

# Luna X3



Robustness • Reliability • Quality • Productivity • Versatility



# Luna X3

We are proud to introduce our latest development. The Luna-X3 is the newest addition to the renowned X3 feeder range. With a future-proof design, ready to meet the demands of advanced modern weaving machinery.

Luna X3 comprises many proven and established features, including our energy efficient permanent magnet motor design, but also incorporates many new developments. Luna X3 has improved accessibility and easy “plug and play” for connecting powered intelligent accessories, and an improved threading-up system. And Luna X3 connects to our reliable, lightweight switch-mode power supply and interface box.

## S/Z switch

Used to set the direction of rotation, or to activate the stand-by mode.

## Pneumatic threading

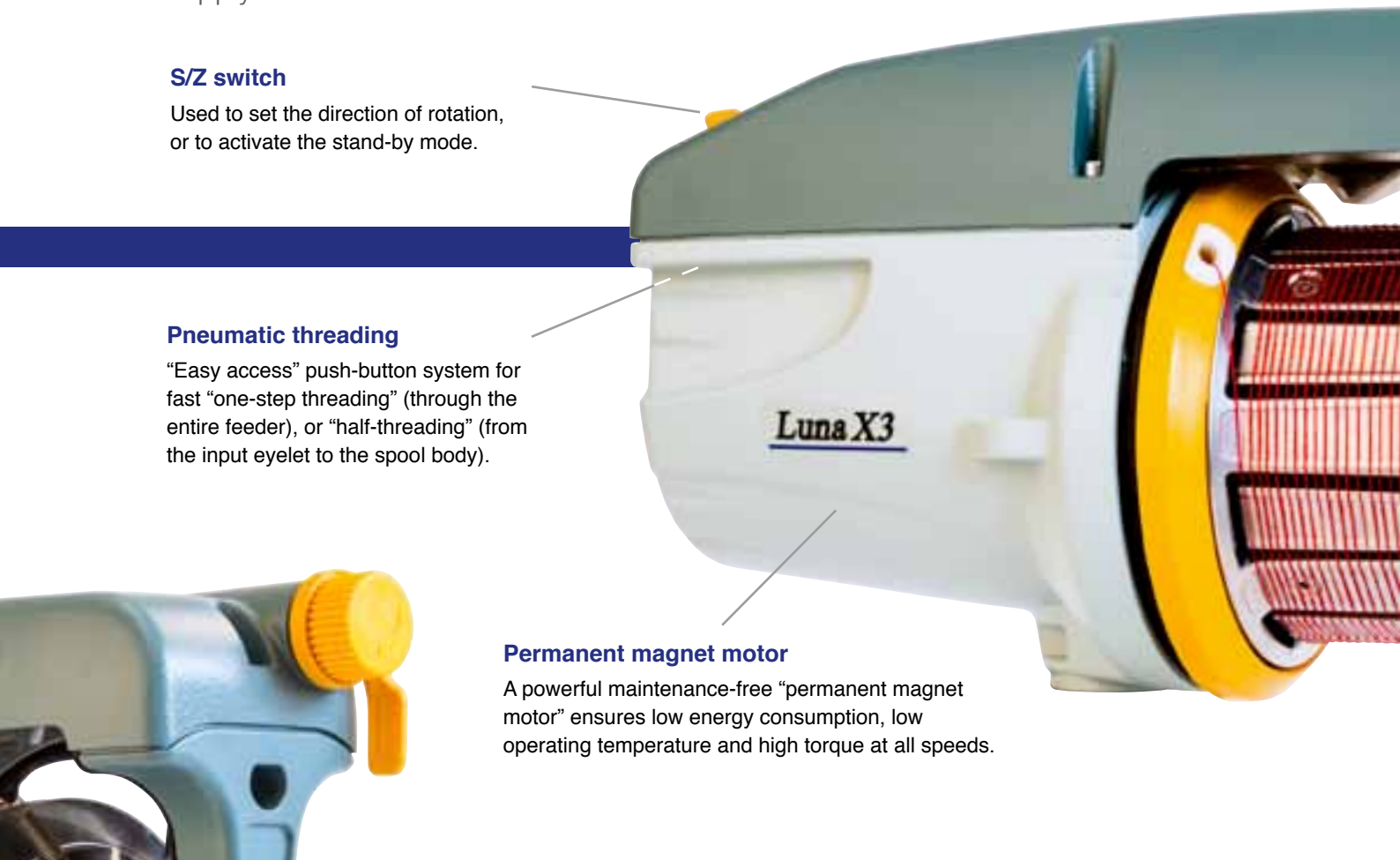
“Easy access” push-button system for fast “one-step threading” (through the entire feeder), or “half-threading” (from the input eyelet to the spool body).

## Permanent magnet motor

A powerful maintenance-free “permanent magnet motor” ensures low energy consumption, low operating temperature and high torque at all speeds.

## Features

- Mechanical or Optical sensor systems
- Fully automatic “intelligent” speed control
- CAN communication system
- Powerful PM (permanent magnet) motor
- Extremely low energy consumption
- Switch mode power supply
- Multiple yarn store sensors
- Integrated yarn break sensor
- Stepless yarn separation up to 2,7 mm
- Wide yarn count range
- User-friendly design
- Sealed spool body
- Insertion speed up to 1800 m/min
- Low operating temperature
- Accessory communications bus
- Controlled tensioner (TEC)\*





### Optical or mechanical sensor system

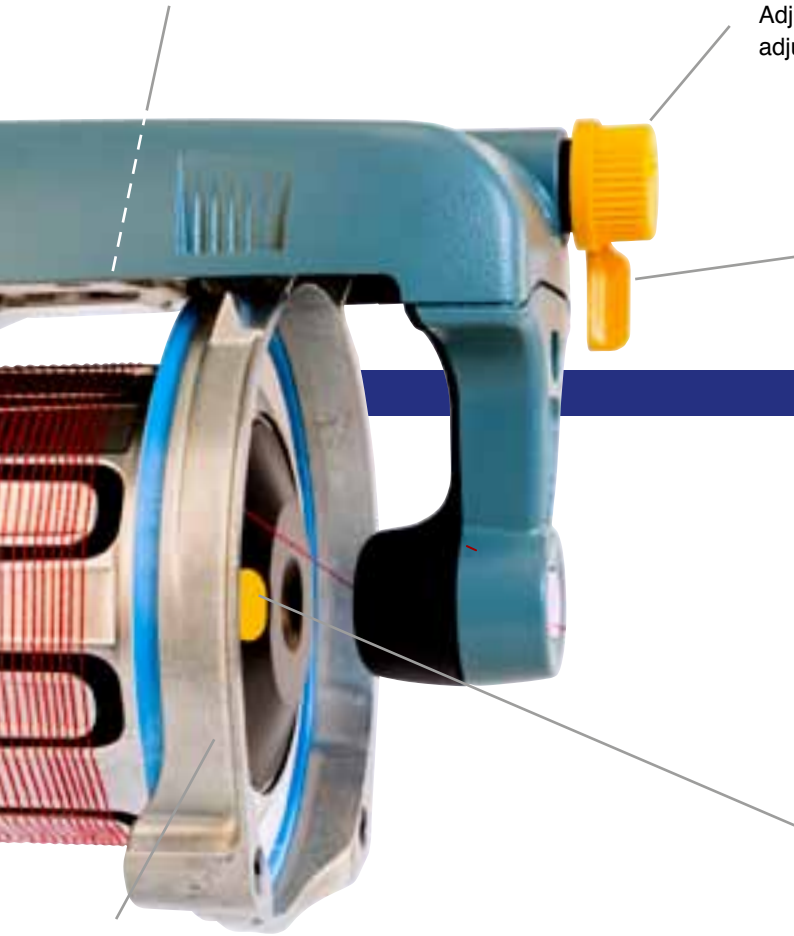
“Mechanical” or “optical” sensor systems (including an integrated yarn break sensor), ensures precise yarn reserve control.

### Easy balloon adjustment

Adjustable knob for easy and precise brushing adjustment – even when the feeder is running.

### Quick release

Releases the brushing holder in one single turn for easy handling if a yarn break occurs, or for quick and easy braking element replacement.



### Spool body

The special designed high quality surface treated spool body gently handles a wide range of yarns and offers lowest yarn take-of tension and minimized dust collection

### Electronics / accessories

With the high-speed CAN communication system, a range of “intelligent” accessories (operating as an integral part of the feeder) are available.

### Separation setting

Stepless yarn separation adjustment - without the need for any tools.

### Technical specifications

Maximum speed	1800 m/min
Yarn count range	120 - 1,5 Nm and 22 - 4000 dTex
Winding direction	“S” and “Z”
Yarn separation	2,7 mm
Sensor systems	Optical or mechanical
Spoolbody diameter	110 mm
Dimensions	190 mm height 345 mm length, 150 mm width,
Weight	6,2 kg

- S-Flex, new innovative compensating tensioner and balloon control\*
  - Flex-Brake\*
  - Lamella tensioner\*
  - Coaxial output tensioner (CAT)\*
  - Complete “one-step” pneumatic threading\*
- \* = optional

**VAN DE WIELE**  
CARPET AND VELVET WEAVING MACHINES



**BONAS**  
ELECTRONIC JACQUARDS



**TITAN**  
FINISHING MACHINERY



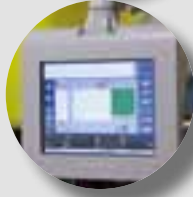
# innovation through creativity



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FEEDERS



**ROJ**  
FEEDERS/CONTROLLERS



**ir**  
MEMMINGER-IRO  
KNITTING TECHNOLOGY



**PROTECHNA**  
QUALITY ASSURANCE FOR TEXTILES



**Aros electronics AB**  
MOTORS & DRIVES



We share our knowledge and expertise  
in the broad area of textile technology.

Due to research and development,  
in a close relationship with our customers,  
the Van de Wiele group offers  
a comprehensive range of equipment  
designed to meet the ever growing demands  
of the textile industry such as the knitting  
industry, pile and flat weaving, weaving and  
knitting accessories, finishing equipment,  
frame weaving, control systems, ...

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