

Ls dyna finite element analysis software

Specifications:

- Software for finite element analysis
- Must have the capability of Nonlinear Structural Analysis
- Including Workbench Integration
- Element and Contact Combinations
- Three-year license
- 24 hour web portal access

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Wisetex textile designing software

Specifications:

- Software for general modelling of geometry and deformability of textile structures, including 3D imaging.
- Integrated Textile Preprocessor for meso-mechanical, hydrodynamical and finite elements software packages providing description of the internal geometry and mechanical behaviour of textile structures.
- Geometrical modelling and simulation of behaviour of textile reinforcements in compression, bi-axial tension and shear (structures: woven 2D and 3D, 2D braids with/without inlays, UD, stitched multi-axial multi-ply preforms) – *WiseTex.exe*
- Geometrical modelling of laminated reinforcements – *LamTex.exe*
- Geometrical modelling of weft-knit fabrics – *WeftKnit.exe*
- Export of the geometrical models to ANSYS finite element software (some textiles structures mentioned above are only partially covered by this) – *FETex.exe*



Workstation computer

Specifications: (Initial)

Parts	Description
Operating system	Windows 10
Processor	Intel Xeon E5-2680 v4, 14 core or higher
RAM	1TB DDR4-2400 ECC SDRAM or similar
Storage	4 TB SSD or higher
Keyboard /mouse	Optical/USB operated of a similar brand
LED	27" or above with Ultra-high definition display
Warranty	3 year manufacturer warranty
Graphic card	NVIDIA 24 GB graphic card OR SIMILAR
Miscellaneous	Online Power backup system Compatible to run finite element analysis software (Ansys, LsDyna, Comsol Multiphysics, abaqus or similar) Integrated audio system 9.5mm Slim DVD Proper cooling and exhaust system

Only branded manufacturer assembled system will be accepted

Yari

Semi-automatic sample weaving Loom

Specifications:

- Number of frames: 16 or higher
- Shedding system: Dobby
- Pneumatic lifting/lowering of frames
- Picking and beat up: Manual/Automatic
- Controlled let off and take up (optional)
- Warping beam capacity: 3 metres or higher

Y. L. L.

Ballistic precision chronograph

Specifications: (Initial)

- At least 18 inch sensor spacing for accuracy
- Built in LED light kit
- Bluetooth to interface with smartphone
- Rechargeable battery
- Carry bag included
- Calibrated to within +/- 0.25% accuracy
- Heavy Duty Height Adjustable from 3ft to 30ft Tripod
- Should read all calibers of Firearms and Airgun
- Should read from Archery, Paintball also
- Meters Per Second (MPS) or Feet Per Second (FPS) readings
- App displays velocity, logs data, notes, weather conditions
- Readable velocity range should be 5fps to 9999fps
- Sunshades and rods
- Required in duplicate, for simultaneous measurement before impact and after impact on the target

Yair

Kevlar Yarn

Specifications: (Initial)

- Material: Para Aramid
- Type: filament yarn.
- Yarn linear density: 50 to 1000 denier
- Quantity 45 kgs approximately

Yarn

HDPE Yarn

Specifications: (Initial)

- Material: High Density Polyethylene
- Type: filament yarn.
- Yarn linear density: 50 to 1000 denier
- Quantity 55 kgs approximately

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yarn

Ceramic plates

Specifications: (Initial)

- Silicon carbide hexagonal tile *or similar*
Size: 30mm*4mm
Quantity 2000 pieces
- Silicon carbide rectangle tile
Size: 50mm*50mm*4mm
Quantity 600 pieces

Yari