Tooling guide for
Kongsberg X cutting tables

ESKO✱

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FlexiHead

Sales code: 97AR5609

What is it used for?

The FlexiHead is widely used for folding carton, corrugated and most other paperboards. It combines highly accurate cutting with power and robustness even for the most complex and compact materials such as solid board and the full range of synthetic materials used for packaging and displays. It's also typically used for flexible materials.

The FlexiHead is the only head the features three tool positions for the full range of standard insert tools.

The maximum material thickness that can be cut is about 20mm (3/4 ") Using Foam Knife you can cut up to 30mm [11/4 inch] but this requires high traverse clearance.

Material

Folding carton, corrugated, plastic corrugated, solid board, fluted core board, flexible materials, corrugated plastic, flexographic clichés, thin foam.

Benefits

• Highly versatile
• High accuracy for fine details

Options

• *i*-camera 97AR5527 (Included in the Sign Production style kit)
• All standard Kongsberg X Series Insert Tools.

PowerHead

Sales code: 97AR5610

What is it used for?

The PowerHead offers the possibility to crease, V-notch and cut straight lines at high speeds with a variety of adapters. This ensures superior performance with heavy duty material such as double wall, triple wall and recycled board, plus the newest environmental boards.

It features 150mm (6 inch) diameter crease wheels with a scoring pressure equivalent to 50kg – 110lbs, which is 2½ times more than the down-pressure of the conventional tool stations. Sufficient to crease triple and double-wall corrugated with heavy liners. In addition it comes with two regular tool positions, which means that all standard insert tools can be used.

The large-size wheels also provide superior crease quality on recycled corrugated board, especially because a higher pressure can be applied without cracking the liner.

The HDU can offer V-notch cutting, with mitered corners and extremely precise folds for loading pallets, and container cushioning pieces, and paper core board displays.

Materials

All sorts of corrugated boards up to triple wall and including high recycled content, fluted core board, honeycomb, corrugated plastic, foam board.

Maximum material thickness 25mm (1 inch). Using Foam Knife you can cut up to 30mm [11/4 inch] but this requires high traverse clearance.

Benefits

- 50kg -110lbs down force
- Powerful head rotation
- Large variation of V-notch tools (angles)
- HD knife tools

Included

- Crease wheel, Ø150 4-point
- Crease wheel, Ø150 6-point
- Crease wheel, U-shape Ø150

Options

- *i*-camera 97AR5527 (Included in Sign Production style kit)
- V-notch tools, HD tools, Adapter for, 15mm crease, 26mm crease, 60mm Crease and Perforation wheels.
- All standard Kongsberg X Series Insert Tools.

MultiCUT-HP

Sales code: 97AR5611

What is it used for?

The MultiCUT-HP allows for milling, contour cutting, routing, drilling and engraving. It's suitable for high speed routing in a wide range of materials such as foamed PVS, solid PVC/PS, acrylic, aluminum composite Material (ACM), MDF, wood....

The 3kW milling spindle offers fast feed rates, thus considerably widening the bottleneck that routing jobs often present. The spindle features a 3kW of milling power and speeds up to 60,000 RPM. It is liquid cooled in order to utilize its full power potential. In addition it comes with two regular tool positions, which means that all standard insert tools can be used.

The MultiCUT-HP includes a software function to supervise and monitor the spindle current, which is useful to adjust the feed rate and RPM settings for new materials.

Material

Foamed PVC, solid PVC/PS, acrylic, aluminum composite Material (ACM), MDF, wood...

The maximum material thickness that can be milled is 25mm (1") Knife cutting is about 20mm. Using Foam Knife you can cut up to 30mm [11/4 inch] but this requires high traverse clearance.

Benefits

- High quality routing at high speed.
- High power, liquid cooled motor.
- Large range of specialized and balanced milling bits.
- Very fast milling bit exchange

Included

Milling starter kit for 6 mm shank:

- 1x Acrylic 3 mm, single flute, 3 mm tip, 11 mm flute length
- 1x Acrylic, single flute, 5 mm tip, 22 mm flute length
- 1x Multi-purpose, 3 mm tip, 11 mm flute length
- 1x Multi-purpose, 5 mm tip, 22 mm flute length
- Felt Milling underlays: approx. 3mm thick
- X-Pad

Options

- i-camera 97AR5527 (Included in the Sign Production style kit)
- (97AR5661) LubriCool Misting Option – see separate chapter.
- Optional collet shank sizes: 3mm, see the Bits and Blades Catalogue.
- Non slip routing underlay – See online shop

LubriCool Misting Option for MultiCUT-HP

Sales code: 97AR5661

What is it used for?

LubriCool is an option for the MultiCUT-HP. It cools the milling bit and lubricates the routing process. Resulting in significantly higher productivity and an extended life length of the milling bits for materials such as Aluminum composite Material (ACM) and some aluminum alloys.

The system is set up with a reservoir with special "oil" that is converted into a mist with help of compressed air and a mixing zone.

The mist is sprayed directly on the router bit via three nozzles during operation, only a small drop off oil every 10 seconds is needed (factory preset). This small amount ensures no trace on samples and low consumption.

The system can be turned off when routing materials where misting is not beneficial.

Benefits

- Higher productivity (run faster with less passes)
- Smoother routing surface, less after work
- Extended life length of router bits

Materials

Aluminum composite Material (ACM), aluminum

Included

Routing liquid.
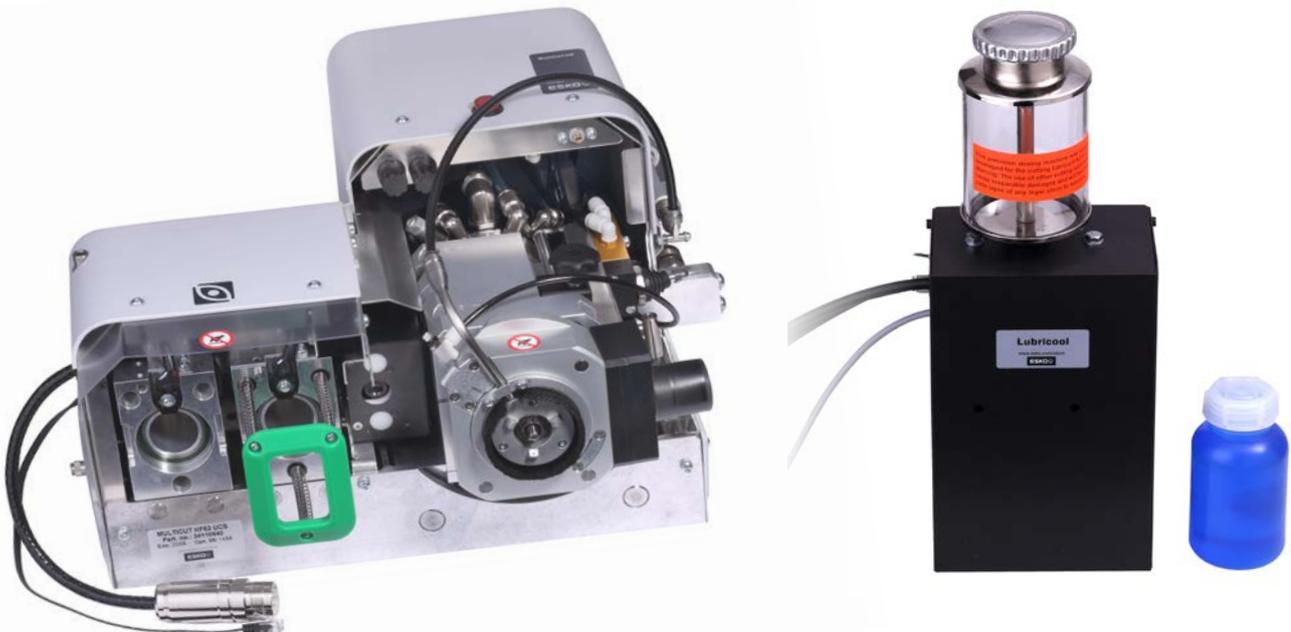
MultiCUT for Kongsberg X Starter

What is it used for?

The MultiCUT for Kongsberg X Starter allows for entry level milling, contour cutting, routing, drilling and engraving. It's suitable for routing in a wide range of materials such as foamed PVC, solid PVC/PS, acrylic, aluminum composite Material (ACM), MDF, wood...

The spindle features a 1kW of milling power and speeds up to 45,000 RPM. The MultiCUT features an air-cooling feature for the milling bit important for the edge quality when milling acrylic and other synthetic materials. In addition it comes with two regular tool positions, which means that all standard insert tools can be used.

The MultiCUT-HP includes a software function to supervise and monitor the spindle current, which is useful to adjust the feed rate and RPM settings for new materials.

Material

Foamed PVC, solid PVC/PS, acrylic, aluminum composite Material (ACM), MDF, wood...

The maximum material thickness that can be milled is 25mm (1").

Benefits

• High quality routing at high speed.
• Large range of specialized and balanced milling bits.
• Very fast milling bit exchange

Included

• Milling starter kit for 6 mm shank:
• 1x Acrylic 3 mm, single flute, 3 mm tip, 11 mm flute length
• 1x Acrylic, single flute, 5 mm tip, 22 mm flute length
• 1x Mult*i*-purpose, 3 mm tip, 11 mm flute length
• 1x Mult*i*-purpose, 5 mm tip, 22 mm flute length
• Felt milling underlays: approx. 3mm thick
• *i*-camera

Options

• X-pad
• Optional collet shank sizes: 3mm, see the Bits and Blades Catalogue.
• Non slip routing underlay – See online shop

FoamHead

Sales code: 97AR5612

What is it used for?

The Foam Head is a heavy duty tool made for cutting a large range of foam materials up to 86mm (3 3/8") thickness. These types of foam are typically used in the protective packaging industry.

The FoamHead is a reciprocating knife designed with characteristics optimal for low density porous material. It runs at a frequency of 4800 strokes per minute and at amplitude of 4 mm. The great Z-axis control gives an advantage when cutting foam because it ensures consistent partial cut, which is very important with many foam designs.

Support wheels safeguard the user from the sharp blades and improve cutting abilities by applying pressure on top of the foam material.

Foam materials can normally be converted at a speed up to about 15m/min with this tool depending on material quality.

A wide range of blades also makes it suitable for honeycomb and fluted core board.

FoamHead requires a high traverse clearance.

Material

- Polyethylene foam, expanded Polystyrene, fluted core board, paper honeycomb board.
- Please note that some foam materials have a tendency to melt and stick to the knife, also materials with open cells would require additional hold down.

Benefits

- Perfect for cutting a wide range of foam materials at high speed
- Large range of specially designed blades for material versatility
- Support wheels to hold the material down

Included

There are three adapters for round blades included, for up to 32mm material thickness, for up to 55mm material thickness and for up to 80mm material thickness.

The adapters accept the SR63xx, SR65xx, SR68xx style blades. Two blades of each type are also included.

Options

- Adapter for flat 40mm blades: 34014845
- Adapter for flat 60mm blades: 34014803
- Adapter for flat 86mm blades: 34002659
- See the Bits and Blades Catalogue for more information.

Oscillating Knife Tools

Standard Reciprocating Knife Tool

Sales code: 97AR5598

What is it used for?

This tool is suitable for single and double-wall corrugated board and other light-duty fibrous materials, such as corrugated board, soft foam board and corrugated plastic.

It runs at a frequency of 6000 Strokes per minute and with amplitude of 0.3 mm.

These properties, along with a powerful motor, enable cutting at full table speed with good quality materials.

A floating foot is used to reduce material tear and to keep the material down.

The cup is made of synthetic material to avoid scratching of printed surfaces.

Maximum cutting thickness: 20mm - 3/8"-¾" depending on blade.

Different knife adapters allow for different knife types. Maximum cutting thickness is 10-20mm - 3/8"-¾" depending on blade.

Material

Corrugated single wall, corrugated double wall, micro flute, soft foam board, corrugated plastic.

Benefits

• High Speed (full machine speed when using good quality board)
• Cuts a wide range of porous materials
• Large range of high quality long life knife blades.

Included

• Adapter for SFXX blades including 5x BLD-SF186 and 5x BLD-SF125
• Adapter for SR6xxx blades includes 3 x BLDSR-6223 and 3 x SR-BLD6224 knife blades.

Options

Works with a wide range of blades, see the Bits and Blades Catalogue.

Multi Purpose High Frequency (MP-HF) Knife Tool

Sales code: 97AR5602

What is it used for?

The MP-HF Knife Tool is a high-frequency reciprocating knife tool for cutting a lot of different materials, such as corrugated board with high-recycled content, soft foam board, corrugated plastic and fluted core board.

It runs at a frequency of 12000 strokes per minute and amplitude of 1.2 mm, which requires a reduced cutting speed compared to the standard Reciprocating Knife Tools.

These properties, along with a powerful motor, enable cutting of heavily recycled board at efficient speed.

A floating foot is used to reduce material tear and to keep the material down.

Material

Corrugated material with high recycled content, fluted core board, Honeycomb board, soft foam board, corrugated plastic, high density foam…

Maximum cutting thickness is 20mm – 3/4"

Benefits

- Mult*i*-purpose reciprocating knife tool for heavy duty board.
- Good performance with high recycled content board.
- Large range of knife blades.

Included

- Adapter for round SR6xxx blades, incl 3x BLD-SR6223, 3x BLD-SR6224, 3x BLD-SR6310 and 3x BLD-SR6303 knife blades
- Gliding foot for 20mm – 3/4" material cutting thickness.

Options

- (97AR505) Gasket package for MP HF Knife tool; The special SF3xx knife adapter and 4 x SF312 and 4 x SF313 knife blades for cutting in tough gasket materials
- Works with a wide range of blades, see the Bits and Blades Catalogue.

Long Stroke Knife Tool

Sales code: 97AR5600

What is it used for?

This is a special variant of the reciprocating knife tool. The characteristic of this tool gives it excellent performance in materials like die ejection rubber, which makes it a perfect match for customers that like to take full advantage of the rubbering module in ArtiosCAD.

It runs at a frequency of 4800 Strokes per minute and amplitude of 8 mm.

A floating foot is used to keep the material down.

Material

- Die ejection rubber
- Maximum cutting thickness is 20mm – 3/4" (about 10mm with the foot mounted)

Benefits

Good performance on die ejection rubber.

Included

- Adapter for cylindrical blades (SR6xxx series). Included 3x BLD-SR6375 knife blades
- Gliding foot for 20mm – 3/4" material cutting thickness.

Options

Works with a wide range of blades, see the Bits and Blades Catalogue.

Foam Knife Tool

Sales code: 97AR5599

What is it used for?

The Foam Knife is a reciprocating knife tool for cutting a lot of different foam materials up to about 30mm [11/4"]. These types of foam are typically used in the protective packaging industry.

It runs at a frequency of 4800 strokes per minute and amplitude of 4 mm [.157"], which requires a reduced cutting speed compared to the other Reciprocating Knife Tools. Foam materials can normally be converted at a speed up to about 15m/min with this tool depending on material quality.

The great Z-axis control gives an advantage when cutting foam because it ensures consistent partial cut, which is very important with many foam designs.

A floating foot is used to keep the material down.

Please note

This tool requires high traverse clearance; it is not available for the Kongsberg X Starter.

Material

- Polyethylene foam, expanded polystyrene, fluted core board, paper honeycomb board.
- Please note that some foam materials have a tendency to melt and stick to the knife, also materials with open cells would require additional hold down.

Benefits

- Perfect for cutting a wide range of foam materials at high speed
- Large range of specially designed blades for material versatility

Included

- Adapters for the SR63xx, including 5x SR6311
- Adapter for the SF5xx blades, including 3x SF503
- Gliding foot

Options

Works with a wide range of blades, see the Bits and Blades Catalogue.

Rotary Cutting Tools

RotaCut Tool

Sales code: 97AR5603

What is it used for?

The RotaCut Tool is specifically developed for cutting textiles, canvas, mesh and other air transparent materials.

Since most textiles are more or less air transparent the vacuum hold-down system of the table will not be effective when cutting such materials. The RotaCut Tool has been designed with this in mind.

It operates by rotating a 10-facetted knife blade at 10 000 RPM. The blade protrudes from a slot in a hold-down foot that presses down on the material. The foot is made from a material that reduces friction to a minimum, and these properties, in connection with the fibrous surface of the conveyor belt, or felt mats; provide a hold-down sufficient for cutting most textile materials.

Maximum cutting depth is 2 mm / 0.07 inch.

Material

Textile, banner, canvas, mesh, carpet

Benefits

• Floating foot for material hold
• High speed 10-facetted knife blade
• Software controlled overcut function

Included

5x RC110 decagonal knife blades and tools for blade change.

Options

Applicable knife blades RC10 decagonal knife blade.

Static Knife Tools
CorruSpeed Tool
Sales code: 97AR5689

What is it used for?
The CorruSpeed Tool is developed for cutting corrugated board at high speeds without oscillating. The CorruSpeed Tool achieves significant time savings on many corrugated boards, even with recycled content.

The CorruSpeed operates with a crushing cup, which in combination with controlled down pressure makes it possible to use a drag knife without tearing or cracking the liner.

Setting up the tool for different board qualities is easily done with help from adjustment wheels / knob.

The tool also comes with two edge crushing cups, radius 16 and 14,5 where the 14,5 gives more pre-crush.

Which cup to use will depend on the thickness and quality of the corrugated board. The feet are easy to change; they are guided by pins and magnets and snap in place easily.

The CorruSpeed Tool is designed to work with corrugated board up to double wall BC flutes (7mm).

Benefits
- High productivity (in many cases the full machine speed: 50 m/min)
- Silent, the only noise you hear is the machine movement.
- Smooth cut, the tools doesn't oscillate, so that means no tagged edge
- Pre crushed lines: cutting lines are more similar to a die cut

Please note
For corrugated board with extremely short fibers and high recycled content, you might still need the properties of high frequency knife tools.

Included
- 2x crushing cups, with radius 16 and 14,5
- 8 standard knife blades: 2x BLD-SR8170, 2x BLD-SR8172 2, BLD-DR8160 and 2x BLDDR8180

Options
Works with the SR/DR 8XXX blades, see the Bits and Blades Catalogue.

Rigid Material Knife tool

Sales code: 97AR5010

What is it used for?

The Rigid Material Knife Tool is a static knife tool suitable for a wide range of materials at high speed. There is a large selection of knife blades available that makes it possible to cut everything from light weight detailed work to heavy rigid board like plastic foamed PVC 3mm.

The maximum cutting depth is defined by the blades; maximum thickness is 13 mm / ½ inch.

Material

Flexible plastic sheets, foamed PVC up to 3mm, triple wall corrugated, soft foam board, corrugated plastic, cardboard, display board, vinyl, PVC banner.

Benefits

- A flexible all around knife tool, used for a wide range of applications
- Rigid board cutting at high speed
- High quality specially developed blades

Included

2 x BLD-DR8160, 2 x BLD-DR8180, 2x BLD-SR8170, 2x BLD-SR8172

Options

- Works with all Kongsberg knife blades in the BLD-SR/DR8xxx series, including asymmetric blades for burr-free edges.
- Crease blades

Psaligraphy Knife Tool

Sales code: 97AR5521

What is it used for?

The Psaligraphy Knife Tool is specifically developed for fine details in thin materials like paper and folding carton. This is archived by a spring loaded floating plastic foot in combination with special designed knife blades.

This tool is typically used for applications like greeting cards, invitation cards, promotional items, folding carton samples and psaligraphy art.

Material

Fine detailed paper cut, folding carton.

Benefits

- Cuts out intricate details without lifting, moving or tearing the material.
- High quality specially designed knife blades with long life.
- User friendly plastic foot that snaps in place guided by pins and magnets

Included

2x BLD-SR6150 and 2x BLD-SR6151 round shaft cutting blades.

Options

Works well with all Kongsberg knife blades in the BLD-SR/DR61xx series including asymmetric blades for burr-free edges.

Static Knife Tool General Purpose

Sales code: 97AR623

What is it used for?

The Static Knife General Purpose is a general purpose knife tool, suitable for a wide range of materials; it is typically used for flexible, paper based and rigid materials with thickness larger than 1mm.

Material

Flexible plastic sheets, cardboard, display board, vinyl, and PVC banner.

The maximum cutting depth is defined by the blades; with standard maximum thickness is 3mm / 1/8 inch.

Benefits

A flexible all around knife tool, used for a wide range of applications.

Included

5 x BLD-SF177, 5 x BLD-SF224, 3x BLD-SF238

Static Knife Tool Single Edge

Sales code: 97AR833

What is it used for?

The Static Knife Single Edge is suitable for thin soft flexible materials like paper, folding carton, vinyl...

Material

- Flexible plastic sheets, Folding Carton, paper, vinyl
- The maximum cutting depth is 3mm.

Benefits

- A flexible all around knife tool, for thin materials.
- Thin long lasting blades

Included

4 x BLD-SF216, 4 x BLD-SF217

RBI90-16

Sales code: 97AR5407

What is it used for?

RBI90-16 is made for high-speed straight cutting in rigid boards like fluted core board (Re-board, Falcon board, X-board), honeycomb board and triple wall corrugated.

One can get an extremely efficient production set up with the FlexiHead/PowerHead by using the RBI90-16 tool for high speed cutting of straight lines, the MP HF Knife tool for cutting the curves and V-notch tools for cutting folding lines.

Material

- Fluted core board, honeycomb board and triple wall corrugated.
- Maximum cutting thickness for RBI90-16 is up to 16mm.

Benefits

- High-speed cutting of rigid boards
- Perfect combination for v-notch application
- Specially designed high quality blades

Included

2x BLD-SF290 a special designed knife blade.

Options

Works well with a range of Kongsberg single flat knife blades, see the Bits and Blades Catalogue.

V-Notch Insert Tools
VI45-16
Sales code: 97AR5313

What is it used for?

For 45° V-notch cutting in triple wall corrugated, corrugated plastic and fluted core board. Its application is to make a 90° partially cut V-notch for folding functionality or a through-cut leaving a slanted cutting edge.

This tool is an insert tool which enables V-notch cutting with the MultiCUT, PowerHead and FlexiHead tool heads. When used in combination with a HD Knife tool or RBI one will have a highly efficient fluted core board converter.

Limited to straight lines only.

Material

Fluted Core board, honeycomb board, soft foam board and triple wall corrugated.

Cutting depth is 16mm - .590".

Please note that this tool is optimized for 16 mm thick board. If used in thinner materials, reduced cutting quality (wavy lines) can occur. If used for very thin or very rigid materials the blade holder can loosen and fall off.

Benefits

• Perfect 45˚ slanted folding lines in 16 mm Material
• Specially designed high quality knife blades.

Included

• 1x BLD-DF571 1x BLD-DF572
• Safety foot for safe mounting

Options

BLD-DF570

KissCutting Knife Tools

MicroCut Tool

Sales code: 97AR626

What is it used for?

The MicroCut Tool has been designed for applications where very fine depth tolerances are needed, such as varnish blankets and half-cuts in the thinnest folding cartons and adhesive vinyl.

The tool foot rides the surface of the material and features a digital micrometer for high precision control of the cutting depth, with display settings for mm or inches. Which ensures a perfect cutting depth measured from the material surface.

Material

Varnish blankets, folding carton and vinyl.

Benefits

• Perfect and consistent cutting depth for partial cuts.
• Micrometer precision
• Ensures perfect result for varnish blankets without touching the back liner.

Included

5 x BLD-SF110, 5 x BLD-SF177

Options

(97AR948) Alternative material foot for varnish blankets to overcome high friction on some kinds of varnish blanket.

KissCutting Knife Tool

Sales code: 97AR789

What is it used for?

The KissCutting Knife Tool is a specialty tool for kiss cutting adhesive vinyl (decals) and foils. It's used for applications where it is important to keep the backing intact and only cut through the top film.

Due to the characteristics of the material, a spring loaded pressure is required in order to achieve perfect peal/weed quality. The pressure is manual set with a scale indicated turn key.

Material

Adhesive vinyl (decals), foil, diamond grade foil

Benefits

• Perfect weeding/pealing quality
• Only the knife blade touches the material; i.e. no scratching of shiny or printed surfaces

Included

• incl. 3x KC101 and 3x KC102 knife blades
• A foot for accurate depth control when more pressure is required.
• Two different pressure springs

Options

Kongsberg knife blades in the BLD-KCxx series.

Bevelknife Tool for Flexo Plates and Solid Board

Sales code: 97AR475 / 97AR5314

What is it used for?

The BevelKnife tool is suitable for a 45˚ slanted cut for v-notching or single through cutting. There are two BevelKnife tool kits available, for two different applications.

The first kit enables high performance cutting of beveled edges in flexographic clichés using the special developed knife blade BLD-SF212.

The second kit is developed for V-notching of folding lines in solid board (grey board) material using the special developed knife blade BLD-SF245.

The purpose is to create an exact, sharp 90˚ fold in materials that cannot be folded with conventional crease tooling.

Material

Flexographic clichés, Solid board and display board

The maximum cutting depth is 6-7 mm

Benefits

- Perfect 45˚ slanted folding lines in thin materials
- Perfect beveled edges in flexographic clichés

Included

- (97AR475) includes 2 x BLD-SF212
- (97AR5314) includes 5 x BLD-SF245

Crease Tools

Crease Tool 15mm

Sales code: 97AR6029

What is it used for?
The Crease Tool 15mm is suitable for thin material qualities. It enables applications that demand a very small and distinct crease line, mainly in materials such as folding carton and paper.

Benefits
- Fits in all tool head insert positions
- Gives a distinct crease line in thin material

Material
Paper and folding carton

Included
2 point, 3 point and double edge 1mm spacing crease wheels

Options
A wide range of crease 15mm wheels with different pointage.
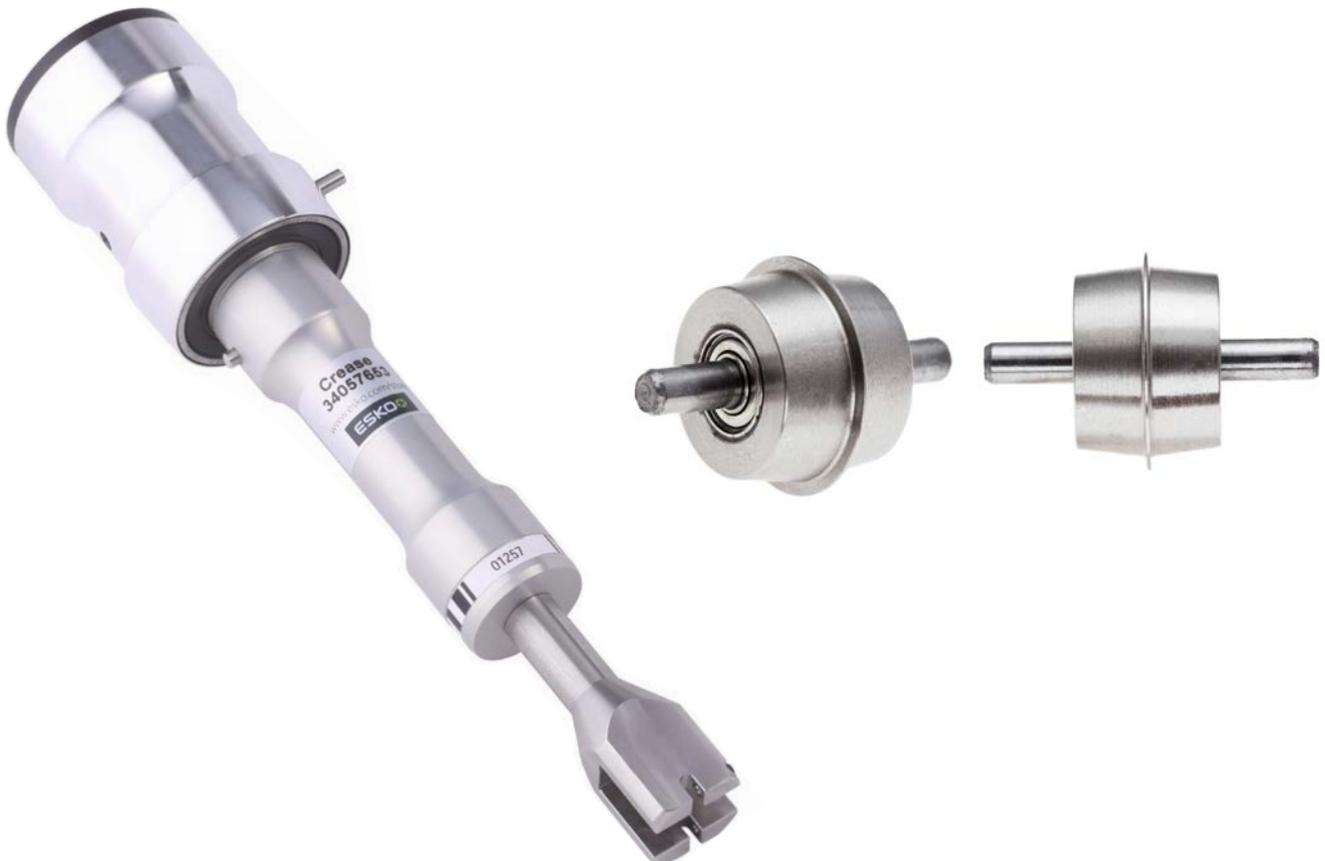
Crease Tool 26mm

Sales code: 97AR6028

What is it used for?

The Crease Tool 26mm enables applications that demand a small sized creasing wheel on materials such as single wall corrugated, micro flute, corrugated plastic and folding carton.

Benefits

- Fits in all tool head insert positions
- Gives a distinct crease line

Material

Micro flute and single wall corrugated, corrugated plastic, folding carton.

Included

4point, 6 point and 10 point crease wheels

Options

A wide range of crease 26 mm wheels with different pointage.
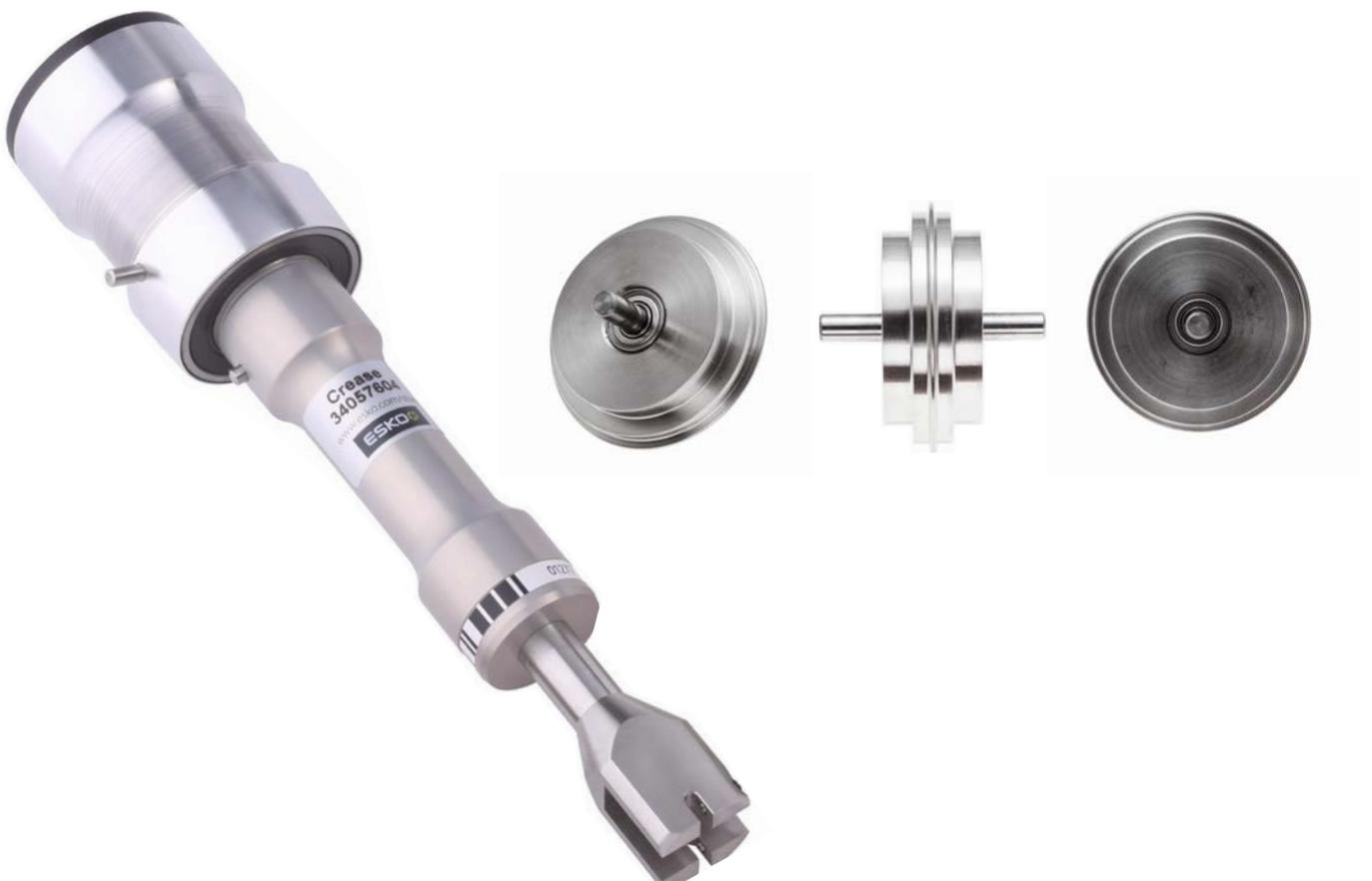
Crease Tool 60mm

Sales code: 97AR5408

What is it used for?

The 60mm Crease Wheel offers the possibility to crease most corrugated thicknesses.

The medium-size wheels also allow for creasing with a higher pressure without cracking the liner, and with a limited over-crease.

It gives a sharper result to the 150mm crease and at the same time allows harder pressure than the smaller wheel diameters.

The optional 60mm Perforation Wheel pack offers the possibility to produce tear perforations at high speeds for corrugated board up to C flute (4mm).

Benefits

- Medium crease overcut
- Fits in all tool head insert positions

Material

Corrugated single wall, corrugated double wall, Micro flute

Included

- a 4-point wheel suitable for E- and Micro Flutes
- a 6-point wheel suitable for B- and C-flute
- U-shaped wheel for double wall corrugated

Options

(97AR5517) 60mm Perforation Wheel pack- For high speed perforation

Includes Perforation Wheel holder and four standard perforation patterns , 3x3mm, 5x5mm, 7x5mm, 10x10mm. Maximum cutting thickness…

Please note; there is no software control on the wheel rotation, it is not possible to control how the perferation line starts, i.e. with a cut or with a space.

Plotting Tools
Ballpoint Pen Tool

What is it used for?
The Ballpoint Pen Tool is used for pen drawing, plotting and sample marking on materials such as folding carton, paper, cardboard and other paper based materials.

Included
2x pen refills; black, medium line weight.

Options
Refill pen, see Bits and Blades Catalogue.

Liquid Ink Tool

Sales code: 97AR067

What is it used for?

The Liquid Ink Tool has been designed to meet high demands in line quality on Mylar foils, producing lines with uniform width, optimal resolution and superior contrast.

It uses the KOH-I-NOOR Rapidograph / Rapidoplot cartridges. The disposable cartridges are available in the following line weight: 0.35mm - .014"

Included

- One disposable ink cartridge.
- Cap to prevent the pen tip insert from drying when not in continuous use.

Fiber Tip Pen Tool

Sales code: 97AR639

What is it used for?

The Fiber Tip Tool option provides drawing capabilities on materials such as clear vinyl, which normally cannot be marked with ballpoint or liquid ink pens.

Included

8 multi-colored pen refills; medium line weight.

Options

Refill pen medium and thin line weight; see the Bits and Blades Catalogue.

Heavy Duty and V-notch Tools for PowerHead
HD Knife 17
Sales code: 97AR379

What is it used for?
Heavy-duty knife tool for PowerHead is used for rigid board such as fluted core board, display board and triple wall material for fast straight cutting. Maximum cutting thickness is 17mm. Limited to straight lines longer than 50mm (2").

Material
Fluted core board, triple wall, Honeycomb board.

Benefits
• Frees up one tool position
• Straight rigid panel cutting at high speeds.

Included
5x BLD-TZ129

HD Knife 30

What is it used for?

Heavy-duty knife tool used for fast straight cutting of rigid board such as fluted core board and honeycomb board material. The maximum cutting thickness is 30mm. Limited to straight lines longer than 50mm (1 1/4").

Material

Fluted core board, triple wall, Honeycomb board

Benefits

• Frees up one tool position
• Straight rigid panel cutting at high speeds.

Included

2x BLD-TZ230, a specially designed Tungsten Carbide knife blade.

V-notch Knife 45°

Sales code: 97AR620

What is it used for?

For 45° V-notch cutting in triple wall corrugated, corrugated plastic and fluted core board. Its application is to make a 90° partially cut V-notch for folding functionality or a through-cut leaving a slanted cutting edge.

Maximum cutting depth is 16mm - .590". Limited to straight lines only.

Material

Fluted core board, honeycomb board, Soft foam board and triple wall corrugated.

Benefits

• Perfect 45˚ slanted folding lines up to 16 mm material
• Specially designed high quality knife blades.

Included

2x BLD-TZ511 5x BLD-TZ192

V-notch Knife 45° 10mm

Sales code: 97AR274

What is it used for?

For 45° V-notch cutting for tougher materials like corrugated plastic.

Its application is to make a 90° partially cut V-notch for folding functionality or a through-cut leaving a slanted cutting edge.

The maximum cutting depth is 10mm – 3/8". This will provide a more accurate cut in thinner material due to the shorter free end of the blade which gives less flex.

Max. cutting depth is 10mm - 3/8". Limited to straight lines only.

Material

Fluted core board, honeycomb board, Soft foam board and triple wall corrugated.

Benefits

- Perfect 45˚ slanted folding lines up to 10 mm material
- Specially designed high quality knife blades.

Included

2x BLD-TZ511 5x BLD-TZ192

V-notch Knife 30°

Sales code: 97AR983

What is it used for?

For 30° V-notch cutting in triple wall corrugated, corrugated plastic and fluted core board. Its application is to make a 60° partially cut V-notch for folding functionality, such as 6-edge polygonal pillars or a through-cut leaving a slanted cutting edge.

The maximum cutting depth is 16 mm - 5/8" Limited to straight lines only.

Material

Fluted Core board, honeycomb board, Soft FoamBoard and triple wall corrugated.

Benefits

• Perfect 30˚ slanted folding lines up to 16 mm Material
• Specially designed high quality knife blades.

Included

2x BLD-TZ511 5x BLD-TZ192

V-notch Knife 22.5°

Sales code 97A5763

What is it used for?

For 22.5° V-notch cutting in triple wall corrugated, corrugated plastic and fluted core board.

Its application is to make a 45° partially cut V-notch for folding functionality, for products such as octagonal pillars, or a through-cut leaving a slanted cutting edge.

The maximum cutting depth is 16 mm - 5/8". Limited to straight lines only.

Please note

This tool can only be used on Kongsberg cutting tables with iPC2.0 or higher.

Material

Fluted core board, honeycomb board, soft foam board and triple wall corrugated.

Benefits

- Perfect 22,5˚ slanted folding lines up to 16 mm Material
- Specially designed high quality knife blades.

Included

2x BLD-TZ511 5x BLD-TZ192
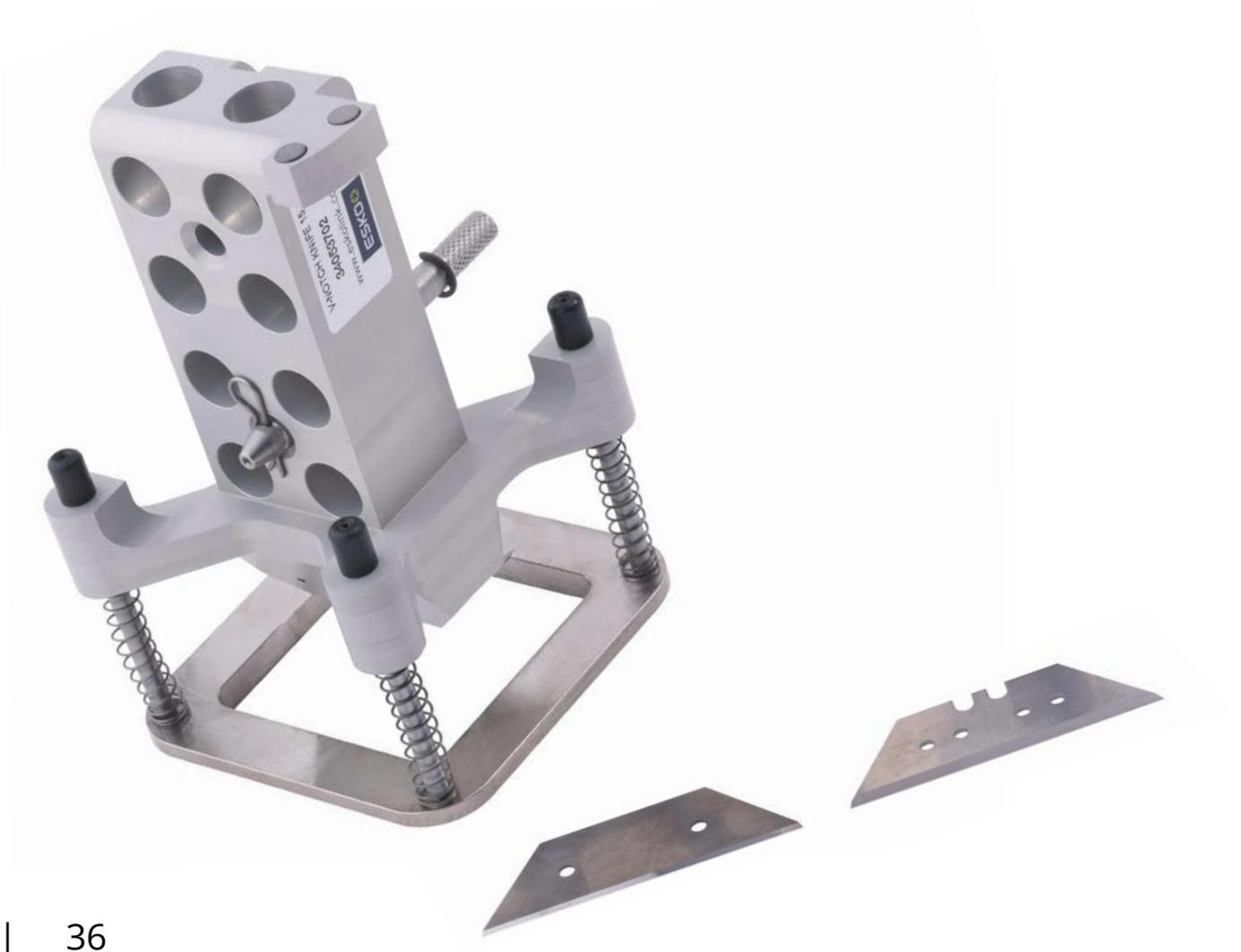
V-notch Knife 15°

Sales code 97AR982

What is it used for?

For 15° V-notch cutting in triple wall corrugated, corrugated plastic and fluted core board. Its application is to make a 30° partially cut V-notch for folding functionality, such as 12-edge polygonal pillars or a through-cut leaving a slanted cutting edge.

Max. cutting depth is 16 mm - 5/8". Limited to straight lines only.

Material

Fluted Core board, honeycomb board, soft foam board and triple wall corrugated.

Benefits

- Perfect 15˚ slanted folding lines up to 16 mm Material
- Specially designed high quality knife blades.

Included

2x BLD-TZ511 5x BLD-TZ192

Crease Wheel Adapter for 15mm wheels

Sales code: 97AR101

What is it used for?

An adapter for crease wheels with diameter 15mm is available as an optional crease tool for the PowerHead HD position. This adapter is mainly used on thin materials such as folding carton and paper.

Benefits

- Frees up one tool position
- Use the 15mm crease wheel in combination with high down force
- Creasing in thin materials

Material

Paper and folding carton

Included

Adapter only

Options

All 15mm crease wheels
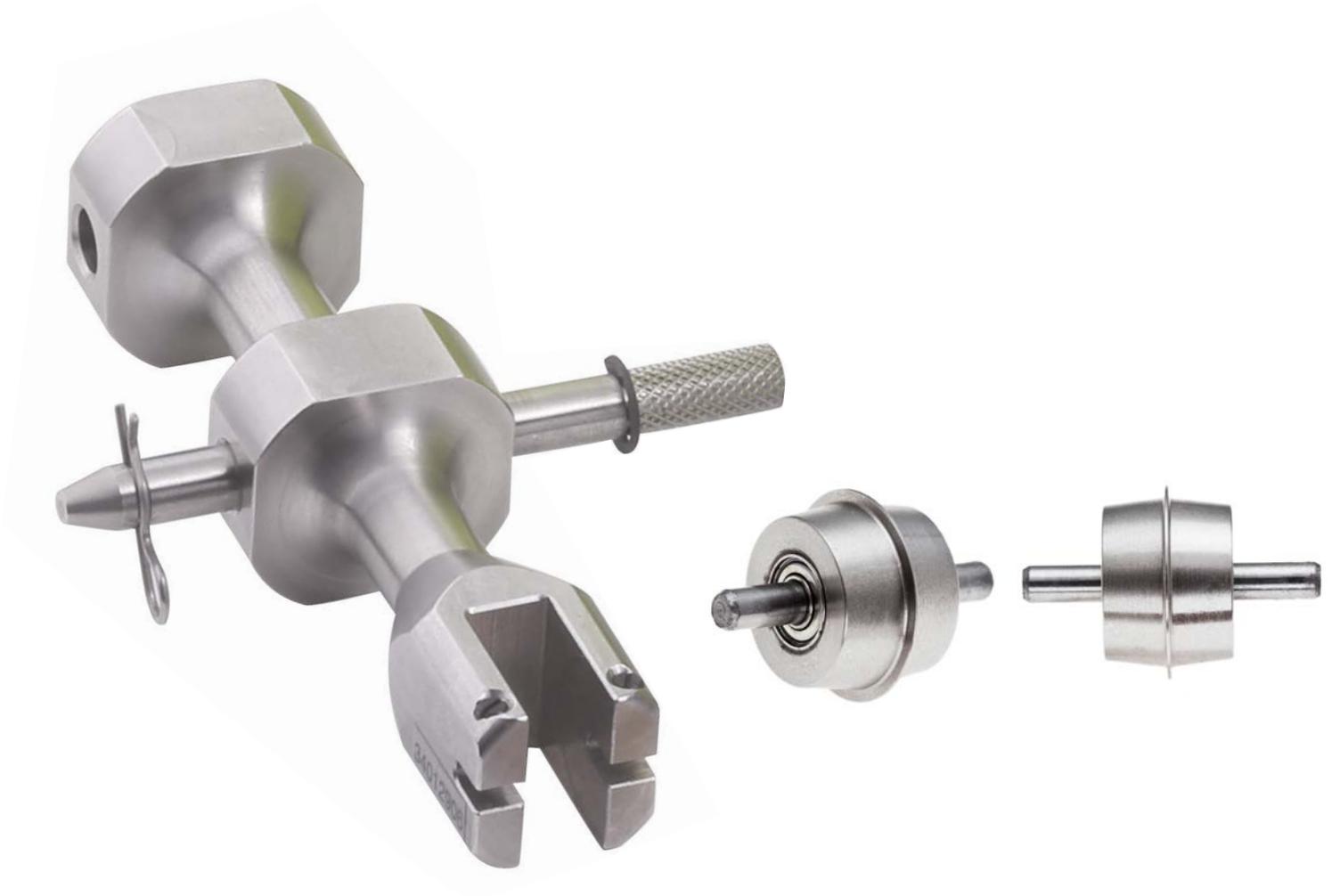
Crease Wheel Adapter for 26mm wheels

Sales code: 97AR100

What is it used for?

An adapter for crease wheels with diameter 26mm is available as an optional crease tool for the PowerHead HD position. This adapter is enables the use of a smaller sized wheel for micro flutes, folding carton and plastic corrugated. The smaller wheels and the heavy crease power have a good effect on defeating the 'memory' of the plastic material.

Benefits

- Frees up one tool position
- Use 26mm crease wheel in combination with high down force
- Creasing in tough plastic materials

Material

Corrugated single wall, micro well, corrugated plastic, folding carton

Included

Adapter only

Options

All 26mm crease wheels

Crease Wheel Adapter for 60mm wheels

Sales code: 97AR5588

What is it used for?

The 60mm Crease Wheel adapter offers the possibility to crease most corrugated thicknesses.

The medium-size wheels also allow for creasing with a higher pressure without cracking the liner, and with a limited over-crease.

It gives a sharper result to the 150mm crease and at the same time allows harder pressure than the smaller wheel diameters.

The optional 60mm Perforation Wheel pack offers the possibility to produce tear perforations at high speeds for corrugated board up to C flute (4mm).

Benefits

- Enables high speed perforation wheel cutting
- Enables High pressure, medium crease overcut

Material

Corrugated single wall, corrugated double wall, micro flute

Included

Adapter only

Options

(97AR5517) 60mm Perforation Wheel pack-For high speed perforation

Includes Perforation Wheel holder and four standard perforation patterns , 3x3mm, 5x5mm, 7x5mm, 10x10mm.

Please note: there is no software control on the wheel rotation, it is not possible to control how the peroration line starts, i.e. with a cut or with a space.

- a 4-point wheel suitable for E- and Micro Flutes
- a 6-point wheel suitable for B- and C-flute
- U-shaped wheel for Double Wall Corrugated

Crease Blade Adapter

Sales code: 97AR5307

What is it used for?

Crease blades are typically used for creasing flexible plastic sheets such as polypropylene.

With this type of material a blunt blade will give better folding capabilities than what can be achieved with a crease wheel.

The adapter also accepts BLD-DF2xx blades, typically used together with the PressCut tool.

Benefits

Creasing in tough flexible materials

Material

Flexible plastic sheets, polypropylene

Included

• Crease blades adapter
• 0.5mm crease blade
• 1.0mm crease blade.

Options

BLD-DF212 and BLD-DF213 knife blades, for through-cutting of simple shapes.

Braille Tool

Sales code: 97AR5396

What is it used for?

The Braille Tool enables the application of raised dots used in Braille, the tactile writing system people that are blind or visually impaired. Various government regulations make this tool necessary throughout the world.

The Braille tool inserts spheres into pre-drilled holes in rigid materials. The drilling requires the MultiCUT tool head and a special purpose milling bit. The Braille Tool is mounted as any other tool insert, into one of the free tool positions in the MultiCUT tool head.

The Braille spheres are inserted into small holes by a spring load in the tool. The tool is supplied with a plunger that has two purposes. First to force the spheres into the internal funnel, secondly to indicate the number of spheres remaining in the tool.

Material

Rigid materials like foamed PVC, PS, acrylic, ACM...

Benefits

Enable Braille signage

Included

The Braille tool comes as part of a kit, also :

- Including two milling bits
- 10.000 clear acrylic spheres
- Various hand tools, samples and documentation on how to make Braille signs

Options

Range of different spheres.

Drill Tool

Sales code: 97AR449

What is it used for?

The drill tool is aimed at light-duty drilling in materials such as fluted core board, Honeycomb, soft foam board and triple wall corrugated. Typically, a hole is drilled for the purpose of using special screws to attach shelves or other details in connection with displays, or as a way to close or join panels in heavy-duty shipping containers.

The drilling function is provided by the head rotation control, which spins the tool at about 1,000 RPM.

Material

Fluted core board, honeycomb, soft foam board and triple wall corrugated.

Please note

The Drill Tool has been developed for relatively light-weight, paper-based materials and will not work with solid materials such as wood, plywood, MDF, foamed PVC (Forex/Sintra), acrylics...

Included

Including two spanners for bit exchange, thirteen different bit collets for bit diameters ranging from 1.0 to 7.0mm, with 0.5mm increments.

2x 3mm and 2x 4mm drill bits are included.

Flexo Drill for Corrugated Flexo Plates

Sales code: 97AR5068

What is it used for?

The tool insert consists of an electric drill -which fits in the FlexiHead- and a special drill bit (1/4" or 6.35mm diameter). Drill power is supplied through the connector for reciprocating tools on the tool head.

The drilling tool is provided with an internal motor, which spins the tool up to 1,000 RPM.

Benefits (additional to PlatePrep):

• Debris container inside the drill bit for longer operation
• Tungsten carbide drill bit provides long lifetime

The adjustable chuck accepts drill bits ranging from 0.5 – 6.5mm, or 1/64" – ¼".

Material

Flexo plates with thickness up to 7mm.

Please note

No other reciprocating or rotary tool can be used when the drill is in use.

Included

FlexiDrill Tool with motor drive and a variable chuck, including a chuck key and one 1/4" flexo drill bit.

The best results on a wide range of materials
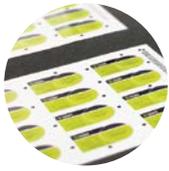
Folding carton
» Samples from all grades of folding carton.
» Powerful function to generate sample counters based on integration with ArtiosCAD

Corrugated board
» Short-run of boxes on demand
» Sample boxes
» POP displays
» Wooden box replacements

Solid board
» Specialty packaging gift packaging

ACM*
» Displays
» Advertising items
» Signs
» Boxes

Acrylic
» Engraving
» Additional furniture
» Trophy
» Signmaking
» Front panels

Foam
» Protective packaging
» Sign

Rigid paper board Fluted core board
» Furniture
» POP displays
» Semi-permanent displays

Foam board
» Signs and posters
» Display
» Models of buildings, etc.

Honeycomb
» Pallets
» Displays
» Protective packaging

MDF**
» Displays
» Furniture
» Sign & Display

Carpet
» Carpets with different forms or logos combining colors
» Personalized shapes

Drawing
» Pre-mounting for flexo plates
» Plots on paper, Mylar foil or directly onto dieboard
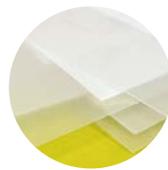
Plastics
» Boxes for presents and cosmetics
» Document folders
» Rain covers and sun shading
» Credit cards
» Lights boxes/Pop up

Corrugated plastic
» Boxes
» Displays

Paper
» Envelopes
» Exhibitors lining
» Box lining

Varnish blankets
» Varnish blankets for offset print can be cut in perfect register with the printing press.

Flexo plates
» Cut the flexo plates with or without bevel
» Integration with Esko's Digital Flexo Suite is available.

Textile
» Banners
» Flags
» Advertising items
» Roll-up

Gaskets
» Gaskets for cars, pumps, liquids...

Adhesives/Vinyls
» Labels (Short runs)
» Vinyls for banners, cars, shops
» Sign making

Wood
» Displays
» Furniture
» Sign&Display
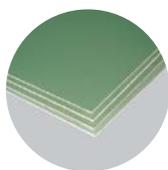
Fiberglass
» Sign
» Special constructions
» Modelling

Thin aluminium
» Displays
» Sign making

Rubber
» Die rubber (no drying time required)
» Mouse mats
» Complements for shoes
» Magnetic foil

Veneer
» Furniture
» Signmaking
» Box lining

*ACM aluminum composite material
**MDF medium-density fiberboard

Notes

For more information

about the various tools you can contact us at info.eur@esko.com.

Order your bits and blades online

Visit the Esko Store to buy the best bits and blades for your Kongsberg cutting table.

www.esko.com/store

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