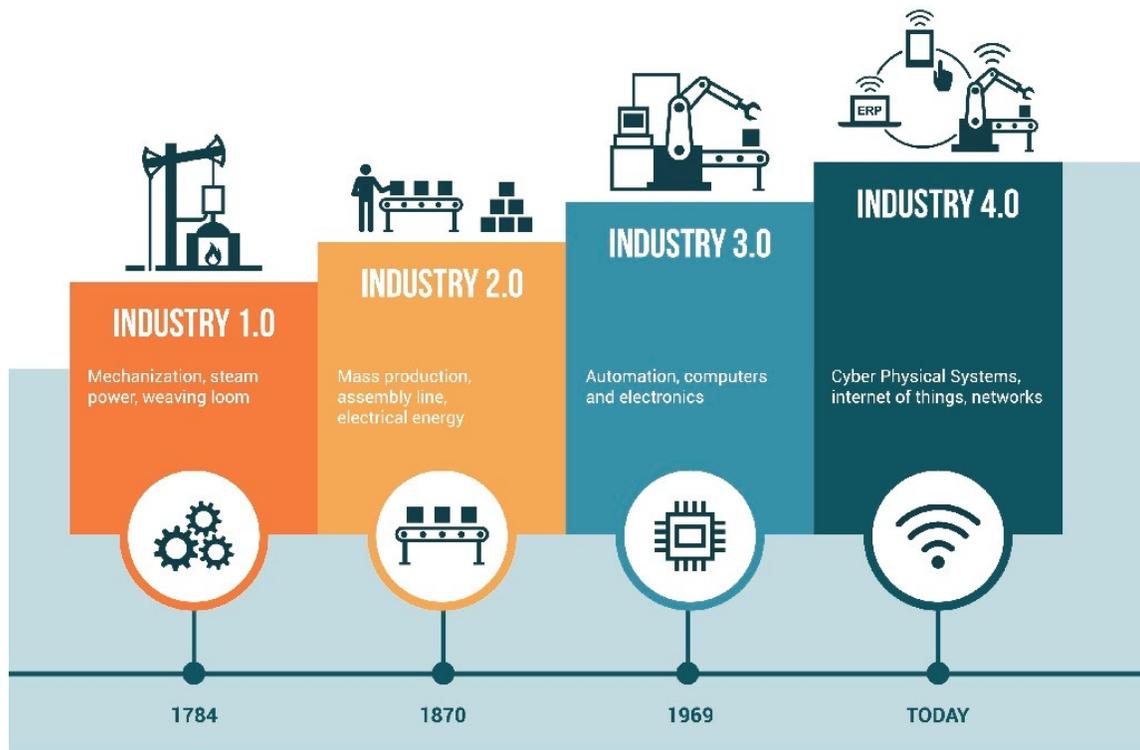


# Keeping Your VIEW Current - Oct. 17, 2019

## Big Data and ESPC

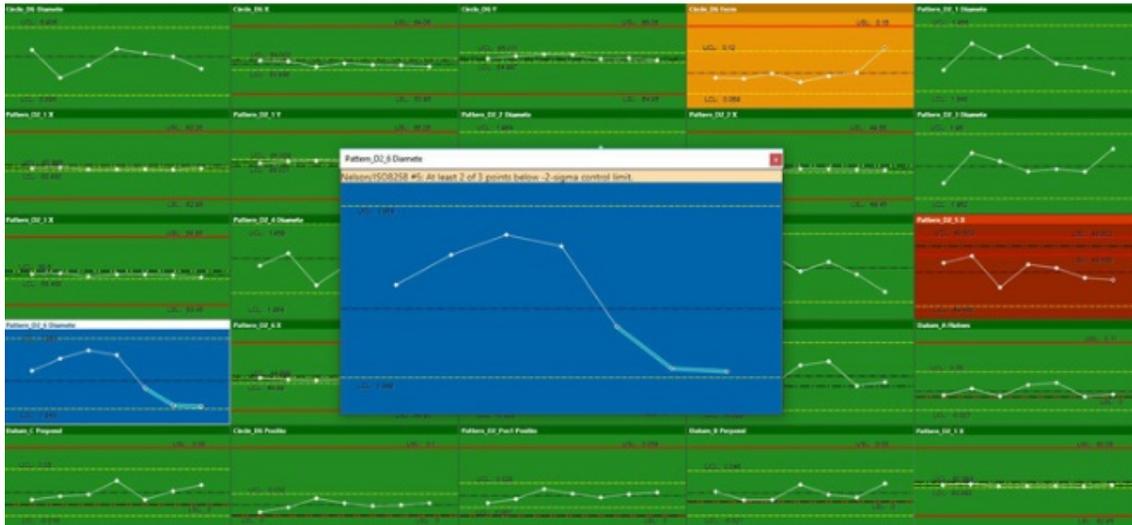
We live in a world of “Big Data”. Our phones track our commute to work, on-line shopping provides merchants with our preferences, and internet search engines analyze our likes and dislikes. Data is captured and analyzed to predict our future behavior. *Predictive Analytics* are also utilized in our manufacturing environments. If we can track and analyze characteristics of our manufactured components, we can begin to adjust "predictively" our processes prior to failure. The effort of collecting and monitoring dimensional data during the manufacturing process began with Edward Deming ([wikipedia.org/wiki/W. Edwards Deming](http://wikipedia.org/wiki/W._Edwards_Deming)) during the rebuilding efforts in Japan after WWII. The use of Process Control Charts, which depict dynamically specific characteristics, provide a graphic representation of the variability in our processes.

With the advent of high speed automated measuring systems (VIEW pioneered such with the RB-1 in 1977 -- [wikipedia.org/wiki/VIEW Engineering](http://wikipedia.org/wiki/VIEW_Engineering)), the ability to collect measurement data from manufactured components has increased tremendously. High speed cameras, accurate positioning stages, and techniques like strobing, have advanced the state of the art of measuring systems. The recent trend towards Industry 4.0 provides the opportunity of collecting data from the entire factory for the identification of factors that add variability to our processes.



The manufacturing process becomes closed loop and improves incrementally with addition data that is used to improve processes.





In addition to the storage in a database, **ESPC** offers Real-Time Process Control charting, descriptive statistics, correlation analysis, Gage Repeatability and Reproducibility studies and analysis, and template-based reporting. The VMS Edit Header can be used to enter the unique characteristics of each record which can be easily set-up for a GRR study.

**Edit Results Header** ✕

---

**Text Results File Name (\*.txt)**

**Excel Results File Name (full path) (\*.xls)**

**Vms**

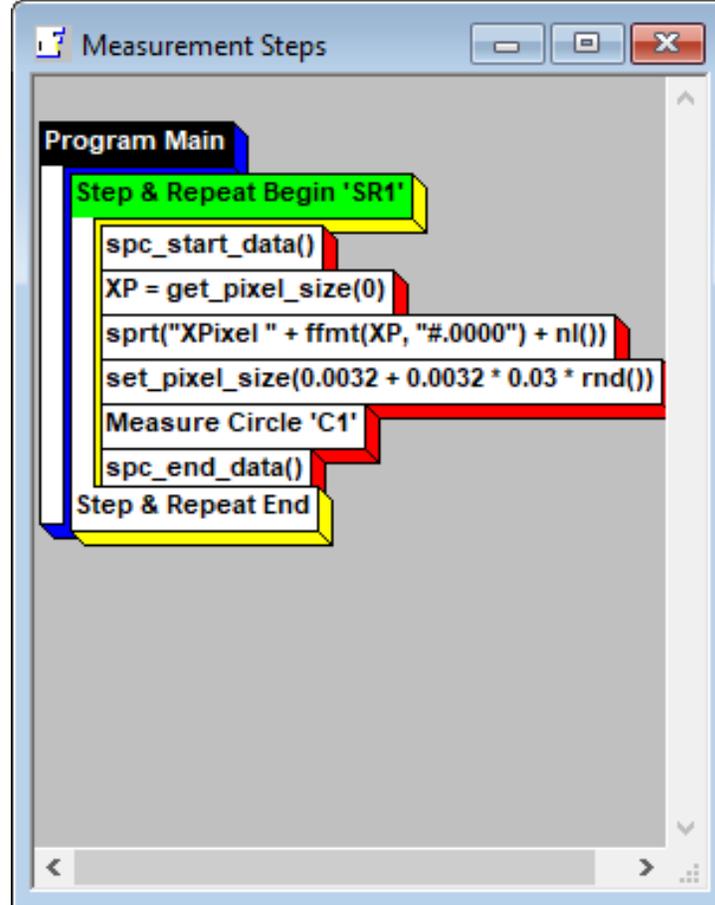
**Company** **Machine**

Mark Glowacky	Pinnacle
Operator	Part
CF	3
Trail	
2	

**Comment:**

ESPC is available for a 30-day trial by access through the Kotem web-site. [kotem.com/evolve-suite/evolve-spc/](http://kotem.com/evolve-suite/evolve-spc/). Kotem is a QVI company. You will receive a temporary license. A permanent license can be purchased from the On-Line Store at the same web-site.

VMS requires the use of two new functions that are used to surround the measurements you want to export to **ESPC**. The new functions are: “**spc\_start\_data()**” and “**spc\_end\_data()**”. The following sample VMS program depicts the usage of these functions in a program that generates sample data.



**ESPC** provides a tool for the management of measured data that allows “Big Data” to be utilized throughout your manufacturing process. Contact us and we will walk you through the set-up of **ESPC** and **VMS**. You can review a short video on **ESPC** at <https://vimeo.com/253794619>.

Coming up in the next edition of *The VIEW Vision*: Image Stitching

VIEW has always been committed to providing support for our products, regardless of age or condition. We maintain a limited inventory of unused, re-engineered and refurbished parts to support older systems. Unfortunately, some components have become unavailable. When this happens, older systems must be upgraded, if possible, or replaced. Certainly, the newer technologies provide greater utility and efficiency, which justify the cost and effort. Contact us for information on upgrading or replacing your older VIEW systems.

## How to Contact Us

### New System Sales and Customer Care

- *Managing Director:* [Justin Rucker](#), 253-691-8553 (mobile)
- *President:* [Mark Glowacky](#), 602-882-2141 (mobile)
- *Customer Care Coordinator:* [Jim Hyde](#), 480-295-3150 x5009
- *Email:* [sales@viewmm.com](mailto:sales@viewmm.com)
- *Phone:* 480-295-3150 (8am – 5pm MST)
- *Website:* <https://www.viewmm.com/>

### View Hardware or Software Upgrades

- *Email:* [service@viewmm.com](mailto:service@viewmm.com)
- *Phone:* 480-295-3150 (8am – 5pm MST)

### View Software and Application Support

- *Contact:* [Mark Bensele](#), 480-703-6284 (mobile)
- *Email:* [Applications@viewmm.com](mailto:Applications@viewmm.com)
- *Phone:* 480-295-3150 (8am – 5pm MST)

### North American Service and Support - Onsite repairs (Warranty & Non-Warranty), Preventative Maintenance/Calibration, and Hardware Technical Support

- *Contact:* [Adrian Bargren](#), 480-799-8583 (mobile)
- *Email:* [service@qvs.com](mailto:service@qvs.com)

- *Phone:* 1-800-SOS-VIEW (767-8439) (8am – 5pm MST)
- *Website:* <https://www.qvsi.com>

**Asian System Sales and Support**

- *Director of Asian Sales:* [Greg Epp](#)
- *Service and Support:* [Anthony Au](#)

VIEW Micro Metrology • [www.viewmm.com](http://www.viewmm.com)