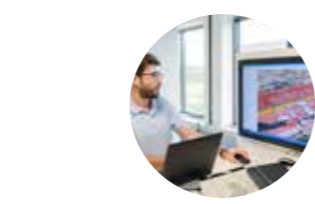
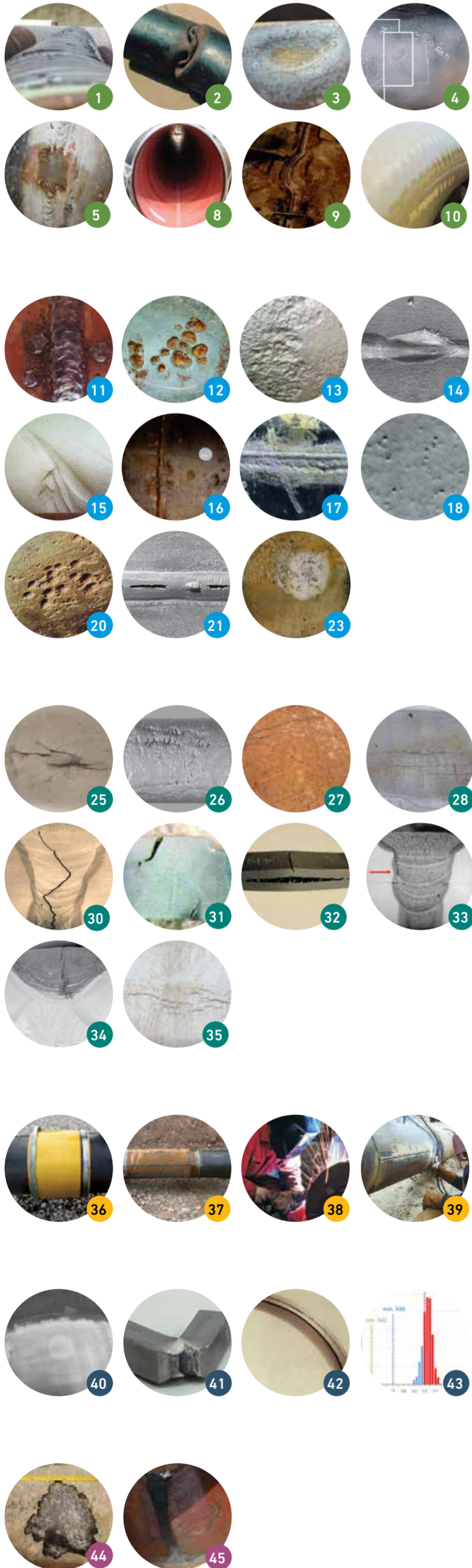


Competence in Pipeline Asset Care



Integrity Services



Inspection Services



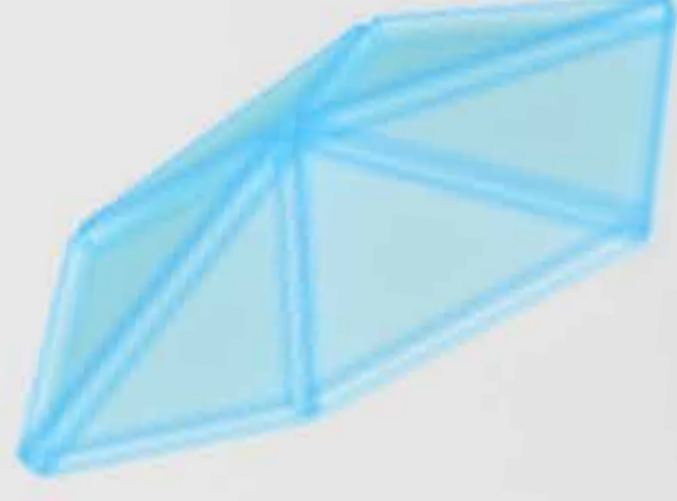
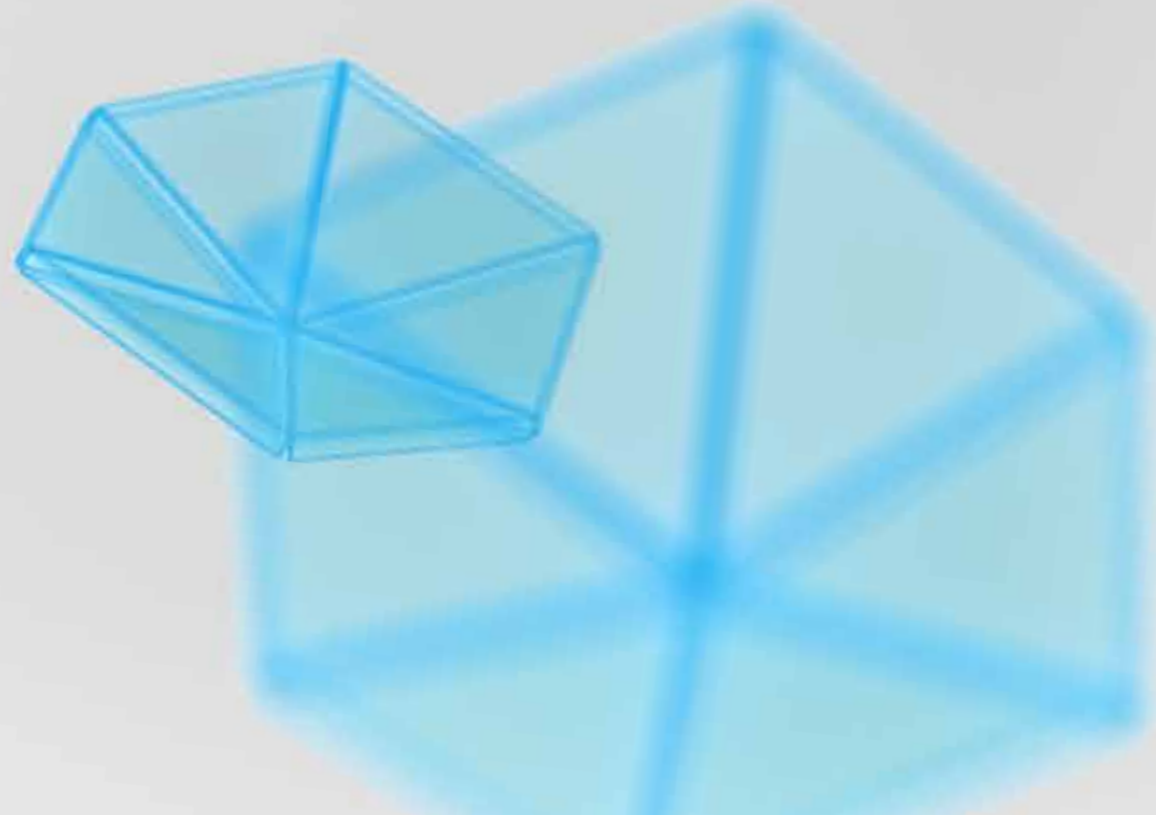
Operational Parameter	Integrity Services										Inspection Services											
	Long Seam Categorization	MAOP Validation / Pipe Grade Determination	Geohazard / Depth of Cover Assessment	Bending Strain / Pipe Movement / Geohazard / Depth of Cover Assessment	Crack Growth Assessment	Fitness for Purpose Assessment	Dent Strain / Stress / Fatigue Life Assessment	Corrosion Growth Assessment	RoMat	RoMat PSS	RoMat MTS	RoMat DMG	RoCoMat	RoCoMat PSS	RoCoMat MTS	RoCoMat DMG	RoCoMat Ultra	RoCoMat Ultra	RoCoMat Ultra	RoCoMat Ultra		
Liquid Medium																						
Gas / Multiphase Medium																						
High Flow Velocity																						
Low Flow / Low Pressure																						
Multidiameter																						
Bidirectional																						
Heavy Wall																						
CRA Clad																						
Geometry	1 Bending																					
	2 Buckle																					
	3 Dent																					
	4 Dent with Metal Loss																					
	5 Grinding																					
	6 Hard Scale Deposit																					
	7 ID Expansion / Roof Topping																					
	8 Ovality																					
	9 Pipe Movement																					
	10 Wrinkle																					
	Metal Loss	11 Arc Strike																				
		12 Complex Corrosion Cluster																				
		13 General Corrosion																				
		14 Girth Weld Anomaly																				
		15 Gouging																				
		16 Microbacterially Induced Corrosion (MIC)																				
		17 Narrow Axial Corrosion																				
		18 Pinhole																				
		19 Pitting																				
		20 Seam Weld Anomaly																				
		21 Spiral Weld Anomaly																				
		22 Top-of-Line Corrosion (TOLC)																				
		23 Wall Thinning / Erosion																				
		Cracks	24 Axial Crack																			
			25 Circumferential Crack																			
	26 Cracks in Dents																					
	27 Environmentally Assisted Cracking																					
	28 Fatigue Crack																					
	29 Girth Weld Crack																					
	30 Hook/Seam Weld Crack																					
	31 Hydrogen Induced Cracking (HIC)																					
	32 Lack of Fusion																					
	33 Longitudinal Weld Crack																					
	34 Stress Corrosion Cracking (SCC)																					
	Repair		35 Coating																			
36 Composite Wrap Repair																						
37 Weld Deposition																						
38 Welded Sleeve Repair																						
39 Hard Spots																						
Material Properties	40 Toughness																					
	41 Lamination																					
	42 Pipe Grade																					
	43 External Coating Disbondment																					
	44 Internal Coating Defects																					
	45																					

● preferred ○ available

● Detection and Sizing ○ Detection only

Combined Diagnostic Solutions

Comprehensive. Accurate. Efficient.



Want to benefit from Combined Diagnostic Solutions?

Pipelines are exposed to a wide range of potential damage mechanisms, which may eventually result in leakage or worse if not identified at the right time. While single threats may severely compromise the operational safety of a given pipeline, combined threats pose an even higher risk to the asset's overall integrity.

There is no single inspection technology that can detect and size all combinations of features that may be present in your pipeline. **So how can you be sure to reliably detect and correctly assess every anomaly type?**

ROSEN offers a variety of **modular inspection technologies** that can be merged on one tool to **comprehensively** assess various types of threats in one ILI run, ultimately **reducing inspection-related costs and efforts**. Each technology is strong on its own. However, the combination of multiple technologies provides significant added value as the combined evaluation of various data sets leads to **more accurate and reliable integrity assessments, reducing operational risk**.



RoCorr
MFL-A



RoCorr
UTWM

High-resolution detection and sizing of internal, mid-wall and external metal loss defects, wall-thickness variations and milling anomalies with improved POD and POI compared to stand-alone inspections.



RoCorr
MFL-A
Ultra



RoGeo
XT



RoGeo
XYZ

Ultra-high-resolution pipeline mapping and detection and sizing of metal loss and geometry defects, e. g. pinholes, girth weld defects, microbially induced corrosion (MIC), dents, bending strain and dents with metal loss.



RoCorr
MFL-A



RoGeo
XT



RoMat
PGS



RoMat
DMG

High-resolution detection and sizing of metal loss and geometry defects, e. g. corrosion, dents, wrinkles, dents with re-rounding and metal loss, and determination of material properties like pipe grade and hard spots.



RoCorr
MFL-A



RoCorr
MFL-C

High-resolution detection and sizing of all kinds of metal loss and narrow axial features, e. g. corrosion, channeling, top-of-line corrosion, girth weld anomalies, spiral weld anomalies and seam weld anomalies.



RoCorr
MFL-A



RoCorr
IEC

Accurate detection and sizing of internal, external and mid-wall metal loss anomalies and geometry features within heavy-walled or CRA clad pipelines, e. g. general thinning, dents with metal loss or internal coating damage.