

# Robots and Feeders

Intelligent packing solutions  
by Hugo Beck



Friction feeder





## Because appearances also matter

Here at Hugo Beck, we are dedicated to the outer values – in order to present, to protect and make the inner values transportable. Our innovative packaging solutions are developed and produced by 110 specialists in Dettingen near Stuttgart. They are in demand all over the world. Hugo Beck is one of the prominent manufacturers of flowpack, film packaging and print processing systems. Whether it is an entry-level machine or a high-end device, a series machine or a customer-tailored solution, thanks to excellent technologies in the scope of performance between 3,000 and 18,000 cycles/h we cover the entire spectrum. Our profound and simultaneously broad expertise is also reflected in our three business segments: Pharmaceuticals, Food and Cosmetics, Print and Paper, and Household, Construction & More.

## Convincing answers

How do the products to be packaged get into the packaging machine quickly and in one piece? Here at Hugo Beck we offer convincing answers. This is because our unrivalled comprehensive solutions in the field of horizontal packaging naturally also include the periphery. Tailored to specific wishes and product requirements, we manufacture reliable, flexible feeder systems. Only robot systems offer more flexibility and efficiency. And this is exactly what Hugo Beck - who has always been a pioneer in the packaging industry – has now added to its product range.

Pick & Place

Rotation feeder for inserting

Friction feeder

Universal feeder

Addressing unit



## Unlimited product handling

Feeders are particularly in demand in the graphics industry in order to feed in main products or by-products such as magazines, flyers, letter covers or writing pads. But even in countless other industries, quick collecting, stacking, grouping and counting is essential. The user manual enclosed with electrical appliances, the package inserts that are used in the pharmaceutical and cosmetics industries, prize competition cards that can be found in food packaging... The fields of application of flexible Hugo Beck feeder units are extremely varied and span multiple business segments. Neither do our high-speed robots know industry boundaries. In particular when it comes to packaging large quantities and frequently changing products they exhibit impressively high levels of efficiency.

## Ideal choice: Parallel robots

He is never sick, he works quickly and carries out even uniform tasks 100 per cent accurately all the time. Where do you find such an outstanding employee? At Hugo Beck we have expanded our range of periphery products with the most efficient and most flexible kind of product feeder, and are now able to offer our customers state-of-the-art parallel robots – the ideal choice for high-speed packaging applications and tasks that require exceptional flexibility and hygienic standards.



Simple operation

Integrated control system

HD camera localizes products

Vacuum suction easily mountable

Low cycle time (0.32 s)



### Technical specifications

- Number of axles: 3 or 4
- Load-bearing capacity: 3 to 8 kg
- Work area: ø 1130 mm
- Repetition accuracy: 0.1 mm
- Weight: 52 kg

### A superlative in efficiency

The list of arguments that speak in favour of purchasing a Hugo Beck delta robot / parallel robot is a long one. Right at the top of that list you will find the efficiency and repetition accuracy of this fully automated feeder system. With unparalleled availability, the picker with a four-arm design works much faster and more reliably than known alternatives. When it comes to large quantities or changing products, it pays itself off within a short amount of time. Production throughput increases, unit costs fall.

### Technical multi-talent

The operation of the spider robot is simple: It learns movements by being shown them once. Its control is made easy by the packaging machine, where programs that have already been carried out can be stored and selected at any time again for recurring tasks. The large robot work area makes the confident handling of a wide variety of products, even bulky products, and packaging possible. The products are localised by the integrated high-resolution camera. Whether it is small, large, light or heavy: With a tare weight of only 52 kg, the spider robot / delta robot has a load-bearing capacity of up to 8 kg.

Our technical multi-talent can be combined both with the modern servo X machines of Hugo Beck and with existing packaging lines.



Handling of changing products

Double pack above one another

Pick & Place individual packaging

Praline individual packaging

Petri dish handling

Biscuit multipack



## Almost infinite possibilities

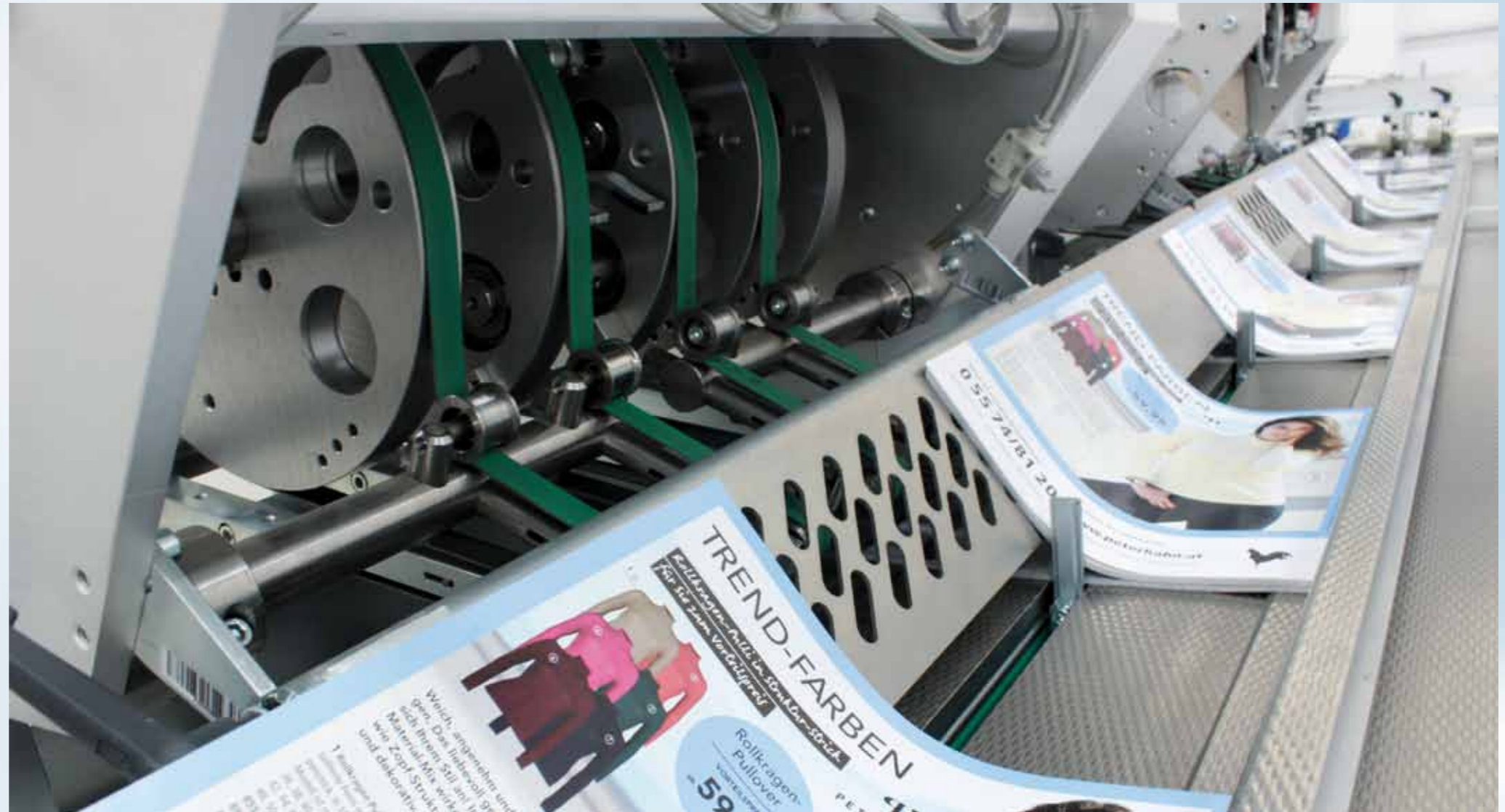
Thanks to the parallel robot our program of peripheral devices has become larger. Or better put: Even larger, because Hugo Beck offers a wide range of proven feeders. They are especially popular in our Print and Paper business segment. Numerous other industries also profit from the flexible feeder made by Hugo Beck. Check cards, package inserts, flyers, gimmicks, fleece cloths, refreshing wipes, cent coins, cutting boards... The list of articles and products that our feeders can feed in quickly and safely to downstream and upstream production steps is almost endless.

## A genuine rarity

Hugo Beck feeder systems are characterised in particular by their high flexibility. Every one of our feeders is movable, height-adjustable and multi-functional. The feeders can be disconnected and made ready to use in any other area in a matter of minutes. The variability of the machine is thus increased and our customers are ready to deal with any inquiries.

Feeders of Hugo Beck additionally possess their own control system and own drive units. This means they not only can be operated at our machines, but also at foreign devices – via coupling boxes or just via photoelectric cells and rotation transducers.

And it means even more: Our feeders are also completely self-sufficient. A genuine rarity in the packaging industry.



Rotation suction feeder



Friction feeder



Universal feeder



## Rotation suction feeder

The rotation suction feeder is the most popular feeder in the graphics industry. It pulls in the product and pulls it into its pincers in order to then feed it via a rotational movement into the packaging / inserting machine at a right angle.

The rotation suction feeder is suitable for a wide variety of products, since it can very quickly be switched from a thin to a comparatively thick product. Each version of our rotation suction feeders excels thanks to a high degree of flexibility, height adjustment possibilities and their own drive and control units.

*Length 50-400 mm | Width 90-440 mm | Thickness 80 g/m<sup>2</sup> to 8 mm | Capacity up to 18,000 cycles/h*

## Friction feeder

The Hugo Beck friction feeder operates not only through friction, but is additionally supported by a vacuum. It achieves up to 60,000 cycles per hour, is height-adjustable via electric motors and is equipped with its own control and its own drive unit.

Our friction feeder is very flexible because it can process and feed in a multitude of products. It is particularly well suitable for folded or saddle stitched products such as greeting cards, supplements or CDs. A counting device can also be included if for example it is necessary to count envelopes.

*Length 50-450 mm | Width 50-420 mm | Thickness 80 g/m<sup>2</sup> to 3 mm | Capacity up to 60,000 cycles/h*

## Universal feeder

The universal feeder is usually the main feeder and is accordingly in first position. Our universal feeders can feed in very heavy products with a height of between 2 and 80mm. The flexibly applicable feeder is equipped with its own control and drive unit. It is used in both the graphics industry and in many other industries, for example if puzzles, cardboard boxes, fleece cloths or cutting boards made out of plastic are fed in.

*Length 148-520 mm | Width 105-450 mm | Thickness 2-80 mm | Capacity up to 18,000 cycles/h*



## Pick & Place feeder

Our Pick & Place feeder is a special device that positions a wide variety of products – also 3D articles – on different types of geometry. And it does so with a high degree of precision in the lower millimetre range. This feeder masters almost all applications that are required when an image needs to be positioned accurately. For example if a booklet needs to be affixed to a magazine in a precisely defined position. Hugo Beck Pick & Place feeders can be used with almost all special formats, this also applies for oversizes up to DIN A4.

*Length 50-300 mm | Width 50-220 mm | Thickness 0,5-6 mm | Capacity up to 15,000 cycles/h*

## Addressing unit

Addressing units round off the range of Hugo Beck periphery products. They cut and glue pre-printed paper labels, and stick them directly onto the product to be personalised. Our addressing units can also be combined with third-party devices. And they are equipped with a unique mechanism on the market that enables a high degree of flexibility: The rotation of the labels via display by 90 degrees, either to the right or left. With this rotation they can achieve up to 12,000 cycles per hour, without rotation they can even reach up to 40,000 cycles per hour.

## Labelling

During the inkjet procedure, an inkjet printer prints on the products or prints cover pages. In addition to addressing magazines, flyers, mail distributions etc., the inkjet printer of Hugo Beck can also add expiry dates to pharmaceutical and cosmetic products, for example.

The labelling can also be carried out using thermal transfer, laser printer or laser labelling.

### Other feeder units and peripheral devices

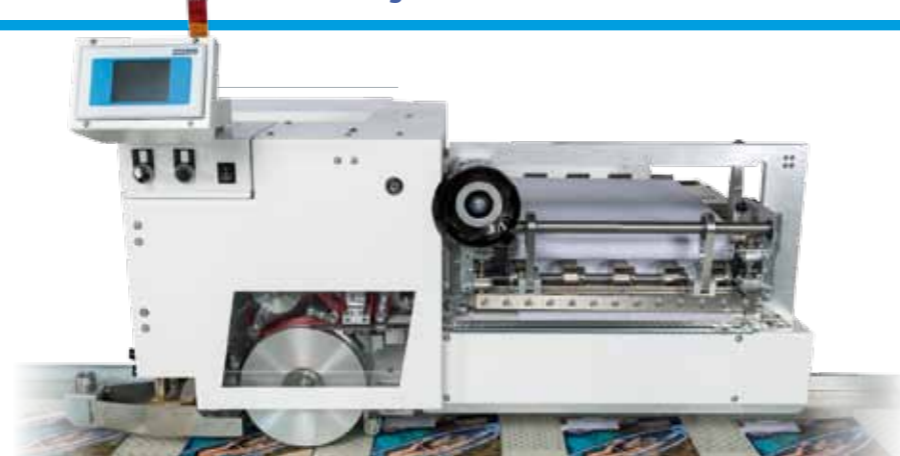
- Newspaper feeders
- Flat stacking feeders
- Cover sheet openers
- Plough openers
- Routing label feeders with or without printer
- Booklet feeders
- Collators
- Shingle loading belts

**Note:** Information may vary depending on type and option.

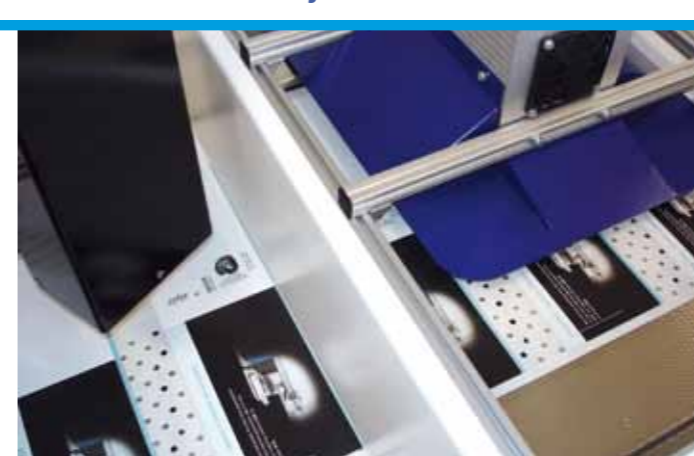
Pick & Place feeder



Addressing unit



Inkjet



Thermal transfer



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