



Q4 TASMEN

- Advanced CCD-Based Optical Emission Spectrometer

Innovation with Integrity

OES



Your Complete Source for
Testing Equipment Since 1969!

www.BergEng.com
Berg Engineering & Sales Company, Inc.

1-847-577-3980
info@BergEng.com

Analytical Performance that Exceeds Your Requirements

Your analytical requirement is our inspiration

At Bruker, we design and develop advanced OES systems to meet or exceed your analytical needs. The Q4 TASMAN provides the answers you need fast, using the very latest, state-of-the-art technologies.

Our engineers have designed innovative solutions that make the Q4 TASMAN OES system fully suitable not only for your dedicated applications, but also for many general purpose applications.

The result is a CCD-based instrument, which lets you achieve your goals faster, more reliably, and more cost-effectively than ever before.



ELEMENTAL.SUITE software provides full touchscreen capabilities.

Enjoy shorter measurement times

Q4 TASMAN features shorter measurement cycles compared to any conventional system. The readout scans all CCDs up to 30 times faster than before. The results are higher dynamic ranges with shorter measurement times. Faster time-to-result improves your efficiency and increases your profitability.

Competitive athlete at heart

The optical system is the heart of the spectrometer: the well-proven Paschen-Runge mounting is equipped with ClearSpectrum technology. The combination of high-resolution CCDs and the latest firmware provides excellent performance from a very compact design.

Spectra deconvolution and evaluation are covered by a duo of firmware and software. Just place the sample in position and press the start button!

Performance is at the tip of your fingers. After just a short while, accurate analysis results appear with color indicators.

Everything is goal-oriented

Co-axial argon flow puts the gas where it is needed: at the burn spot eliminating the need for a standby flow. In addition, the analysis of small samples and wires, by using adapters, is simpler than ever before.

Starting with Innovation

Bruker has designed the Q4 TASMAN spectrometer to achieve unrivaled performance:

Proven co-axial argon flow combines analytically optimized flows with reduced consumption. More accuracy can be achieved analyzing small samples.

- CCD-based spectrometer features ClearSpectrum technology
- Analytical Solution Packages (ASP) provide turn-key solutions for your applications
- Less down-time with automatic control and diagnosis functions lead to higher availability

New ELEMENTAL.SUITE OES software, designed for maximum usability, with handy features and supportive functions:

- Routine operation with Automatic Method Finding (AMF)
- Professional reporting system for customized analysis reports and pre-configured grade library
- Comprehensive user and access management
- Designed for both desktop and touchscreen operation
- ELEMENTAL.SUITE Results Publishing (ESRP) system for exporting analysis results



Simply Analyze

Three models for your applications

The right solution for your application:

Q4 TASMAN 200 – Ideally suited for all non-ferrous applications where UV elements are not required.

Q4 TASMAN 170 – Is the choice for ferrous applications with important elements in the UV spectral range (C, P, S, As, Sn, B, etc.).

Q4 TASMAN 130 – Finally the most powerful of the series, capable of analyzing even deep-UV elements like nitrogen, oxygen.

Analytical solution packages

Any Q4 TASMAN offers dedicated solutions for your analytical tasks. The Analytical Solution Packages (ASP) are available per matrix: elements, calibrations, alloys and more.

In no time at all, you receive reliable, complete analytical results.

Superior technology

The Q4 TASMAN unites outstanding solutions for metal analysis: optimal analytical performance, user-friendly and cost-effective operation.

Q4 TASMAN's superior analytical performance and economical operation is a great asset for your metal business.

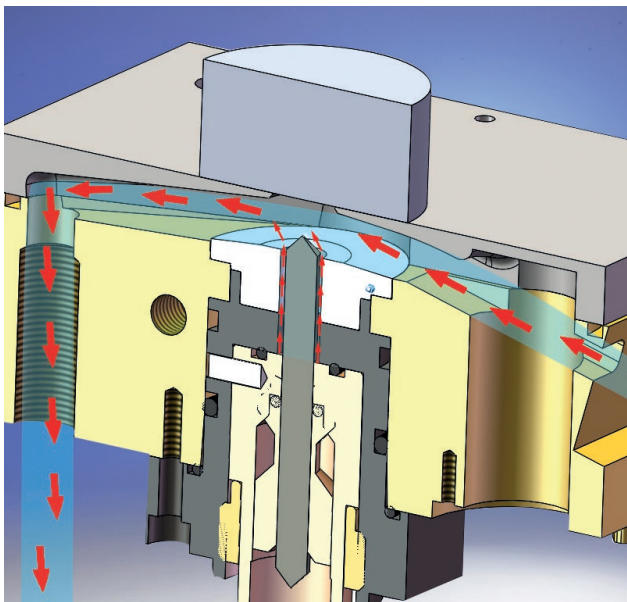
Bruker AXS Analysis Report

BRUKER

Sample:	H161117	Material:		Method:	Fe 130
Furnace No:		Heat No:		Order No:	
Analysis Time:	2018-05-15 14:52:29	User:		Unit:	%
	C	Si	Mn	P	S
\bar{x}	0.062	0.505	0.697	0.023	0.016
σ	0.0006	0.0051	0.0015	0.0005	0.0008
u	0.94	1.00	0.22	2.15	5.10
1	0.061	0.509	0.696	0.023	0.016
2	0.061	0.499	0.696	0.023	0.015
3	0.062	0.509	0.698	0.023	0.017
4	0.062	0.502	0.699	0.024	0.016
	Cr	Mo	Ni	Cu	Al
\bar{x}	17.65	2.195	8.639	0.021	0.0070
σ	0.014	0.040	0.051	0.0005	0.0003
u	0.08	1.81	0.59	2.41	4.12
1	17.63	2.185	8.609	0.021	0.0072
2	17.66	2.151	8.590	0.021	0.0072
3	17.66	2.247	8.705	0.020	0.0069
4	17.65	2.198	8.653	0.021	0.0066
	As	B	Ca	Co	Nb
\bar{x}	0.017	0.0024	0.0006	0.021	0.034
σ	0.00000	0.00005	0.00010	0.0029	0.0012
u	0.00	2.11	16.65	13.84	3.40
1	0.017	0.0023	0.0005	0.019	0.035
2	0.017	0.0024	0.0007	0.025	0.033
3	0.017	0.0024	0.0005	0.019	0.033
4	0.017	0.0024	0.0006	0.020	0.035
	Pb	Ti	V	N	Fe
\bar{x}	0.0017	0.0041	0.037	0.042	70.02
σ	0.0001	0.00005	0.0005	0.0013	0.100
u	7.51	1.21	1.36	3.11	0.14
1	0.0018	0.0041	0.037	0.041	70.08
2	0.0017	0.0042	0.037	0.040	70.10
3	0.0017	0.0041	0.036	0.043	69.88
4	0.0015	0.0041	0.037	0.042	70.00

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By adding your logo and other design elements you can create customized reports with the integrated report manager.



Co-axial argon flow: reduced consumption and minimized maintenance.



Technical Data

Optical System	Multi-detector optics Robust Paschen-Runge mounting ClearSpectrum technology Highest spectral sensitivity
Models	Q4 TASMAN 200 λ : 200 - 620 nm Q4 TASMAN 170 λ : 170 - 620 nm Q4 TASMAN 130 λ : 130 - 620 nm
Source Generator	Maintenance-free, two phase PWM generator Frequency 50 to 1000 Hz Discharge time from 10 μ s to 2 ms
ELEMENTAL.SUITE	Intuitive Windows® based software for simple routine operation Various user levels for secure and task-specific operation Functions for qualitative and quantitative analysis: <ul style="list-style-type: none"> ▪ ELEMENTAL.SUITE OES software including analysis database and interfaces to Microsoft Office® software ▪ Quality libraries with version control
Analytical Solution Packages (ASP)	Available for all common matrices All relevant alloying elements Calibrations for all grade/alloy groups
Electrical Data	100 to 240 V (50/60 Hz) 600 W during measurement, 50 W standby 16 A (240 V) slow blow fuse or 25 A (100 V) slow blow fuse
Weights & Dimensions	Width 540 mm / 21.26 inch Height 685 mm / 26.96 inch Depth 820 mm / 32.28 inch Weight ~75 kg / ~165 lbs

Bruker AXS is continually improving its products and reserves the right to change specifications without notice.
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