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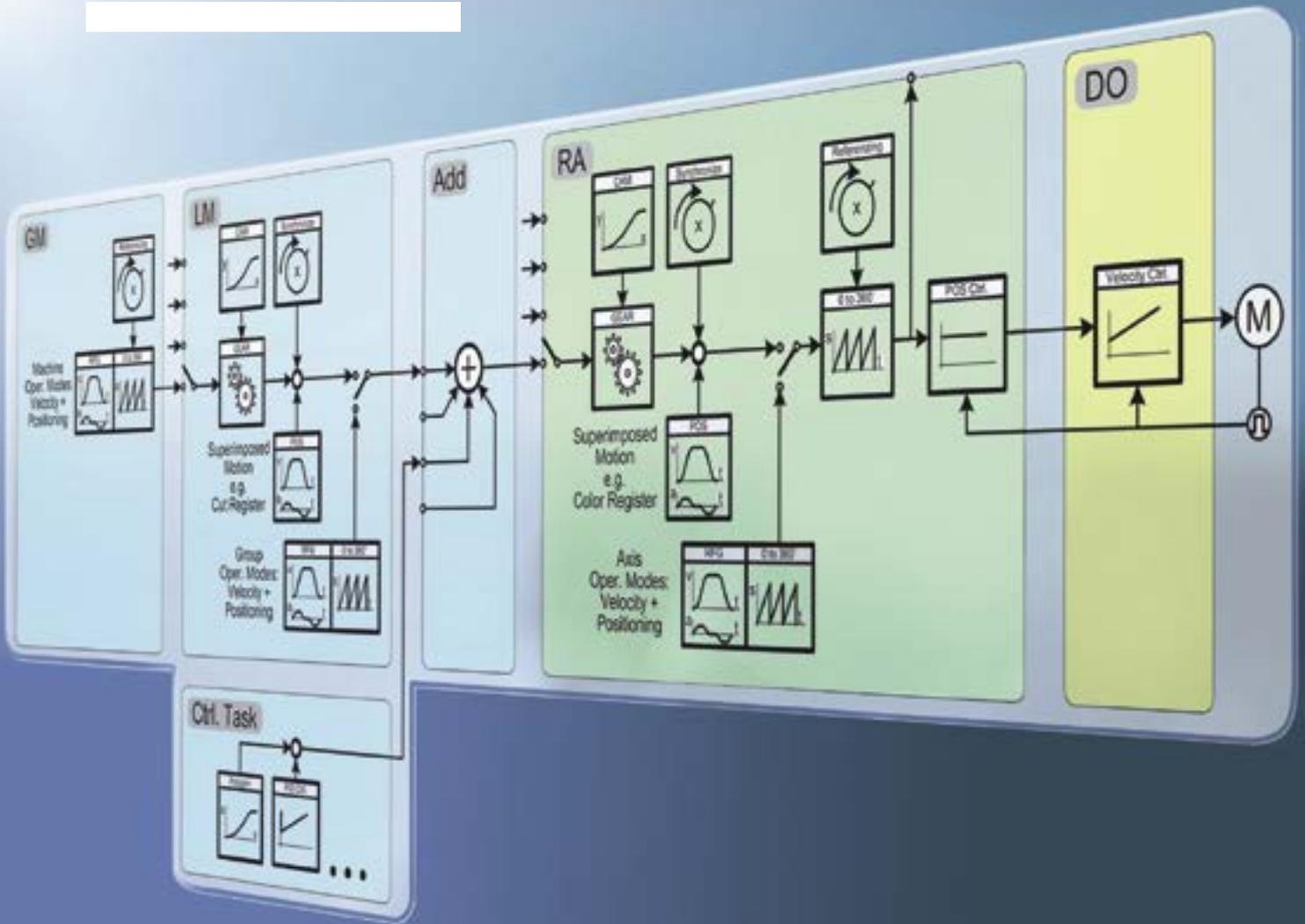
Print Standard software package

Customized and flexible solutions based on a standard platform

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Print Standard software package

The open Print Standard software package for SIMOTION is perfectly tailored to address the requirements of printing machines – such as the precisely coordinated synchronization of a high number of axes.

Using the Print Standard – flexible interconnection concepts involving virtual and real axes can be simply implemented. This is clearly and transparently shown in the form of segment examples for main applications – such as rotorgravure, offset and flexoprinting.

It offers standard mode management to control printing machine drives using the SIMOTION motion control system.

Cross-segment and technologically demanding functions are separately described as add-on examples, which can be simply integrated into existing projects.

Widest range of configurations can be simply emulated

Print Standard is the optimum solution for every application – no matter whether it involves a small system concept with only a few axes – or a large system involving a high number of axes with distributed synchronous operation over several control systems.

Wide spectrum of functions already integrated

In addition to typical printing machine modes, all of the usual functions are already integrated – and can be immediately used.

Standardized and unified

A standardized interface to the PLC program – independent of the axis type – facilitates user-friendly and uniform operation.

Open and transparent

The application is open and transparently programmed. Under the motto "from users for users" – all of the functions have been tested over many years. Users can simply integrate their own ideas without having to modify the standard application.

The application – an overview

In addition to the master application, the listed segments and add-on applications are also available.

More details here

Print Standard

Segment applications

Rotogravure	Flexoprint

Offset printing	Corrugated paper printing

AddOn applications

Winder	TRC3000	Tension controller	OA Leco

TRC1000	TRC7000	Web storage	...

Efficient engineering

The requirements placed on the flexibility and functionality of state-of-the-art machines are continually rising. Machines are becoming increasingly more modular – and technological functions are being realized using additional servo drives.

On the other hand, engineering and commissioning times are continually decreasing.

Where previously weeks or even months were available, today, it's just a question of a few days or weeks until a machine with complex synchronous functions must go onstream and print. The efficiency and reliability of engineering processes are decisive in order to master these challenges in the future.

With the integration of the Print Standard software package in the SIMOTION easyProject project generator, Siemens has created the basis for a reliable and automated engineering process for printing machines of the future.

Simple software generation and update

Machine projects with hardware & software components can be simply and understandably generated – and in such a way that they can be reused. Even communication connections between several control systems can be automatically implemented.

This reduces the tendency to make mistakes to a minimum. Being able to check the versions of individual program sources additionally simplifies updating and maintaining projects that have already been created.

Modularity through functions and modules that can be saved

Elements in the Print Standard – such as web tensions, winders or printing units – are saved so that they can be configured. Depending on the machine configuration, the appropriate number of modules can be generated in the project. Axis interconnections for synchronous functions are automatically saved.

Open and expandable

Users can generate and save modules and functions. This is an ideal approach for them to create a module library to address their own individual requirements.

Engineering example: rotogravure machine with winder, closed-loop tension control and integrated TRC3000 register control

SIMATIC S7

SIMOTION with SINAMICS 2120

Print Standard
Interface

■ PROFINET

Machine project