Each Insignia machine is produced completely in the USA and utilizes a register system similar to that of an offset printing press for superior sheet-to-sheet accuracy.

Able to run inline to many folding/gluing systems, the Insignia can become a production driven solution for both short and long runs.

Capable of producing an extremely wide range of products; door hangers, presentation folders, unique direct mail pieces, folding cartons, hang tags, decals ID cards and so much more.

The Insignia provides entry into high value packaging and commercial markets enabling greater in-house control over production and turn around times.

Insignation of the sending out

Make sending out work a thing of the past with the Insignia



Let Insignia change the shape of your business!

West Coast: Doug Sherwood

(714) 935-9130 ext. 22

☑ dsherwood@rollemusa.com

Daniel Corwin

(714) 935-9130 ext. 17

☑ dcorwin@rollemusa.com

Europe/Asia: Kevin Corwin

(714) 935-9130 ext. 11

✓ kcorwin@rollemusa.com

Contact Rollem:

WEB

www.rollemusa.com/diecut

www.insigniadiecutting.com

www.youtube.com/rolleminternational

TOLL FREE (800) 272-4381

Midwest: Tj Osborne

(847) 923-0100

☑ tjosborne@rollemusa.com

Southeast: Dennis Carter

(864) 982-0833

☑ dcarter@rollemusa.com

Latin America: Diego Marulanda

(954) 960-4900

☑ dmarulanda@rollemusa.com

Northeast: Paul Byrne

(774) 666-0354

□ pbyrne@rollemusa.com

East Coast: Allen Hammer

(610) 804-3601

☑ ahammer@rollemusa.com

Katie Hirst

(267) 467-2533

★ khirst@rollemusa.com

Insignia
Die Cutting Systems,
Information &
Specifications



Single & Dual Magnetic Cylinder Configurations

Each Insignia machine contains two cylinders; an upper and a lower. The upper cylinder is always magnetic and houses a flexible die, and a choice is offered with the lower cylinder between a matching magnetic cylinder or a hardened, solid anvil cylinder.

The difference between these two systems is that a dual magnetic 'H model' machine can accept a paired set of 'male/female' dies to cut with, whereas a single magnetic machine will utilize a single die tool and cut against a precision-ground lower anvil cylinder.

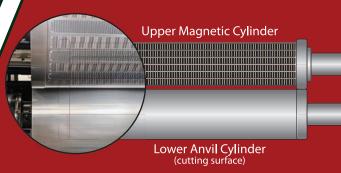
A **single magnetic system** is recommended to produce pressure sensitive kiss-cut work, or flat cut products.

A dual magnetic system is commonly utilized when running packaging products or folding carton work.

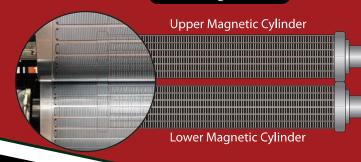
A dual magnetic machine can be converted into running with a single cutting die using a blank jacket on the lower cylinder when looking to run flat cut products or kiss cut work. A set of dies can be inverted on the cylinders to run material face down for back slitting.

The Illustration below
highlights a single vs. dual
magnetic cylinder configuration.
The primary difference between the
two is utilizing a single flexible die or a
paired set to channel score or emboss
with no make ready. There are ways to
create folds on a single magnetic system,
however to emboss requires a paired set of
dies on a dual magnetic machine. A blank die
can be used on the lower cylinder for pure die
cutting applications on dual magnetic machines.

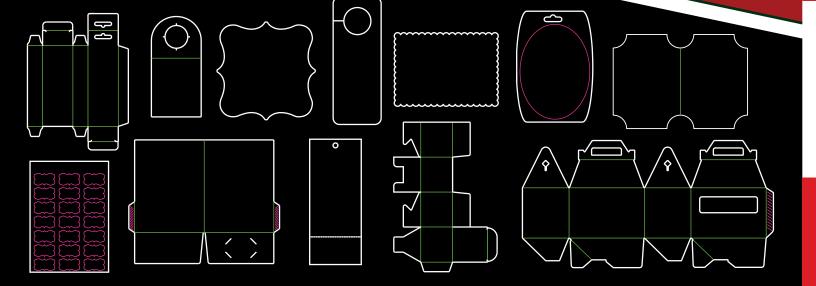
Single Magnetic



Dual Magnetic 'H'



Common Applications:



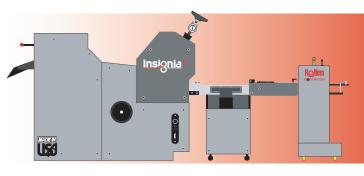
DELIVERY SYSTEMS



Illustrated left is a standard shingle delivery table supplied with all machines. This unit is capable of accepting many lanes of cut product or single-up pieces. Available in 3 or 5ft. (91.5 / 150cm) lengths with batching capabilities.

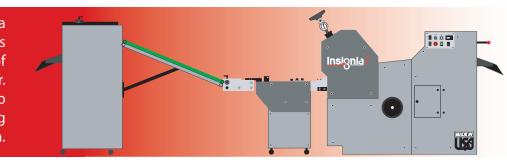
Illustrated right is a standard sheet stacking delivery option. This system is excellent at collecting kiss cut sticker or decal work, and for fully die cut material that is not automatically stripped out. Material is delivered onto a wheeled cart for easy off-loading. A pallet configuration is also available.

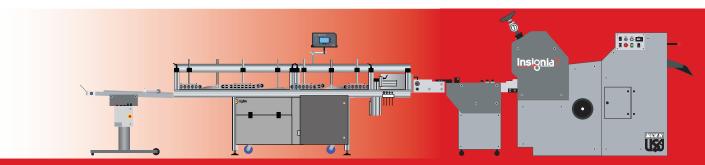




Illustrated left is a StackMaster delivery unit that is capable of accepting die cut product from a single lane to many-up lane configurations. Die cut product is stacked vertically for large volume runs and easier offloading. An optional delivery cassette is available for smaller size product.

The Illustration on the right shows a deep pile stacking delivery option. This delivery can stack the same amount of finished product from the Insignia feeder. This unit has an adjustable infeed ramp and is also available in a pallet offloading system.





Illustrated above is an Insignia system shown inline with a folding/gluing unit. An Insignia system can feed directly into another machine as shown, or a laminating unit, UV coating system or others. This configuration is commonly set for dedicated high volume production of a single or two product(s).

MACHINE SPECIFICATIONS

Insignia6/6H Insignia7/7H Insignia5 InsigniaX3 Material Min: 60lb Cover / 50gsm Min: 60lb Cover / 50gsm Min: 60lb Cover / 50qsm Min: 60lb Cover / 50gsm Max: 0.020" / 380qsm Max: 0.024" / 400gsm Max: 0.024" / 400gsm Max: 0.030" / 550gsm **Thickness** Sheet 10 x 10" Min. (25.5 x 25.5cm) **20 x 15" Max.** (51 x 38cm) **20 x 20" Max.** (51 x 51cm) **30 x 24" Max.** (76 x 61cm) **24 x 24" Max.** (61 x 61cm) Size Variable up to 5,000 Variable up to 5,000 Variable up to 5,000 Variable up to 5,000 Speed sheets per hour sheets per hour sheets per hour sheets per hour 4 Adjustable front head stops 4 Adjustable front head stops 8 Adjustable front head stops 6 Adjustable front head stops Side pull guide; left or right Side pull guide; left or right Register Side pull guide; left or right Side pull guide; left or right Gripper finger spring system Gripper finger spring system Gripper finger cam system Gripper finger cam system Top suction air feed w/ 3 Top suction air feed w/ 3 Top suction air feed w/ 4 Top suction air feed w/ 4 movable sucker heads. Front & Feed side air separation. Feed side air separation. Feed side air separation. Feed side air separation. Feed capacity of ~36" capacity of ~36" capacity of ~40" capacity of ~40" Upper: magnetic, ceramic & steel Cylinder Lower: Hard anvil, no jacket required Lower: Hard anvil, no jacket required Lower: Hard anvil, no lower Lower: Hard anvil, no lower **Options** Optional dual magnetic 'H' system jacket required jacket required 162"L x 48"T x 40"W 170"L x 51"T x 40"W 187"L x 59"T x 59"W 187"L x 53"T x 55" W Footprint 460cm L x 135cm T x 140cm W 396cm L x 122cm T x 101cm W 417cm L x 129cm T x 101cm W 460cm L x 147cm T x 140cm W 230v - 60Hz - 3-phase - 12amp 230v - 60Hz - 3-phase - 12amp 230v - 60Hz - 3-phase - 15amp 230v - 60Hz - 3-phase - 15amp Elec. 110v 1-phase line 110v 1-phase line 110v 1-phase line 110v 1-phase line Regt. *Other voltages available *Other voltages available *Other voltages available *Other voltages available

FLEXIBLE DIE MANUFACTURING SUPPLIERS

4,800lbs

2,200kgs

3,600lbs

1,630kgs



2,900lbs 1,315kgs

Weight





4,200lbs

1,905kgs











Single & Paired sets of Flexible Dies

A **single magnetic machine** will utilize one upper flexible die and cut against a lower, hardened anvil cylinder. A single magnetic

configuration is ideal when straight die cutting, or when kiss cutting to an adhesive liner.

A single flexible die can be mounted into the recessed scribe line for quick, easy positioning and adjustment.

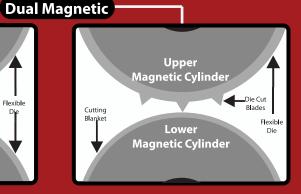
A dual magnetic 'H' machine

utilizes two flexible dies running as a 'male/female' paired setup to channel score or emboss substrates, or to cut from the underside. A channel score or embossing elements can be

achieved from either the top or bottom die tool.

Dual magnetic cylinders allow for zero make-ready when producing pocket folders or folding cartons as well as enables embossing or debossing of substrates in a single pass.

Upper Score Rule Score Channel Cutting Surface Lower Magnetic Cylinder Magnetic Cylinder



Magnetic Cylinder

Anvil Cylinder

A dual magnetic Insignia system is capable of accepting a single upper cutting die while utilizing a lower solid "blanket" or "jacket" die on the bottom magnetic cylinder to act as the cutting surface when strictly cutting a substrate.

A paired set of flexible dies is mounted onto the cylinders via a pin mounting system as alignment is crucial with a paired set. The Insignia machine utilizes micro adjustments of the upper magnetic cylinder to ensure optimal alignment of the flexible dies to one another.

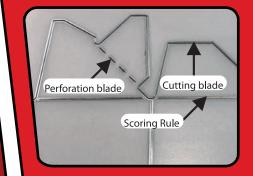
Common applications for single magnetic machines include (but are not limited to); shaped greeting cards, packaging inserts, decals and pressure sensitive applications cutting to a liner, garment tags, event passes, invitations, door hangers, bottle neckers, ID card carriers and much more.

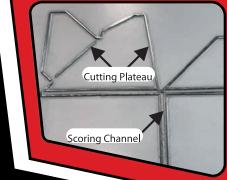
Applications commonly produced requiring a dual magnetic machine could consist of; channel scored folding cartons, presentation folders, embossed envelopes, uniquely shaped direct mailing pieces, POP displays and fold over greeting cards.

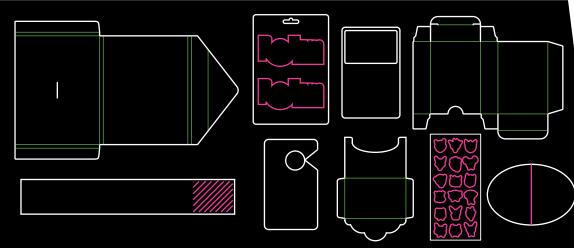
With a single magnetic die cutting station it is possible to apply a matrix or counter to the anvil cylinder to channel score.

With a dual magnetic die cutting station a set of die tools can be made with cutting blades on both upper and lower tool at the same time, as long as they are in varying locations. Embossing elements can also be inverted as desired.

Paired set of die tools







Flexible Magnetic Dies vs. Steel-Rule Dies

Flexible dies have been in use for 30+ years on converted web printing presses to kiss cut adhesive materials. In years since, flexible die technology has advanced much further into die cutting of substrates as thick as 0.030" / 0.76mm.

Some advantages to utilizing flexible die technology over steel rule / platen cutting tools are:

Because flexible dies are produced via CNC machine, the tolerances they are held to are far tighter than that of a steel rule die. Intricate die cutting patterns, multiple blade heights to die cut and kiss-cut, perforating blades, creasing elements and embossing patterns can all be placed within a flexible die.

After flexible dies are engraved via these CNC machines, they can be either laser hardened for extended die life, or coated for various adhesive cutting applications to prevent substrates from adhering to the die tools. Lifespan of the dies will depend on the substrate being cut and the finishing treatment they receive.





Produced to tolerances of less than 0.001"/
0.02mm – flexible dies are extremely precise and
thus allow for maximum accuracy when kiss-cutting
to an adhesive liner. Extended die life is achieved when
cutting against an anvil cylinder. Flexible die blades can
be as close together as 0.055"/1.4mm and obtain radius'
as tight as 0.05"/1.27mm. Non-standard perforation TPI as
well as shaped or curved perforation blades, and
multi-height blades within the same die tool are all possible.



Delivery Options

The Insignia machines can deliver either a full sheet of die cut or kiss cut product, or it can strip the die cut pieces from the matrix or skeleton of the sheet and deliver them onto a slow moving shingle delivery table, or into a vertically receding stack.





Product delivered onto a shingle table can vary from a single lane of product up to 6-12* lanes depending on the size of the piece being cut. Interior holes within the die cut product can be removed with the Insignia Air Blast Kit.



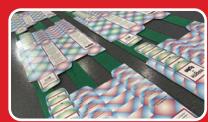


Another option for delivering stripped out product is into a vertically receding StackMaster delivery system capable of receding up to 24" / 61cm+deep. The product is delivered into a removable cassette for minimal downtime.





Insignia machines can perform batching functions in two places within the system; a variable batching system functioning within the feeder, or a static batch system housed at the delivery.



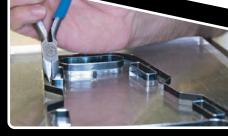
A variable batching system is great for varying quantities of pieces within each order. This system relies on a printed mark as a trigger point.



A static batching system is effective for fixed quantities of product. This method of batch is accomplished at the delivery end of the Insignia system which allows for easy quantity separation.









Upper: Steel Rule dies produced by pre-bent metal cutting blades being inserted into notches cut into a wooden base.

Lower: Flexible dies produced via CNC engraving machines that are capable of intricate patterns and multiple blade heights.









Flexible Die Pricing Quotes

For flexible die pricing quotations please email:

Insigniadieline@rollemusa.com

Please include in this email:

- Insignia machine: IS5, IS6, IS7 or ISX3
- Material information (sheet size, material thickness)
- Desire to strip out die cut pieces OR leave them inside the sheet

