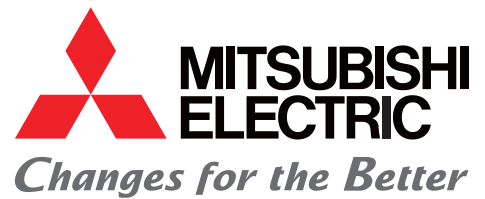


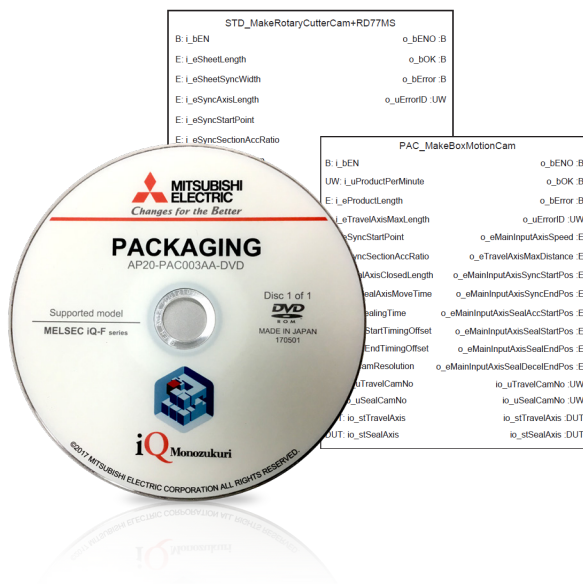


for a greener tomorrow



iQ Monozukuri

PACKAGING SOLUTION



iQ Monozukuri Packaging is a complete and powerful engineering tool to help packaging OEMs and end users shorten development time of new machines. It includes function blocks for various cam profiles, rotary cutter, and long dwell application sample programs as well as sample GOT screens. This product is available for both iQ-R and iQ-F Series simple motion modules.

KEY BENEFITS:

- **Reduce program development time** – Easily create projects based on cam profile function blocks, sample programs, and sample GOT screens included in the package
- **Effortless engineering adoption** – Minimum cam knowledge, and no cam calculations are required to create cam profiles
- **Boost production throughput** – Create efficient programs for fast processing and productivity
- **Improve production quality** – Highly synchronized motion control for accurate and consistent operation implemented with simple motion modules
- **Flexible and scalable for various applications** – Function blocks are applicable for rotary cutter, flying shear, box motion, long dwell, and mark detection types of machines. Machine programs can be standardized for use on different machines.



Download a trial version
[MitsubishiElectric.com/
 iQ Monozukuri Trial](http://MitsubishiElectric.com/iQ_Monozukuri_Trial)



iQ Monozukuri Packaging Solution

FUNCTION BLOCKS – Productive and Reliable

PAC_MakeBoxMotionCam			
Execution command	B: i_bEN	o_bENO :B	Execution status
Production speed	UW: i_uProductPerMinute	o_bOK :B	Normal completion
Product length	E: i_eProductLength	o_bError :B	Error completion
Travel axis movement amount limit value	E: i_eTravelAxisMaxLength	o_uErrorID :UW	Error code
Travel axis synchronization starting point	E: i_eSyncStartPoint	o_eMainInputAxisSpeed :E	Main input axis speed
Travel axis synchronous section acceleration ratio	E: i_eSyncSectionAccRatio	o_eTravelAxisMaxDistance :E	Travel axis maximum point
Seal axis movement amount	E: i_eSealAxisClosedLength	o_eMainInputAxisSyncStartPos :E	Travel axis synchronization starting point
Seal axis acceleration/deceleration	UD: i_udSealAxisMoveTime	o_eMainInputAxisSyncEndPos :E	Travel axis synchronization ending point
Sealing time	UD: i_udSealingTime	o_eMainInputAxisSealAccStartPos :E	Seal axis acceleration starting point
Seal starting time offset	D: i_dSealStartTimingOffset	o_eMainInputAxisSealStartPos :E	Seal axis seal starting point
Seal ending time offset	D: i_dSealEndTimingOffset	o_eMainInputAxisSealEndPos :E	Seal axis seal ending point
Cam resolution	UW: i_uCamResolution	o_eMainInputAxisSealDecelEndPos :E	Seal axis deceleration ending point
Travel axis cam auto-generation cam No.	UW: io_uTravelCamNo	io_uTravelCamNo :UW	Travel axis cam auto-generation cam No.
Seal axis cam auto-generation cam No.	UW: io_uSealCamNo	io_uSealCamNo :UW	Seal axis cam auto-generation cam No.
Travel axis setting	DUT: io_stTravelAxis	io_stTravelAxis :DUT	Travel axis setting
Seal axis setting	DUT: io_stSealAxis	io_stSealAxis :DUT	Seal axis setting

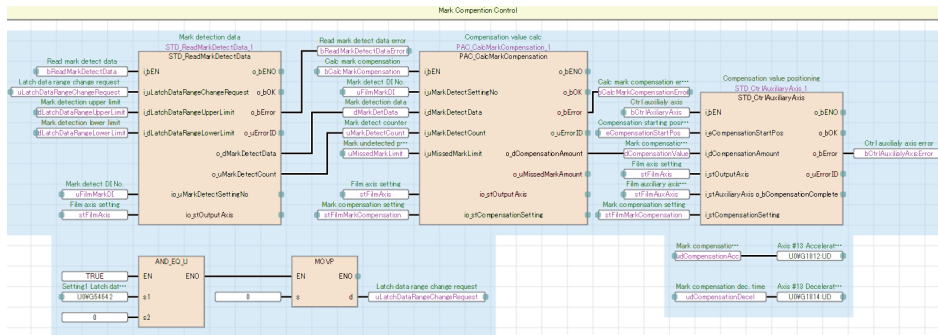
Advanced Flying Shear Motion

A wide range of reliable function blocks for packaging applications will improve production and shorten machine program development time. Cams available include box motion (advanced flying shear), mark detection, and smart conveyor.

PAC_CalcGap			
Execution command	B: i_bEN	o_bENO :B	Execution status
Work length	E: i_eWorkLength	o_bOK :B	Normal completion
Sensor position	E: i_eSensorPosition	o_bError :B	Error completion
Mark detection data	D: i_dMarkDetectData	o_uErrorID :UW	Error code
Mark detection counts	UW: i_uMarkDetectCount	o_dCompensationAmount :D	Compensation amount
		o_dCompensationStartPosition :D	Compensation starting point
Mark detection setting No.	UW: io_uMarkDetectSettingNo	io_uMarkDetectSettingNo :UW	Mark detection setting No.
Output axis setting	DUT: io_stOutputAxis	io_stOutputAxis :DUT	Output axis setting
Compensation control setting	DUT: io_stCompensationSetting	io_stCompensationSetting :DUT	Compensation control setting

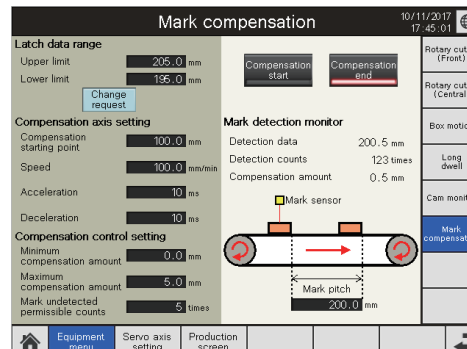
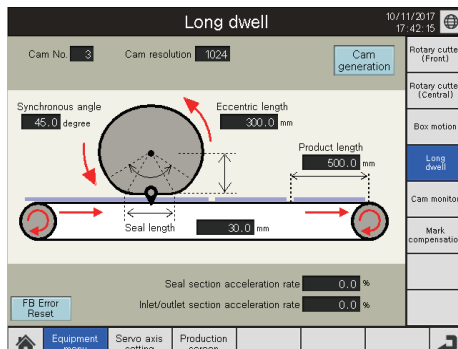
Smart Conveyor

PROGRAM EXAMPLES – Reusable and Scalable



Rotary cutter and long dwell program examples are available. These can also be easily converted to other application programs, such as flying shear and box motion.

SAMPLE GOT SCREENS – Intuitive and Practical



Axis setting, equipment design (cam profile, mark detection, etc.) and production management screens ensure quick and easy interaction between operators and machines.

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