

3.2 Textile timeline

5000 BCE	Cultivation of flax, Nile Valley, Mesopotamia	1743	Three-colour printing machine, Keen & Platt, England
	Cultivation of ramie (nettle family),	1750-60	Dropbox loom, Robert Kay, England
4500 BCE	Egypt and China Vertical loom, spindle and woven	1764	Spinning Jenny, James Hargreaves, England
	fabrics, Egypt Cultivation of hemp, South-East Asia	1769	Water frame and water-powered loom, Sir Richard Arkwright, England
3000 BCE	Cultivation of cotton, Indus region,		Silk point net, Robert Frost, England
	India	1770s	Perpetual carding introduced, based
2640 BCE	Development of sericulture and spinning, China	1775	on idea of Lewis Paul, England First warp knitting machine, England
2500 BCE	Dyed fabrics, India	1779	Spinning Mule, based on Spinning
2000 BCE	Cultivation of wool, Mesopotamia		Jenny and water frame to make fine
450 BCE	Brocade invented, China		muslins, Samuel Crompton, England
436 BCE	Asbestos, used as lamp wicks, Greece	1783	Roller printing, Thomas Bell, Scotland
1 BCE	Drawloom, warp yarns, hence variety of patterns, Egypt	1784	Ropemaking machine, Richard March, England
1 CE	Satin invented, China	1785	Chlorine used as bleach, Claude-Louis
300	Dacca muslin, India		Berthollet, France
500-600	Batik introduced to Java, Indonesia,		Turkey red dye, Charles Taylor, England
	from India or Sri Lanka		First power loom, machine comb, Edmund Cartwright, England
1197	The Law of Cloth fixed a standard for manufacture, size and quality of woollen fabric in Britain	1787	Patented mill or machine for spinning yarn from hemp, tow, flax or wool,
1490	Spinning wheel, Leonardo da Vinci, Italy		John Kendrew and Thomas Porthouse, England
1530	Continuous spinning wheel, Johann Jürgen, Germany	1789	Liquid chlorine bleach (Javelle water), France
1535	Denier system for silk introduced,	1 7 90s	Spinning Mule now using 400 spindles
1000	France	1792	Cotton Gin, Eli Whitney, USA, start of US prosperity
1545	Steel needles being used	1799	New bleaching powder, MacIntosh &
1575	Pile weaving introduced, India	1,,,,	Tennant, Scotland
1589	Stocking frame, William Lee, England	1801	Merino flock, John Macarthur, Australia
1670	First commercial stocking frame,	1806	Jacquard loom, Joseph Marie, France
4.04	England	1808	Bobbin net machine, John Heathcote,
1681	Ready-made clothing concept, England		England
1700s	Bleached linen fabrics with horse chestnut extract used	1813	Levers loom for machine lace, John Levers, England
1733	Flying shuttle, John Kay, England	1820	Patent rubber elastic, Thomas
1742	First cotton mill, Birmingham, England		Hancock, England

1821	Dress silk machine, Bauwens & Didelot, France	1890	Mercerising process, Horace Lowe, England
1823	Waterproof fabrics, Charles Macintosh, Scotland	1892	Viscose discovered by Cross, Bevan & Beadle, England
1825	Wet spinning of linen, Thomas Kay,	1893	Zipper, Whitcomb Judson, USA
1828	England Blackburn loom, William Dickinson,	1900	Chlorination of wool, shrink and felt proof introduced
1830	England Chain stitch machine, Bartholemy	1904	Viscose production, artificial fibres, Courtauld, England
	Thimonier, France Brass hooks and eyes replaced copper,	1905	Textile mills switch to electric power, England
	England	1913	Zipper used by US army
1833	Trade union formed by Robert Owen,	1921	Acetate, British Celanese Ltd
4007	Scotland	1924	'Rayon' was adopted as the name for
1834	Lockstitch machine, Walter Hunt, USA		viscose in the USA
1837	First elastic-sided boot, Joseph Sparkes Hall, England	1928	Crease-proof cotton developed by Broadhurst, Lee & Co, England
1838	Flax hackling machine, J Wordsworth, England		Dry-cleaning with white spirit, William Joseph Stoddard, USA
1840	Snap fasteners used on theatrical	1930	Hydrogen peroxide used as bleach
1846	costumes for quick access, Europe Cotton comb, Josue Heilmann, England		Neoprene, a synthetic rubber fabric, DuPont, USA
	Lockstitch machine patented by Elias	1931	Glass fibres used in textiles
1849	Howe, USA Safety pin, Walter Hunt, USA	1934	Polyvynl chloride (PVC), Shia Viscosa, Italy
1853	Noble comb for wool, James Noble and George Edmund Donisthorpe, England	1935	Casein fabric, a milk-based fibre with properties similar to wool, patented in
1854	First textile mill in Bombay, India		Italy
1855	Artificial silk, Georges Audemars,	1938	Nylon, DuPont, USA
	Switzerland	1940	First nylon stockings
1856	Synthetic aniline purple dye, William Perkin, England	1941	Polyester fibres, Dickson & Whinfield, England
1859	Opening of Suez Canal	1946	Lurex, Dow Chemical Co, USA
1859–63	Flat bedknitting machine, Raschel, Germany	1948	Velcro, George de Mestral, Switzerland
1864	Fully fashioned knitting machine,	1951	Modacrylic fibres, Union Carbide Chemical Co, USA
	William Cotton, England Introduction of circular knitting	1953	Polyester fibres, DuPont, USA
1867	Diamonds discovered in South Africa		Commercialisation of polyester fibres
1870s	Chemical lace or guipure machine lace		introduces the concepts of 'drip dry' and 'non-iron'
10703	invented	1954	Washable non-iron wool fabrics,
1873	Denim jeans with reinforced copper	. 7 🗸	Dr AJ Farnworth, Australia
	rivets, Jacob W Davis, USA		Triacetate fibres, Celanese, England
1880	Metric numbering system introduced for wool, France	1956	Polynosic rayon, Tachikawa, Japan
1889	Chardonnet silk, Count Chardonnet, France		Lycra, first elastic fibre not based on rubber, DuPont, USA

1959	First commercial production of Spandex fibre, DuPont, USA	2000s	Seacell, related to Lyocell, based on a small percentage of seaweed. Said to protect the skin and help absorb nutrients, Nanonic Inc, USA
1967	Carbon fibres developed		
1969	Gore-Tex, a waterproof, breathable fabric created by stretching rods of polytetrafluoroethylene (PTFE), Wilbert and Robert Gore, USA		Lamous, microfibres used to produce a strong suede-like, environmentally friendly fabric, Asahi Kasei, Japan
1972	Lyocell, a type of rayon made from bleached wood pulp, Enka, USA	2003	Bamboo textiles using certified organic bamboo, Hebei Jigao Chemical Fibre Co, China
1981	Chitin fibre, made from crab shells obtained from food manufacturers, Unitaka Ltd, Japan	2009	Fashion designer Iris van Herpen makes her first laser-cut dress
1986	Coolmax, the original moisture- management fabric, DuPont, USA	2010	Nano-surfaced fibre, soil repellent, Hohenstein Institute and ITCF Denkendorf, Germany
1990	Tencel, made from fibres extracted from woodchips, Courthaulds Fibres, USA	2017	Reversible fabric that can either warm or cool wearers, Stanford University, USA
2000	Sorona, a fabric containing 20–37% cornstarch, DuPont, USA		