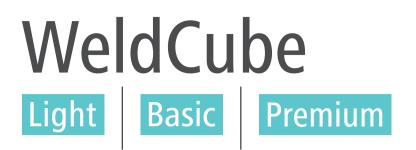


WELDCUBE

The software solutions portfolio from Fronius for welding data management



Alongside productivity and time saving, transparency and safety are also common requirements in the Welding Technology production. In order to achieve this, welding data needs to be recorded for documentation and analysis, with these topics growing in significance as a result.

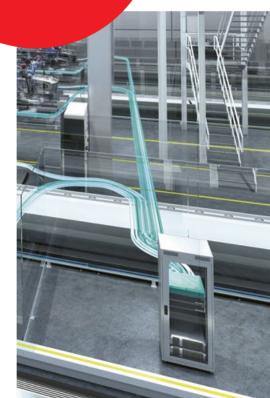
Immediate feedback from production helps to optimize processes, monitor system statuses and identify errors in order to ensure safety and high quality when manufacturing.

WeldCube offers a variety of solutions for small enterprises and large corporations alike that allow these goals to be met through networked Fronius welding systems.

What's your welding challenge?







<text>

/ 3



WeldCube DATA MANAGEMENT

Fronius offers the optimal web-based software solution for the ongoing planning, collection, analysis and visualization of welding technology production data in the form of WeldCube, with various versions available.

Depending on the variants, welding and system data can either be recorded locally and directly in the welding systems and visualized online, or compiled, evaluated and analyzed centrally.

USER MANAGEMENT

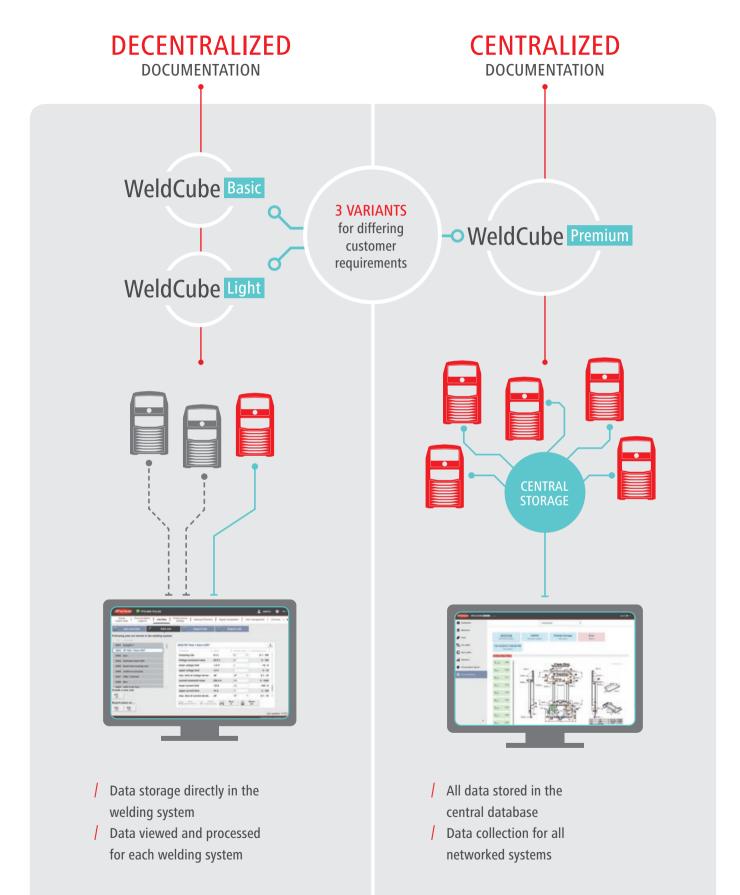
The TPS/i has an authorization system which enables the user to create individual authorizations.

Users log in to the welding system using a card or a key fob, which is assigned specifically to them.

THE BENEFITS

- / Individual authorizations
- / Traceability in combination with WeldCube
- / Reduction in faults





WeldCube Light

/6

MINIMAL DECENTRALIZED DOCUMENTATION AS STANDARD FOR EVERY TPS/i WeldCube Light is available in SmartManager in every TPS/i for no additional cost. Mean values for every weld seam are recorded directly in the welding system, which can then be separately visualized online for each TPS/i and exported in PDF format.



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- / Free introduction to the world of documentation
- / Transparency and traceability at seam level
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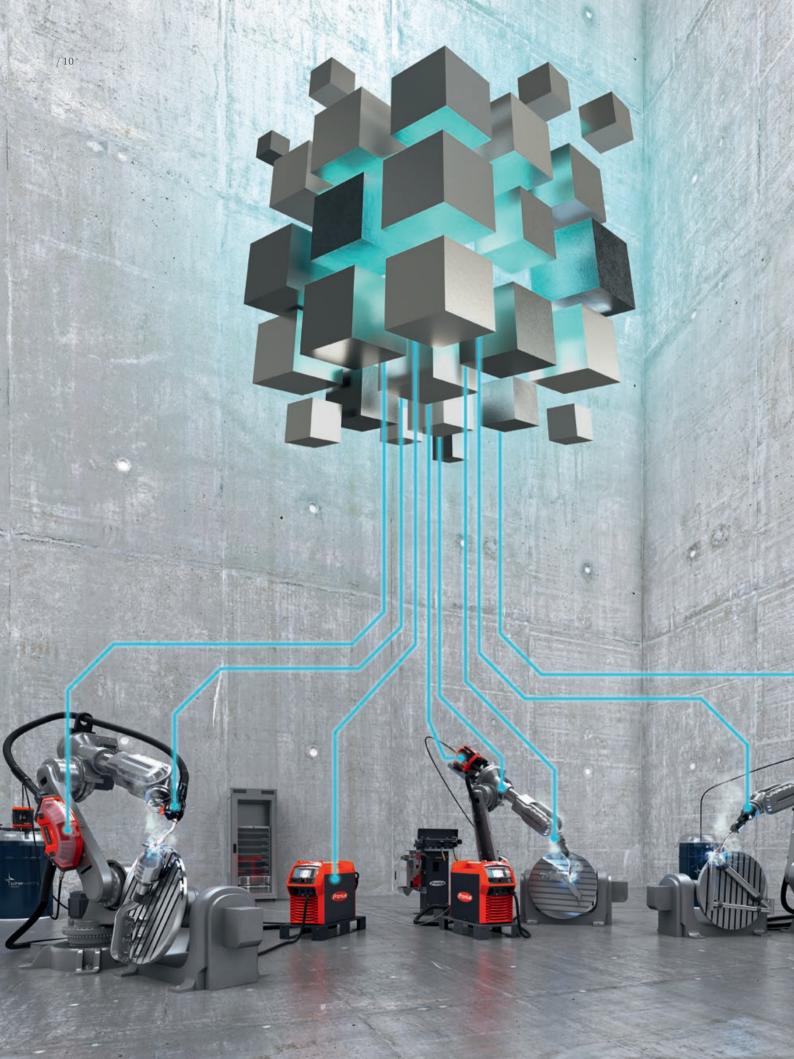
WeldCube Basic

EXTENDED DECENTRALIZED DATA DOCUMENTATION WITH CONFIGURABLE RANGE OF FUNCTIONS WeldCube Basic is the ideal solution for users who not only need mean values, but actual values with a sampling rate up to 100 ms. limit monitoring or editing functions for set values. This variant also records data directly in the welding system and provides online visualization for each TPS/i. The data is available as a PDF or CSV export.

HELPS TO MAINTAIN WELDING QUALITY AND PROCESS STABILITY:

Limit violations are documented and highlighted

The IMPORT/EXPORT FUNCTION enables jobs to be transferred to other systems Create and process jobs IB) JOB 4 Franius 🔗 TPS 600i PULSE 👤 admin DE EN V Actual Documentation Job Data Power source Backup & Restore Signal visualization User management Overview & / Edit Job M Import Job Export Job Following jobs are stored in the welding system 0001 Easyjob 1 0002 RE fillet 1.5mm CMT 0002 RF fillet 1.5mm CMT | Value Sampling rate 0.1 s 0.1 . 0.1 - 100 0003 test Voltage command value 25.0 V 0 - 100 0004 Kehlnaht 2mm CMT 25 lower voltage limit -1.0 V -1 -10 - 0 0005 8mm/1mm overlap cmt upper voltage limit 1.0 V 0 - 10 0006 robdrive syncpuls max. time of voltage deviat ... off off 0.1 - 10 0007 PMC 1,5m/min current command value 250.0 A 250 0 - 1000 0008 Ben -100 - 0 lower current limit -10 A -10 0009 CMT CvSt Test Create a new Job upper current limit 10 A 10 0 - 100 103 off max, time of current deviat... off . 0.1 - 10 adjustments X adjustments Save as Delete Export job(s) as ... last updated: 14:05:14 © 2018 Fronius International GmbH PDF export (+) CSV export Define limit values (!)Welding jobs can be exported based on the selected sampling rate THE ADVANTAGES OF CSV-Setting WeldCube Basic Welds eams seams & sections sampling values SCALABLE RANGE OF FUNCTIONS: 16.9 Additional data 16.7 I min/max values options for jobs, actual-value ditle list Limit monitoring documentation and limit monitoring Save CSV Cancel × Ideal solution for smaller companies 116 A 20.8 V 7.1 m/min 3168.5 W 19.8 kJ with few welding systems 21.0 V 7.3 m/min 3297.4 W 30.2 kJ 120 A / Transparency and traceability at A 21.1 V 7.3 m/min 3280.2 W 49.7 kJ 1031 04 minin 1044 4 W 4034 seam level Can be upgraded at any time





WeldCube Premium

CENTRALIZED DOCUMENTATION SOLUTION WITH INTELLIGENT MANAGEMENT, STATISTICAL AND ANALYSIS FUNCTIONS, AND GRAPHICAL VISUALIZATION OF RESULTS

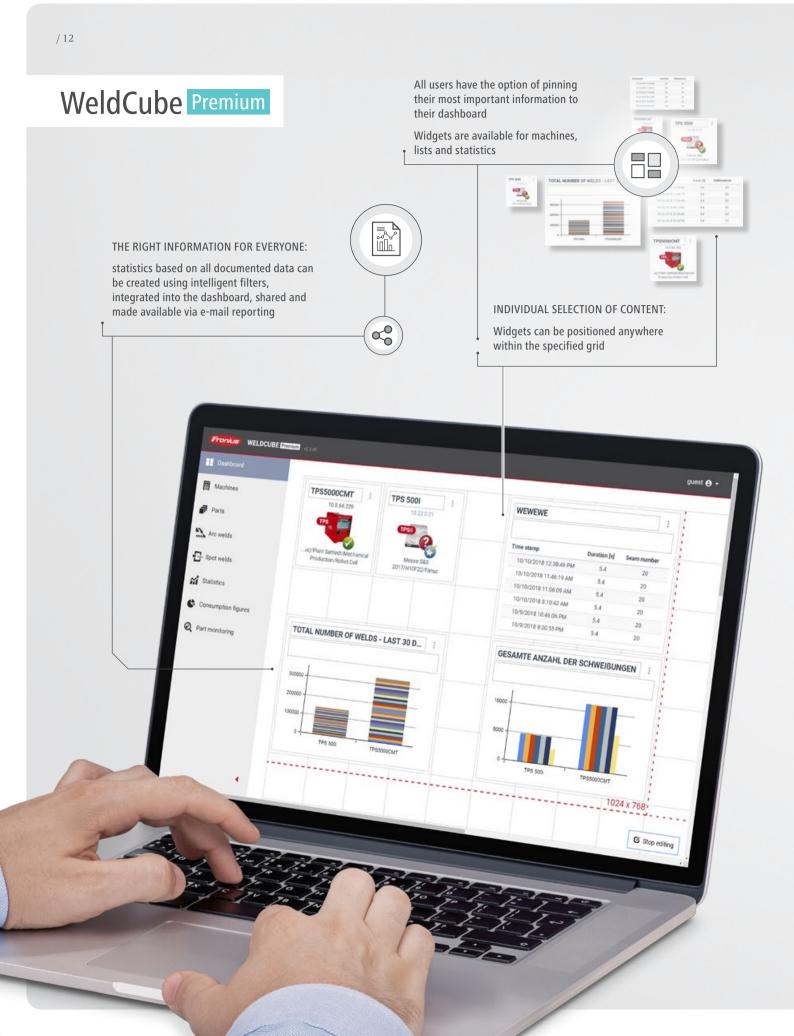
- / WeldCube Premium stores the welding data of networked Fronius systems in a central database.
- / As well as Fronius TPS/i, digital systems and Fronius DeltaSpot can also be used with WeldCube Premium.
- / Centralized data storage enables comprehensive and workpieceoriented documentation, evaluation and analysis of the data.
- / Table and graph-based evaluations are available at the push of a button.
- / The integrated Web API also enables data to be forwarded to third-party systems after being compiled and standardized.

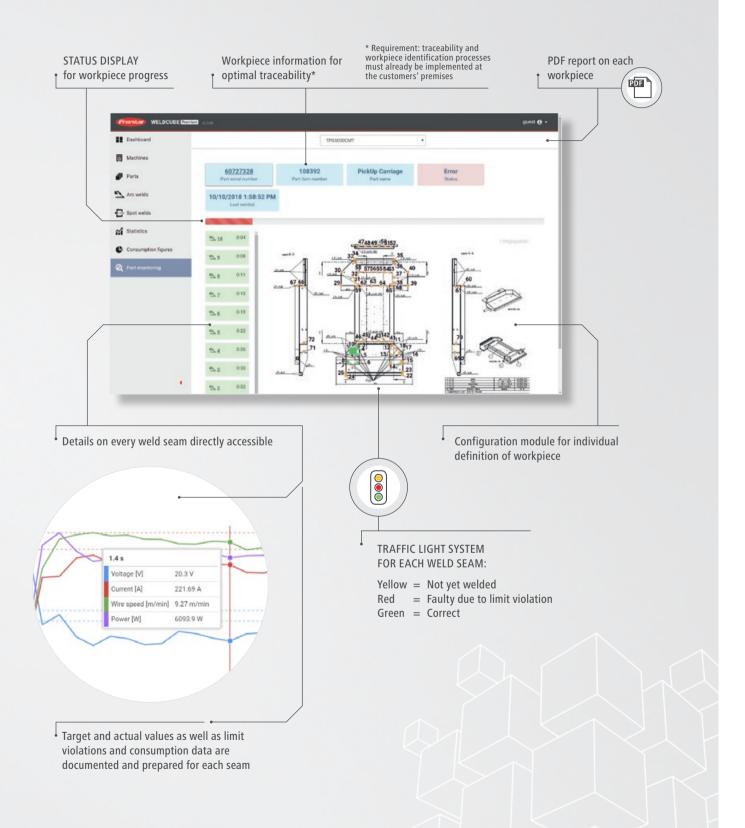


WeldCube Connect

WeldCube Connect allows prepared data to be sent to third-party systems.

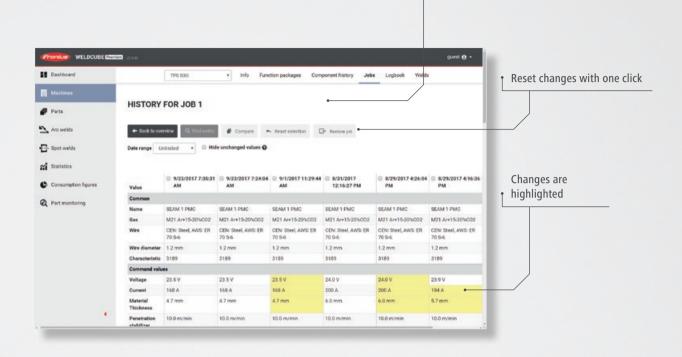
/ File export and Web API interfaces





WeldCube Premium

ALL CHANGES TO JOBS AT A GLANCE for traceability, including change date and time



WeldCube Subscription

WeldCube subscription keeps the software up-to-date at all times. New functions and improvements are included.

WeldCube PerfectStart

WeldCube PerfectStart provides support from initial installation through to software training for users. Now there is nothing standing in the way of perfect quality from day one.

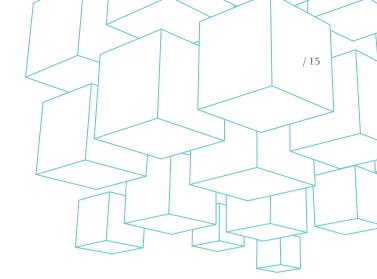
THE ADVANTAGES OF WeldCube Premium

- / Centralized documentation with automated evaluation and analysis
- Proof of quality
- / Time and cost savings through optimization and more efficient working
- / Traceability and transparency at workpiece level

Experience WeldCube Premium's full range of functions right now in the live demo at www.fronius.com/weldcube

OVERVIEW OF RANGE OF FUNCTIONS WeldCube

	Light	Basic	oremum
DATA STORAGE			
Decentralized in the welding system		-	
Centralized database			
PERSONALIZED DASHBOARD			
Editable dashboard			
DEVICE OVERVIEW AND MACHIN	E DETAILS		
System component overview			
System component history			
Location overview incl. status			
Automatic machine backup			•
Restoration of system settings	•	•	•
SET VALUES/JOB MANAGEMENT			
Show jobs			
Edit jobs			
Create jobs			•
Delete jobs			
Compare jobs			
PDF export of job data			
CSV export of job data			
XML export and import of jobs		•	
Centralized job management (display, create, edit, copy, limit calculation)			•
Job history			
Automatic back-up of jobs			
Restoration of jobs			
STATISTICS AND ANALYSIS			
Creation of statistics			





WELDING DATA DOCUMENTATION AND MONITORING

Average values per weld seam (U, I, Vd)	•	•	-
Data sampling rate (up to 100 ms)		•	-
Time per weld seam			
Welders per weld seam			-
Export of weld seam data (PDF)			
Export of weld seam data (CSV)			
Export of weld seam data (JSON, XML)			-
Visualization of seams in diagrams			-
Limit function (I, U, Vd) – Define limits and reactions		•	•
Documentation and visualization of limit violations		•	-
Automatic calculation of limits			

WORKPIECE MANAGEMENT

Workpiece documentation	•
Workpiece administration	
Workpiece monitoring	
Export of workpiece reports (PDF)	•
Display of gas and wire costs per workpiece	•
Limit information in workpiece documentation and reports	•
WELDCUBE CONNECT	



v09 May 2018 EN

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/ Perfect Welding / Solar Energy / Perfect Charging

THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 4,550 employees worldwide and 1,241 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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