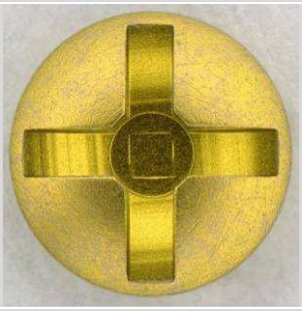
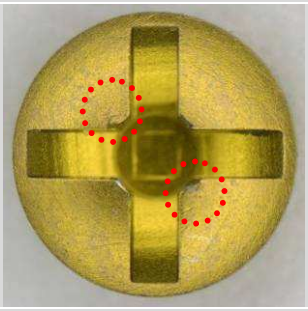
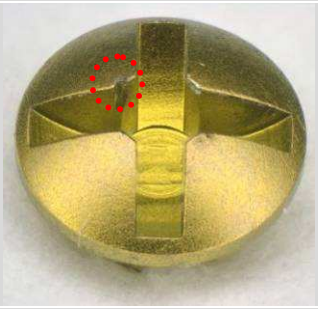
1 Screws

1.1 Picked-up or used (cross recess)



✓ ✓ ✘ ✘

Possible damage

– Screws which have already been picked up show deformation on the self-locking contour (red circle)

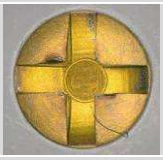
Measures

– Never place screws back in the set which show deformation either on the screw head or thread. They may not perform as intended
– At inspection of the sets take out screws that show deformation

Unacceptable screws





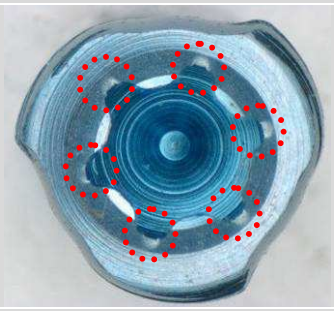


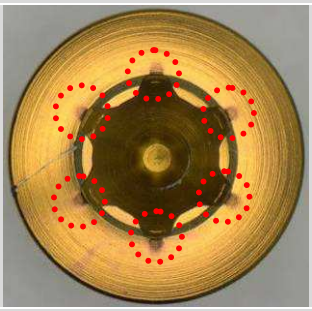

✘ ✘ ✘ ✘ ✘ ✘ ✘ ✘

1.2 Picked-up or used (HexaDrive)


✓


✓


✘


✘

Possible damage

– Screws which have already been picked up show deformation on the self-locking contour (red circle)

Measures

– Never place screws back in the set which show deformation either on the screw head or thread. They may not perform as intended
– At inspection of the sets take out screws that show deformation

Unacceptable screws


✘


✘

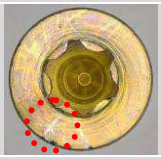

✘


✘


✘


✘


✘


✘

1.3 Locking contour screw head

			
✓	✘	✘	✘

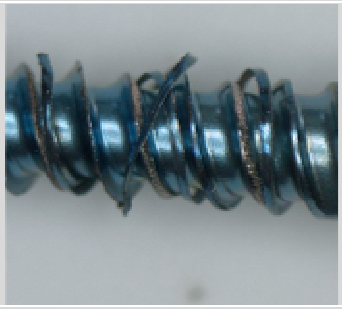
Possible damage

– Screws which have already been placed into a plate hole show deformation on the outer screw head. In general the lead-in grooves are damaged, show deformation and the anodization at that area is no longer existing

Measures

– Never place screws back in the set which show deformation either on the screw head or thread. They may not perform as intended
– At inspection of the sets take out screws that show deformation

1.4 Thread

			
✓	✘	✘	✘

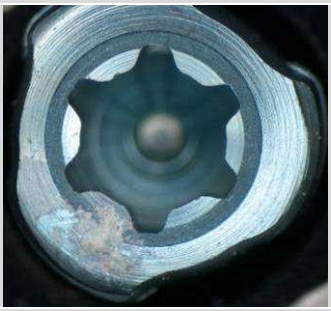
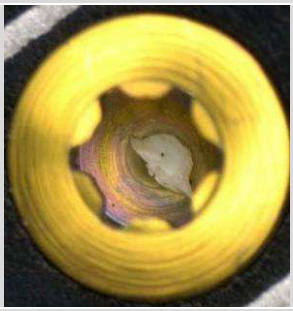
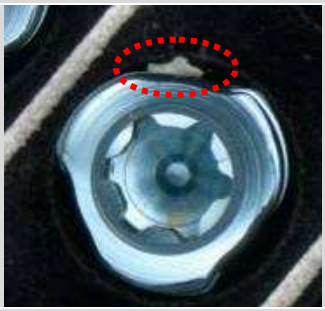
Possible damage

– Burr formation at threads
– Chip formation

Measures

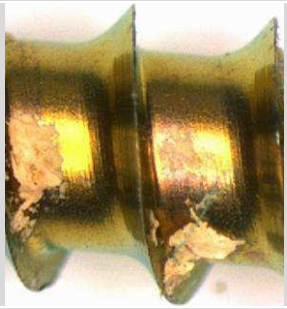
– Never place screws back in the set which show deformation either on the screw head or thread. They may not perform as intended
– At inspection of the sets take out screws that show deformation

1.5 Contamination / Residues


✘ ✘ ✘ ✘



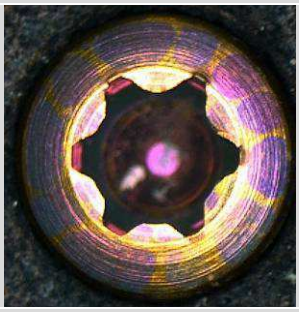
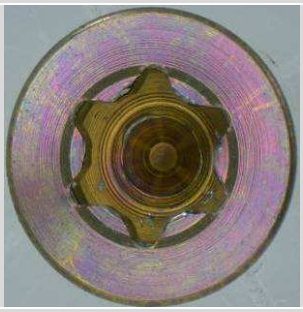
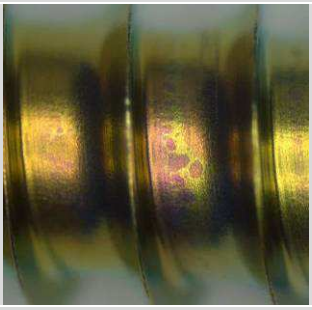
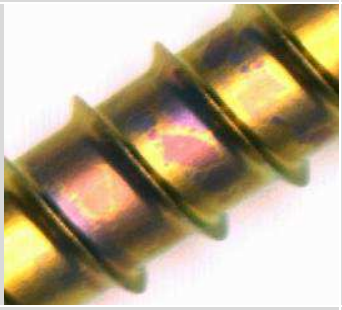
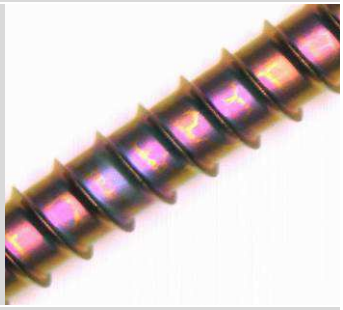



✓ ✘ ✘ ✘

Possible damage
Screw is contaminated with:
- Blood
- Bone
- Other residues

Measures
- At inspection of the sets take out screws that show contamination

1.6 Discoloration

			
✓	✓	✓	✓
			
✓	✓	✓	✓

Possible damage

– None

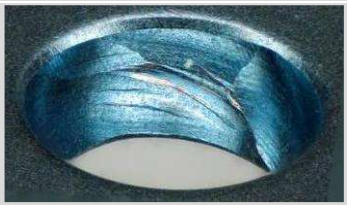
Measures

– A discoloration or color change has no adverse effects on the implant or its function. The protective oxide layer is fully maintained

2 Plates

2.1 Locking contour plate hole






✓ ✘ ✘ ✘

Possible damage

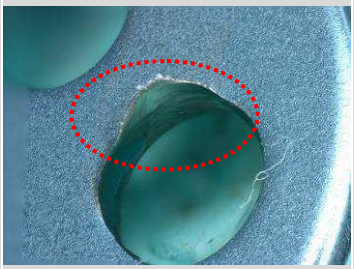
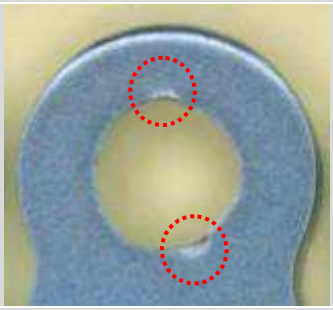
– Plate hole shows scratches, deformation and / or blank areas

Measures

– At inspection of the sets take out plates that show deformation
– **Inspection tip:** position the plate in a slightly inclined position under the microscope in order to achieve an optimal view into the locking contour of the plate hole

2.2 Surface bottom of plate



✓ ✓ ✘ ✘

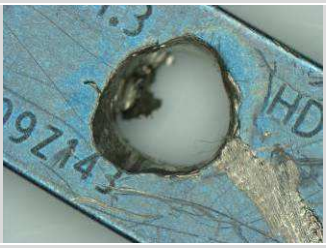
Possible damage

– Bottom of the plate hole shows deformation (red circle)

Measures

– At inspection of the sets take out plates that show deformation

2.3 Modification of product shape/form by user

			
✘	✘		

Possible damage
Non compliant change of the plate design:
- Milling off the plate surface
- Drilling additional hole(s)
- Other changes to design

Measures
- At inspection of the sets take out plates that show deformation or other customer specific changes

2.4 Decoloration due to bending

			
✘	✘	✘	

Possible damage
- Additional bending of an anatomically pre-shaped plate

Measures
- At inspection of the sets take out plates that show deformation
- A discoloration or color change has no adverse effects on the implant or its function. The protective oxide layer is fully maintained

2.5 Decoloration due to cleaning

			
✓	✓	✓	

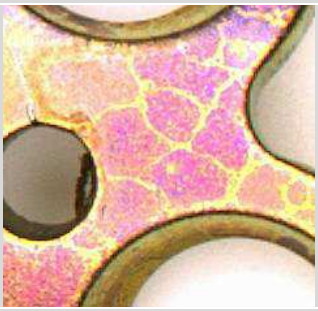
Possible damage

– None

Measures

– A decoloration or color change has no adverse effects on the implant or its function. The protective oxide layer is fully maintained

2.6 Discoloration

			
✓	✓	✓	

Possible damage

– None

Measures

– A discoloration or color change has no adverse effects on the implant or its function. The protective oxide layer is fully maintained

3 Drills

3.1 Tear and wear of the cutting edges

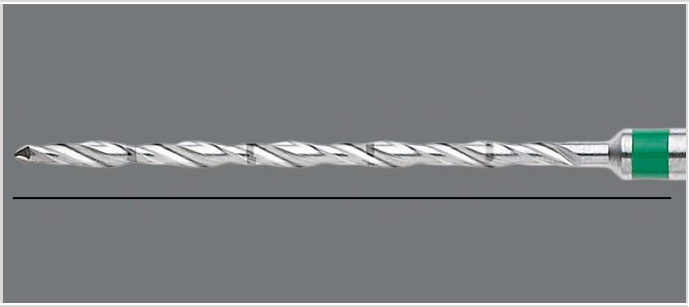



✓ ✘ ✘ ✘

Possible damage
– Drill is blunt

Measures
– At inspection of the sets take out damaged/blunt drill bits

3.2 Bent spiral




✓ ✘

Possible damage
– Bent spiral

Measures
– At inspection of the sets take out damaged/bent drill bits

3.3 Damaged spiral

			
✓	✘	✘	✘

Possible damage
- Damages to the spiral

Measures
- At inspection of the sets take out damaged/bent drill bits

3.4 Untwisted spiral

			
✓	✘	✘	✘

Possible damage
- Untwisted spiral

Measures
- At inspection of the sets take out damaged/untwisted drill bits

3.5 Contamination / Residues

			
✓	✘	✘	

Possible damage
Drills are contaminated with:
- Blood
- Bone
- Other residues

Measures
- At inspection of the sets take out damaged/contaminated drill bits

3.6 Color Coding

			
✓	✘	✘	✘

Possible damage
- Color coding damaged or lost

Measures
- At inspection of the sets take out drill bits with damaged color coding

4 MTP Reamers

4.1 Tear and wear of the cutting edges




✓ ✘

Possible damage

– Reamer is blunt

Measures

– At inspection of the sets take out damaged/blunt MTP reamers.

5 Screwdriver

5.1 Screwdriver blade tip

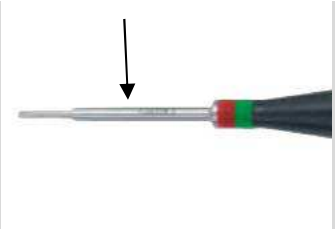



✓ ✓ ✘ ✘

Possible damage
- Tip deformed
- Tip broken

Measures
- At inspection of the sets take out damaged blades

5.2 Damaged screwdriver blades




✓ ✘ ✘ ✘

Possible damage
- Crack in shaft
- Broken shaft

Measures
- At inspection of the sets take out damaged blades

5.3 Compromised screwdriver blade/handle connection

			
✓	✘		

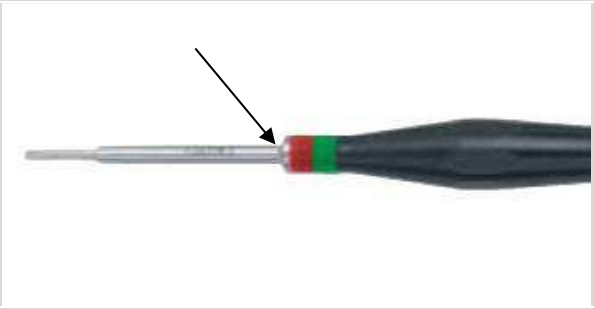
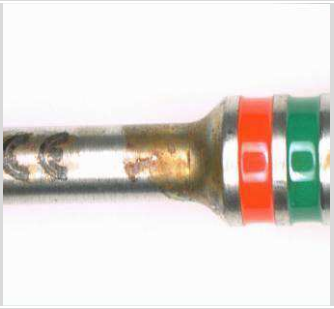
Possible damage

– Connection between handle and blade is damaged

Measures

– At inspection of the sets take out damaged products

5.4 Contamination / Residues

		
✓	✗	✗
		
✓	✗	✗

Possible damage

Screwdriver blade is contaminated with:

- Blood
- Bone
- Other residues

Measures

- At inspection of the sets take out contaminated screwdrivers and blades

5.5 Damaged quick coupling handles



✓ ✗ ✗

Possible damage
- Flexibility of coupling piece impaired or restricted

Measures
- At inspection of the sets take out damaged handles

5.6 Damaged quick coupling instruments



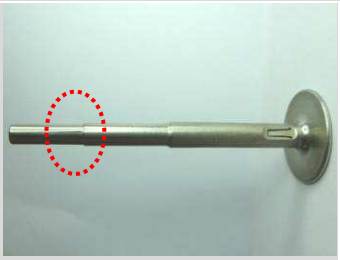
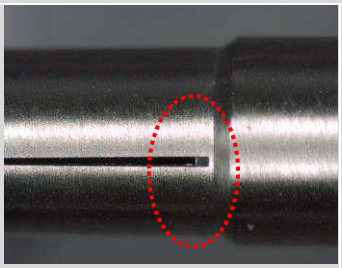
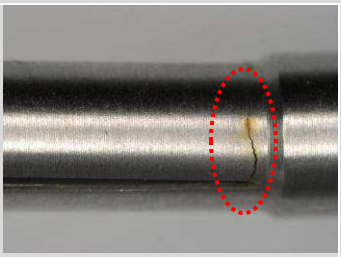
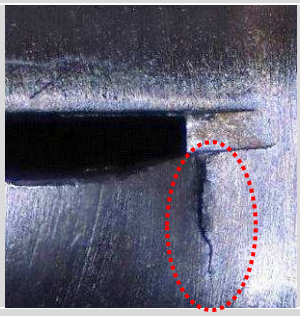

✓ ✓ ✗ ✗

Possible damage
- Deformation of blade coupling
- Blade may not be inserted into handle

Measures
- At inspection of the sets take out damaged handles

6 Tension Pliers

6.1 Lamella broken, bent or cracked

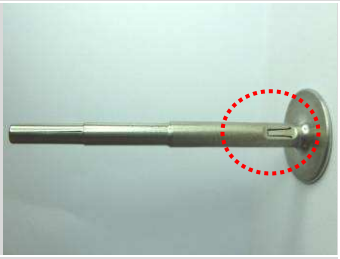





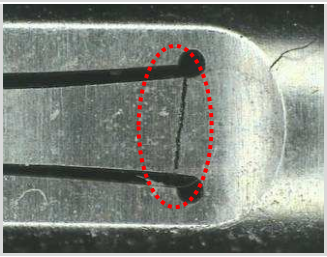
✓ ✓ ✗ ✗

Possible damage
- Crack on lamella
- Lamella broken

Measures
- At inspection of the sets take out damaged products

6.2 Clip broken, bent or cracked






✓ ✓ ✗ ✗

Possible damage
- Crack on clip
- Clip broken

Measures
- At inspection of the sets take out damaged products

6.3 Bent and/or contaminated lamella

			
✓	✘		

Possible damage

– Lamella bent outwards

Lamellas contaminated with:

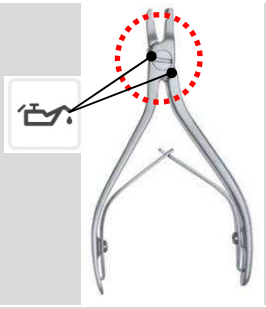
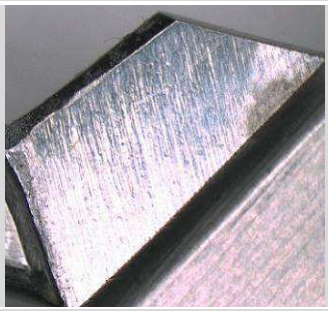
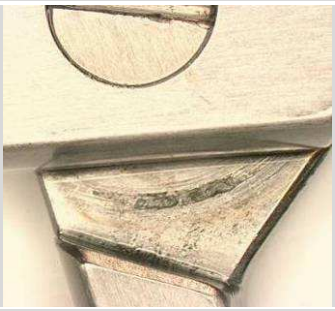
– Blood
– Bone
– Other residues

Measures

– At inspection of the sets take out damaged and/or contaminated products

7 Pliers

7.1 Blocked joint

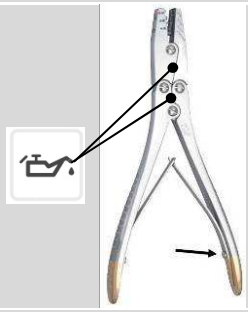
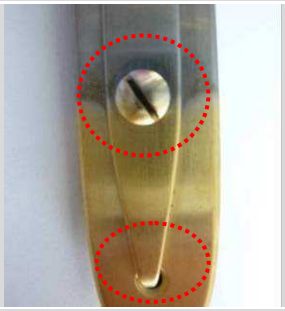





✓ ✓ ✘ ✘

Possible damage
- Pliers are blocked

Measures
- At inspection of the sets take out damaged and/or contaminated products

7.2 Spring broken

✓ ✓ ✘ ✘

Possible damage
- Pliers are blocked
- Spring with cracks
- Spring has broken

Measures
- At inspection of the sets take out damaged and/or contaminated products

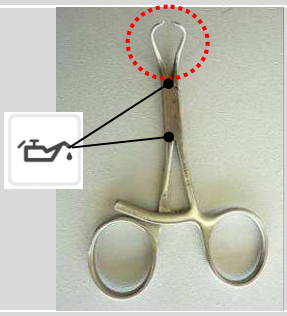
7.3 Lost color coding

	
✓	✘

Possible damage
- Color coding damaged or lost

Measures
- At inspection of the sets take out damaged and/or contaminated products

7.4 Deformed forceps tips

			
✓	✓	✘	✘

Possible damage
- Tips deformed or damaged

Measures
- At inspection of the sets take out damaged and/or contaminated products

8 K-Wire Dispenser

8.1 Contamination / Residues

			
✓	✗	✗	
			
✓	✗	✗	

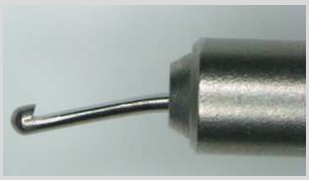
Possible damage
K-wire dispenser is contaminated with:
- Blood
- Bone
- Other residues

Measures
- At inspection of the sets take out damaged and/or contaminated products

9 Depth Gauge

9.1 Needle broken, bent or damaged



✓ ✗ ✗ ✗

Possible damage
- Needle bent or broken
- Instrument bent, distorted

Measures
- At inspection of the sets take out damaged and/or contaminated products

9.2 Contamination / Residues


✓ ✗

Possible damage
Depth gauge is contaminated with:
- Blood
- Bone
- Other residues

Measures
- At inspection of the sets take out damaged and/or contaminated products

10 Instruments in General

10.1 Decoloration / Surface damages

			
✓	✘	✘	✘

Possible damage

- Anodized surface decolored
- Surface scratched

Measures

- At inspection of the sets take out damaged and/or contaminated products

11 Container

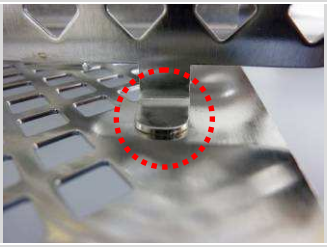
11.1 Decoloration / Surface damage

			
✓	✘	✘	✘

Possible damage
- Surfaces decolored, damaged or scratched
- Marking no longer readable

Measures
- At inspection of the sets take out damaged and/or contaminated products

11.2 Damaged/broken welding seams

			
✓	✓	✘	

Possible damage
- Welding seams of the container are damaged/broken

Measures
- At inspection of the sets take out damaged and/or contaminated products

11.3 Damaged/broken lids

			
✓	✓	✘	

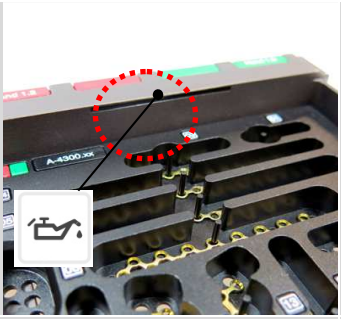
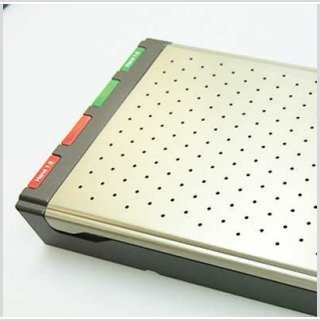
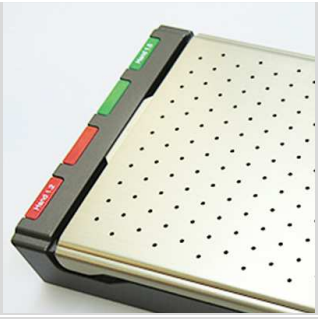
Possible damage

– Broken handles

Measures

– At inspection of the sets take out damaged and/or contaminated products

11.4 Jamming/blocked lids

			
✓	✓	✘	

Possible damage

– Lids cannot be mounted on the container

Measure

– Lubricate spherical pressure piece

12 Symbol Annotation

Instruments must be lubricated during reprocessing, refer to Instructions for Use