Shear wave inspection of the TKY weld – probe placement on the curved flange (performance demonstration block)
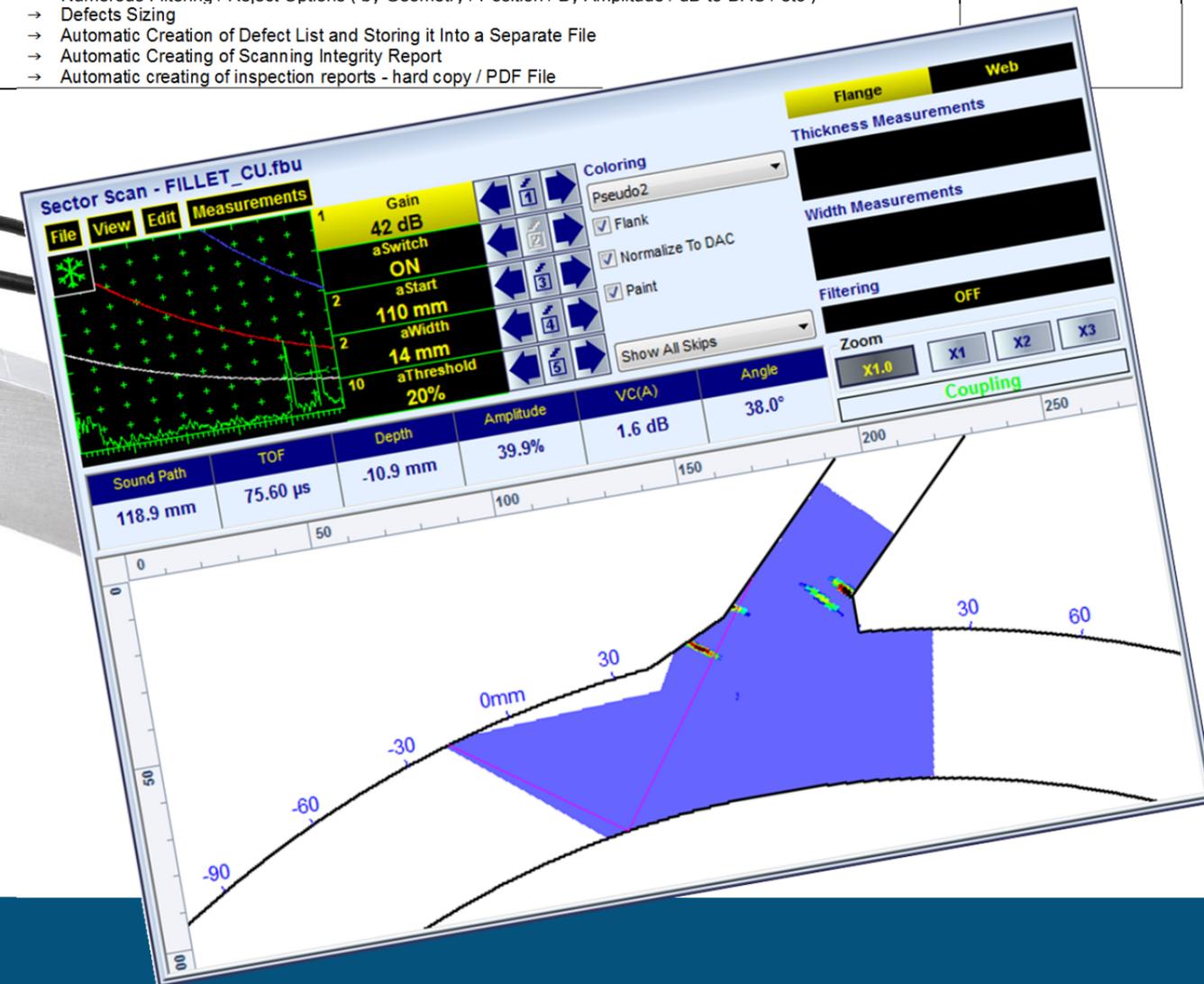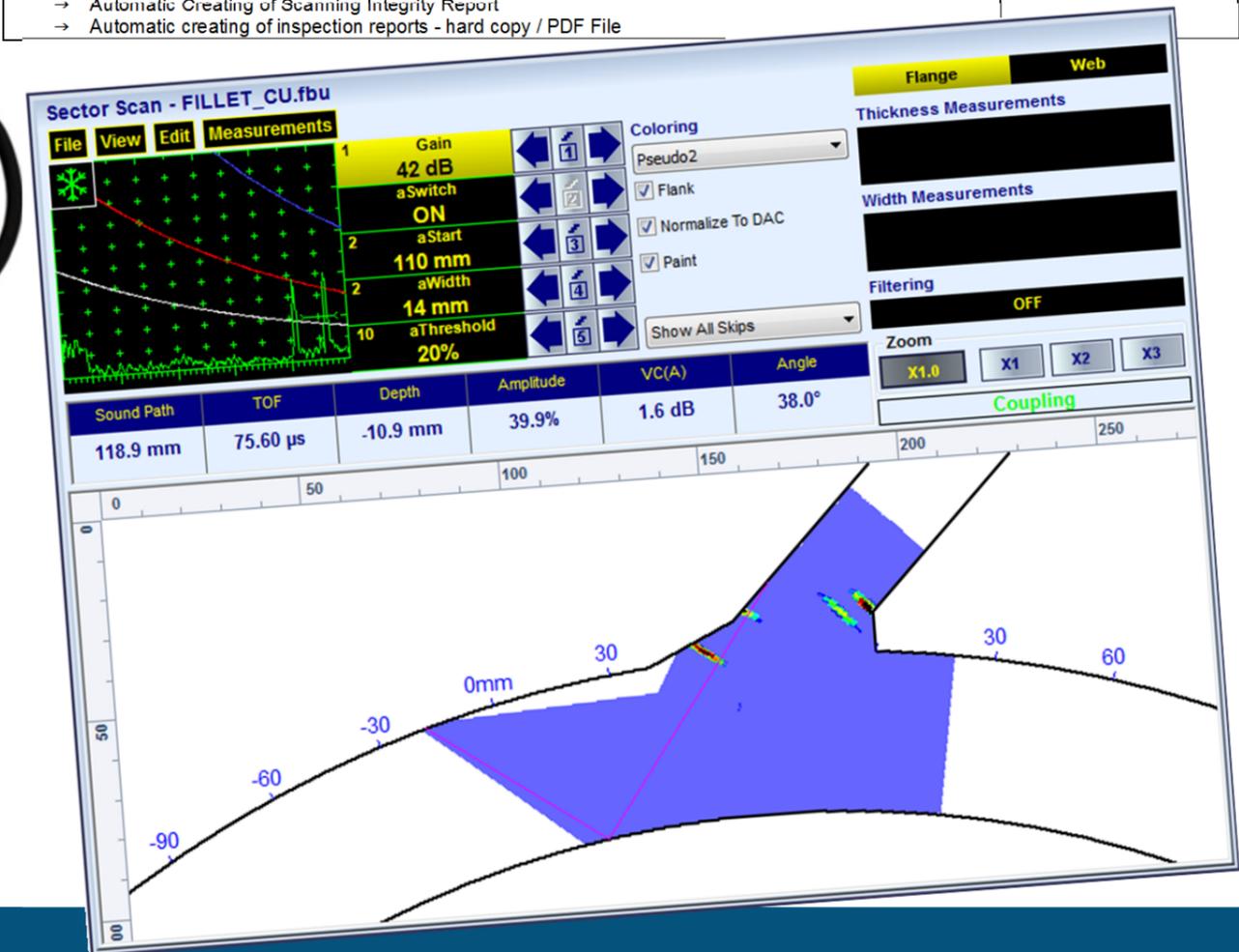
Item	Order Code (Part ##)
Inspection SW Application for ISONIC 3510T, ISONIC 3510 - Phased Array Modality: **Expert FILLET CU - Inspection of Fillet, Tee- , TKY- welds, and the like with PA Probe placed either on curved flange or web surface**	SWA 3510015

⇨ True-To-Geometry Weld Overlay Volume Corrected Imaging - Cross Sectional and Top (C-Scan)- / Side- / End-View and 3D
⇨ Sector-Scan Cross Sectional Coverage
⇨ Intuitive Image Guided PA Pulser Receiver with Beam Forming View
⇨ DAC / TCG Normalization
⇨ Built-In Weld Geometry Editor and Ray Tracer - Scanning Pattern Design
⇨ Automatic Curvature Correction for the wedges with contoured contact face
⇨ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction
⇨ Automatic Coupling Monitor
⇨ Automatic Scanning Integrity Monitor
⇨ Detection of the defects in the parent material simultaneously with weld inspection
⇨ Encoded and Time based C-Scan
⇨ 100% Raw Data Capturing
⇨ FMC/TFM Protocol for the data acquisition and imaging
⇨ Automatic Defects Alarming Upon C-Scan Acquisition Completed
⇨ Automatic Creation of Editable Defects List
⇨ Automatic Creating of Scanning Integrity Report Upon C-Scan Acquisition Completed
⇨ Comprehensive Postrpocessing Including:
→ Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Views (Sector Scan) and C-Scans
→ Recovery of Cross Sectional Views from the Recorded C-Scans
→ Converting Recorded C-Scans or their Segments into 3D Images
→ Off-Line Gain Manipulation
→ Off-Line DAC to TCG / TCG to DAC toggling for all types of stored files (A-Scans, cross-sectional veiwes, C-Scans, etc)
→ Off-Line DAC Normalization of the Recorded Images / DAC Evaluation
→ Off-Line editing of Angle Gain Compensation / Gain per Shot Correction applied to the stored the Cross-sectional Views / C-Scan data
→ Numerous Filtering / Reject Options (by Geometry / Position / By Amplitude / dB-to-DAC / etc)
→ Defects Sizing
→ Automatic Creation of Defect List and Storing it Into a Separate File
→ Automatic Creating of Scanning Integrity Report
→ Automatic creating of inspection reports - hard copy / PDF File

Shear wave inspection of the TKY weld – probe placement on the curved flange (performance demonstration block)

Item (Part ##)	Order Code (Part ##)
Inspection SW Application for ISONIC 2009 UPA-Scope - Phased Array Modality: **Expert FILLET CU - Inspection of Fillet, Tee- , TKY- welds, and the like with PA Probe placed either on curved flange or web surface** ⇨ True-To-Geometry Weld Overlay Volume Corrected Imaging - Cross Sectional and Top (C-Scan)- / Side- / End- View and 3D ⇨ Sector-Scan Cross Sectional Coverage ⇨ Intuitive Image Guided PA Pulser Receiver with Beam Forming View ⇨ DAC / TCG Normalization ⇨ Built-In Weld Geometry Editor and Ray Tracer - Scanning Pattern Design ⇨ Automatic Curvature Correction for the wedges with contoured contact face ⇨ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction ⇨ Automatic Coupling Monitor ⇨ Automatic Scanning Integrity Monitor ⇨ Detection of the defects in the parent material simultaneously with weld inspection ⇨ Encoded and Time based C-Scan ⇨ 100% Raw Data Capturing ⇨ FMC/TFM Protocol for the data acquisition and imaging ⇨ Automatic Defects Alarming Upon C-Scan Acquisition Completed ⇨ Automatic Creation of Editable Defects List ⇨ Automatic Creating of Scanning Integrity Report Upon C-Scan Acquisition Completed ⇨ Comprehensive Postrpocessing Including: → Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Views (Sector Scan) and C-Scans → Recovery of Cross Sectional Views from the Recorded C-Scans → Converting Recorded C-Scans or their Segments into 3D Images → Off-Line Gain Manipulation → Off-Line DAC to TCG / TCG to DAC toggling for all types of stored files (A-Scans, cross-sectional veiwes, C-Scans, etc) → Off-Line DAC Normalization of the Recorded Images / DAC Evaluation → Off-Line editing of Angle Gain Compensation / Gain per Shot Correction applied to the stored the Cross-sectional Views / C-Scan data → Numerous Filtering / Reject Options (by Geometry / Position / By Amplitude / dB-to-DAC / etc) → Defects Sizing → Automatic Creation of Defect List and Storing it Into a Separate File → Automatic Creating of Scanning Integrity Report → Automatic creating of inspection reports - hard copy / PDF File	SWA 909815

Item (Part ##)	Order Code (Part ##)
Inspection SW Application for ISONIC 2010 / ISONIC 2010 EL - Phased Array Modality: **Expert FILLET CU - Inspection of Fillet, Tee- , TKY- welds, and the like with PA Probe placed either on curved flange or web surface** ⇨ True-To-Geometry Weld Overlay Volume Corrected Imaging - Cross Sectional and Top (C-Scan)- / Side- / End- View and 3D ⇨ Sector-Scan Cross Sectional Coverage ⇨ Intuitive Image Guided PA Pulser Receiver with Beam Forming View ⇨ DAC / TCG Normalization ⇨ Built-In Weld Geometry Editor and Ray Tracer - Scanning Pattern Design ⇨ Automatic Curvature Correction for the wedges with contoured contact face ⇨ Independent on TCG Angle Gain Compensation / Gain Per Focal Law Correction ⇨ Automatic Coupling Monitor ⇨ Automatic Scanning Integrity Monitor ⇨ Detection of the defects in the parent material simultaneously with weld inspection ⇨ Encoded and Time based C-Scan ⇨ 100% Raw Data Capturing ⇨ FMC/TFM Protocol for the data acquisition and imaging ⇨ Automatic Defects Alarming Upon C-Scan Acquisition Completed ⇨ Automatic Creation of Editable Defects List ⇨ Automatic Creating of Scanning Integrity Report Upon C-Scan Acquisition Completed ⇨ Comprehensive Postprocessing Including: → Recovery and Evaluation of Captured A-Scans from the Recorded Cross Sectional Views (Sector Scan) and C-Scans → Recovery of Cross Sectional Views from the Recorded C-Scans → Converting Recorded C-Scans or their Segments into 3D Images → Off-Line Gain Manipulation → Off-Line DAC to TCG / TCG to DAC toggling for all types of stored files (A-Scans, cross-sectional veiwes, C-Scans, etc) → Off-Line DAC Normalization of the Recorded Images / DAC Evaluation → Off-Line editing of Angle Gain Compensation / Gain per Shot Correction applied to the stored the Cross-sectional Views / C-Scan data → Numerous Filtering / Reject Options (by Geometry / Position / By Amplitude / dB-to-DAC / etc) → Defects Sizing → Automatic Creation of Defect List and Storing it Into a Separate File → Automatic Creating of Scanning Integrity Report → Automatic creating of inspection reports - hard copy / PDF File	SWA 910815

Shear wave inspection of the TKY weld – probe placement on the curved flange (performance demonstration block)