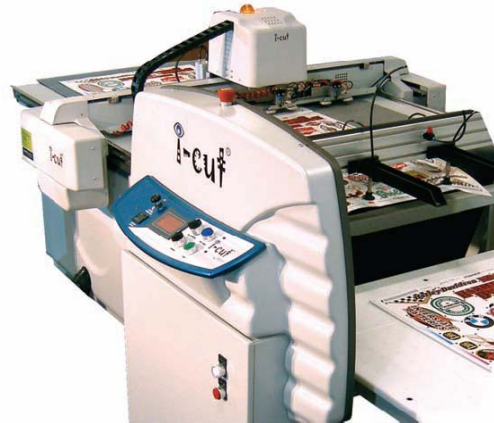


The i-cut Auto-Feeder

The i-cut[®] Auto-Feeder[™] automatically loads and delivers almost any printed graphic material to the conveyor system on the Kongsberg table; providing automatic sheet feeding onto the cutting bed.

The Auto-Feeder was developed specifically for the i-cut environment. It is fully integrated into the i-cut workflow and vision system, to provide a virtually unattended non-stop production operation. Sensors are utilized to provide key job status data to the system to assure proper operation. Due to this integration, the system is easy to set-up and requires minimal operator intervention as it runs.



This integrated system significantly increases productivity, allowing the most serious production needs to be accomplished with ease.

Unique features and benefits:

- ❑ Auto-loads practically all materials from thin paper, carton, vinyl, up to 25mm thick rigid boards
- ❑ Material sizes ranging from A4 up to 2.2m x 3.2m
(Note: for 3.2m board length a special version of the Additional Loading Table is required)
- ❑ Material weights from a few grams up to 45kg
- ❑ Automated loading & precision cutting of flexible sheets or boards longer than the cutting table
- ❑ With Level-Lift[™] attachment (optional), long & heavy boards are precisely loaded onto the table
- ❑ Rigid boards longer than the cutting table are accurately processed in sections
- ❑ Heavy-duty electrical servo motor drive system with feed-back loop
- ❑ Integrated loading and off-loading tables – multiple tables can be connected for loading extra long sheets
- ❑ Easy to place and adjust guides with air-assisted sheet separation
- ❑ Loading of single stacks or multiple stacks – max 3 stacks (2nd and 3rd guide sets are optional)

Specifications

Auto-Feeder model	i-SF-10	i-SF-20/24		i-SF-40
Matching i-XL/i-XE model:	i-XE10	i-XL20	i-XL24	i-XL44
i-XL/i-XE work area sizes:	800x1100mm	1270x1618mm ¹	3050x1618mm ¹	3050x2148mm ¹
Auto-Feeder dimensions (footprint) (WxL):	1520x1940mm	2550x1940mm	2550x1940mm	2770x1940mm
Auto-Feeder weight:	200kg	230kg	230kg	250kg
Dimensions of pick & place system (WxL):	1520x1940mm	2550x1940mm	2550x1940mm	2770x1370mm
Dimensions of in-feed table units ³ (WxL): (w/one in-feed and one out-feed table)	960x1570mm	1980x1570mm	1980x1570mm	2350x1570mm
Max material size (WxL): (w/ one loading table)	800x1400mm	1800x1400mm	1800x1400mm	2290x1400mm
Max material size (WxL): (w. two loading tables) ⁴	800x3000mm	1800x3000mm	1800x3000mm	2290x3000mm
Maximum material thickness:	2mm	25mm		
Maximum material weight/lifting capacity:		Up to 45 kg		
Maximum sheet loads/hour ² :		Up to 180 sheets per hour		

¹ Work area with MultiCUT

² Varies depending on complexity of job being cut, material type, and thickness.

³ One in-feed and one out-feed table are included with the i-cut Auto-Feeder[™].
Two tables can be connected together to create a double long in-feed table.

⁴ When material is longer than the cutting table i-cut will automatically advance and rejoin cut curves precisely before cutting proceeds.

Auto-Feeder options

- Additional Loading Table

The Additional Loading Table is required when board sizes larger than 1400mm are going to be loaded. By connecting two loading tables the machines can load boards with up to 3m length. On special request an Additional Loading Table permitting boards of length up to 3.2m can be delivered for the i-SF20/24 and i-SF40 models.

- Off-loading table

For items coming off the conveyor an Off-Loading Table is available as an option. The off-loading table can be equipped with Material Guides to hold items in place and can be tilted (see image) for better stacking capabilities.



- Additional Material Guide Kit

This optional kit is required if two parallel stacks should be picked up from the loading table. A maximum of three parallel stacks can be arranged for pick-up, then requiring two Additional Material Guide Kits

- Level-Lift System

The Level-Lift system is ensuring dependable pick-up and loading of large, rigid sheets onto the tabletop and solves the problem of scuffing the printed surface of the next sheet in line when loading heavy sheets.

The Level-Lift is based on a twin-driven roller that can move along the length of the load table. The roller is introduced underneath the sheet once it is picked up by the suction grippers, bringing the sheet to a horizontal level. The roller movement is synchronized with the conveyor advance, so the rear part of the sheet is securely supported and transported onto the conveyor load area.



Auto-Feeder utilities

Electrical Requirement:

220VAC, 1.5 Amps, 50/60 Hz, Single phase, or
110VAC, 3.0 Amps, 50/60 Hz, Single phase
(Please consult the Auto-Feeder Technical Manual for correct setup.)

Pressurized Air Requirement:

6-7 Bar, oil-free air
Consumption: 85 liters/minute @ 4.1 Bar setting

Esko price book items and part numbers

Part no.	Item	Contents / comments
331.000	Sheet feeder kit for i-XE10	Conveyor Pick & Place system, loading table and material guide kit
321.301	Off-loading table for i-XE10 sheet feeding configuration	
321.300	Addit. loading table for i-XE10 sheet feeding configuration	For loading rigid boards longer than 1400mm
333.000	Sheetfeeder kit for i-XL20/24	Conveyor Pick & place system, loading table and material guide kit
323.301	Off-loading table for i-XL20/24 sheetfeeding configuration	
323.300	Addit. loading table for i-XL20/24 sheetfeeding configuration	Required for loading sheets longer than 1.4m
334.000	Sheetfeeder kit for i-XL44	Conveyor Pick & place system, loading table and material guide kit
324.301	Off-loading table for i-XL44 sheetfeeding configuration	
324.300	Addit. loading table for i-XL44 sheetfeeding configuration	Required for loading sheets longer than 1.4m
321.410	Addit. material guide kit for sheet feeding configuration For i-XL/XE. Enables handling two material stacks simultaneously.	Incl. adjustable guides, air separators and positioning pins
321.400	Level-Lift kit for dependable loading of big sheets (i-SF20/24 & i-SF40)*	Twin-drive roller that lifts the sheet to be loaded to a horizontal level and supports long sheets while pulled onto the tabletop.

*) Please note that the Level-Lift option has been subject to a functionality upgrade and that its price has been increased since the initial introduction of the Auto-Feeder.