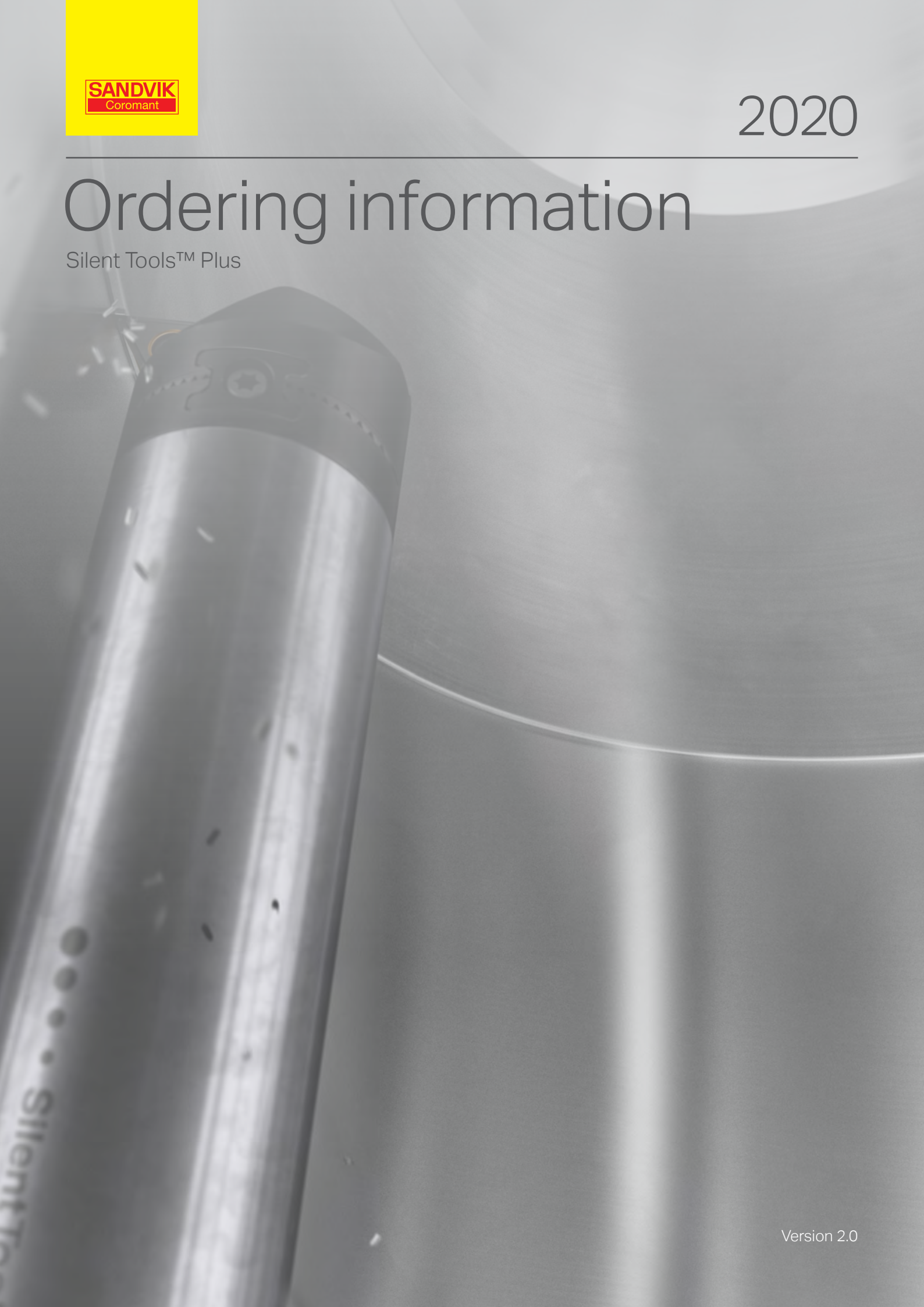
SANDVIK
Coromant

2020

Ordering information

Silent Tools™ Plus



Version 2.0

Silent Tools™ Plus

1 Introduction and availability

2 Silent Tools Plus software

3 Metric version

4 Inch version

5 Wedge Lock cutting heads

6 Engineered solutions

Silent Tools™ Plus

Connected turning solution

The sensor-equipped Silent Tools Plus damped adaptors increase process security in internal turning with long overhang. The solution gives you access to information about what's happening inside your component, making process improvements possible.

This is what you need to get started:

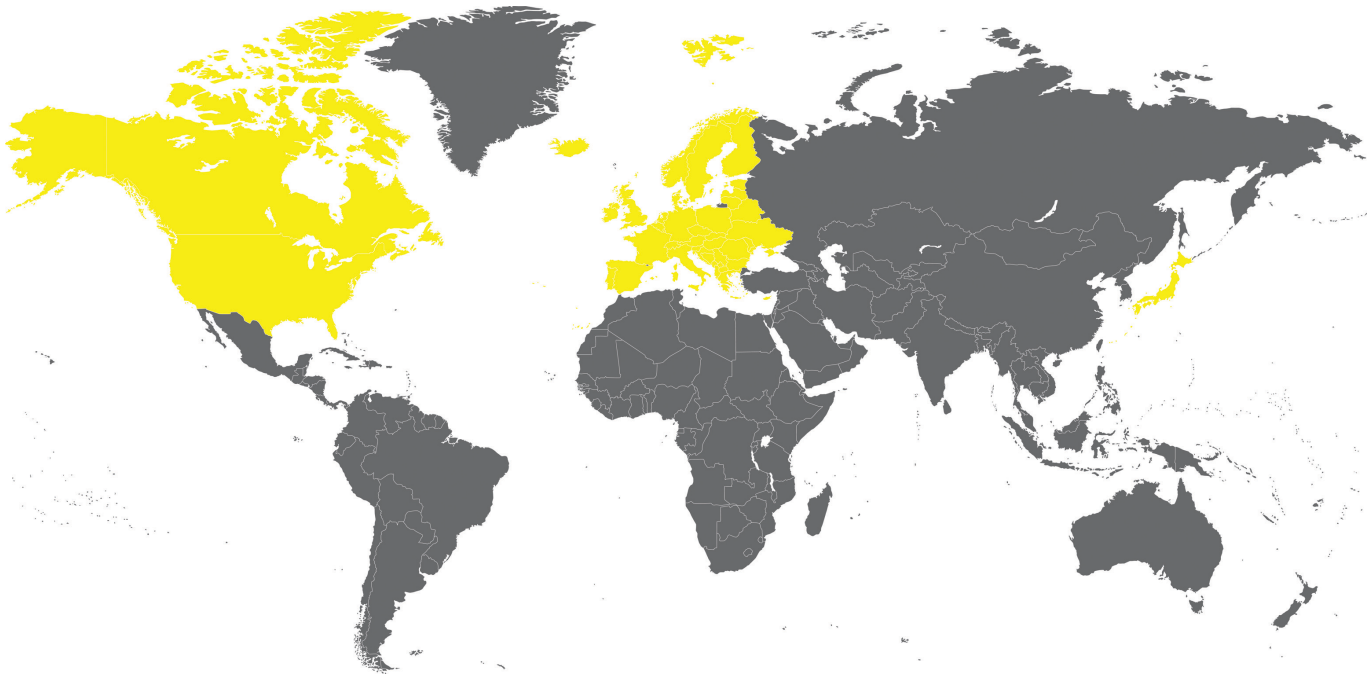
1. **Silent Tools Plus damped adaptor**
2. **Case of electronics**
3. **Software**

The Silent Tools Plus software is available at Windows Store. The software will run on any device using Windows 10.

Before starting to use the solution, you will need to activate your license. Instructions on how to activate your license and get started are delivered

Solution availability

Silent Tools Plus is available in selected markets within the European union, Japan and North America.



For more information, visit www.sandvik.coromant.com/silenttoolsplus

Silent Tools™ Plus

Software License Alternatives

In order to cater to your needs, Silent Tools Plus software licenses can be purchased both as a subscription or as a perpetual license with a maintenance and support fee.

The subscription license is for one year at a time, Sandvik Coromant will contact you to ensure it is renewed as desired. The subscription license always provides access to the latest software versions, new tier specific software enhancements, and ensures that technical support is updated and available. Having the newest software version means you are using the most stable, future proof and secure software. Subscription is a flexible solution, making it easy to switch to a higher tier or additional functionality, and even managing your licenses.

A perpetual license is available as an up front purchase software license, ensuring you perpetual access to that version of the software. The perpetual license goes hand in hand with a smaller, yearly maintenance fee, allowing access to the latest software versions, ensuring the best support availability, secure and stable software, new tier specific functionality, and also makes it possible to purchase upgrades to higher tier or additional functionality. The maintenance fee is included for the first year, and will be renewable each year thereafter. If the maintenance fee is not paid, the software access will remain at whatever version the customer had when the maintenance period expired.

The Silent Tools Plus software provides the operator with a completely new insight into the long overhang turning process. Having new “eyes and ears” inside the process gives operator confidence, and aids rapid, data-driven desicion making before problems are allowed to escalate.

The software can be run on any Windows 10 device with Bluetooth connectivity.

Software features

	Silver Requires standard Silent Tools™ Plus damped adaptor	**Gold** Requires strain gauge equipped Silent Tools™ Plus damped adaptor
Operator training and support 24 hours on weekdays	✓	✓
Software updates and new features	✓	✓
Center height setting	✓	✓
Real-time data visualization - Temperature, In-cut detection.	✓	✓
Real-time data visualization - Surface toughness and vibration	✓	✓
Real-time data visualization - Load and deflection		✓

Please note:

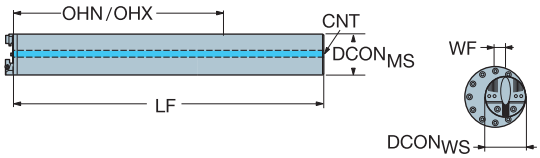
Internet connectivity is required during software license activation, and when updating the software or firmware. Software and firmware updates are released regularly. It is recommended to always use the latest version.
Software and adaptor can be used offline for periods of up to 60 days at a time before an online verification is needed.

Silent Tools™ Plus

Metric version

With vibration sensor

1



SilentTools®

CZC$_{MS}$	CZC$_{WS}$	OHN	OHX	CNSC	CXSC	Ordering code	Dimensions, mm DCON$_{MS}$	DCON$_{WS}$	LF	WF	CNT	BAR	KG
60	40	600	600	1	1	TB60D-CY60B810W4R/LB	60	40	810	10	G1/8	150	15
80	40	800	800	1	1	TB60D-CY80B1090W4R/LB	80	40	1090	20	G1/8	150	40
100	40	1000	1000	1	1	TB60D-CY100B1410W4R/LB	100	40	1410	30	G1/8	150	80

2

	Electronics case
Ordering code:	7010 010-01

3

Software service pack:	Ordering code:
Yearly license including software updates	STS4-ST-SS12-01
Perpetual license	STS4-ST-SP99-01
Software updates (applicable from year two)	STS6-ST-SS12-01

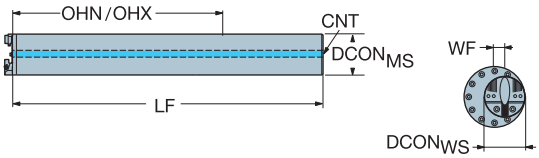
Software updates include improved functionality, added features and 24 hour support on weekdays.

Silent Tools™ Plus

Inch version

With vibration sensor

1



SilentTools®

							Dimensions, inch						
CZC_{MS}	CZC_{WS}	OHN	OHX	CNSC	CXSC	Ordering code	$DCON_{MS}$	$DCON_{WS}$	LF	WF	CNT	PSI	LBS
2 1/2	40mm	21.500	21.500	1	1	TB60D-CYA40B810W4R/LB	2.500	40mm	31.890	.463	G1/8	2175	33
3	40mm	30.000	30.000	1	1	TB60D-CYA48B1090W4R/LB	3.000	40mm	42.913	.713	G1/8	2175	88
4	40mm	40.000	40.000	1	1	TB60D-CYA64B1410W4R/LB	4.000	40mm	55.512	1.213	G1/8	2175	176

2

	Electronics case
Ordering code:	7010 010-01

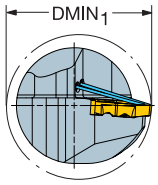
3

Software service pack:	Ordering code:
Yearly license including software updates	STS4-ST-SS12-01
Perpetual license Software updates (applicable from year two)	STS4-ST-SP99-01 STS6-ST-SS12-01

Software updates include improved functionality, added features and 24 hour support on weekdays.

Silent Tools™ Plus

Wedge Lock cutting heads



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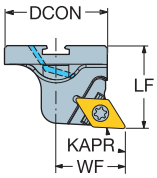
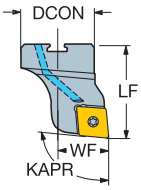
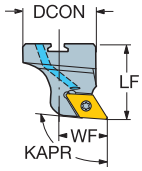
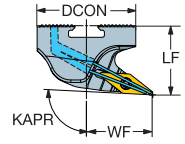
	50.0	TITR-W4R/L-D13U-27A	40	29	27.0	93.0°	TR-DC 13 08
	1.969		*1.575*	*1.142*	*1.063*		

	DMIN1	Ordering code	Dimensions, mm, inch DCON	LF	WF	KAPR	MIID
	50.0	TIP0-W4R/L-C12L-27A	40	31.0	27.0	95.0°	CNMG 12 04 08
	1.969		*1.575*	*1.220*	*1.063*		
	50.0	TI07-W4R/L-C09L-27A	40	28.0	27.0	95.0°	CCMT 09 T3 08
	1.969		*1.575*	*1.102*	*1.063*		

	DMIN1	Ordering code	Dimensions, mm, inch DCON	LF	WF	KAPR	MIID
	50.0	TIP0-W4R/L-D15U-27A	40	30.0	27.0	93.0°	DNMG 15 04 08
	1.969		*1.575*	*1.181*	*1.063*		

	DMIN1	Ordering code	Dimensions, mm, inch DCON	LF	WF	KAPR	MIID
	50	TITR-W4R/L-V13U-27A	40	28	27	93°	TR-VB1308
	1.969		*1.575*	*1.102*	*1.063*		

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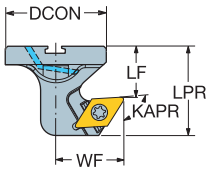
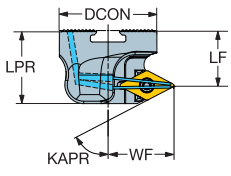
	50.0	TITR-W4R/L-D13UX27A	40	18.0	37.5	27.0	93.0°	TR-DC 13 08
	1.969		*1.575*	*.709*	*1.476*	*1.063*		

	DMIN1	Ordering code	Dimensions, mm, inch DCON	LF	LPR	WF	KAPR	MIID
	50	TITR-W4R/L-D13X-27A	40	23	30	27	62.5°	TR-DC1308
	1.969		*1.575*	*.906*	*1.181*	*1.063*		

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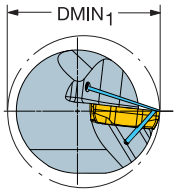
Silent Tools™ Plus

Wedge Lock cutting heads



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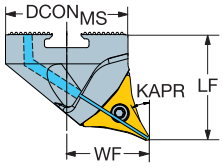
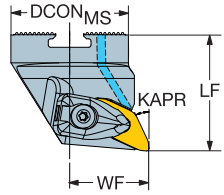
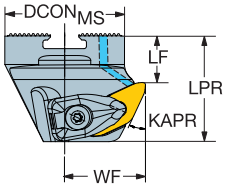
	50.0	**TICP-W4R/L-A1130-27C**	40	35.0	27.0	30°	CP-A1108
	1.969		*1.575*	*1.378*	*1.063*		

	DMIN1	Ordering code	Dimensions, mm, inch DCON	LF	WF	KAPR	MIID
	50.0	**TICP-W4R/L-B1125-27B**	40	40.0	27.0	25°	CP-B1108
	1.969		*1.575*	*1.575*	*1.063*		

	DMIN1	Ordering code	Dimensions, mm, inch DCON	LF	WF	KAPR	MIID
	50.0	**TICP-W4R/L-B1125X27B**	40	16.0	27.0	25°	CP-B1108
	1.969		*1.575*	*.630*	*1.063*		

Cutting heads can be tailored to fit your needs upon request. Please contact your local Sandvik Coromant sales representative.

Silent Tools™ Plus

Engineered solutions

1

Engineered solutions for Silent Tools Plus are offered with alternative interfaces fitting respective cutting head:

- Wedge lock
- CoroTurn® SL
- CoroTurn® SL Quick Change
- Coromant Capto®

SilentTools®

Diameter (mm)	Overhang (xD)				
	8	10	12	14	16
60		Standard (vibration sensor)			N/A
80					
100			Engineered: Vibration sensor & load- and deflection sensor		
120					
140					
160	Engineered: Vibration sensor				

Vibration sensor:
The vibration sensor monitors everything from minuscule vibrations up to crashes. It is positioned close to the insert, ensuring that all vibrations that affect the surface quality are monitored.

Load- and deflection sensor:
The load- and deflection sensor is placed in the adaptor. The values given through the software can maximize manufacturing performance and help you make sure that all components are produced within your desired tolerance.

2

	Electronics case for adaptors with vibration sensor	Electronics case for adaptors with vibration sensor & load- and deflection sensor
Ordering code:	7010 010-01	7010 010-02

3

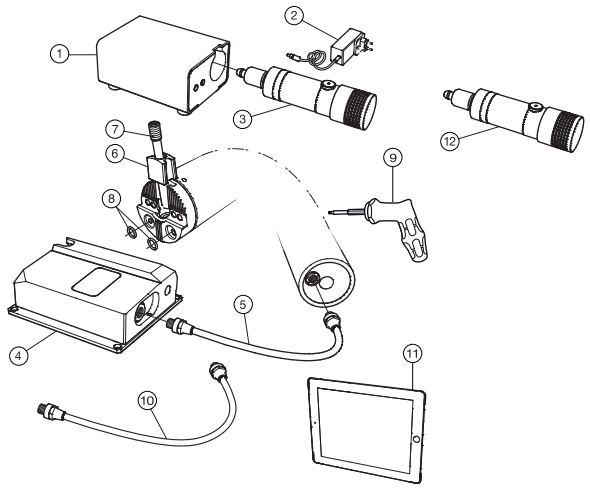
Software service pack:	Silver	Gold
Yearly license including software updates	STS4-ST-SS12-01	STS4-ST-GS12-01
Perpetual license Software updates (applicable from year two)	STS4-ST-SP99-01 STS6-ST-SS12-01	STS4-ST-GP99-01 STS6-ST-GS12-01

Software updates include improved functionality, added features and 24 hour support on weekdays.

Silent Tools™ Plus

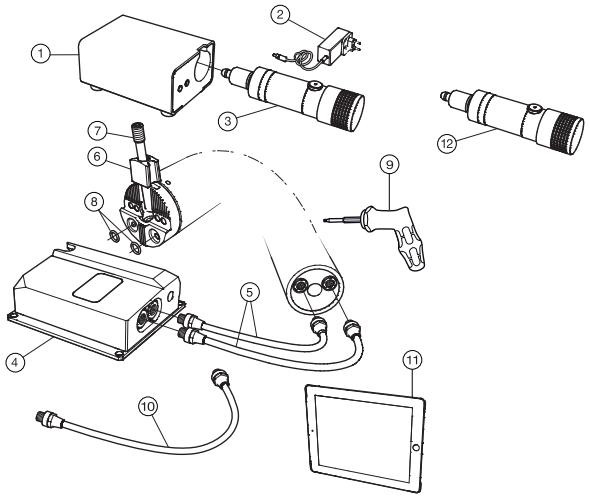
Spare parts

With vibration sensor



Spare parts								Included parts	Accessories		
1 Battery charger	2 Power supply charger	3 Battery (2 batteries/KIT)	4 Electronic unit (1 output)	5 Cable (300 mm)	6 Wedge	7 Screw	8 O-rings	9 Torque wrench	10 Cable (500 mm)	11 Windows tablet	12 Cover plug
7120 110-01	7110 010-02	7130 110-01	7210 110-01	7310 110-01	5431 015-01	5516 014-09	5641 005-153	5680 100-10	7310 110-02	7410 010-01	5645 060-01

With vibration sensor & load- and deflection sensor



Spare parts								Included parts	Accessories		
1 Battery charger	2 Power supply charger	3 Battery (2 batteries/KIT)	4 Electronic unit (2 outputs)	5 Cable (300 mm)	6 Wedge	7 Screw	8 O-rings	9 Torque wrench	10 Cable (500 mm)	11 Windows tablet	12 Cover plug
7120 110-01	7110 010-02	7130 110-01	7210 110-02	7310 110-01	5431 015-01	5516 014-09	5641 005-153	5680 100-10	7310 110-02	7410 010-01	5645 060-01