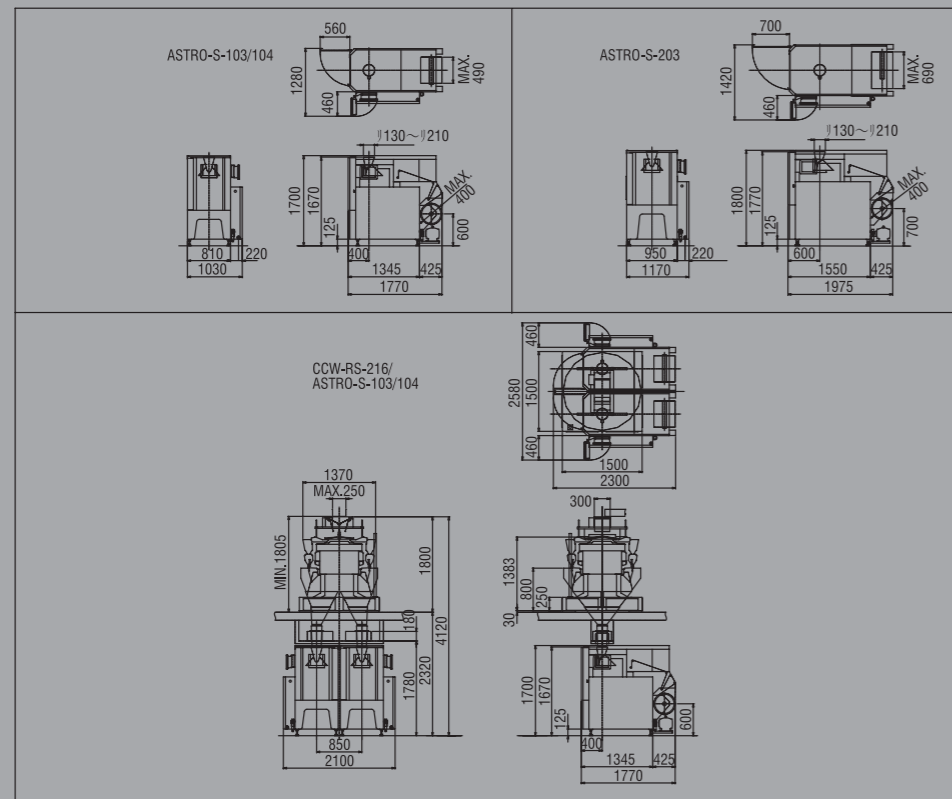


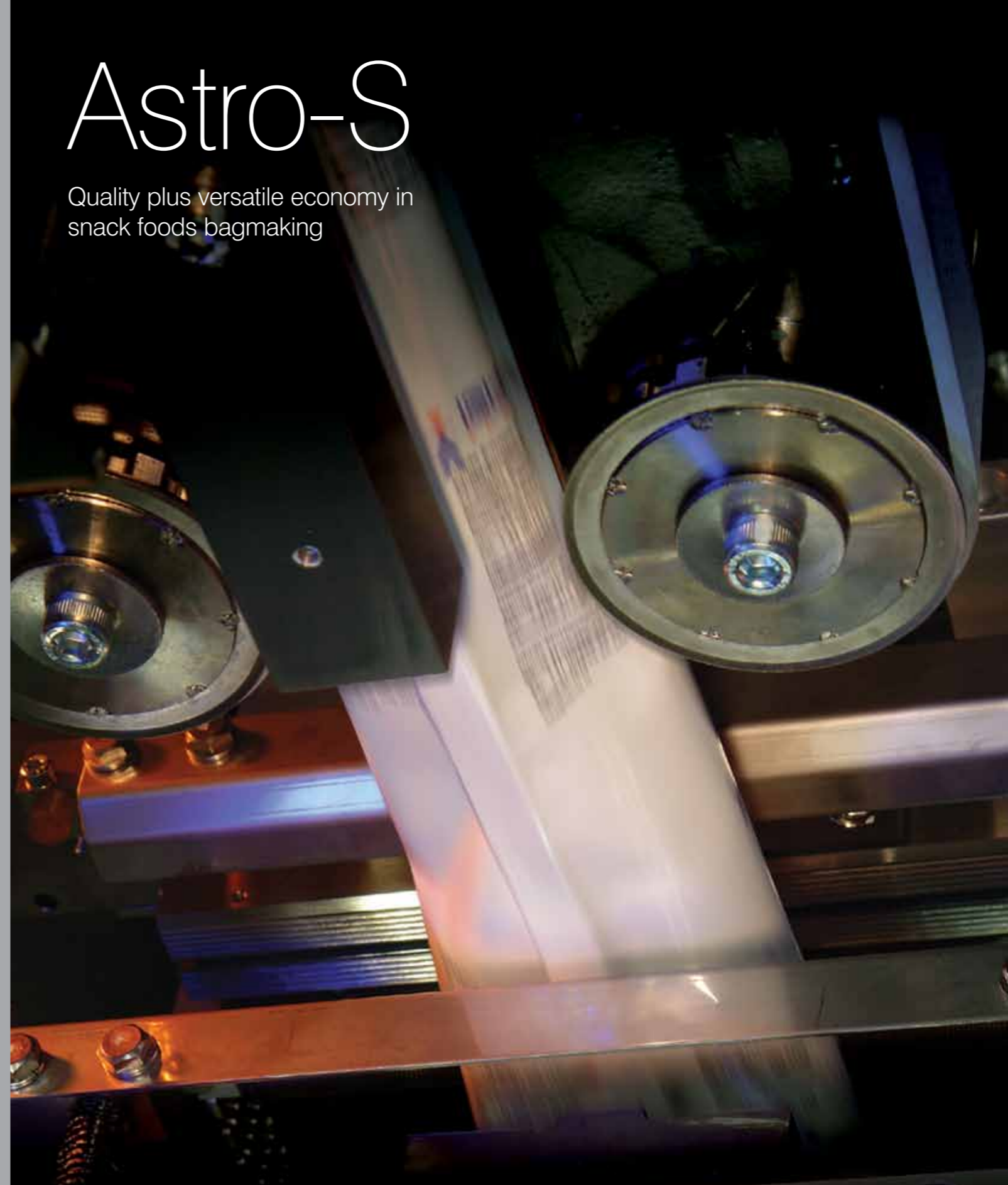
| Specifications | | | | |
|-------------------------------|--|---|-------------------------|------------------------------------|
| Model | Astro 103 /104 | Astro 103 /104 (Block bottom option) | Astro 203 | Astro 203 (Block bottom option) |
| Bag Format | Pillow | Pillow, block bottom, gusset | Pillow | Pillow, block bottom, gusset |
| Running speed | up to 90/100bpm | up to 45bpm | up to 80bpm | up to 45bpm |
| Bag Size Width | 100 - 230mm | 100 - 230mm* | 100 - 330mm | 100 - 330mm* |
| Bag Size Length | 100 - 600mm** | 100 - 600mm** | 100 - 600mm** | 100 - 600mm** |
| Film Size Max. roll width | 490mm | 490mm | 690mm | 690mm |
| Bore of film roll core | 76.2mm | 76.2mm | 76.2mm | 76.2mm |
| Max roll diameter | 400mm | 400mm | 400mm | 400mm |
| Max roll weight | 40kg | 40kg | 40kg | 40kg |
| Product | Snack foods such as potato chips, corn chips, tortilla chips, nuts, sticks and popcorn | | | |
| Film Feeding Motion | Intermittent | Intermittent | Intermittent | Intermittent |
| Machine Size | Width | 1030mm | 1030mm | 1170mm |
| | Height | 1700mm | 1700mm | 1800mm |
| | Length | 1770mm | 1770mm | 1975mm |
| Power Supply Power Voltage | 3 phase AC380-415V 50/ 60hz | | | |
| Allowable Voltage Fluctuation | ± 10% | | | |
| Air Supply | 0.5 - 1MPa (5.1 - 10.2kgf/cm ²) 60N/min. | | | |
| Net Weight (circa) | 1200kg | 1200kg | 1300kg | 1300kg |
| Operational Temperature | 32-104°F (0-40°C) RH30-70% non-condensing | | | |
| Options | Date printer, Metal detector, Air jet, Product poker, chain bags, stick handling, narrow bags 65-100mm, gusset bags, block bottom, hole punch bags, corner creased block bottom bags, banner device (promo strip). | | | |
| Sealing Jaw Motion | Intermittent single jaw | Intermittent single jaw | Intermittent single jaw | Intermittent single jaw |

* Pillow bag widths only, gusset and block bottom bags ranges are limited based on side and front pack dimensions
 ** 300mm in one pull of the film, 360mm long back seal available as option.



Astro-S

Quality plus versatile economy in snack foods bagmaking



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Astro-S

Consistent pack quality and seal integrity at up to 100 bags per minute



Optimum line performance

Dependable packaging at speeds up to 100 bags/minute

The Astro-S features Ishida's proprietary packaging machine technology. Our innovative pull-down belt system and servomotor controlled film feeder produce high quality bags at a stable packaging rate.

Simple film-change and maintenance procedures

The simplified machine design contributes to faster film changes and easy maintenance, resulting in reduced downtime and improved overall operational efficiency.



Operator-friendly, for minimum downtime

A colour touch-screen offers a simple and easy means of performing various operations and printing. Touch panel operations are icon-based for greater navigation and ease of use. Tabs in the easy-to-follow graphic interface provide quick access to multiple screens for simplified operator control.



Simple film changeover

The lightweight formers can be changed without using tools, and fewer film rollers insure fast film changes. A simple switch firmly locks the integrated air-chuck roll feed, securing the reel.



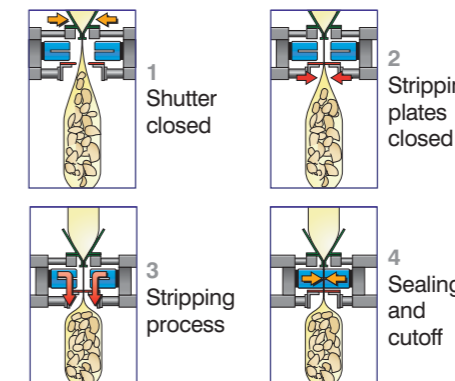
Stable film feeder

Servomotor control ensure stable feeding of film for reliable packaging at 100 bags/minute.



Flexible, reliable sealing

The servomotor incorporated in the end seal area ensures optimum seal pressure, seal time and seal temperature for each film. These parameters can be quickly set and programmed using the easy to operate control unit.



Product stripping ensures minimal film waste

Stripping plates located beneath the sealing jaws can be provided to remove any product from the end seal area prior to making the end seal.



Pack format options

Enhanced features for a variety of pack styles, including gusset, block bottom and chain bag.

