

HERCULES

itematech

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PYUNG - AN
DIGITAL

Hercules Rapiere Weaving Machine





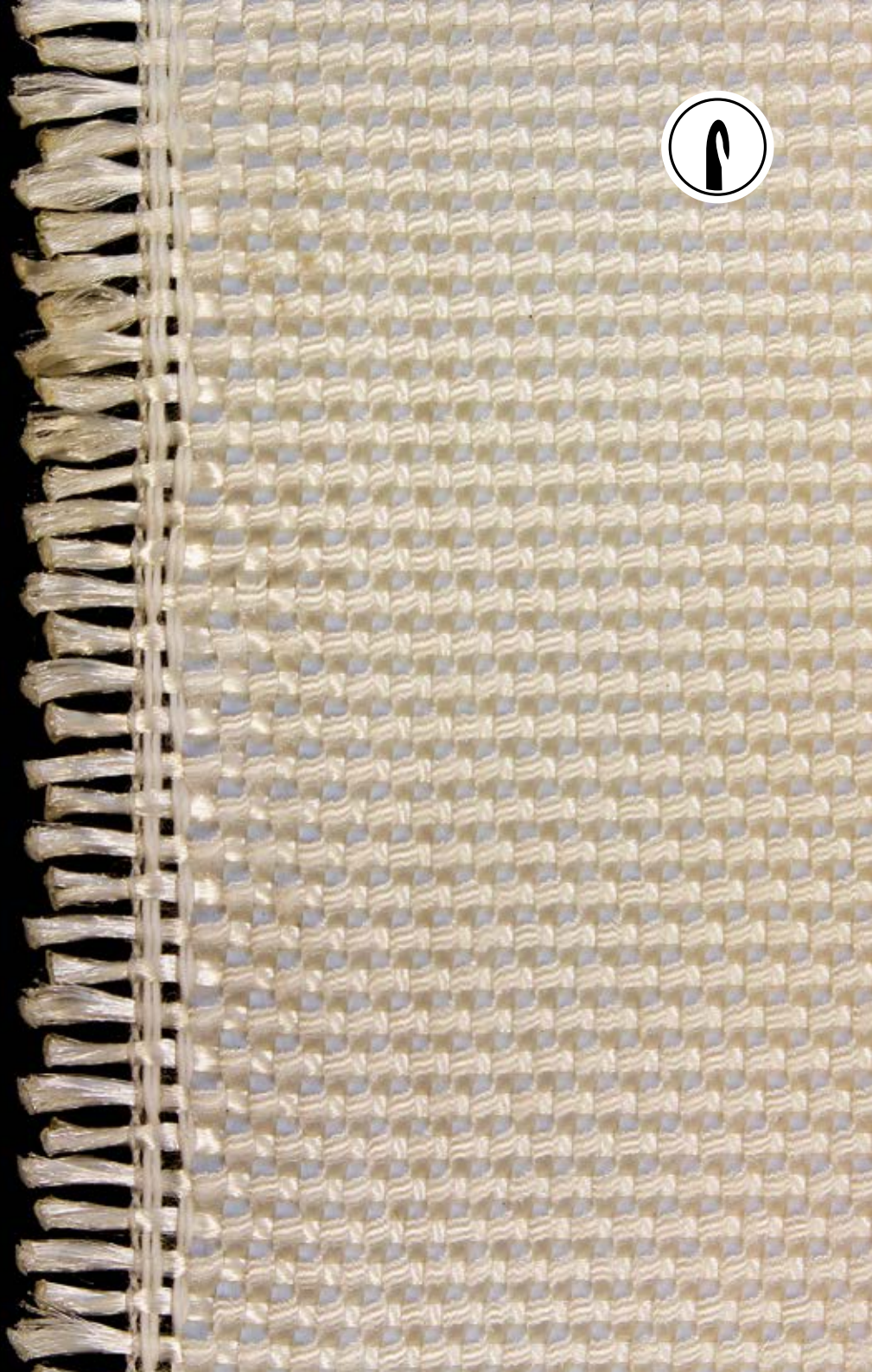
Hercules: conceived and designed for applications in all technical textile fields. A perfect combination of mechanical characteristics and functionality for greater profitability.

Hercules is the ideal tool for any who want to produce the most demanding technical textiles simply, confident of the results. High performance combines with extraordinary textile efficiency and amazing reliability to ensure high productivity and profitability in every area. Based on an extremely solid yet equally manageable structure, the unique insertion system, with a choice of positive or negative rapier, guarantees an incomparable ability to work each weft yarn, with yarn counts from 10 up to 48,000 dTex, in single or multiple insertions. The warp to fabric path uses devices that are perfectly suited to ensure the machine's maximum flexibility and precision with both extremely heavy and dense fabrics or with rigid and low-density yarns.

Each detail, each device is the result of great weaving experience, ensuring optimal set-up in even the most demanding work conditions, cutting down on adjustment time and system complexity.

Hercules: performance and reliability with ease.

HERCULES



Outstanding Combination of Power and Sensitivity

Unparalleled Flexibility

The unique Panter insertion system allows positive or negative rapier changeover simply and quickly, guaranteeing Hercules the greatest flexibility, optimising overall machine performance. It benefits productivity or alternatively means use of the greatest employable yarn range, from 10 to 48,000 dTex.

Enhanced Beating Force

Production of extremely heavy textiles is made possible thanks to an exceptionally stiff structure and reinforced sley, ensuring high beating power, up to 50,000 N/m. The new shed with wider reed stroke reduces the shed contraction effect, increasing the achievable cover factor limit.

Rapier Drive System

A distinctive feature of Hercules, the matchless Panter kinematic mechanism with a reduced rapier extra run (stroke), means the weft can be controlled perfectly at the end of the insertion cycle, guaranteeing a weaving width of up to 6.2 metres, high efficiency and absolute textile quality.

Multiple Back-Rest Options

The ULTRA backrest is a fundamental element to facilitate manufacture of low-density (geogrid, net) or extremely heavy (filters) textiles, and those with stiff fibres (glass fiber, aramidic fibers) and speed up set up in different conditions. The low mass reading cylinder and the exceptionally rigid structure give this critical gear great sensitivity and strength.

Available with fixed or rotating cylinders, smooth or satin finished and oversize compensation arms for stiff fibres, the backrests are suitable for the widest requirement range.

Full Electronic Machine Control

A powerful, reliable electronic control and command system, with double processor, drives the multi-axis machine architecture and manages all the different motorised devices.

User-Friendly and Powerful Electronic Platform

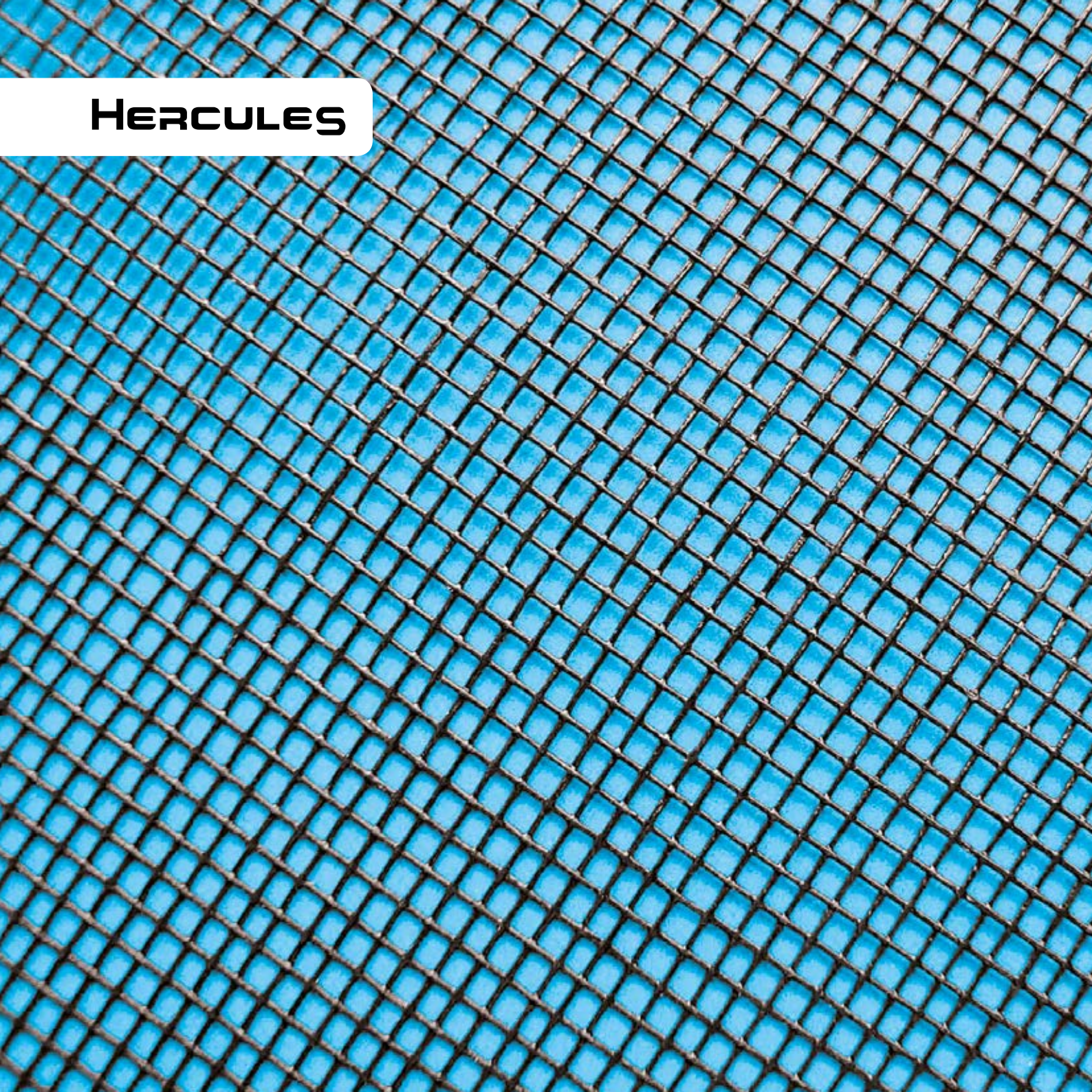
As an option, Hercules can be equipped with the innovative, powerful electronic system, designed together with one of the worldwide major company in the automation field, B&R.

A complete and intuitive interface, able to manage all the machines functions with a simple touch, guaranteeing the greatest range of connections, exploiting the benefits of modern ICT systems.

Designed on Your Weaving Needs

Hercules comes from the specific combinations of choices available among Panter's technological solution platforms: therefore there is enormous scope to tailor the machines to meet any and every production need.

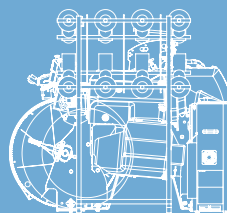
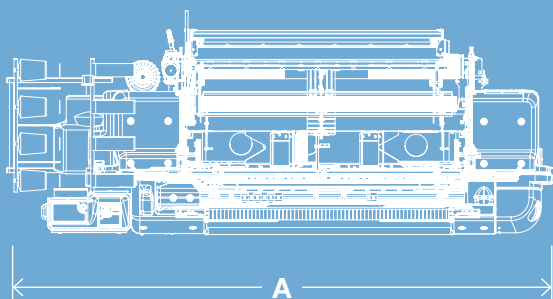
HERCULES







Machine width (A)	Nominal width
4400 mm	1600 mm
4700 mm	1900 mm
4900 mm	2100 mm
5100 mm	2300 mm
5200 mm	2400 mm
5400 mm	2600 mm
5600 mm	2800 mm
5800 mm	3000 mm
6000 mm	3200 mm
6200 mm	3400 mm
6400 mm	3600 mm
6600 mm	3800 mm
7200 mm	4400 mm
7400 mm	4600 mm
8300 mm	5500 mm
9000 mm	6200 mm



Hercules at a glance

MAIN MACHINE SPECIFICATIONS

Nominal Machine Width (cm)	160, 190, 210, 230, 240, 260, 280, 300, 320, 340, 360, 380, 440, 460, 550, 620
Weaving Width (cm)	Maximum weaving width +60 mm
	Width reduction 600 mm (standard); or 1000 mm (optional); over 1000 reduction as special version
	Asymmetric reduction 300 mm on rhs

SHED FORMATION

Stäubli electronic dobby type 3020 for 8-10-12-16-20 frames

Electronic Jacquard

FRAME CONNECTION

DRC1 Standard

DRC4 (QSC solution) Optional

COLORS

1, 2, 4, 6 or 8 colors freely programmable

WEFT DENSITY

5–200/cm Standard

2–100/cm or 0.2–50/cm Optional

BEAM ARRANGEMENT

Single for 800 or 1000 mm flanges

Twin (from w. 260) for 800 or 1000 mm flanges

Double beam on floor, 700+500 mm

Top beam for 800 or 1000 mm flanges

Multiple beam on request

Lower or upper calender

RACEBOARD

Guided with different shaped hooks

BACK-REST ROLLER

“Ultra” version

Overall tension reading system by loadcell

Fixed or rotating, chrom plated or “satin” finish cylinders

Increased compensation version for stiff yarns

SELVEDGES

Independent mechanical leno devices for 2 or 4 ends, lateral and central

Mechanical cutters, lateral and central

MAIN OPTIONS

Motorized leno devices for 2 or 4 ends, lateral and central

Motorized cutters, lateral and central

Thermal cutters for welded selvedges

Tuck-in selvedge devices, lateral and central

Arrangement for external batcher

LED lighting for reed area

ELECTRONICS

Stäubli control unit with dual processor Standard

New generation system with VGA MMI Optional

HERCULES



Itematech

Itematech brings together the strong know-how resulting from the merger of Itema and PTMT (formerly Panter) expertise and competences to provide the market with the most comprehensive weaving portfolio to weave technical fabrics and the most skilled and experienced technical textiles team in the industry.

Technical fabrics manufacturers will now on find in Itematech a unique partner and technological reference point to meet and exceed all their needs when it comes to weaving the full range of technical applications.

For more information about Itematech, to contact our Sales Team in your country, to learn more about our weaving machines or to order spare parts, please visit our website **www.itematech.com**.



A large blue diagonal banner is the central focus. Above and below it are several rectangular panels showing different types of technical fabrics, including woven meshes, ribbed structures, and textured surfaces. The background is white.

Itematech is the brand-new Iteima business unit exclusively dedicated to technical fabrics. Unique in the industry, Itematech leverages the expertise and know-how of Iteima and Panter technology to provide the market with the widest range of best-in-class technological solutions to weave technical fabrics.



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