

HPX Range: High Power Twin-Screw Extruders

Baker Perkins' high power twin-screw extruder (HPX) range delivers superior outputs on specialist applications from a smaller barrel, with reduced cost of ownership and machine downtime.

Designed for increased power and speed on all formulations

Increased power and speed are the key attributes of the HPX range, achieved by full utilisation of the motor through torque stability provided by Baker Perkins' patented MAX³ feed system, and increased thrust capacity of the solid-shaft drive train.

The extruders handle a full range of industrial applications, including the most intensive formulations.

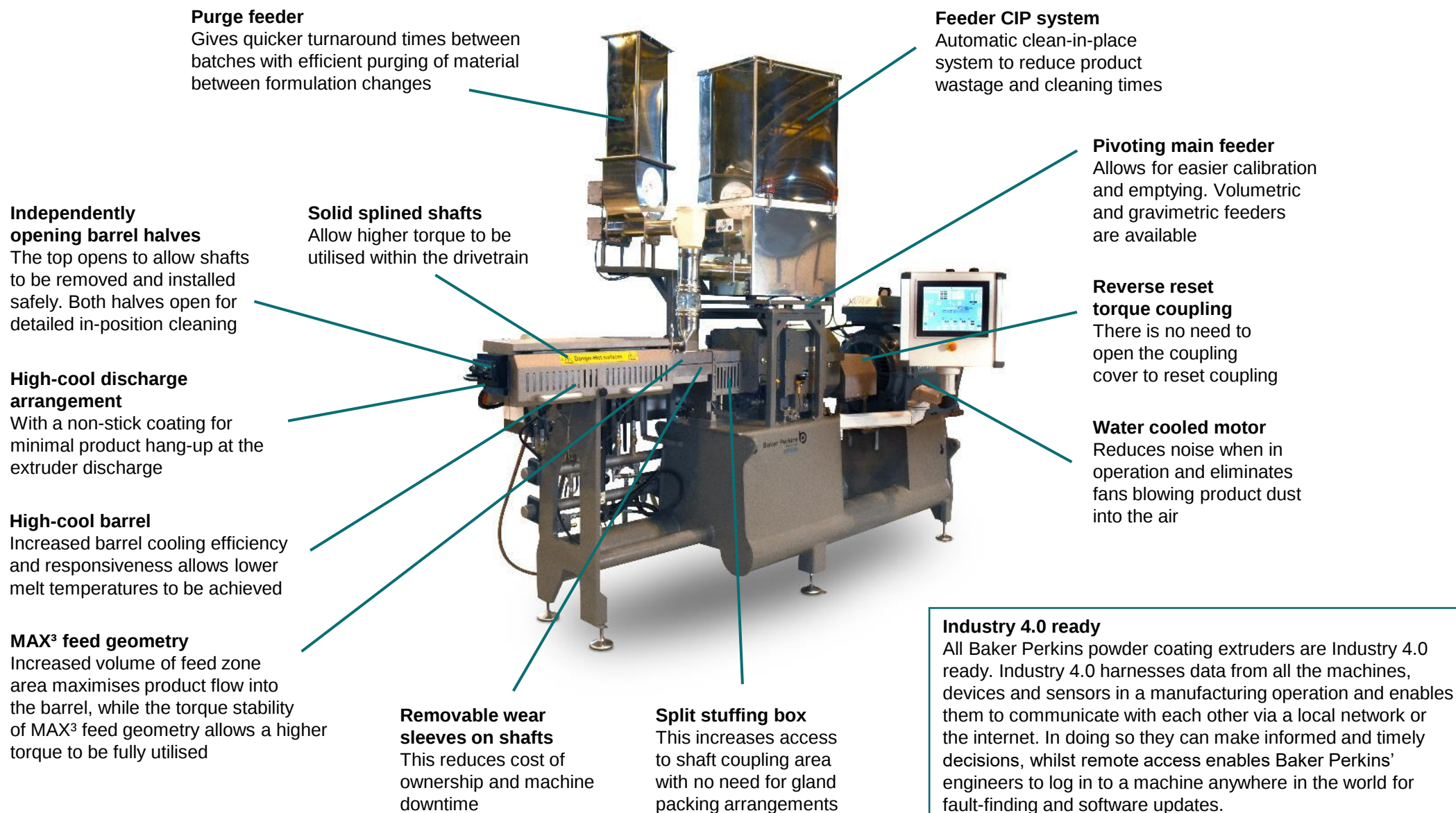
Building on success

The HPX range retains all the latest features of Baker Perkins' MPX range. Alongside the MAX³ feed system, these include:

- A high-cool barrel that increases efficiency and allows lower melt temperatures
- A split stuffing box for increased access
- A pivoting main feeder for easier calibration and emptying
- Purge feeders for quicker turnaround between batches

Noise is minimised by using water cooled main drive motors, while a high-cool discharge adaptor and non-stick coating minimise product hang-up at discharge.



**Purge feeder**

Gives quicker turnaround times between batches with efficient purging of material between formulation changes

Feeder CIP system

Automatic clean-in-place system to reduce product wastage and cleaning times

Pivoting main feeder

Allows for easier calibration and emptying. Volumetric and gravimetric feeders are available

Reverse reset torque coupling

There is no need to open the coupling cover to reset coupling

Water cooled motor

Reduces noise when in operation and eliminates fans blowing product dust into the air

Independently opening barrel halves

The top opens to allow shafts to be removed and installed safely. Both halves open for detailed in-position cleaning

Solid splined shafts

Allow higher torque to be utilised within the drivetrain

High-cool discharge arrangement

With a non-stick coating for minimal product hang-up at the extruder discharge

High-cool barrel

Increased barrel cooling efficiency and responsiveness allows lower melt temperatures to be achieved

MAX³ feed geometry

Increased volume of feed zone area maximises product flow into the barrel, while the torque stability of MAX³ feed geometry allows a higher torque to be fully utilised

Removable wear sleeves on shafts

This reduces cost of ownership and machine downtime

Split stuffing box

This increases access to shaft coupling area with no need for gland packing arrangements

Industry 4.0 ready

All Baker Perkins powder coating extruders are Industry 4.0 ready. Industry 4.0 harnesses data from all the machines, devices and sensors in a manufacturing operation and enables them to communicate with each other via a local network or the internet. In doing so they can make informed and timely decisions, whilst remote access enables Baker Perkins' engineers to log in to a machine anywhere in the world for fault-finding and software updates.