



COIL WINDING TECHNOLOGY LINE

Advanced High-Tech Solutions
for Coil Winding Process Control

Coil Winding Feeder
CWF2000

in the MOTOR WINDING industry

CWF in the MOTOR WINDING industry

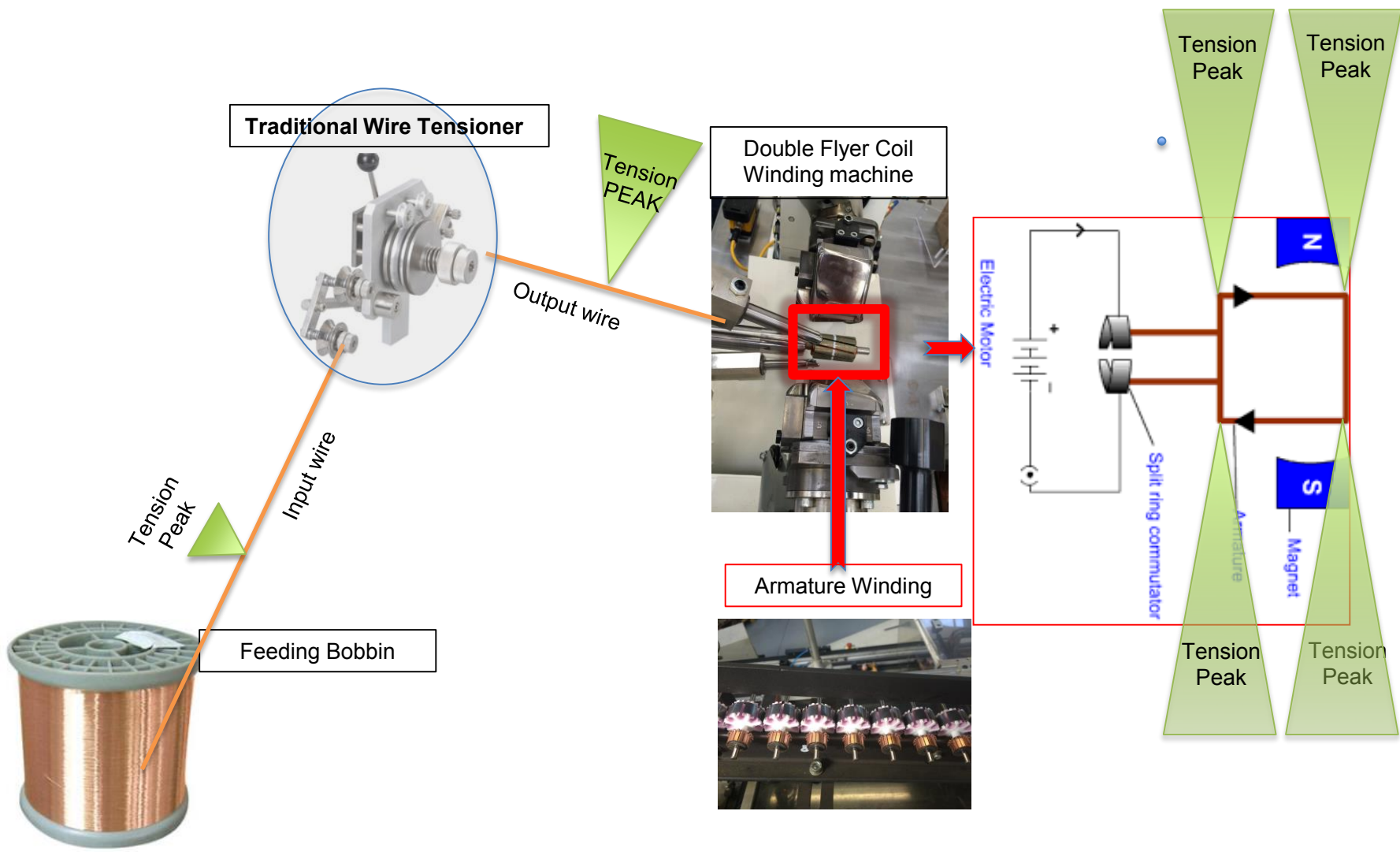


ARMATURE WINDING / NEEDLE WINDING STATOR WINDING / RESOLVERS / BRUSHLESS



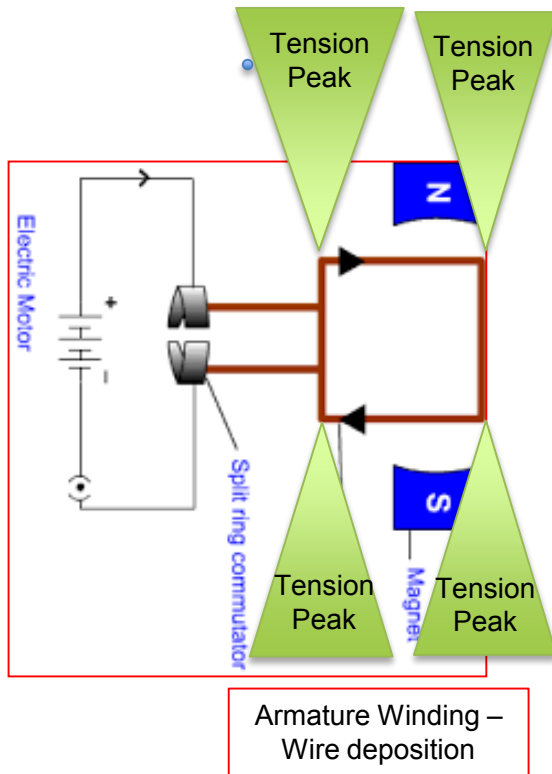
ARMATURE WINDING carried out with **TRADITIONAL WIRE TENSIONERS**

Tension **PEAKS** CONSEQUENCE ON ARMATURE WINDING



ARMATURE WINDING carried out with **TRADITIONAL WIRE TENSIONERS**

Tension **PEAKS** CONSEQUENCE ON ARMATURE WINDING



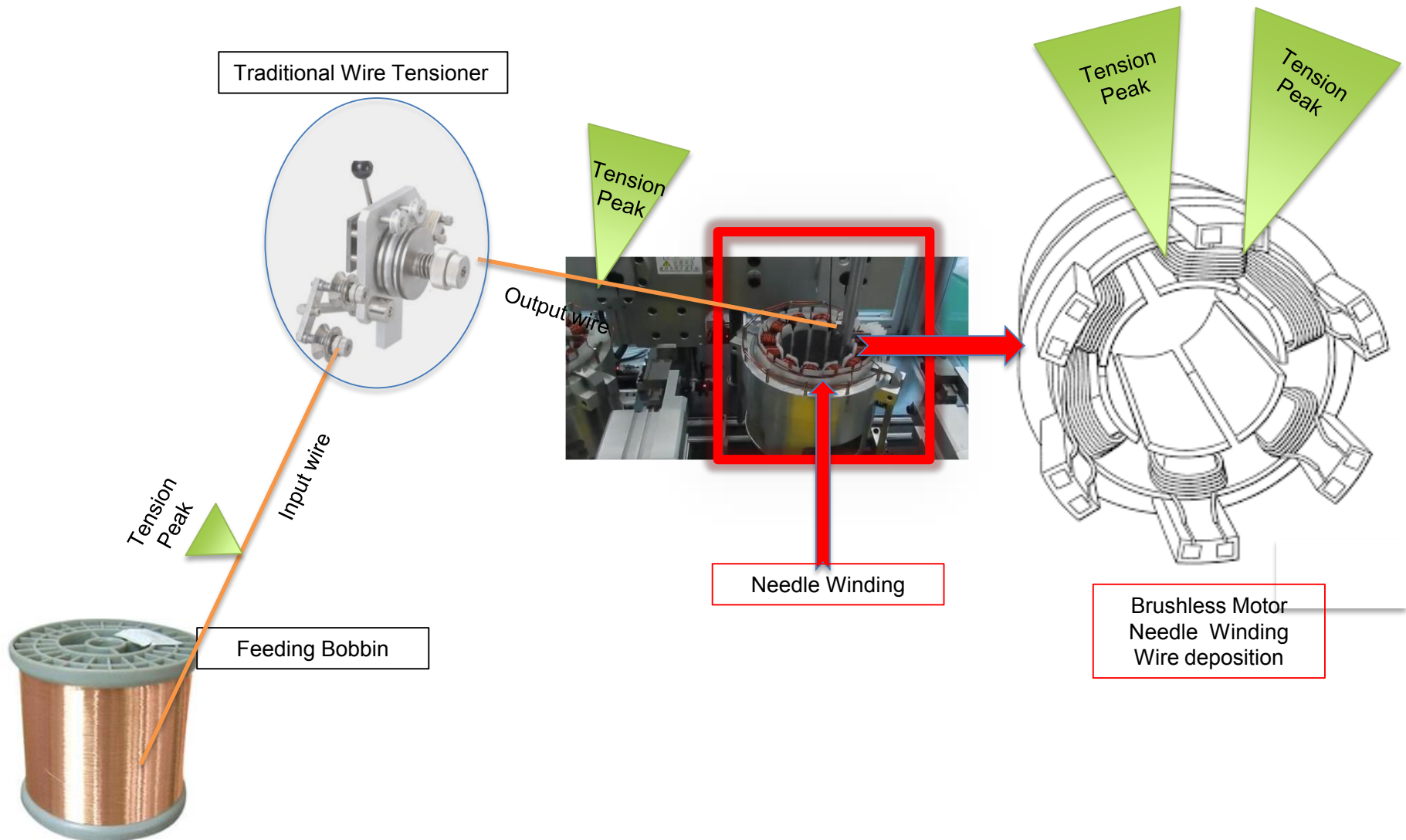
Wire tension picks cause small invisible

ENAMELLING CRACKS

Consequence : short circuits after some time of motor running

NEEDLE WINDING :

Tension **PEAKS** generated by **TRADITIONAL WIRE TENSIONERS**



NEEDLE WINDING :

*Tension **PEAKS** generated by* **TRADITIONAL WIRE TENSIONERS**



Wire tension peaks cause small invisible

ENAMELLING CRACKS



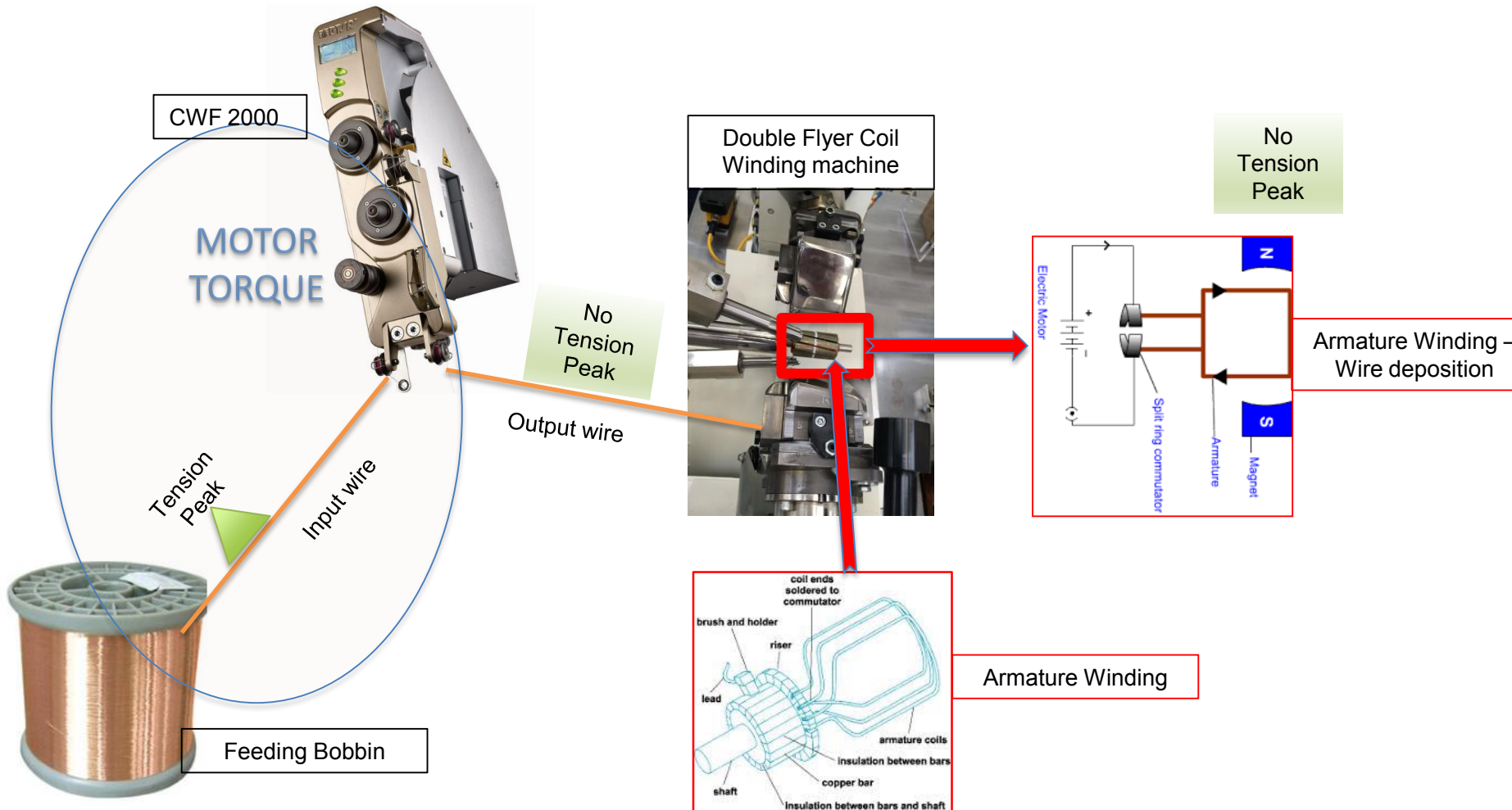
Consequence :
Short circuits after some time of running

TOTAL QUALITY CONTROL

ARMATURE WINDING carried out with **CWF 2000**
COMPLETE ABSENCE OF Tension PEAKS



CWF 2000 **GUARANTEE ABSENCE of TENSION PEAKS on ARMATURE**
thanks to **MOTOR TORQUE** **BTSR PAT** **TECHNOLOGY**

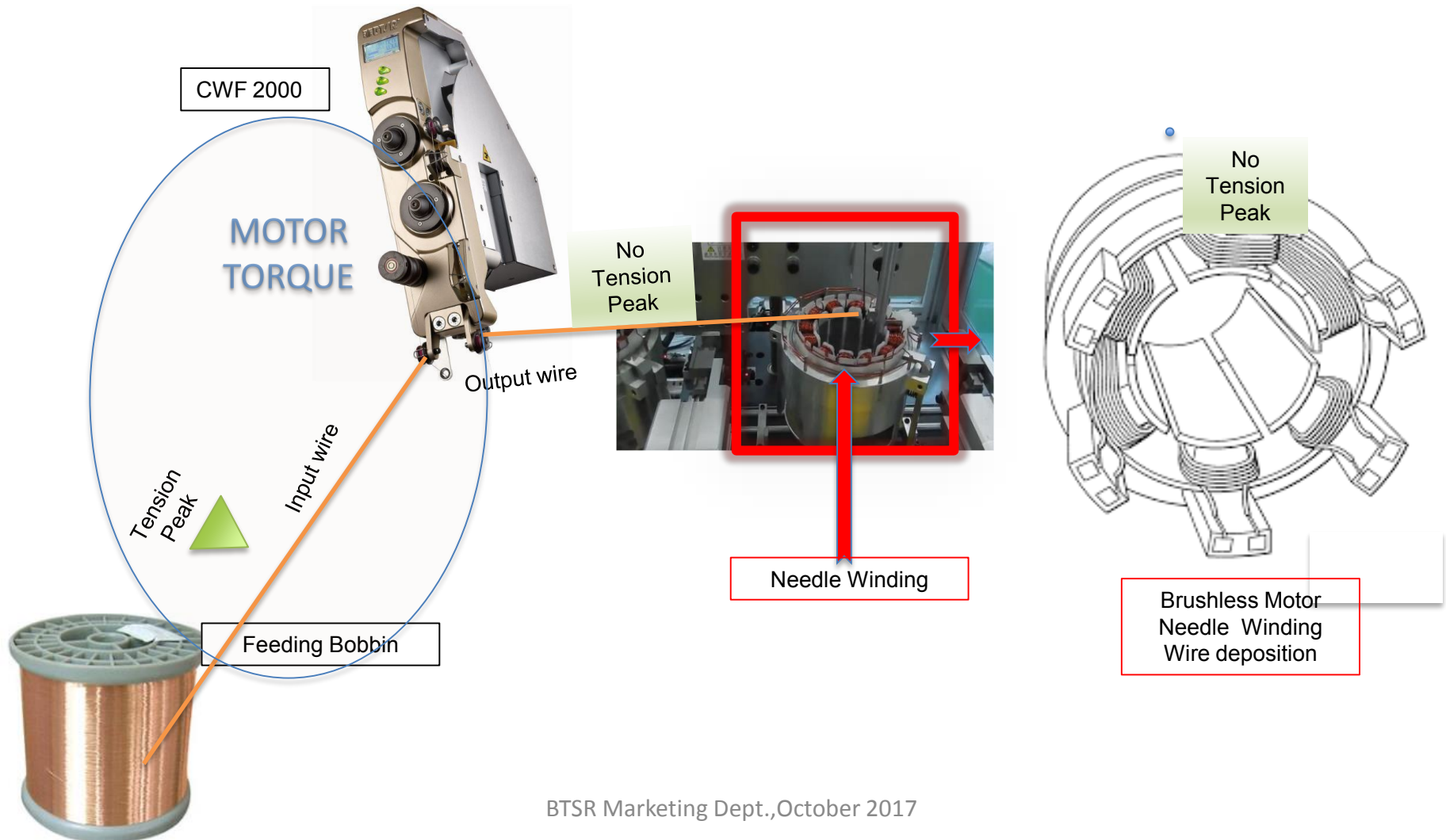


TOTAL QUALITY CONTROL



NEEDLE WINDING

CWF 2000 **GUARANTEE ABSENCE of TENSION PEAKS on Brushless Motors**
thanks to **MOTOR TORQUE** **BTSR PAT** **TECHNOLOGY**



TOTAL QUALITY CONTROL

From WIRE FEEDING... to the END COIL

CWF 2000
Feeding device

WIRE BOBBIN

MOTOR TORQUE
First Closed Loop

LWA
Second Closed Loop

FINAL COIL

TOTAL QUALITY

DOUBLE CLOSED CONTROL LOOP

Coil Winding Technology

