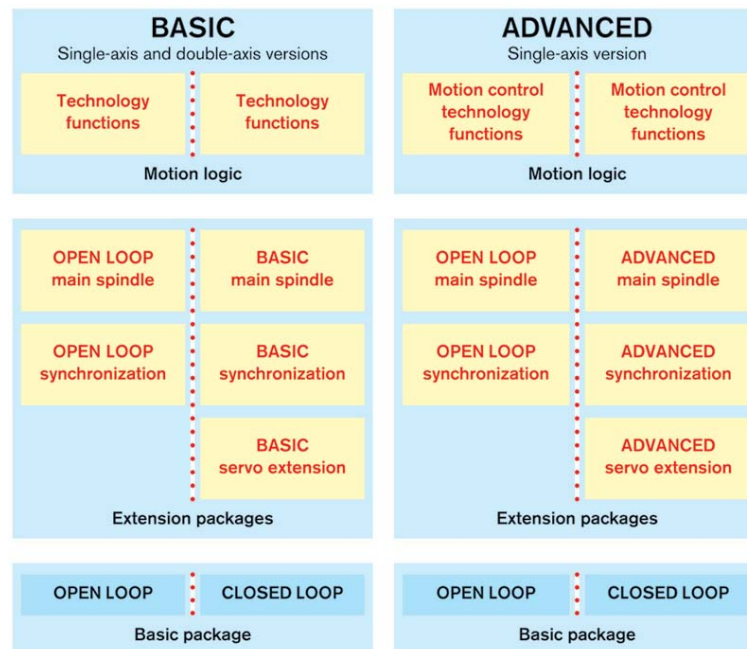
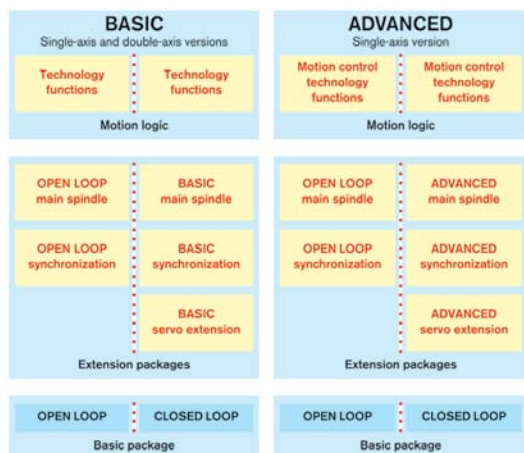


Servo drives Firmware



Servo drives

FirmwareDocumentation
Firmware

Customized functionality

- All standard functions already included in basic package
- individual function extensions
- Industry-specific technology functions
- Integrated IEC-compliant motion logic

The firmware can be tailored to your specific application in a number of flexible configurations:

Basic OPEN LOOP package (frequency converter applications)

Basic CLOSED LOOP package (servo and frequency converter applications)

Extension package (optional)

Motion logic (IndraMotion MLD option)

The basic package is sufficient to perform the majority of standard drive functions – from simple V/f control right through to positioning block mode.

Various extension packages provide you with the options of electronic synchronization, additional servo functions or main spindle operation.

The freely-programmable motion logic with integrated PLC conforming to IEC 61131-3 and ready-to-use technology functions enable simple execution of complex machine processes.

Technical data

	BASIC OPEN LOOP	BASIC CLOSED LOOP	ADVANCED OPEN LOOP	ADVANCED CLOSED LOOP
General				
Electronic type plate	●	●	●	●
Automatic control circuit adjustment	●	●	●	●
Setpoint generator for control optimization	●	●	●	●
Adjustable error response	●	●	●	●
Brake control	●	●	●	●
Oscilloscope function	●	●	●	●
Basic functions OPEN LOOP				
General motor with V/f-Curve, incl. slip compensation, I x R compensation and stall protection	●	●	●	●
Sensorless vector control	●	●	●	●
Speed ramp generator	●	●	●	●
Motorized potentiometer function	●	●	●	●
Basic functions CLOSED LOOP				
Position, speed and torque control		●		●

Servo drives

Firmware

Drive-controlled refer-encing			•		•
Drive-controlled posi-tioning			•		•
Interpolation inside drive			•		•
Positioning block mode			•		•
Position, speed and torque limit			•		•
Automatic commutation adjustment			•		•
Path switching point with ON and OFF switching threshold			•		•
coder emulation, incremental or absolute (SSI format)			•		•
Travel to fixed stop			•		•
Servo extension					
Easy compensation of backlash on reversal			•		•
Axis error correction					•
Quadrant error cor-rection					•
Frictional torque com-pensation			•		•
Touch probe with fast stop		0	1	0	2
Dynamic cam group			•		•
Main spindle					
Parameter block changeover		• ¹⁾	•	•	•
Spindle positioning mode			•		
Drive-controlled gear changes					•
Synchronization					
Speed synchronization		•	•	•	•
Angle synchronization			•		•
Measuring wheel mode			•		•
Real and virtual lead-ing axis		•	•	•	•
Cam plate (tabular value)			•		•
Cam plate (analytical value)					•
Touch probe with time measurement		1	0	1	0
Touch probe with syn-chronization function		0	1	0	2
Dynamic cam group			•	•	•
IndraMotion MLD					
Freely programmable in compliance with IEC 61131-3		• ²⁾	• ²⁾	•	•

Servo drives

Firmware

1)

Not with double-axis control units

2)

BASIC control units are restricted in terms of performance

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It must be remembered that our products are subject to a natural process of wear and aging.