

# The right tools for packaging and corrugated POP materials

The most common materials are: corrugated virgin and recycled board, folding carton, papercore board, display board and foam.

## Corrugated

### Tools

The unique **CorruSpeed tool** delivers blazing speeds and great quality on a wide range of virgin and recycled corrugated materials.

CorruSpeed cuts corrugated board without oscillation, leaving a perfect smooth “die cut” like edge. The rounded material foot crushes the edge making it easy to strip and assemble.

The **High Frequency Oscillating Tool** is typically used for effectively processing corrugated materials with high recycled content or when material has not been stored in optimal conditions, leaving the material too dry and brittle or with too much humidity.

Kongsberg offers a wide range of **crease wheels** (26 / 60 / 150mm) to accommodate the best possible crease result. The **Heavy Duty Tool** position features superior downforce with the equivalent of 50kg (110lb) of down pressure.

This is 2.5 times more than conventional tooling stations. The 150mm crease wheels are perfect for creasing thick corrugated boards, including double and triple wall corrugated. It ensures an even and sufficient performance without cracking fragile liners.

The 60mm **perforation wheels** add the possibility to produce perforation assisted crease at a high speed and grain throughput.

### Blades

There are many **specially developed blades** for cutting corrugated materials at high speeds, both for the static and oscillating knife tools. The Kongsberg tungsten carbide blades have a long durability on demanding corrugated materials with a minimum of machine down time.

The 60mm and 150mm **crease wheels** are available with different line widths.

The **perforation wheels** come in a range of gaps (3, 5, 7 or 10mm) for different perforation patterns. These are perfect for making perforated assisted crease lines.



## Papercore/ sandwich board and foam

Materials like foam, corrugated, or honeycomb boards are typically used in protective packaging, POP display and exhibition applications.

### Tools

The **High Frequency Oscillating Tool** is typically used for compact foam and honeycomb. The tool is designed for processing difficult materials (e.g. with high recycled content).

**HD knife** is perfect for fast and straight cutting and the v-notch tool enables you to go from simple 2D billboards and shapes to 3D structures with a v-notch cut in paper boards up to 16 mm.

The **Foam unit** cuts foam and paper / sandwich boards up 86mm (X) and 50mm (C).

The **Drill tool** is aimed at light weight drilling to create holes for mounting and fixation.

### Blades

Most of the Kongsberg blades are long lasting tungsten carbide blades with maximum performance.

**Serrated edge blades** are designed for cutting paper honeycomb material. They are also suited for some dense foam materials that tend to melt with other blades.

**Pointed blades** are designed for cutting foam material of different grades and thicknesses.

Special purpose **heavy duty flat blades**, such as the trapezoid blades, double flat or single flat are optimized for long-life high-speed cutting tough paper-based material like re-board, triple wall corrugated, etc.

## Folding carton

### Tools

The ideal cutting tool for folding carton is the **Psaligraphy tool**, developed specially for fine detail cutting in thin materials like paper and folding carton. This tool cuts intricate details without lifting, moving or tearing the material. It is as precise as laser cutting but without the burned edges. You can use it to create samples from all grades of folding carton, created with or without counter parts (matrix).

The **MicroCut tool** is designed for applications where very fine depth control is needed, such as varnish blankets or half cuts in thin folding carton.

The **Pen tool** plots on paper and marks samples. It is also used in flexo printing, for premounting flexo plates.

### Blades & wheels

The Kongsberg range of **static cutting blades** comes in three different shapes: single edge, double edge and asymmetric double and single edge. The asymmetric blades reduce burrs on one side of the cut.

**Crease wheels:** 15 mm and 26 mm diameter wheels are available with different lines. 15mm crease wheels provide excellent performance when creasing thin materials, such as folding carton and paper. 26mm crease wheels are used for creasing thick carton and thin corrugated board.