	Error handling
Cross Cutter ESPLV02XA0FC1	Homing and manual jog
	Simple positioning
	Cutting length and cutting mark control
	Continuous cutting, test and reject mode
	Synchronous and asynchronous operations
	Mark window and register control
	Manual X trimming
	Error handling



It's good to know | why we are there for you



"Our customers come first. Customer satisfaction is what motivates us. By thinking in terms of how we can add value for our customers we can increase productivity through reliability."



"The world is our marketplace. We develop and manufacture internationally. Wherever you are in the world, we are nearby."



"We will provide you with exactly what you need – perfectly co-ordinated products and solutions with the right functions for your machines and installations. That is what we mean by 'quality'."



"Take advantage of our wealth of expertise. For 60 years now we have been gathering experience in various fields and implementing it consistently and rigorously in our products, motion functions and preprepared solutions for industry."



"We identify with your targets and strive towards a long-term partnership which benefits both sides. Our competent support and consultation process means that we can provide you with tailor-made solutions. We are there for you and can offer assistance in all of the key processes."

You can rely on our service. Expert advice is available 24 hours a day, 365 days a year, in more than 30 countries via our international helpline: 008000 24 Hours (008000 2446877).

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