

## M8 Flat Head Screw



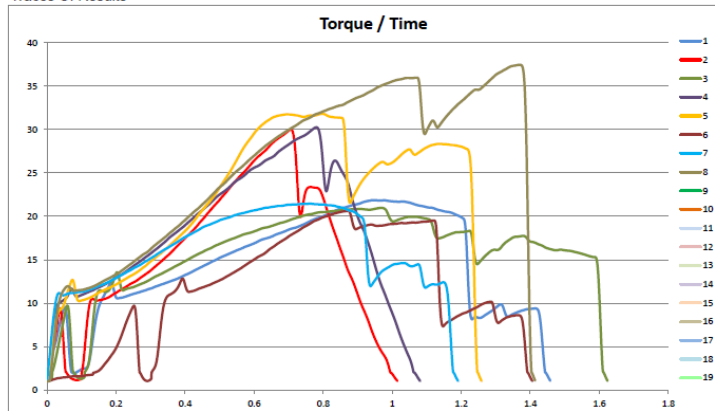
Date	2017-04-24 00:00
Serial Number	
Tool Type	Atlas Copco ETV ST61-50-B13
Application Name	M8 Flat Head Screw
Batch	8 Parts Tested
Comments	

### Part 1

Application Number	Date	Time	Max Torque	Units	Bolt Position	Notes
1	2017-04-24	15:25:43	21,800	Nm	Bolt 2	
2	2017-04-24	15:31:40	20,960	Nm	Bolt 1	
3	2017-04-24	15:32:15	20,980	Nm	Bolt 2	
4	2017-04-24	15:47:02	30,250	Nm	Bolt 1	
5	2017-04-24	15:48:11	31,800	Nm	Bolt 1	
6	2017-04-24	15:48:38	20,830	Nm	Bolt 2	
7	2017-04-24	15:53:23	21,450	Nm	Bolt 1	
8	2017-04-24	15:53:36	37,440	Nm	Bolt 2	Outlier

Bolt 1 Average Yield 28,373  
 Bolt 2 Average Yield 25,228  
 Bolt 2 Average Yield - Without Outlier 21,158

### Traces Of Results



## Joint Analysis and Application Studies

Proper development of threaded joints is one of the most critical activates for any manufacturing company. We need to keep price, quality and joint integrity in balance. Designing a strong joint that costs too much is not good practice, and saving 20% on a fastener only to reduce the quality of a joint is not an option.

By testing your joints to failure and capturing the traces for analysis we can ensure your joint is being designed for maximum integrity with the correct components. This keeps costs lower from reducing over engineering and increases the quality of the process.

Gain a better understanding of your assembly and know how to better answer the question, "Why was that torque specked?"

Let's do the homework together and develop assemblies that will last for the long run, and Add Confidence to your Process.

Nate Hoffman – President / Founder / Caddie  
 Carrus Group  
[NateH@Carrus-Group.com](mailto:NateH@Carrus-Group.com)  
 262-370-8250

## Key Points

- Yield Studies
- Capture Torque Traces
- Failure Mode Analysis
- Part Testing
- Identify Proper Torque Spec

## Reference

Joe Wanie  
 K&S Manufacturing  
 Ixonia, WI

"Carrus Group has given us a better understanding for assembling threaded fasteners. We are producing better parts the first time and have greater confidence in our process and capabilities."

## Develop Proper Install Torques

## Material Selection

## Process / Assembly Recommendations