

jBEAM Durability

Type 2842A

Software for data analysis, visualization and report generation for durability testing

jBEAM Durability is a software for data analysis, visualization and report generation specifically targeted at durability testing. With jBEAM measurement data analysis is made easy.

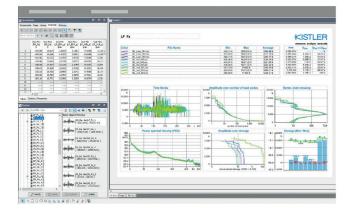
The benefits of jBEAM Durability:

- Better and faster analysis of your data thanks to perfect presentation through extensive visualization tools
- Accomplish the required analysis quickly and efficiently with the interactive toolset
- Save time for creating reports with the automated reporting in different standard file formats
- Powerful calculations to simplify your durability workflows

Description

jBEAM Durability is a comprehensive post-processing software with extensive analysis, visualization and reporting capabilities. With its platform independence and multi-language support, durability customers worldwide use the software for quick analysis as well as for managing complex projects. jBEAM supports the import of multiple measurement file formats commonly used in durability testing as well as multimedia formats to combine your measurement data with images, audio, and video. The extensive analysis functions range from simple arithmetic operations, curve analysis and FFT calculations to matrix operations, signal filters, statistics, spike detection and load spectra. With comprehensive visualization capabilities ranging from simple text, forms and tables to all types of 2D and 3D graphs, there is always a suitable format to display your measurement data and analysis results. You can also use the controls to create interactive visualizations and reports.

jBEAM Durability is available in Starter, Professional and Ultimate editions as a single user, dongle or floating license that can be used by multiple users on the same network. With the command line interface, folder and file watching, and script support, there are also several options for automating the analysis functionality. For a comparison of the three available variants, please see the section "Technical data".



System requirements and recommendations

The system requirements for jBEAM Durability Starter/Professional/Ultimate very much depend on your analysis needs. The following system configuration is recommended for a setup that covers most use cases:

Operating system	Windows 10 or 11
	Linux
	MacOS (Intel-based)
Processor	Intel Core i5-7500,
	2.7 GHz or better (recommended)
Memory	4 GB (minimum)
Mass storage	SSD (recommended)
	2 GB free disk space for installation
	(minimum)
Display resolution	1920 x 1080 / full HD (recommended)

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Technical data

		Starter	Professional	Ultimate
Data import				
Data file	AFT-4Measure (txt)			✓
	ASAM-MDF (v3/ v4) (mdf, dat)	✓	✓	✓
	ASAM ODS (atf, atfx)			✓
	ASCII (txt, csv,)	✓	✓	✓
	ASCII-Matrix		✓	✓
	AVL iFile			✓
	Catalog Container (cml)		✓	✓
	Clipboard import	✓	✓	✓
	DASYLab v7		✓	✓
	dBase v3-v5			✓
	DCM (BOSCH)			✓
	DeweSoft (d7d, d7x, dxd)		✓	✓
	DIAdem™ (dat, tdm, tdms)			✓
	DiagRA Vehicle Diagnostics			✓
	EdasWin			✓
	FAMOS (fam, dat, raw)		✓	✓
	Gantner Universal-Bin-File			✓
	HBM Catman (bin)		✓	✓
	HBM MGCplus-Harddisk files			
	HBM Perception (pnrf)		✓	✓
	Hioki HiCORDER (mem)			✓
	INCA CVX (csv)			✓
	ISO 13499 (mme)			✓
	Kistler Andromeda Data File (adf)	✓		✓
	Kistler Como (ComoNeo, ComoScout, CDC, AkvisIO) (CSV)	✓	✓	✓
	Kistler HIS Combustion Indexing	✓	✓	✓
	Kistler KiBox 2 (mdf)	✓	✓	
	Kistler maXYmos (csv)	✓		✓
	Kistler Open File (open)	✓		✓
	LabVIEW™ (lvm)		✓	✓
	LMS Test Lab (tdf)		✓	✓
	LS-Dyna (dat)			✓
	Matlab (mat)		✓	✓
	messWERK (adf)			✓
	Microsoft Access (MDB)			 ✓
	Microsoft Excel (xls, xlsx)	✓		 ✓
	MTS Damper System (dpd, dpb)		✓	 ✓
	MTS RPC III (rpc, rsp, drv)	√	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	NetCDF (cdf, nc, nc2, he5)			 ✓
	Nicolet (wft)			 ✓

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		Starter	Professional	Ultimate
	Nicolet FT-IR Spectral Data File (spa)			✓
	PAtools (Kratzer)			✓
	PerkinElmer (tma)			✓
	PerkinElmer Pyris data analysis file (txt)			✓
	Q-DAS (dfq)	~	✓	✓
	Racelogic VBox (aft)		✓	✓
	Rigsys (Instron IST)		✓	✓
	Rohde & Schwarz			✓
	Somat (sie, sit, sif)		✓	✓
	Tecplot			✓
	Tektronix ISF			✓
	Uniplot-UTX (dat, adl, tdl)			✓
	Universal File Format (15 & 58) (unv, uff)		✓	✓
	Vehicle Bus Files CAN/ LIN (blf, asc, dbc)		✓	✓
	Yokogawa (hdr, wdf)			✓
	Zwick (erg)		✓	✓
	Zwick testXpert (zs2)			✓
GPS data	FAI (igc)			✓
	Garmin (fit)		✓	✓
	Garmin-Database-File (hst, tcx, crs)		✓	✓
	Google (kml)		✓	✓
	GPS Exchange (gpx)		✓	✓
	NMEA (gps)		✓	✓
Database	ASAM-ODS			✓
Multimedia	Audio (au, rmf, mid, wav, aif, aiff)	✓	✓	✓
	Audio recording			✓
	Converter numeric channel to playable audio signal			✓
	DIAS Infrared video (irdx)		✓	✓
	G Streamer Video Technology		✓	✓
	Images (bmp, gif, jpeg, jpg, png, svg, wbmp)	✓	✓	✓
	Video (avi, mpg, mov, mp4, m4v)		✓	✓
	Video recording			✓
Layouts	DIAdom IM Version 0			
	DIAdem™ Version 9			
			✓	✓ ✓
	jBEAM XML Layout (import & export)			
	Multilanguage Protocol-Layouts	✓ ✓	✓ ✓	
	Page Management	✓ ✓	✓	✓
	Sublayout Management	✓	\checkmark	✓



		Starter	Professional	Ultimate
Data export				
Data file	ASAM-MDF (mdf)	✓	✓	✓
	ASAM-ODS (atf, atfx)			✓
	ASCII	✓	✓	✓
	Catalog Export		✓	✓
	DIAdem™ v8 (dat) & v9 (tdm)		✓	✓
	GPS Exchange Format (gpx)		✓	✓
	ISO 13499 (mme)			✓
	Matlab		✓	✓
	Microsoft Excel (xls, xlsx)		✓	✓
	Microsoft Excel with template (xls, xlsx)		✓	✓
	NetCDF			✓
	Rigsys (Instron IST)		✓	√
	RPCIII	~	✓	✓
	Tecplot			✓
Report	Graphics (png, jpeg, svg)		✓	✓
	HTML pages		✓	✓
	Microsoft Excel (table graphs)		×	✓
	Microsoft Powerpoint (pptx)		✓	✓
	Microsoft Word document		✓	✓
	PDF document (high resolution)	✓	✓	✓
	SVG File		✓	✓
	Screen video (recording of dynamic analysis)			\checkmark
Automation				
Importer utilities	Channel name and unit mapping	✓	✓	✓
	Datasource manager		✓	✓
	Importer cleaner		✓	\checkmark
	Import-File watcher		✓	✓
	Multi-File importer		✓	✓
Measurement				
Measurement modules	ASAM-MDF logger			✓
	Gantner-IDL100, eBloxx or e-Gate			✓
	HBM QuantumX			✓
	NI-DAQ			✓
	Online signal editor			✓
	OPC UA			✓
	Vector CAN module (Vector hardware needed)			✓

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		Starter	Professional	Ultimate
Calculations				
Calculation templates	Group of calculations		✓	✓
Arithmetic	Bit calculations, boolean algebra with relations, FlipFlops		✓	✓
	Coordinate transformation (polar \leftrightarrow cartesian)		✓	✓
	Formula editor for numeric channels (line by line)	✓	✓	✓
	Formula editor for numeric objects	✓	✓	✓
	Formula editor with text resolver		✓	✓
	Integration, Derivative, Double-Integration	✓	✓	✓
	Matlab wrapper		✓	✓
	User-defined Java calculations class (needs JDK)		✓	✓
	User-defined Java function (needs JDK)		✓	✓
	X-values, Pythagoras	~	✓	✓
Curve calculations	Complex channel extractor			√
	Envelope curve	~	✓	✓
	Integration of hysteresis curves		✓	√
	Least Mean Square fit	~	✓	√
	Manual channel adjustment		✓	✓
	Memory		✓	√
	Move tests		✓	✓
	Offset and drift correction		✓	✓
	Partial curve (controlled)		✓	√
	Resample angle-based		✓	✓
	Resampling		✓	✓
	Resolve Newton formula		✓	✓
	Signal calibration		✓	✓
	Sort channel values		✓	✓
	Spike correction		✓	✓
	Split channel by date		✓	✓
	Split channel into matrix		✓	✓
	Synchronize curves		✓	√
	Synchronize via time channel (date/ time)		✓	✓
	Synchronize hysteresis curves		✓	✓
	Visual Signal Editor		✓	✓
	X-data change		✓	✓
	Y (X) synchronization		✓	✓
Curve analysis	Compression work			✓
	Correlation of 2 signals	✓	✓	✓
	Elastic modules (E-Modulus)	✓	✓	✓
	Gearwheel analysis	✓	✓	✓
	Multiple events analysis	✓	✓	✓
	Peak area detection	√	✓	✓

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Auto spectrumImage: spectrumImage: spectrumComberence quotientImage: spectrumImage: spectrumConvolutionImage: spectrumImage: spectrumCross correlationImage: spectrumImage: spectrumCross spectrumImage: spectrumImage: spectrumEffective value of an oscillation (RMS)Image: spectrumImage: spectrum (amplitude & phase)Image: spectrum (amplitude & phase)<			Starter	Professional	Ultimate
Plausibility of hannels✓✓✓Step - response✓✓✓Value ranges around boolean trigger✓✓✓Value ranges around boolean trigger✓✓✓Auto spectrum✓✓✓✓Auto spectrum✓✓✓✓Conherence quotient✓✓✓✓Consolution✓✓✓✓Consolution✓✓✓✓Cross corelation✓✓✓✓Cross spectrum✓✓✓✓Invesse FFT✓✓✓✓Invesse FFT✓✓✓✓Order analysis✓✓✓✓Spectrogran & Waterfall digrams✓✓✓✓Ter/ Cotave analysis (FFT-based)✓✓✓✓Signal filtersAnalog filters (Butterworth, Bessel, Chebyshev)✓✓✓Signal filtersAnalog filters (Butterworth, Bessel, Chebyshev)✓✓✓Signal filtersAnalog filter (FF-based)✓✓✓IFIer edfort (FF-based)✓✓✓✓IFIer edfort (FF-based)✓✓✓✓Universal signal filter✓✓✓✓IFIer edfort (FF-based)✓✓✓✓IFIer edfort (FF-based)✓✓✓✓Universal signal filter✓✓✓✓Universal signal filt		Peak detection	✓	✓	✓
Step - responseValue ranges around boolean trigger<		Plateau analysis	✓	✓	✓
Value ranges around boolean triggerIIIAuto correlationIIIIAuto spectrumIIIIIConherence quotentIIIIIConvolutionIIIIIICross correlationIIIIIICross spectrumIIIIIIIEffective value of an oscillation (RMS)II <tdi< td="">III<!--</td--><td></td><td>Plausibility of channels</td><td>\checkmark</td><td>✓</td><td>✓</td></tdi<>		Plausibility of channels	\checkmark	✓	✓
Vibration analysis (FFT)Auto correlationImage: sectionImage: section <td></td> <td>Step - response</td> <td></td> <td>✓</td> <td>✓</td>		Step - response		✓	✓
Auto spectrumImage: Conherence quotientImage: Conherence quotientImage: ConvolutionImage: Convolution <td></td> <td>Value ranges around boolean trigger</td> <td>✓</td> <td>✓</td> <td>✓</td>		Value ranges around boolean trigger	✓	✓	✓
Conherence quotientImage: statistical valuesImage: statistical valuesImage: statistical valuesImage: statistical valuesImage: value of an oscillation (RMS)Image: value statistical oscillation (RMS)Image: value statistical oscillation (RMS)Image: value statistical oscillation (RMS)Ima	Vibration analysis (FFT)	Auto correlation		✓	✓
Complex FFTImage: Complex FFTImage: Complex FFTConvolutionImage: Complex FFTImage: Complex FFTCross spectrumImage: Complex FFTEffective value of an oscillation (RMS)Image: Complex FFTImage: FFTImage: Complex FFTOrder analysisImage: Complex FFTCross spectrumImage: Complex FFTImage: FFTImage: Complex FFTImage: FFTImage: Complex FFTImage: FFTImage: Complex FFTSpectrogram & Waterfall diagramsImage: Complex FFTImage: FFTImage: Complex FFTSpectrogram & Waterfall diagramsImage: Complex FFTImage: FFT Spectrum (Amplex FFT-based)Image: Complex FFT-SpectrumSignal filtersAnalog filters (Butterworth, Bessel, Chebyshev)Image: Complex FFT-SpectrumSignal filtersImage: Complex FFT-SpectrumImage: Complex FFT-SpectrumImage: FFT SpectrumImage: Complex FFT-SpectrumImage: Complex FFT-Spectrum		Auto spectrum		✓	✓
ConvolutionImage: constructionImage: constructionCross correlationImage: constructionImage: constructionCross spectrumEffective value of an oscillation (RMS)Image: constructionEffective value of an oscillation (RMS)Image: constructionImage: constructionFFT spectrum (amplitude & phase)Image: constructionImage: constructionInverse FFTImage: constructionImage: constructionImage: constructionOrder analysisImage: constructionImage: constructionImage: constructionSpectrogram & Waterfall diagramsImage: constructionImage: constructionImage: constructionSignal filtersAnalog filters (Butterworth, Bessel, Chebyshev)Image: constructionImage: constructionImage: constructionSignal filtersAnalog filters (Butterworth, Bessel, Chebyshev)Image: constructionImage: constructionImage: constructionImage: Spectrogram & Waterfall diagramsImage: constructionImage: constructionImage: constructionImage: constructionImage: Spectrogram & Waterfall filterImage: constructionImage: constructionImage: constr		Conherence quotient		✓	√
Cross correlationImage: Cross spectrumImage: Cros spectrum <td></td> <td>Complex FFT</td> <td></td> <td>✓</td> <td>√</td>		Complex FFT		✓	√
Cross spectrumImage: spectrum (amplitude & phase)Image: spectrum (amplitude		Convolution		✓	✓
Effective value of an oscillation (RMS)Image: Amage: A		Cross correlation		✓	√
FFT spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Inverse FFTImage of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Order analysisReal FFTImage of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Spectrogram & Waterfall diagramsImage of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Spectrogram & Waterfall diagramsImage of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Signal filtersAnalog filters (Butterworth, Bessel, Chebyshev)Image of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Bandpass (FFT-based)Image of the spectrum (FT-based)Image of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)IsO 2631 filterImage of the spectrum (FT-based)Image of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)IsO 2631 filterImage of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)IsO 2631 filterImage of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)IsO 2631 filterImage of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Image of the spectrum (amplitude & phase)Iso 2645 <td></td> <td>Cross spectrum</td> <td></td> <td>~</td> <td>✓</td>		Cross spectrum		~	✓
Inverse FFT ////////////////////////////////////		Effective value of an oscillation (RMS)		✓	√
Order analysisImage: sector gram & Waterfall diagramsImage: sector gram & Gra		FFT spectrum (amplitude & phase)	✓	~	✓
Real FFTImage: Spectrogram & Waterfall diagramsImage: Spectrogram & Waterfall diagramsImage: Spectrogram & Waterfall diagramsTerz/ Octave analysis (FFT-based)Image: Spectrogram & Waterfall diagramsImage: Spectrogram & VectorSignal filtersAnalog filters (Butterworth, Bessel, Chebyshev)Image: Spectrogram & VectorBandpass (FFT-based)Image: Spectrogram & VectorImage: Spectrogram & VectorCFC filter (FFT-based)Image: Spectrogram & VectorImage: Spectrogram & VectorFilter editor (FFT-based)Image: Spectrogram & VectorImage: Spectrogram & VectorFIR filterImage: Spectrogram & VectorImage: Spectrogram & VectorISO 2631 filterImage: Spectrogram & VectorImage: Spectrogram & VectorMoving averageImage: Spectrogram & VectorImage: Spectrogram & VectorData filtersManual value filterImage: Spectrogram & VectorMatrix columns filter/sorterImage: Spectrogram & VectorImage: Spectrogram & VectorValue filterImage: Spectrogram & VectorImage: Spectrogram & VectorValue filterImage: Spectrogram & VectorImage: Spectrogram & VectorView on data objectsImage: Spectrogram & VectorImage: Spectrogram & VectorStatisticAppend values (statistical or formula)Image: Spectrogram & VectorBox-Whisker statisticImage: Spectrogram & VectorImage: Spectrogram & VectorBox-Whisker statisticImage: Spectrogram & VectorImage: Spectrogram & VectorBox-Whisker statisticImage: Spectrogram & VectorImage: Spectrogram & Vector <td></td> <td>Inverse FFT</td> <td></td> <td>~</td> <td>✓</td>		Inverse FFT		~	✓
Spectrogram & Waterfall diagramsInternal		Order analysis		~	✓
Terz/ Octave analysis (FFT-based)Image: Constraint of the section of th		Real FFT		✓	√
Signal filtersAnalog filters (Butterworth, Bessel, Chebyshev)Intervention <t< td=""><td></td><td>Spectrogram & Waterfall diagrams</td><td></td><td></td><td>✓</td></t<>		Spectrogram & Waterfall diagrams			✓
Bandpass (FFT-based)Image: mathematical constraints of the second const		Terz/ Octave analysis (FFT-based)		~	✓
CFC filter (FFT-based)IIIFilter editor (FFT-based)IIIIFIR filterISO 2631 filterIIIISO 2631 filterIIIIIMoving averageIIIIIUniversal signal filterIIIIIData filtersManual value filterIIIIData filtersManual value filter/sorterIIIISelectionsIIIIIIValue filterIIIIIIValue filterIIIIIIIIIIIIIIIIIIIIII <td>Signal filters</td> <td>Analog filters (Butterworth, Bessel, Chebyshev)</td> <td></td> <td></td> <td>✓</td>	Signal filters	Analog filters (Butterworth, Bessel, Chebyshev)			✓
Filter editor (FFT-based)Image: Constraint of the section of the sectio		Bandpass (FFT-based)		✓	√
FIR filterImage: Constraint of the second secon		CFC filter (FFT-based)		✓	✓
ISO 2631 filterISO 2631 filterISO 2631 filterMoving averageISO 2631 filterISO 2631 filterUniversal signal filterISO 2631 filterISO 2631 filterUniversal signal filterISO 2631 filterISO 2631 filterData filtersManual value filterISO 2631 filterMatrix columns filter/sorterISO 2631 filterISO 2631 filterSelectionsISO 2631 filterISO 2631 filterValue filterISO 2631 filterISO 2631 filterView on data objectsISO 2631 filterISO 2631 filterStatisticsAppend values (statistical or formula)ISO 2631 filterBox-Whisker statisticISO 2631 filterISO 2631 filterExtract statistical valuesISO 2631 filterISO 2631 filterExtract statistical valuesISO 2631 filterISO 2631 filter <td< td=""><td></td><td>Filter editor (FFT-based)</td><td></td><td>~</td><td>✓</td></td<>		Filter editor (FFT-based)		~	✓
Moving averageImage: Constraint of the second s		FIR filter		~	✓
Intering debugsIntering debugsUniversal signal filterImage: Comparison of the signal filterData filtersManual value filterMatrix columns filter/sorterImage: Comparison of the signal filterMatrix columns filter/sorterImage: Comparison of the signal filterSelectionsImage: Comparison of the signal filterValue filterImage: Comparison of the signal filterValue filterImage: Comparison of the signal filterValue filterImage: Comparison of the signal filterView on data objectsImage: Comparison of the signal filterStatisticsAppend values (event triggered)Append values (statistical or formula)Image: Comparison of the signal filterBox-Whisker statisticImage: Comparison of the signal filterBox-Whisker statisticImage: Comparison of the signal filterExtract statistical valuesImage: Comparison of the signal filterExtract statistical values by indexlistImage: Comparison of the signal filterPart average analysis (PAA) parameterImage: Comparison of the signal filterStatistic over matrix columnsImage: Comparison of the signal filter		ISO 2631 filter		~	✓
Data filtersManual value filterImage: mail of the second se		Moving average	~	✓	✓
Matrix columns filter/sorterImage: Columns filter/sorterImage: Columns filter/sorterSelectionsImage: Columns filterImage: Columns filterValue filterImage: Columns filter/sorterImage: Columns filter/sorterView on data objectsImage: Columns filter/sorterImage: Columns filter/sorterStatisticsAppend values (event triggered)Image: Columns filter/sorterStatisticsAppend values (statistical or formula)Image: Columns filter/sorterBox-Whisker statisticImage: Columns filter/sorterImage: Columns filter/sorterExtract statistical valuesImage: Columns filter/sorterImage: Columns filter/sorterExtract values by indexlistImage: Columns filter/sorterImage: Columns filter/sorterPart average analysis (PAA) parameterImage: Columns filter/sorterImage: Columns filter/sorterStatistic over channelsImage: Columns filter/sorterImage: Columns filter/sorterStatistic over matrix columnsImage: Columns filter/sorterImage: Columns filter/sorter		Universal signal filter		✓	✓
SelectionsImage: SelectionsImage: SelectionsValue filterImage: View on data objectsImage: Selection of the	Data filters	Manual value filter	~	✓	✓
Value filterImage: Construct of the second seco		Matrix columns filter/sorter		✓	✓
View on data objectsImage: Constraint of the system of the sy		Selections			√
Statistics Append values (event triggered) ✓ ✓ Append values (statistical or formula) ✓ ✓ Box-Whisker statistic ✓ ✓ Extract statistical values ✓ ✓ Extract statistical values ✓ ✓ Part average analysis (PAA) parameter ✓ ✓ Statistic over channels ✓ ✓ Statistic over matrix columns ✓ ✓		Value filter		✓	✓
Append values (statistical or formula)Image: Constraint of the statistic of the sta		View on data objects			✓
Box-Whisker statisticImage: Constraint of the statisticExtract statistical valuesImage: Constraint of the statistical valuesExtract values by indexlistImage: Constraint of the statisticPart average analysis (PAA) parameterImage: Constraint of the statistic over channelsStatistic over channelsImage: Constraint of the statistic over matrix columnsStatistic over matrix columnsImage: Constraint of the statistic over matrix columns	Statistics	Append values (event triggered)		~	✓
Box-Whisker statisticImage: Constraint of the statisticExtract statistical valuesImage: Constraint of the statistical valuesExtract values by indexlistImage: Constraint of the statisticPart average analysis (PAA) parameterImage: Constraint of the statistic over channelsStatistic over channelsImage: Constraint of the statistic over matrix columnsStatistic over matrix columnsImage: Constraint of the statistic over matrix columns		Append values (statistical or formula)		~	✓
Extract values by indexlistImage: Constraint of the second se				~	~
Part average analysis (PAA) parameterImage: Constraint of the second		Extract statistical values	~	~	~
Part average analysis (PAA) parameterImage: Constraint of the second		Extract values by indexlist	✓	~	~
Statistic over channels✓✓Statistic over matrix columns✓✓				~	✓
			✓	~	✓
Statistical distributions (normal, Chi2)		Statistic over matrix columns	✓	~	✓
		Statistical distributions (normal, Chi2,)	✓	~	~

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		Starter	Professional	Ultimate
Counting procedures	1D classification	✓	✓	✓
	Amplitude transformation	✓	✓	✓
	Counting matrices calculation	✓	✓	✓
	Damage accumulation	✓	✓	✓
	Dwell time		✓	✓
	Load spectrum	✓	✓	✓
	Min/ Max classification	✓	✓	✓
	Multiaxial loading		✓	✓
	Operation mode distribution		✓	✓
	Pivot table analysis		✓	✓
	Rainflow analysis	✓	✓	✓
	Rainflow superposition	√	✓	✓
	Reversal points		✓	✓
	Statistical frequency 1D	✓	✓	✓
	Statistical frequency 2D		✓	✓
Conversions	Absolute date time \rightarrow Relative time	√	✓	✓
	Change item creation time			✓
	Channel \rightarrow Group of values	√	✓	✓
	$Channels \rightarrow Matrix$	√	✓	✓
	Concatenate channels	✓	✓	✓
	Concatenate channels with transition		✓	✓
	Concatenate producers	√	✓	✓
	Concatenate values	✓	✓	✓
	Convert date time	✓	✓	✓
	Convert string to numeric value		✓	✓
	Counter to physical values	✓	✓	✓
	Cuts through maps and matrices		✓	✓
	Data objects switch	✓	✓	✓
	Grouping data objects	✓	✓	✓
	Index for relative time	✓		✓
	Integer channel to bit matrix	✓	✓	✓
	Key ↔ Label	✓	✓	✓
	List of properties	✓	✓	✓
	Position vectors ↔ Matrix	✓	✓	✓
	Property ↔ Data item	✓	✓	✓
	Ungroup group of data objects	✓	✓	✓
	$Video \rightarrow Timed images$		✓ ×	✓
	$YMDHMS \rightarrow Date/Time$	✓	 ✓	· · · · · · · · · · · · · · · · · · ·
Data Mining	Apriori		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	Data Mining generator		 ✓	· · · · · · · · · · · · · · · · · · ·
	DBScan			· · · · · · · · · · · · · · · · · · ·
	FP-Growth		✓	√



		Starter	Professional	Ultimate
	K-Means		√	✓
	Linear and periodic predicition		~	✓
	OPTICS			✓
	Principal Component Analysis (PCA)		✓	✓
	Support Vector Machines (SVM)		✓	✓
Geodesy	Geofencing		✓	✓
	$GPS \rightarrow Distance/Heading/Speed$		~	✓
	$GPS \rightarrow Distance/Heading (2 point)$			✓
	GPS ↔ Gauss-Krueger		✓	✓
	$GPS \leftrightarrow UTM$		~	✓
	Longitude/Latitude/Altitude ↔ XYZ		~	✓
	Split GPS-polygons		✓	✓
Stress analysis	Hole drill 2D-calculation		~	✓
	Hole drill 3D-calculation		✓	✓
	Ring kernel		~	✓
	Rosette		~	✓
Characteristic maps	Characteristic map trace			✓
	Engine map statistics			✓
	Iso torque curves			✓
	Turbocharger map statistics		✓	\checkmark
Graphic functions				
Simple forms	Line, Rectangle, Circle, Curved line	✓	~	✓
	Speechbox	✓	~	✓
Text elements	Formatted text	✓	~	✓
	MathML graphic	✓	✓	✓
	Plain string (rotatable)	✓	✓	✓
	Plain text	✓	✓	✓
	Variables as text	✓	✓	✓
Tables	Chart legend as table	✓	✓	✓
	Free table	✓	~	✓
	Graphic objects	✓	✓	✓
	Interactive table (multiple column lines for display and controls)	✓	~	✓
	Item property table	~	✓	✓
	Matrix table	✓	~	✓
	Spreadsheet	✓	~	✓
	Table of content	✓	√	✓
Realtime graphics	Bar graph (multicolor, voice output)	✓	√	✓
	Boolean display	~	√	✓
	Controlled arrow	~	✓	✓
	Controlled image		✓	✓
	Curved line (controlled)	✓	~	✓

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		Starter	Professional	Ultimate
	Digital display	✓	✓	✓
	Moving images	~	×	✓
	Multi digital display	~	~	✓
	Needle indicator	~	~	✓
	Realtime table	~	~	✓
	Statistic and history dialog			✓
	TY stripchart	~	✓	✓
	Vector display	~	~	✓
Graphs/Charts	Universal 2D graph (accepts any combination of following diagrams)	~	✓	✓
	- Box-Whisker diagram		✓	✓
	- Bubbles diagram	~	✓	✓
	- Engine map (characteristic field)			✓
	- Error bars diagram		✓	✓
	- Isoline/ Contour diagram		✓	✓
	- Line/ Points diagram	✓	✓	✓
	- Graph objects diagram	✓	✓	✓
	- Matrix diagram	✓	✓	✓
	- Moving map (needs a map service)		✓	✓
	- Moving sprites	✓	✓	✓
	- Scaled images	✓	✓	✓
	- Timed images	✓	✓	✓
	- Turbocharger map (characteristic field)			✓
	- Vector field diagram		✓	✓
	Axis charts (reference points and sub axes)			✓
	Box-Whisker graph		✓	✓
	Difference engine map graph		✓	✓
	Difference turbocharger map graph		✓	✓
	Grid chart		✓	✓
	Isolines/Contour graph (dynamic for 3D matrices)		✓	✓
	Line/Points graph (polar coordinates)		✓	✓
	Net grid chart		✓	✓
	Radar chart			✓
	Vectorfield graph (incl. difference field)			✓
	Number of curves per 2D chart	10	100	1.000
	Number of axis per 2D chart	2	50	500
	Spectrogram			✓ ×
	Universal 3D graph (OpenGL based)			
	(accepts any combination of following diagrams)	~	✓	√
	- 3D bar diagram	✓	✓	✓
	- 3D points diagram	✓	√	✓
	- 3D surface diagram (incl. Z projection)	✓	√	✓
	- 3D waterfall diagram	✓	✓	✓

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		Starter	Professional	Ultimate
	- 4D surface diagram	✓	√	✓
	- Stereoscopic representation		✓	✓
Other graphs	HTML viewer		✓	✓
	Pie graph	✓	✓	✓
Multimedia graphic	Audio player (synchronized)		✓	✓
	Dynamic image graph	✓	✓	✓
	Image graph	✓	✓	✓
	Video mixer graph			✓
	Video player (synchronized)		✓	✓
Control elements	Button (to run a command)	✓	✓	✓
	Button (to start an action)	✓	✓	✓
	Checkbox for boolean values	~	~	√
	Combobox (selector for strings)	✓	✓	✓
	Command field	✓	✓	✓
	Command push button	✓	✓	✓
	Data item reference holder	✓	✓	✓
	Data item selector	✓	✓	✓
	Dialog configurator	✓	✓	✓
	Import controller	✓	✓	✓
	Iterable graph input controller	✓	✓	✓
	Multi-button line (to start different actions)	✓	✓	✓
	Property editor	✓	✓	~
	Radio buttons (selector for strings)	✓	✓	✓
	Slider (selector for numeric values)	✓	✓	✓
	Switch/Toggle button (for boolean values)	✓	✓	✓
	Tabbed graphic area	✓	✓	✓
	Text input field	✓	✓	✓
	Time controller	✓	✓	✓
	(Turning) knob	✓	✓	✓
	Value input field (for numbers)	✓	✓	✓
Miscellaneous				
Configuration management	Component collections		✓	✓
	Project analyzer		✓	✓
	Template library (template manager)		✓	✓
	Data object loop (multiple data objects processor)		✓	✓
Messaging elements	Data object observing trigger		✓	√
	E-mail component		√	✓
Test stand preparation	Omission		√	✓
Protocol generator	Batch report generator			✓
	Page formatter			✓



		Starter	Professional	Ultimate
	Report generator			
	(section types: event analysis, table of contents, template, speed chart)		~	~
Data generator	Actual time		✓	✓
	Basic graphic objects	✓	✓	✓
	Grouped maps			√
	Numeric channel	~	✓	✓
	Numeric matrix (2D & 3D)	~	✓	✓
	Property map	~	✓	✓
	Signal data		✓	✓
	Text channel	✓	~	✓
	Text matrix (2D)		✓	✓
	Time channel		✓	✓
Map services	Bing (Microsoft)		✓	✓
	Google		✓	✓
	HERE		✓	✓
	OpenStreetMap (OSM)		~	✓
General				
	Axis synchronization service		✓	✓
	Data analysis windw		✓	✓
	EnCom client		✓	✓
	EnCom server		✓	✓
	Generic unit service	✓	✓	✓
	Graphic user interface	✓	✓	✓
	GUI language (english & german)	✓	✓	✓
	Multi language GUI (11 languages see below)	✓	✓	✓
	Release Notes dialog	✓	✓	✓
	Resolver for text embedded formulas	~	✓	✓
	Scripts (Java, Bean shell, Groovy, Python syntax)		✓	✓
	Scripts (native Python support)	✓	~	✓
	Toolbox	√	✓	√
Project size				
	Number of importers & calculations	100	3.000	10.000
	Number of graphic objects	500	50.000	79.000

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measure. analyze. innovate.

	Starter	Professional	Ultimate
Languages			
Arabic	✓	✓	✓
Chinese	✓	✓	✓
Czech	✓	✓	✓
English	✓	✓	✓
French	✓	~	✓
German	✓	✓	✓
Italian	✓	✓	✓
Portuguese	~	~	✓
Russian	✓	~	✓
Spanish	✓	~	✓
Swedish	~	~	✓

Services & trainings for jBEAM Durability software

(please contact sales-software@kistler.com for requests)

jBEAM Durability (18047116) jBEAM Durability Subscription

Services

- First Level supprt
- Maintenance
- Template service

Training (44002613)

- jBEAM Basic User Training
- jBEAM Advanced User Training
- jBEAM Expert User Training

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