

SMART INSPECTIONS: Transforming Inspection Recording & Management in SAP

1. The Challenge

Capturing detailed engineering inspections can be vital, not just when pursuing operational excellence, but also to ensure critical regulatory compliance. Recording this information in SAP has traditionally been challenging due to the large amount of data required and the multiple screens that need to be navigated to complete the process.

As a result, many companies have resorted to using third party tools. The issue with this approach is that it requires difficult to manage interfaces with SAP and means that inspection data resides outside of SAP, adding to increased maintenance and support needs, complexity and cost.

2. The Solution

AG Smart Inspections is a proven industry solution that greatly simplifies the task of recording engineering inspections in SAP. Co-designed with engineers and technicians, it provides an intuitive, light-touch interface that makes inspection capturing and management effortless.

AG Smart Inspections is built on core SAP Plant Maintenance and SAP Quality Management, but without the usability challenges and overhead normally associated with these modules. Using its added smart features, it unlocks some of the highest impact and yet most underutilised areas of SAP Plant Maintenance. Smart Inspections extends your SAP platform while truly transforming your business.



Reduced Risk

Huge risk reduction for Safety Critical equipment.



Strategic Impact

Build the foundations for Predictive Maintenance.



Lower Costs

Unlock tangible efficiencies and cost savings.



Improved Compliance

Greater ability to meet legal requirements.



3. Key Features

Smart Inspections has been designed to cater for the complexities involved in engineering inspections. While the solution uses standard SAP master and transactional data, it provides a tailored solution for managing the complex engineering inspection process. Smart Inspections simplifies and enhances the standard SAP process by providing the following key features:

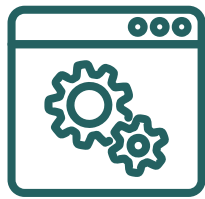
- **Single Cockpit** – the standard multi-screen SAP process is replaced by a single data-entry screen to perform all inspection recording actions.
- **User-Friendly Interface** – efficiently record and manage detailed inspections in SAP.
- **Active Error Handling Through Simulation Mode** – automatic checks of data entered against technical objects prompt required changes to master data.
- **Automated Follow-On Action** – automatic creation of defect notifications where inspections have failed.
- **360-Degree Visibility** – view follow on notifications and related work orders in one single screen.
- **Object List Mapping** – map specific inspections against single technical objects for greater efficiency.
- **Easy Work Order Management** – easily check the status of work orders, so they can be actioned in a timely manner.
- **Full Audit Trail** – end-to-end audit trail from inspections to follow-on corrective actions.
- **Improved Governance** – fewer errors, greater compliance through improved technical checks.



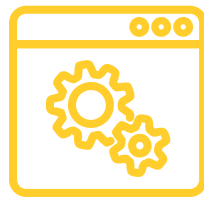
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Engineering Inspections Process in SAP

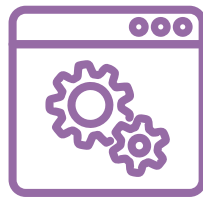
Multiple transactions are required to perform each inspection.



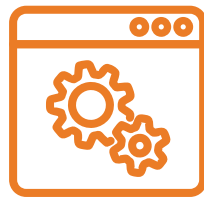
Standard Tcode
QE51N Result
Recording



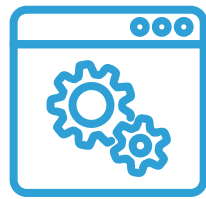
Standard Tcode
QA11 Usage
Decision



Standard Tcode
IW41 Time
Confirmation



Standard Tcode
IW22 Edit
Main Notification



Standard Tcode
IW32 Edit
Work Order

Engineering Inspections Process with Smart Inspections

Perform all actions in one single screen.

Easy Navigation to:

Tcode IW41 Tcode IW22 Tcode IW32

AG Smart Inspections - Results Recording : Results Entry

Temporary Save Permanent Save Time Confirmation Edit Main Notification Edit Work Order

Work Order: 1000612
Inspection Lot: 14000000762

St...	Technical Object	Technical Object Description	Operation no	Ins...	Inspection Characteristic	Upper ...	Lower...	UoM	No of r...	Pass	Fx	Fail...	E...	Result	Defect ...	De...	Defect Code Text	Fol
COO	SH00-SH3-AF-01	Valve XV-0176-A	0010	10	Valve Leakage Rate	20, 28		M3/M	1					5555, 00	DAMAGE	04	Dented	10
COO	SH00-SH3-AF-02	Valve XV-010011	0010	10	Valve Leakage Rate	20, 28		M3/M	1					11, 00				
	SH00-SH3-AF-03	Valve XV-0196-B	0010	10	Valve Leakage Rate	20, 28		M3/M	1									
	SH00-SH3-AF-04	Valve XV-1185-A	0010	10	Valve Leakage Rate	20, 28		M3/M	1									
	SH00-SH3-AF-05	Valve XV-1186-A	0010	10	Valve Leakage Rate	20, 28		M3/M	1									
	SH00-SH3-AF-06	Valve XV-014901	0010	30	Valve Closure Time (P/F/F)				1									
	SH00-SH3-AF-07	Valve XV-125561	0010	30	Valve Closure Time (P/F/F)				1									

4. Solution Benefits

Using Smart Inspections will have a transformational effect on your business through easy inspection recording, reduced screen time and improved efficiency, leading to more time available for inspections and reduced maintenance costs.

Smart inspections provides 360-degree visibility and a full audit trail of inspections up to work completion, allowing you to improve regulatory compliance and asset reliability, while paving the way to predictive maintenance. Here's how your users will benefit:

Benefits for Users

- Faster, Easier & Efficient Inspection Recording
- Greater Data Granularity for Future Predictive Maintenance.
- Easily Check Inspections' Status
- Easy Reporting and Trends' Analysis
- No Time Wasted Checking Multiple Systems
- Reduced Master Data Overhead

5. Technical Requirements

Smart Inspections is an SAP Add-On designed to work seamlessly with SAP ECC and S/4 Hana. It uses standard SAP master data and requires minimal setup. The solution is fully scalable and applicable to any industry as fully configurable. Roll out controls provide complete deployment flexibility – incl. country to country, division to division or site by site.

SAP

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2019

About AG

AG is an SAP Gold Partner recognised by SAP for its expertise in Asset Management and Product Lifecycle Management. The largest SAP EAM practice in the UK, AG have extensive industry experience, enabling them to understand practical challenges and develop fit-for-purpose solutions.

Find Out More

If you'd like to find out more about how Smart Inspections can transform engineering inspections' recording and management for your business, please contact us:

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