DATA ANALYSIS

SALES@TECHNAX.COM

WWW.TECHNAX.COM

220, rue Ferdinand Perrier
69800 Saint-Priest / France

☎: +33 (0)4 78 90 01 61
🖷 : +33 (0)4 78 90 85 79

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WELDING MONITOR

Besides the traditional welding and quality controls already available in every TECHNAX machine and equipment, this tool is an additional service offering long-term traceability of the welding data.

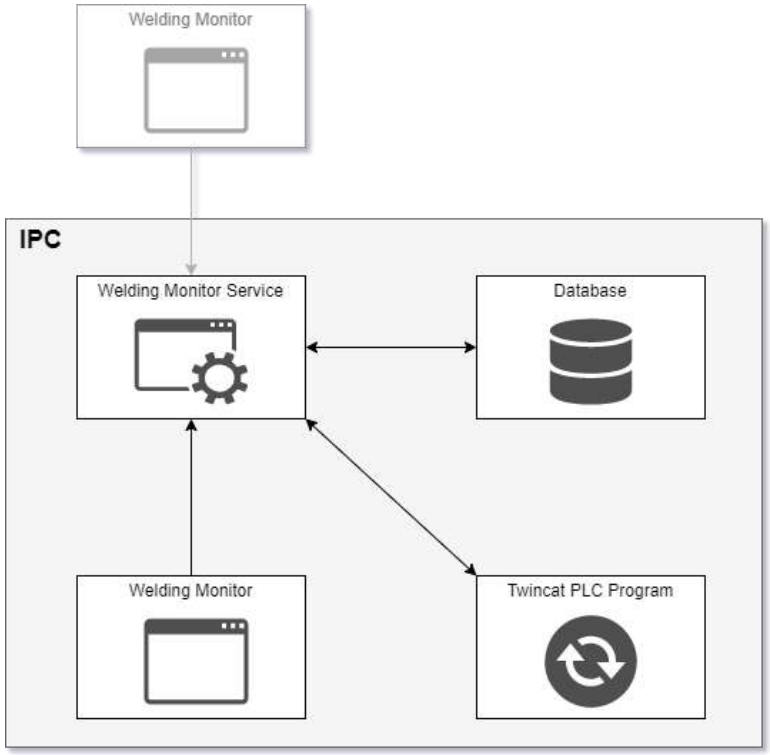
Through its user-friendly HMI, it provides a deep analysis of the main welding data over several hundred thousand welds and is a very interesting indicator of your production records.

One tool (software) can control several different power sources simultaneously.

WELDING MONITOR ARCHITECTURE

The solution is built around three blocs :

- The Service application which will be executed on the IPC to recover data
- The Database which will contain the process data from the machine
- The analysis application which will allow to recover and display the data; it can be installed on any computer



DASHBOARD

The dashboard shows following information :

- Welds quantity
- History over welds quantity
- History over non-compliant welds quantity
- Quality rate

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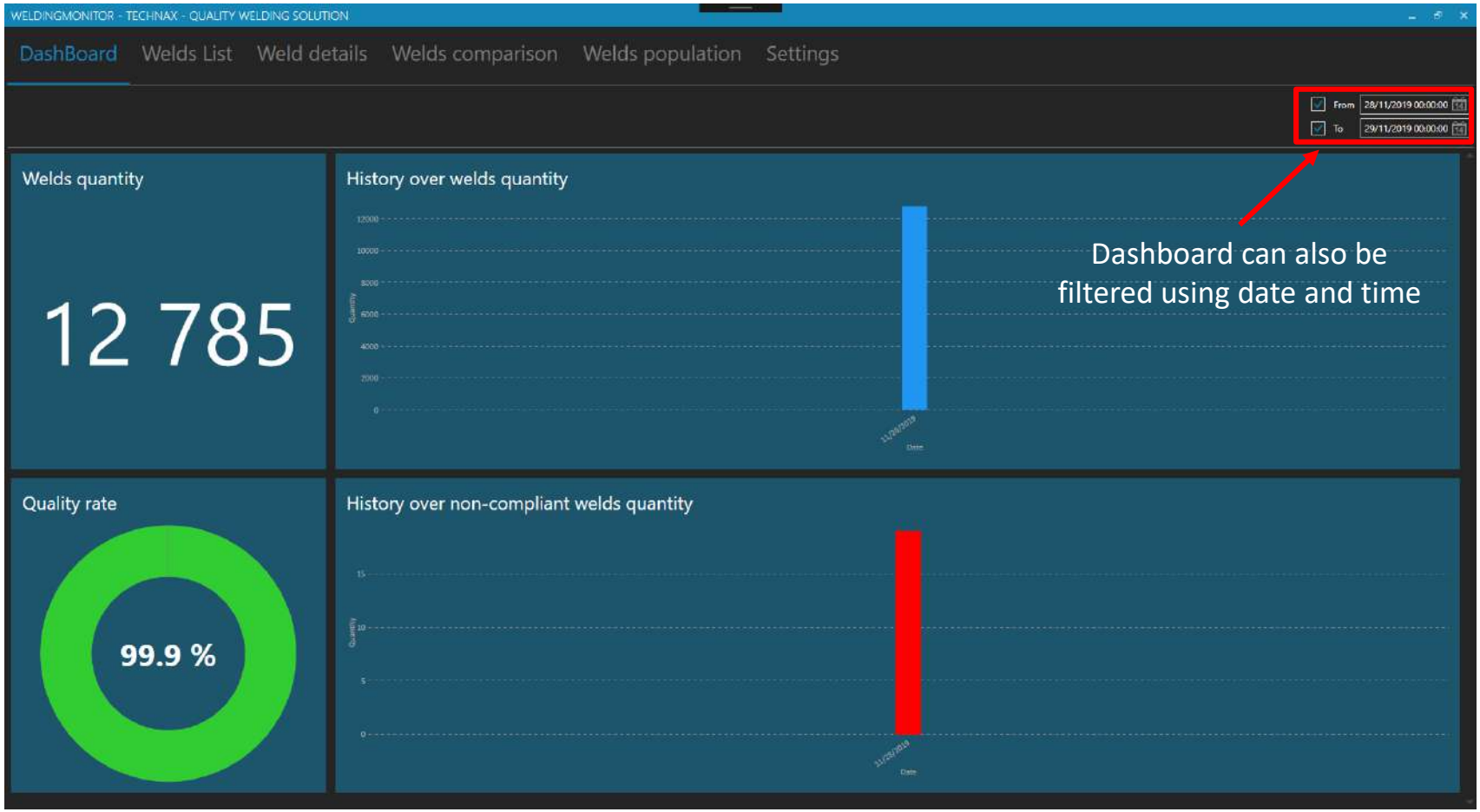
DASHBOARD BY DATE AND TIME



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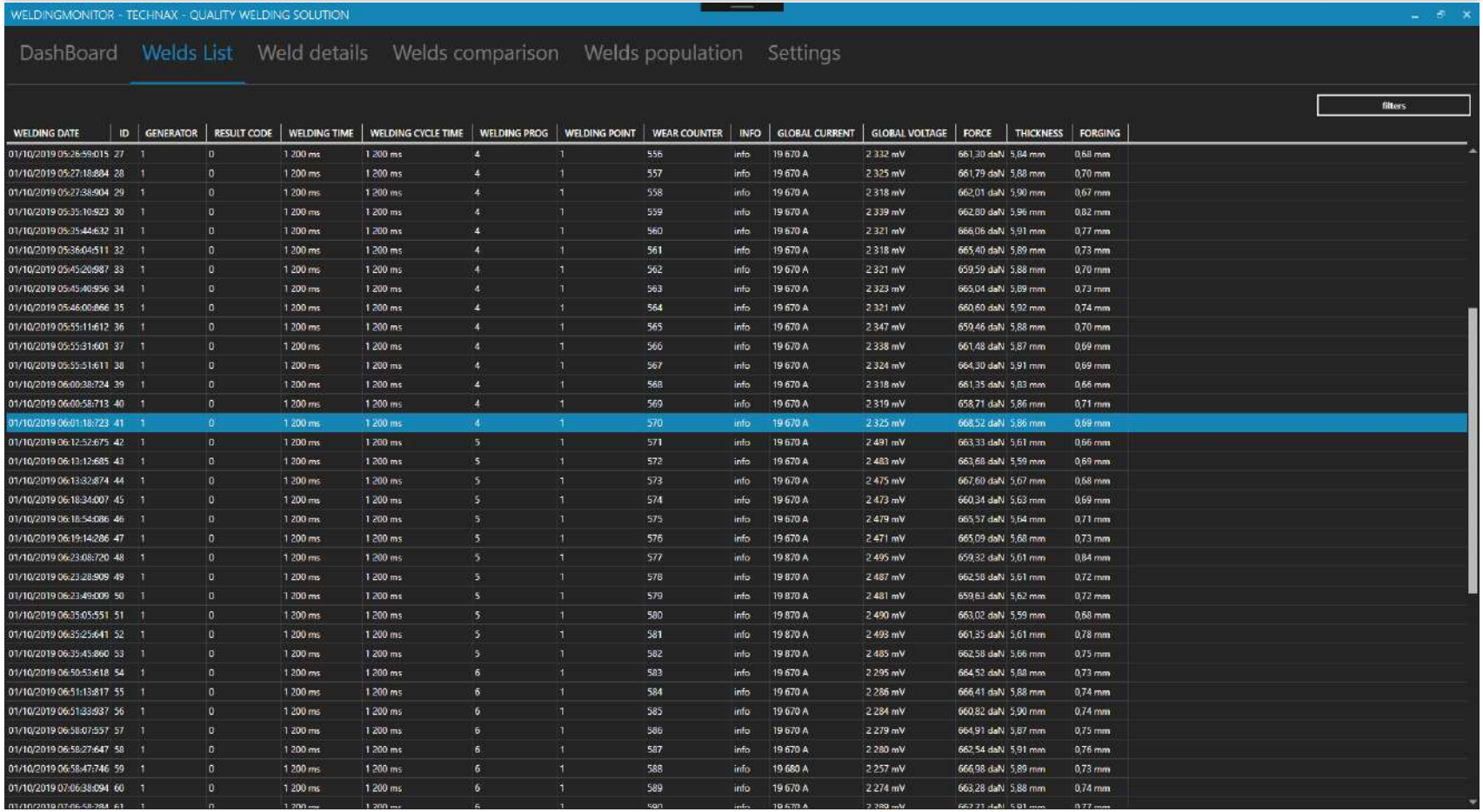
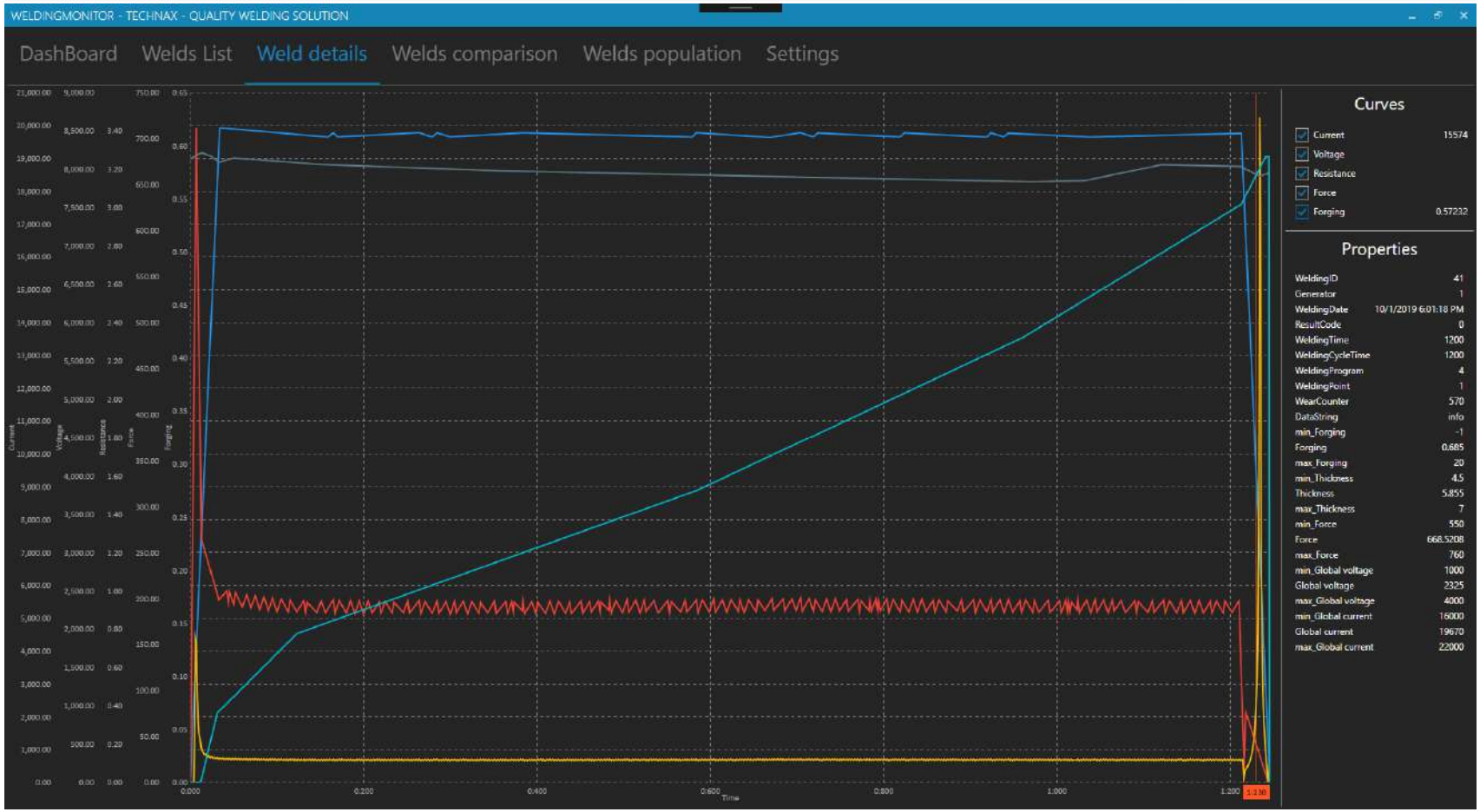
WELDS LIST



WELDING DATE	ID	GENERATOR	RESULT CODE	WELDING TIME	WELDING CYCLE TIME	WELDING PROG	WELDING POINT	WEAR COUNTER	INFO	GLOBAL CURRENT	GLOBAL VOLTAGE	FORCE	THICKNESS	FORGING
01/10/2019 05:26:59:015	27	1	0	1 200 ms	1 200 ms	4	1	556	info	19 670 A	2 332 mV	661,30 daN	5,84 mm	0,68 mm
01/10/2019 05:27:18:884	28	1	0	1 200 ms	1 200 ms	4	1	557	info	19 670 A	2 325 mV	661,79 daN	5,88 mm	0,70 mm
01/10/2019 05:27:38:904	29	1	0	1 200 ms	1 200 ms	4	1	558	info	19 670 A	2 318 mV	662,01 daN	5,90 mm	0,67 mm
01/10/2019 05:35:10:923	30	1	0	1 200 ms	1 200 ms	4	1	559	info	19 670 A	2 339 mV	662,80 daN	5,96 mm	0,82 mm
01/10/2019 05:35:44:632	31	1	0	1 200 ms	1 200 ms	4	1	560	info	19 670 A	2 321 mV	666,06 daN	5,91 mm	0,77 mm
01/10/2019 05:36:04:511	32	1	0	1 200 ms	1 200 ms	4	1	561	info	19 670 A	2 318 mV	665,40 daN	5,89 mm	0,73 mm
01/10/2019 05:45:20:987	33	1	0	1 200 ms	1 200 ms	4	1	562	info	19 670 A	2 321 mV	659,59 daN	5,88 mm	0,70 mm
01/10/2019 05:45:40:956	34	1	0	1 200 ms	1 200 ms	4	1	563	info	19 670 A	2 323 mV	665,04 daN	5,89 mm	0,73 mm
01/10/2019 05:46:00:866	35	1	0	1 200 ms	1 200 ms	4	1	564	info	19 670 A	2 321 mV	660,60 daN	5,92 mm	0,74 mm
01/10/2019 05:55:11:612	36	1	0	1 200 ms	1 200 ms	4	1	565	info	19 670 A	2 347 mV	659,46 daN	5,88 mm	0,70 mm
01/10/2019 05:55:31:601	37	1	0	1 200 ms	1 200 ms	4	1	566	info	19 670 A	2 338 mV	661,48 daN	5,87 mm	0,69 mm
01/10/2019 05:55:51:611	38	1	0	1 200 ms	1 200 ms	4	1	567	info	19 670 A	2 324 mV	664,30 daN	5,91 mm	0,69 mm
01/10/2019 06:00:38:724	39	1	0	1 200 ms	1 200 ms	4	1	568	info	19 670 A	2 318 mV	661,35 daN	5,83 mm	0,66 mm
01/10/2019 06:00:58:713	40	1	0	1 200 ms	1 200 ms	4	1	569	info	19 670 A	2 319 mV	658,71 daN	5,86 mm	0,71 mm
01/10/2019 06:01:18:723	41	1	0	1 200 ms	1 200 ms	4	1	570	info	19 670 A	2 325 mV	668,52 daN	5,86 mm	0,69 mm
01/10/2019 06:12:52:675	42	1	0	1 200 ms	1 200 ms	5	1	571	info	19 670 A	2 491 mV	663,33 daN	5,61 mm	0,66 mm
01/10/2019 06:13:12:685	43	1	0	1 200 ms	1 200 ms	5	1	572	info	19 670 A	2 483 mV	663,68 daN	5,59 mm	0,69 mm
01/10/2019 06:13:32:874	44	1	0	1 200 ms	1 200 ms	5	1	573	info	19 670 A	2 475 mV	667,60 daN	5,67 mm	0,68 mm
01/10/2019 06:18:34:007	45	1	0	1 200 ms	1 200 ms	5	1	574	info	19 670 A	2 473 mV	660,34 daN	5,63 mm	0,69 mm
01/10/2019 06:18:54:086	46	1	0	1 200 ms	1 200 ms	5	1	575	info	19 670 A	2 479 mV	665,57 daN	5,64 mm	0,71 mm
01/10/2019 06:19:14:286	47	1	0	1 200 ms	1 200 ms	5	1	576	info	19 670 A	2 471 mV	665,09 daN	5,68 mm	0,73 mm
01/10/2019 06:23:08:720	48	1	0	1 200 ms	1 200 ms	5	1	577	info	19 870 A	2 495 mV	659,32 daN	5,61 mm	0,84 mm
01/10/2019 06:23:28:909	49	1	0	1 200 ms	1 200 ms	5	1	578	info	19 870 A	2 487 mV	662,58 daN	5,61 mm	0,72 mm
01/10/2019 06:23:49:009	50	1	0	1 200 ms	1 200 ms	5	1	579	info	19 870 A	2 481 mV	659,63 daN	5,62 mm	0,72 mm
01/10/2019 06:35:05:551	51	1	0	1 200 ms	1 200 ms	5	1	580	info	19 870 A	2 490 mV	663,02 daN	5,59 mm	0,68 mm
01/10/2019 06:35:25:641	52	1	0	1 200 ms	1 200 ms	5	1	581	info	19 870 A	2 493 mV	661,35 daN	5,61 mm	0,78 mm
01/10/2019 06:35:45:860	53	1	0	1 200 ms	1 200 ms	5	1	582	info	19 870 A	2 485 mV	662,58 daN	5,66 mm	0,75 mm
01/10/2019 06:50:53:618	54	1	0	1 200 ms	1 200 ms	6	1	583	info	19 670 A	2 295 mV	664,52 daN	5,88 mm	0,73 mm
01/10/2019 06:51:13:817	55	1	0	1 200 ms	1 200 ms	6	1	584	info	19 670 A	2 286 mV	666,41 daN	5,88 mm	0,74 mm
01/10/2019 06:51:33:937	56	1	0	1 200 ms	1 200 ms	6	1	585	info	19 670 A	2 284 mV	660,82 daN	5,90 mm	0,74 mm
01/10/2019 06:58:07:557	57	1	0	1 200 ms	1 200 ms	6	1	586	info	19 670 A	2 279 mV	664,91 daN	5,87 mm	0,75 mm
01/10/2019 06:58:27:647	58	1	0	1 200 ms	1 200 ms	6	1	587	info	19 670 A	2 280 mV	662,54 daN	5,91 mm	0,76 mm
01/10/2019 06:58:47:746	59	1	0	1 200 ms	1 200 ms	6	1	588	info	19 680 A	2 257 mV	666,98 daN	5,89 mm	0,73 mm
01/10/2019 07:06:38:094	60	1	0	1 200 ms	1 200 ms	6	1	589	info	19 670 A	2 274 mV	663,28 daN	5,88 mm	0,74 mm

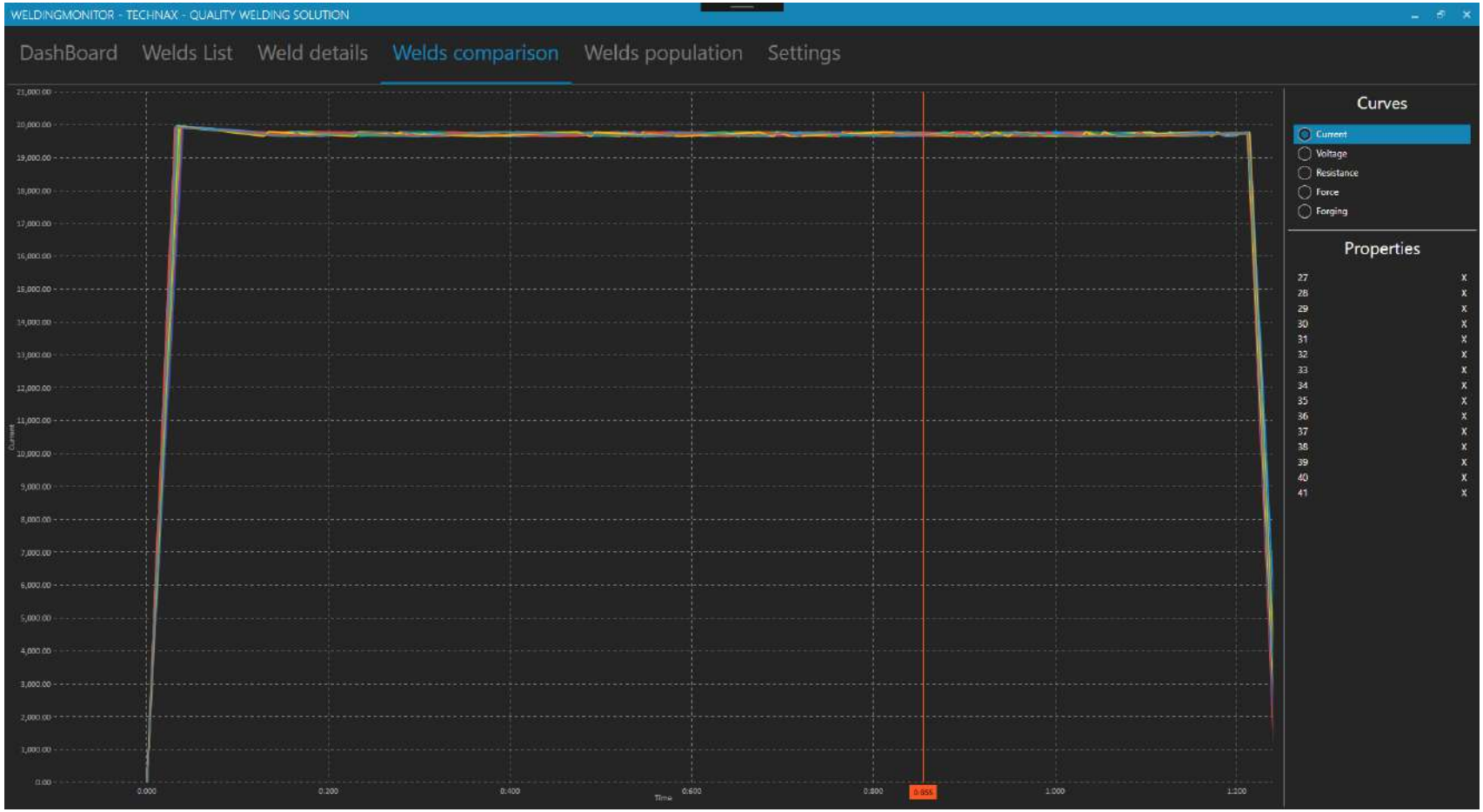
It is possible to browse the list of all saved welds in the welding list tab. Characteristics of each weld will be displayed, like date, result code, welding program and a data matrix of the customer part. Specific information like force, if the machine is accordingly equipped, can be shown as well.

WELD DETAILS



The complete information of one weld can be shown on the HMI.
Colored curves indicating current, voltage, resistance, force and forging values are displayed.

WELDS COMPARISON



From the welding list, multiple selected welds can be shown and compared (up to 10 welds max.).

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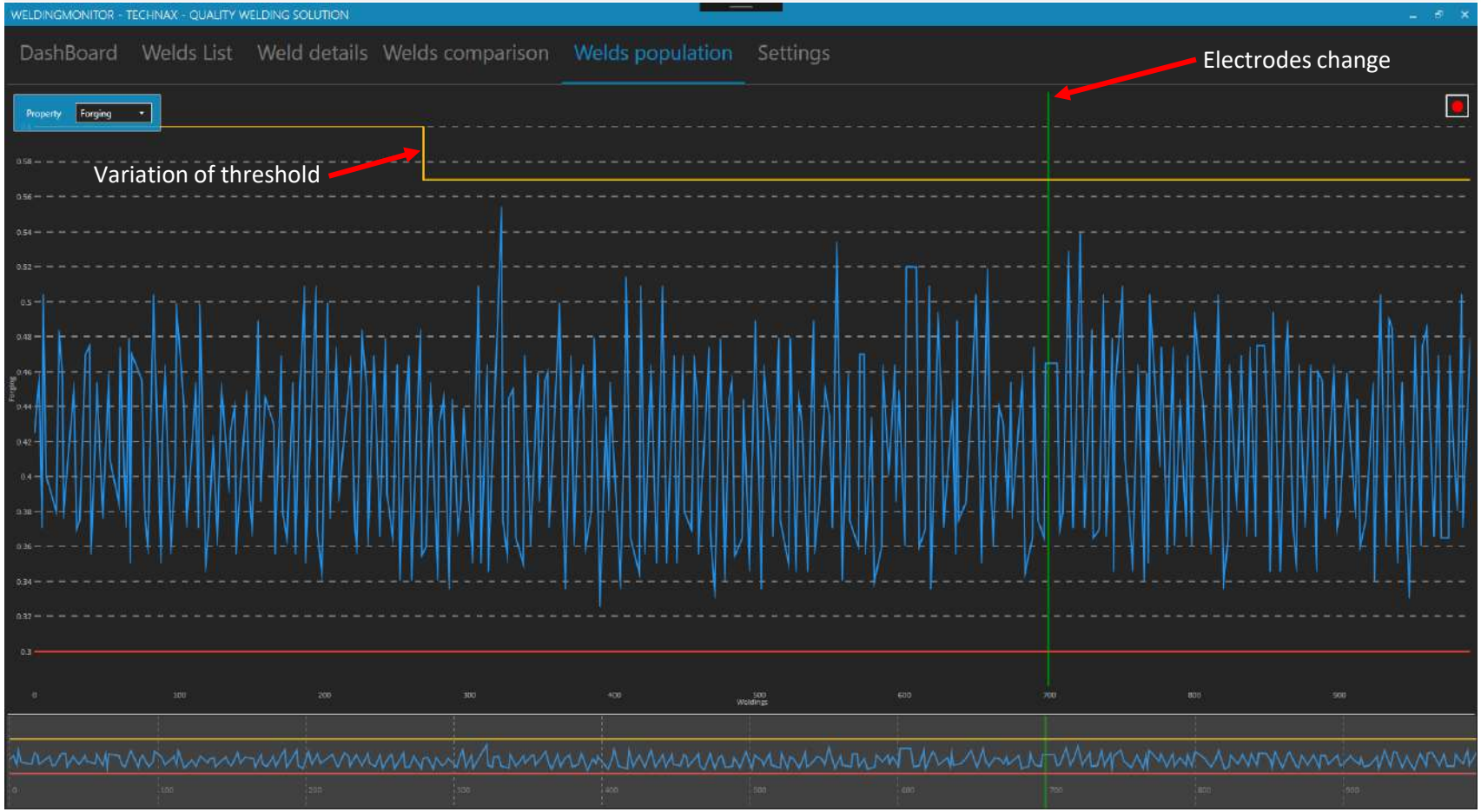
WELDS POPULATION



A population of welds filtered by one welding property can be shown. Property thresholds with its variations will be displayed. Electrodes changes are recorded as well.

CONCLUSION

TECHNAX is continuously working on this tool. New functionalities and developments will be available soon. We will keep you updated.

TECHNAX would like to thank you for your attention and interest, and hope considering you among its future business partners.