



Welding Digital Solutions



Introduced by **Ahmed Hamed Mahmoud**Specialized Welding Engineer



NDT-X CAIRO 2024 TECHNICAL CONFERENCE

Challenges affecting our industry

Management on welding production







Cost control







CONSUMPTION



Quality & Traceability



Access to competence



WELD SESSIONS



DOCUMENTATION



OInduSuite

Simplicity Insight Control

The universal collection of welding and cutting software applications that connects data, machinery, and processes to...

Unlock your shop's true potential

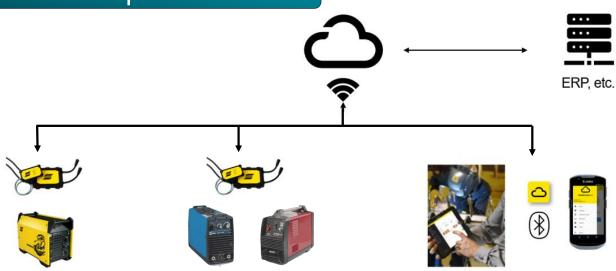
○ InduSuite

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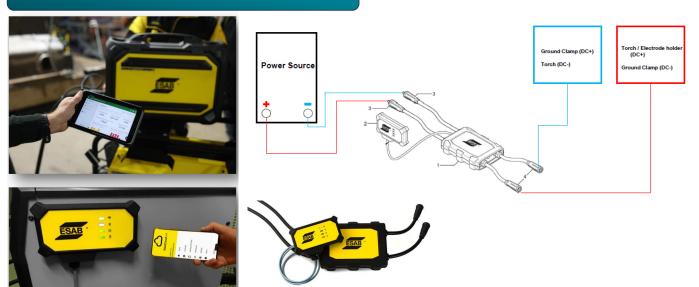
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InduSuite | Architecture





WeldCloud Universal Connector



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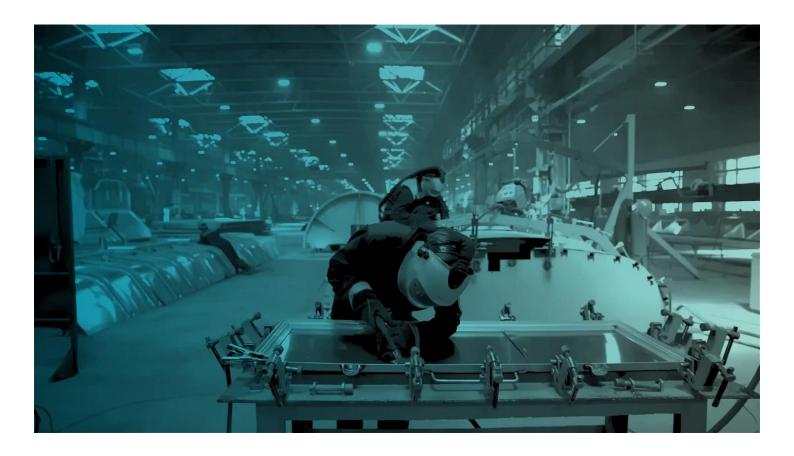
Data Collected to Indusuite

- Manual inputs "Universal connector" :
 - Voltage.
 - ☐ Current.
 - □ Power.
 - ☐ Arc ON time.
- Manual inputs "WeldCloud Link":
 - ☐ Gas type.
 - □ Parts
 - ☐ Wire.
 - ☐ Work Order.
 - ☐ WPS.
 - Welders
 - etc.





- Heat input
- Net deposition rate.
- □ Filler material consumption.





InduSuite - WeldCloud Apps







Notes

Productivity

Fleet

Assembly





Indusuite | Notes



How it works?

WeldCloud Notes aids in pre-production, production, and post-production phases.

Main End-User:

Production, Operation managers and QA/QC.

Infrastructure:





Features & Benefits:

- Generate (Documentation) "into a PDF or Excel" .
 - •pWPS
 - •PQRs
 - •WPSs
 - •WPQs.
- Q-matrix, mapping, filtering,
- · Fast and efficient weld-book.

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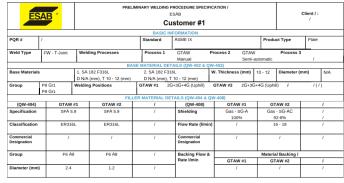


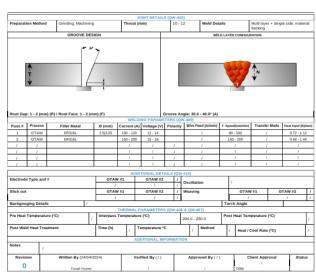
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MANAGE ALL YOUR WELDING DOCUMENTATION IN ONE PLACE

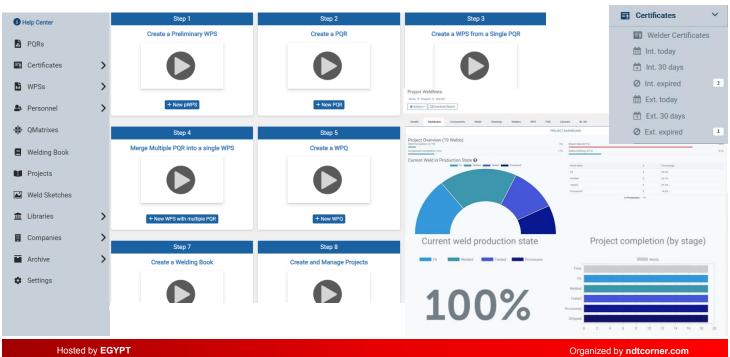
PQRs / WPSs

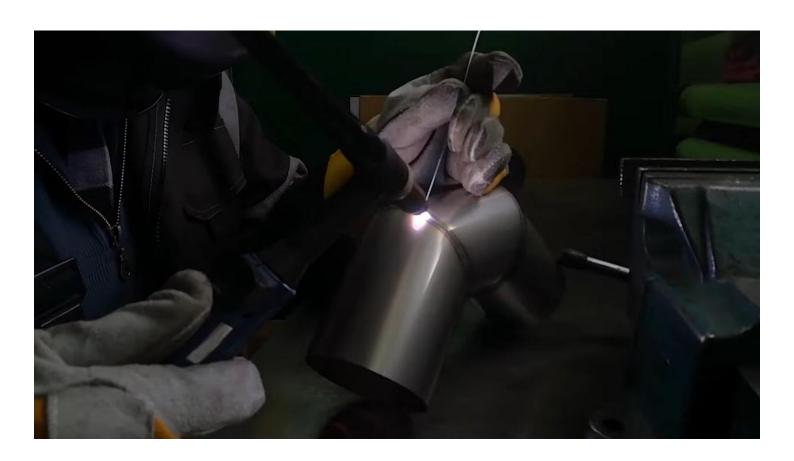
- ✓ Quickly create a WPS from one or multiple PQRs.
- ✓ Decrease the time to create your welding documents compared to traditional methods (PDF, Excel, ...).















Indusuite | Productivity

Collects welding data. Identify quality issues by tracking parameters Main End-User: Production, Operation managers and QA/QC. Infrastructure:

Features & Benefits:

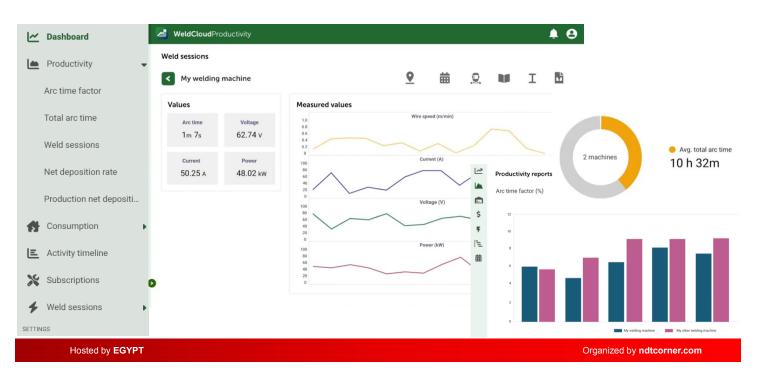
Tracking:

- Arc-on time " welding down to each weld session "
- Number of weld sessions.
- Consumption rates "wire and gas".
- Deposition rate.

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Indusuite | Fleet

Optimize your fleet management

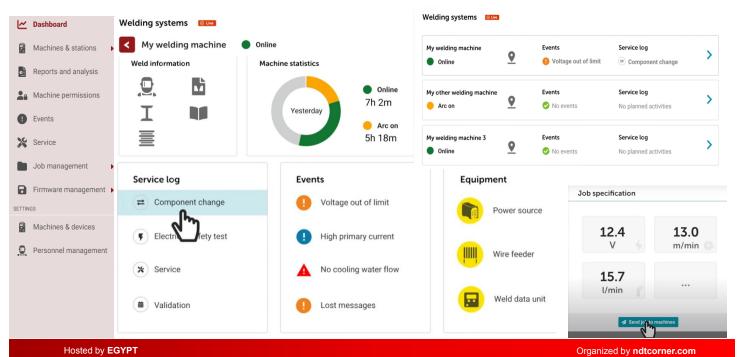
Designed for fleet owners and service managers,

- Tracking for The Equipment status
 Collect health data via cloud, (Service log).
- Manage your operator
- Instant notification SMS, emails alerts.
- Manage Present welding jobs across all your connected equipment.













Indusuite | Assembly



How it works?

Joins (the qualifications documents from <u>WeldCloud Notes</u>) and (The Welding parameters from <u>WeldCloud Productivity</u>)

Main End-User:

• Production, Operation managers AND QA/QC.



Features & Benefits:

the benefits of everything

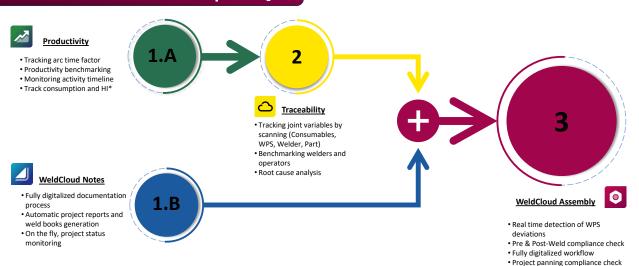
- From the moment to start to Create the project.
- > Tracking welding sections, consumption rates.
- > Equipment health.
- Merge all the documents: WPSs, NDT and certificates.
- Receiving SMS, Emails reports TO CHECK THE PROGRESS AND GIVE APPROVELS.

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Indusuite workflow | Steps



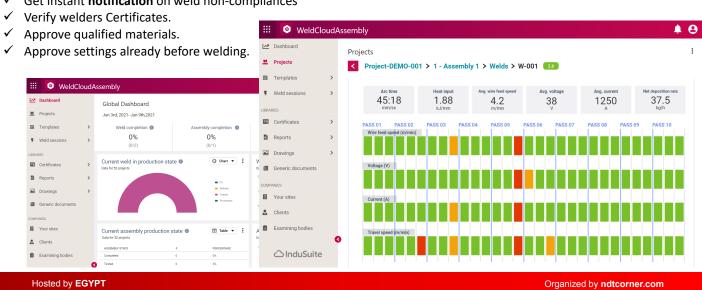
*: with WeldCloud Mobile only





Statistics and Analytics

- ✓ Full traceability of projects and components with actual weld parameters
- ✓ Get instant notification on weld non-compliances





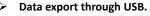


HKS – Weld Scanner

WeldScanner Multi-talented recording device



- Designed and produced by HKS Prozesstechnik in Germany
- Multipurpose measuring device, usable as:
 - ☐ Voltage.
 - ☐ Current.
 - Arc time.
 - □ Heat Input.
 - □ Gas flow



Touch screen with curve progression that shows all welding parameters.



00:12 \$17-09-4_WPS32					
A	373,1 A	٧	24,79 ∨	o o	9,91 m/min
∱ G	17,1 ½	뮤	87,3 cm/	т	547,1 ℃
L	mm	E/L	kJ/		3,4 s

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Gas Flow Sensor

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Customers that are today using InduSuite

























MANCOR























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