Cleco®
Production Tools

Software Solutions
TPS | TorqueNet | Dashboard

Cleco | Software Solutions   TORQUENET   TPS   OPDC   DASHBOARD

Cleco® | Software Solutions

Username

Password

ATG

REQUEST ACCESS   SIGN IN

Note: If you don't have access then please click on
request access and follow the registration process.

Streamlined Production Management

Streamlined production management solutions that meet the demands of your operation

Cleco® Software Solutions is a scalable software suite that equips you with critical production data and application management tools allowing you to make informed decisions and take the corrective actions quickly.

Tightening Parameter Server (TPS)

TPS is a central application management system that enables customers to effectively and efficiently manage their tightening applications from a central location while providing real-time change management.

TorqueNet

Information and fastening process data meets the industry-specific regulation requirements of safety-critical applications while accurately archiving for easy access.

DASHBOARD add-on module connecting with TorqueNet

Dashboard

Empowers with the ability to explore data through customized views.

Production Benefits with the Cleco Software Solutions

Data Management

- Streamline enforcement of access, provisioning, and lifecycle management of parameters

- Provide complete and unified control over content, modification, users and security

- Provides easy access to collected production data via web browser

Production Optimization

- Remote management allows you to push changes to production from the software versus having to physically walk or go to the production line

- Convenient monitoring for use and location of all applications enables you to easily identify which tightening parameters are used in a given location

Error Prevention

- User-specific views in the dashboard provide meaningful data analysis that is relevant and actionable

- Change management capabilities provide ultimate control over authorizing changes prior enabling in production
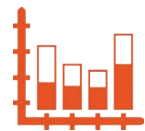
Quality Assurance

- Application archiving & rollback capabilities save application revisions so they can easily be reinstated into production

- Visibility & traceability features allow you to review who, what, why and when a change was implemented

Cleco®
Production Tools

Tightening Parameter Server (TPS) is a Central Application Management System

Tightening Parameter Server:

- Central Application Management
- Expanded Application Storage
- Parameter Usage Monitors
- Real-time Change Management
- Back-up, Compare and Restore Capabilities

Cleco TPS allows you to have full control of tightening applications used across a plant, or over multiple plants, effectively minimizing the opportunities for costly errors

Highlight an application to view additional application details

	HOME	ADMINISTRATION	DIAGNOSTICS			
ACTIONS	Global#	Application Name	Revision#	Status	Date	
Pull App from Controller	3	2 Nm	4	Released	02.12.2016 13:53:00	
Push App to Controller	4	180 Deg	1	Retired	06.12.2016 14:43:49	
Retire Application	61	Umlaut	1	In Development	16.01.2017 14:46:58	
	17	<>%&<>%&	1	Released	16.01.2017 14:54:33	
Show Applications	50	PWLiveWire	1	Released	24.01.2017 13:41:55	
Latest Revisions	**41**	**IWRSEQ30CW10NM**	**1**	**Released**	**01.02.2017 15:04:34**	
All Revisions	100	RDL2_TG01App01	1	In Development	06.03.2017 13:40:15	
	101	6-stage wo ENT	1	Released	07.03.2017 14:00:55	
	102	6-stage with ENT	1	Released	07.03.2017 14:02:11	
	104	Seq50 with 98 degree	1	In Development	21.03.2017 09:29:01	

Stage Parameter: 1	Stage Parameter: 2	Stage Parameter: 3	Stage Parameter: 4	Stage Parameter: 5	Stage Parameter: 6

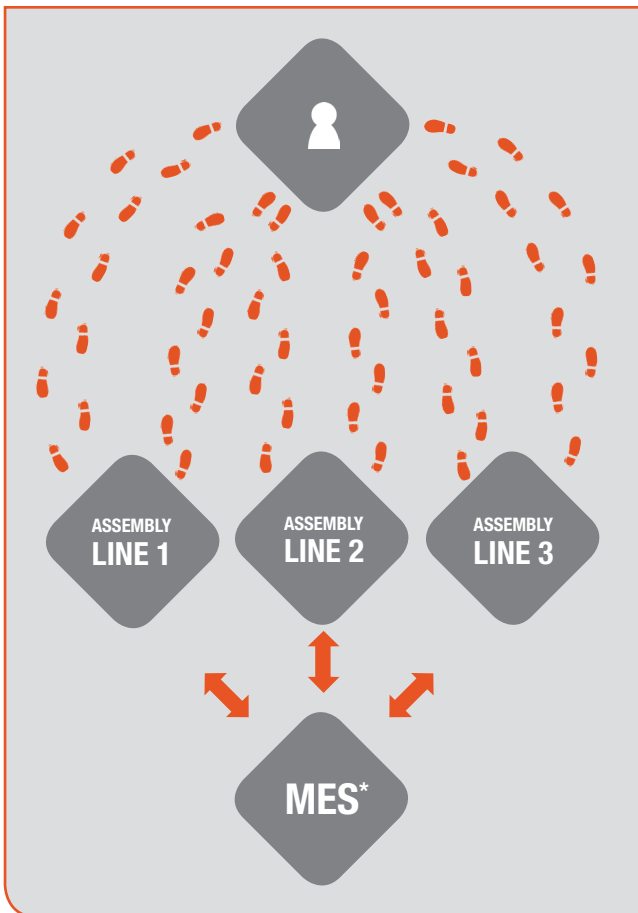| Parameter Set	
Sequence:	30
Marking time:	0
Start Delay Time:	0
Start pulse suppression:	0
Fastening time:	4000
Speed (1/min):	0
Threshold Torque (Nm):	6,00

Select the relevant action to create/modify/release/retire an application

Click through each stage to view advanced details of the application

Traditional Application Management (without TPS)

Traditional production management requires application changes to be made physically at the controller on the production floor. When making changes in multiple production locations there are many opportunities for costly errors and inconsistencies.
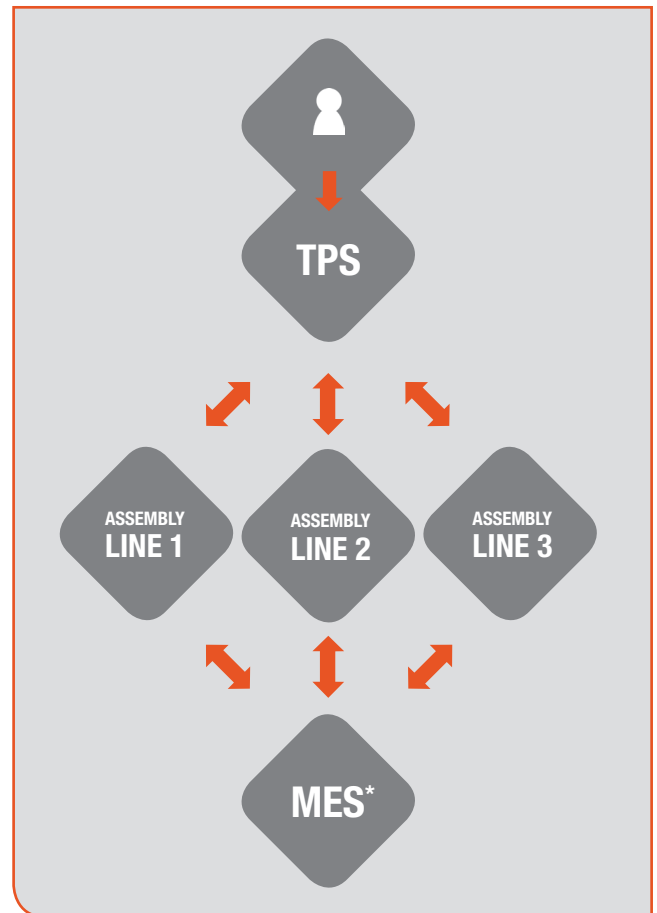
Streamlined Application Management (with TPS)

TPS provides engineers the ability to create and validate changes in a test environment prior to releasing into production. The Tightening Parameter Server enables controllers to have virtually limitless number of applications stored while ensuring the correct application is being used at any given time.

Traditional application management requires assembly lines to be manually updated

1) Engineer determines that an application change is required

2) Engineer walks to Assembly Line station

3) Engineer updates existing application parameters (at station)

4) Engineers test changes locally (at station)

5) Engineer saves changes and walks away from Assembly Line station

6) MES sends a "tool enable" command and application number to controller

7) Controller/Tool runs application and sends results back to MES

    Steps 1-7 are repeated for each assembly line as changes are required

Streamlined application management enables applications to be updated through an automated process

1) Engineer determines that an application change is required

2) Engineer makes change, tests and promotes change to "released status" in lab

3) TPS sends updated application revisions to all connected production controllers

4) MES sends a "tool enable" command and application number to controller from TPS

5) Controller/Tool runs application and sends results back to MES

*Manufacturing Execution System

TorqueNet is a Data Acquisition and Archiving System

TorqueNet solves all of your data collection and analysis needs by making your local plant floor data visible anywhere using your internet browser. All data is sent to a single location making critical production information accessible to all users working with the tightening process on the assembly line.

Visualize trends in rundown information by viewing trace overlays
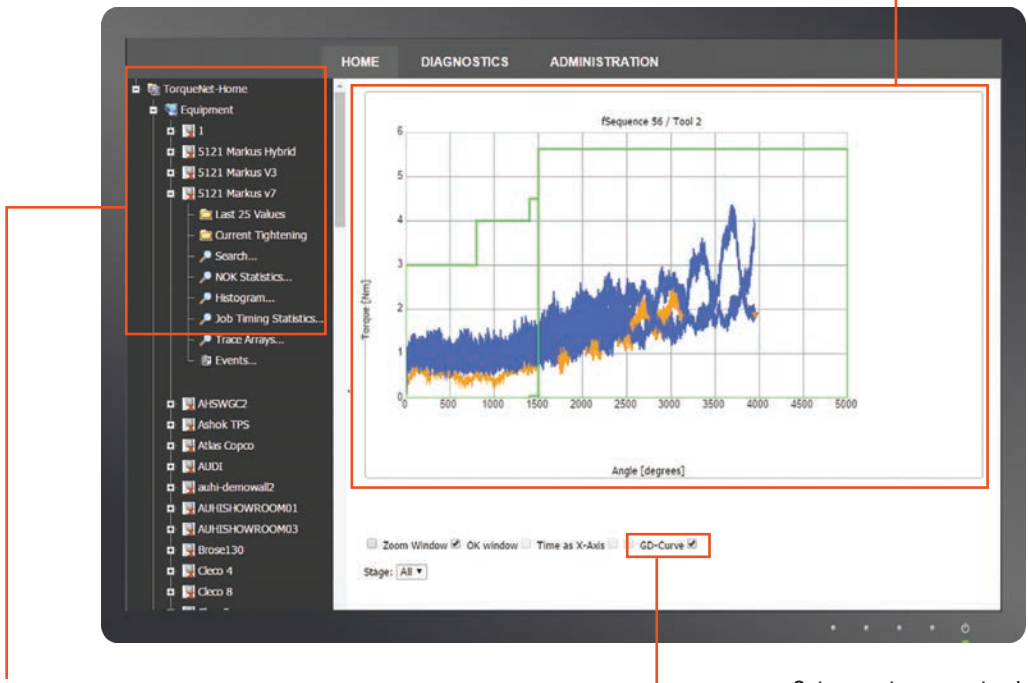
All equipment connected to TorqueNet is sorted in left hand navigation

Set a master curve to view trends against a known good trace

Event Monitor & Email Service

Supports all Torque Units

Competitor Data Collection

Tightening Traces

Tool Maintenance Advisory Preventative Maintenance

TORQUENET 4.0 OPTIONS	Standard	Professional	Enterprise
Data Collection	✔	✔	✔
Result Queries	✔	✔	✔
NOK % Monitor	✔	✔	✔
Trace / Trace Overlay	✔	✔	✔
Easy Search Function	✔	✔	✔
Maintenance Advisory		✔	✔
Process Statistics (Histograms and Curve Arrays)		✔	✔
Event Monitor & Email Notifications		✔	✔
TPS Link		✔	✔
Parameter Change History			✔
Tool History			✔

Dashboard add-on Module Enhances the Value of existing TorqueNet Data

Cleco Dashboard improves analysis speed and performance while allowing you to dive deeper into data that is critical to your operation. User specific views enables quick navigation, identification of trends and issues, and transformation of data into actionable information.
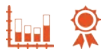
Upgrade the analysis power of TorqueNet by adding a new interface where you can:

- Use pre-defined or standard views
- Create customized views
- Share data with people to make decisions/take action
- Stay engaged with the production process by creating your own KPI's

Data can be shared with people to make decisions/take action

Set KPI's to stay engaged with the production process
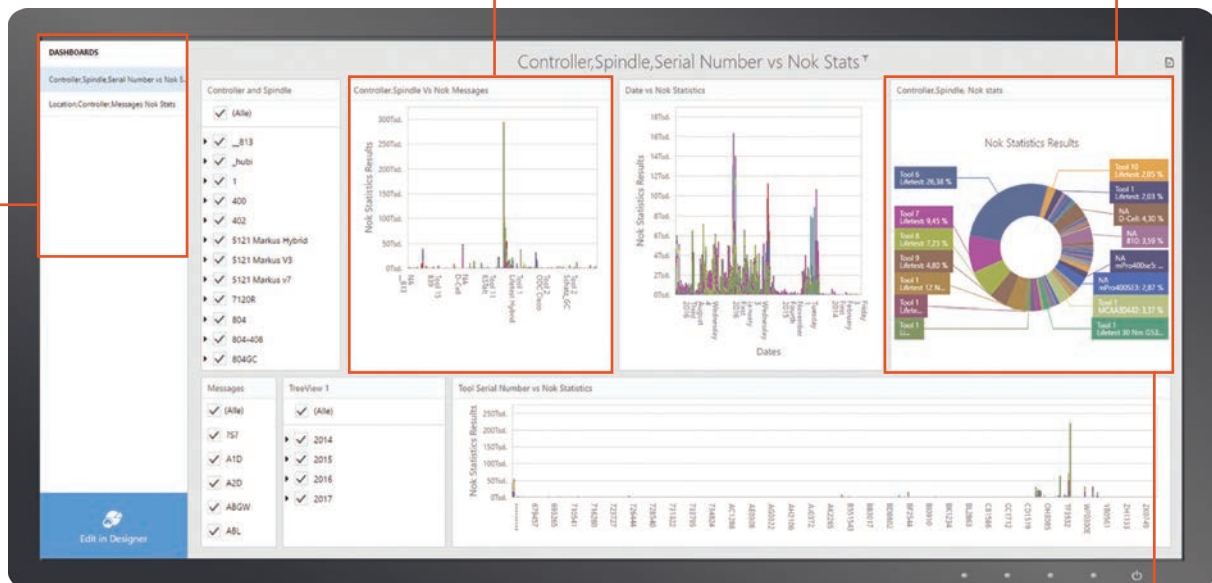
Choose template view or create your own!

Create custom widgets by selecting the data to be viewed and the type of chart to show it in

Software Products

All software products come with a permanent license duration

PART NUMBER	Description	Price Method
S168171-ST-4	TorqueNet Standard	Per Spindle / Tool
S168171-PR-4	TorqueNet Professional	Per Spindle / Tool
S168171-NT-4	TorqueNet Enterprise	Per Spindle / Tool
S168689-ST-1	Tightening Parameter Server	Per Spindle / Tool
S168703-ST-1	Dashboard Manager	Per Spindle / Tool
S168171-SP-4	TorqueNet Upgrade Standard to Pro	Per Spindle / Tool
S168171-SE-4	TorqueNet Upgrade Standard to Enterprise	Per Spindle / Tool
S168171-PE-4	TorqueNet Upgrade Pro to Enterprise	Per Spindle / Tool
S168696-ST-1	Open Protocol Data Collector - TorqueNet Add-on	Per Spindle / Tool

Support Packages

Paid Maintenance Packages:

- Product Updates included
- Priority Phone Support
- Remote Desktop Support

Maintenance and Support Products include:

PART NUMBER	Description	Price Method	Expiration
S168171-MA-0	TorqueNet Support Agreement*	Per Server & Spindle / Tool	1 Year
S168689-MA-0	Tightening Parameter Server Maintenance	Per Server & Spindle / Tool	1 Year
S168703-MA-0	Dashboard Mgr Maintenance	Per Server & Spindle / Tool	Installation Only

*TorqueNet Support Agreement

With the Support Agreement you ensure the functionality and support in all matters relating to the use and operation as well as in case of error.

- Online / phone support Monday to Friday 8:00-17:00h CEST (public holidays are not included)
- Exclusive standby number with priority switching
- Creation of failure reports
- Provision of SW updates (Service releases)
- Performing SW updates (via remote services)
- Reaction Time max. 2 hours

System Requirements

Physical Memory | **4GB Minimum**

Virtual Memory | **8GB Minimum**

Disk Space | **30GB Minimum****

Processor | **1.2GHZ Minimum**
(Dual Processor Recommended)

Operating System | **Windows Server 2008-2012**
Windows 7 / 10

Database | **Oracle / MS SQL**

**Additional disk space may be required depending on total number of spindles