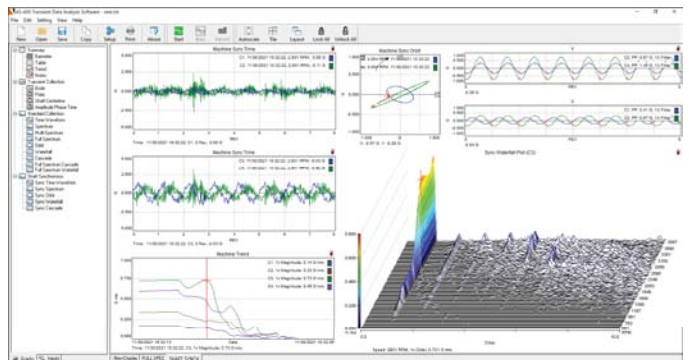
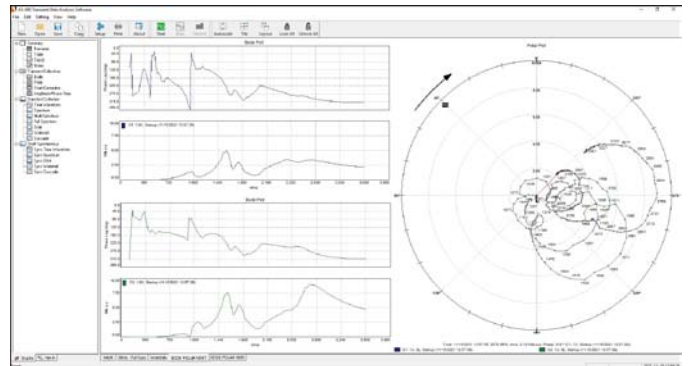
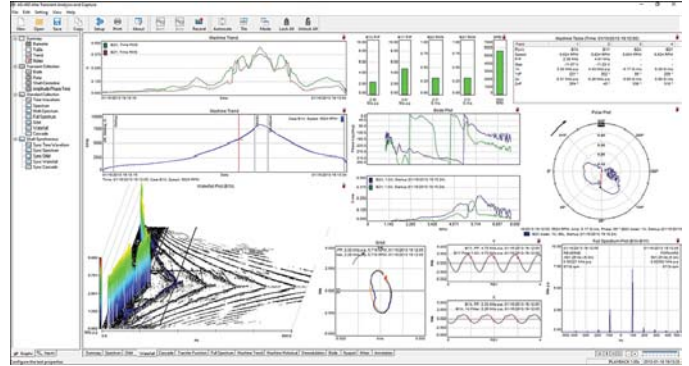


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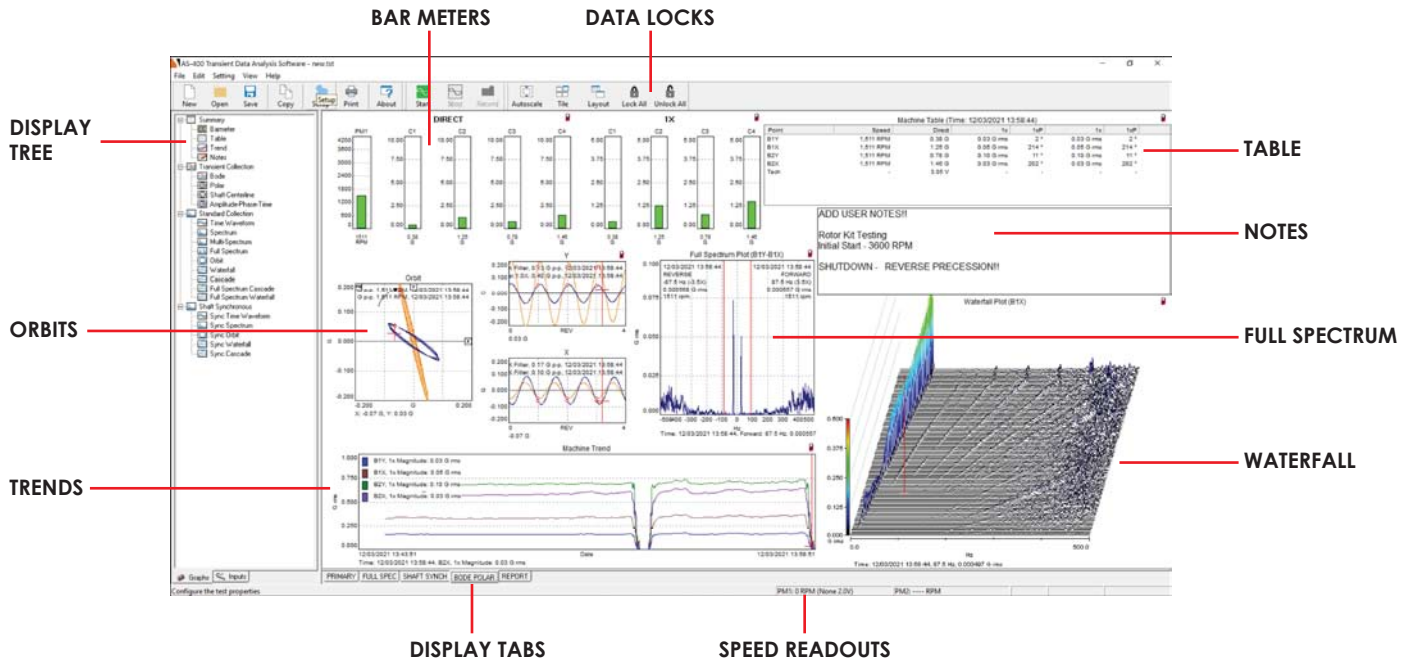


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TRANSIENT DATA ANALYSIS SOFTWARE

INTUITIVE USER INTERFACE

Quickly navigate and visualize collected data. Easily open plots, change channels and modify settings by simply dragging and dropping the different screen elements.



EASY SOFTWARE SETUP

Setup in less than 5 minutes to capture transient data during Startup and Shutdown of a machine.

Channel and Speed Input Setup

The Channel and Speed Input Setup dialog box shows the following configuration:

#	Active	Name	Type	mV/Hz	Sensor	Convert To	Offset	Clipping	Angle	PM	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1	Yes	ACCEL_X	Acceleration	100	G	G	0	IEPE	90L	PM1	-	-	-	-	-	-	-	-	-	-
2	Yes	ACCEL_Y	Acceleration	100	G	G	0	IEPE	0L	PM1	-	-	-	-	-	-	-	-	-	-
3	Yes	ACCEL_Z	Acceleration	100	G	G	0	IEPE	0L	PM1	-	-	-	-	-	-	-	-	-	-
4	Yes	VEL	Velocity	100	IPS	IPS	0	AL	0L	PM1	-	-	-	-	-	-	-	-	-	-
5	Yes	BTX	Displacement	200	Mils	Mils	0	DC	90L	PM1	1.20	34.0	-11.2V	-	-	-	-	-	-	-
6	Yes	BTY	Displacement	100	Mils	Mils	0	DC	0L	PM1	0.09	231.0	-11.0V	-	-	-	-	-	-	-
7	No	C7	Temperature	1000	F	Units	0	DC	0L	PM1	-	-	-	-	-	-	-	-	-	-
8	No	C8	Current	1000	A	Units	0	DC	0L	PM1	-	-	-	-	-	-	-	-	-	-

Phase Marker/Speed List:

#	Name	Mode	Threshold	Slope	PPR	Clipping	Angle	Position
1	PM1	Manual	11V	Falling (switch)	1	DC	90L	CCW
2	PM2	Auto	0V	Falling (switch)	1	DC	0L	CW

Acquisition and Analysis Setup

The Acquisition and Analysis Setup dialog box shows the following configuration:

Standard Sampling:

Frequency Span	Sample Rate	Spectral Lines	Freq. Resolution	Time Resolution	Acquisition Time	Overlap %	# of Averages	Window Type
2000 Hz	5120 SPS	1600	1.25 Hz	0.195313 ms	0.8 s	50%	1	Hanning

Synchronous Sampling:

Samples Per Revolution	Sync Block Size	Maximum Valid Speed
128	2048	15000 RPM

Machine Information:

Name: JST102
Description: [See Tutorial]

Machine Information:

Speed Source: Phase Marker
Start Speed: 60 rpm
Operating Speed: 6000 rpm

Digital Recording (FIFO) Settings:

Pre-Trigger Samples: 0
Post-Trigger Samples: 16384
0.00 secs before, 300.00 secs after (61,440,512 bytes if all inputs are)

Collection Rules:

Start Speed: 25 rpm
Data Time: 10 Seconds

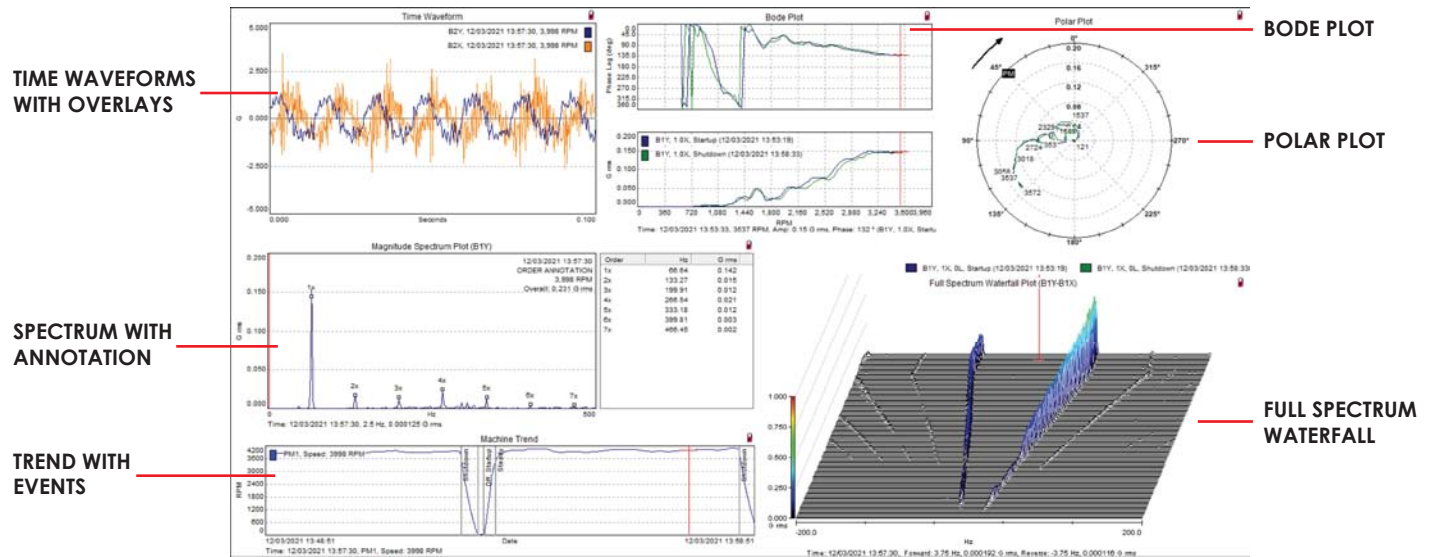
Measurements per Waveform: 1

Channel	Value	Units	Status
ACCEL_X	-	G	-
ACCEL_Y	-	G	-
ACCEL_Z	-	G	-
VEL	-	IPS	-
BTX	-	Mils	-
BTY	-	Mils	-
C7	-	F	-
C8	-	A	-

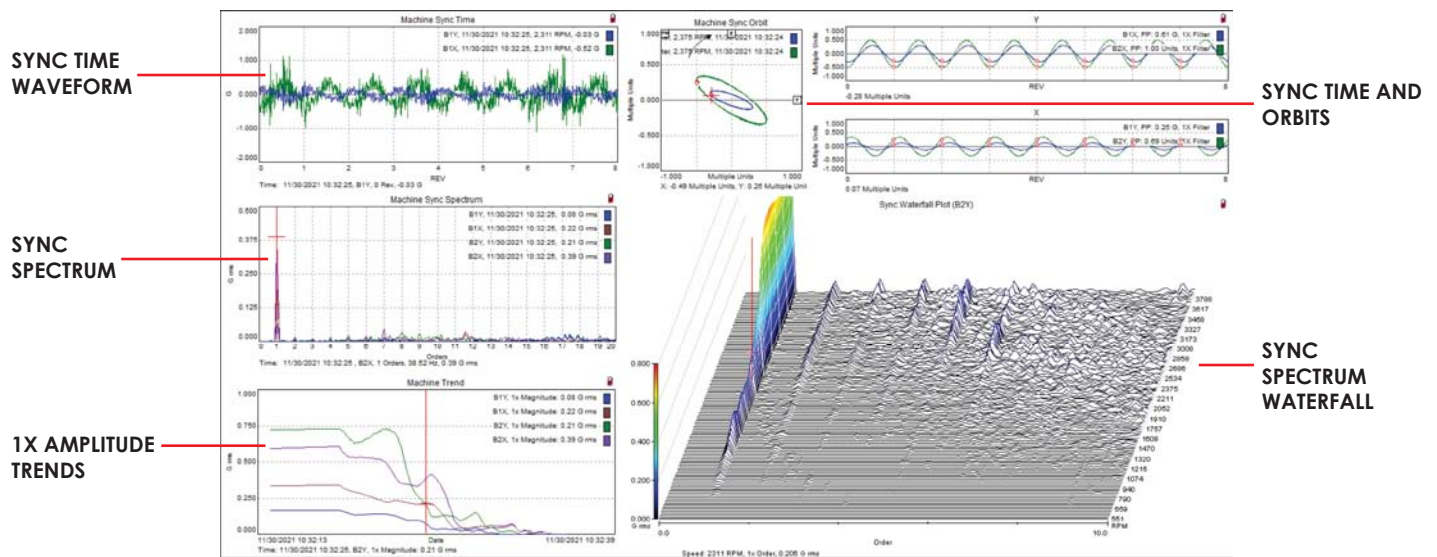
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TRANSIENT PLOTS



SHAFT SYNCHRONOUS PLOTS



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DATA ACQUISITION	
Sensor Types	Acceleration, Current, Displacement, Temperature, Speed, Velocity, Voltage
Data Capture	Asynchronous and Synchronous Sampling
Frequency Span	10, 20, 40, 50, 100, 200, 400, 500, 1000, 2000, 4000, 5000, 10000, and 20000
Speed Detection	Automatic and Manual Thresholds
DATA ANALYSIS	
Spectral Resolution	100, 200, 400, 800, 1600, 3200, 6400, and 12800
Overlap Processing	0%, 25%, 50%, 75%, and 90%
Window Types	Rectangular, Hamming, Hanning, Blackman-Harris, Flat-top, Exponential
Data Processing	Integration, Differentiation, Filtering, Averaging, Vector and Waveform Compensation
DATA COLLECTION	
Collection Rules	Delta Time, Delta Speed, Delta Direct
Measurement Types	Direct, Gap, Bias, Overall, Not 1X, Sub Sync, nX Magnitude, nX Phase, Energy Band, Speed
DATA VISUALIZATION	
Plot Types	Barmeter, Time Waveform, Orbit, Spectrum Magnitude, Full Spectrum, Bode, Polar, Shaft Centerline, Table, Amplitude-Phase Time, Trend, Waterfall, Cascade, Full Spectrum Waterfall, Notes, Sync Time, Sync Spectrum, Sync Waterfall, Sync Orbit, Sync Cascade
Navigation	Data Zooming, Autoscaling, Drag and Drop, Locking Cursors
Annotation Types	Peak, Harmonic, Side-Band, Order, Delta Time, and User Defined

Contact Alta Solutions for the latest specifications and ordering information.



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