

TORNIER

AEQUALIS™ PERFORM™+

CORTILOC™ Augmented Glenoid

SURGICAL TECHNIQUE

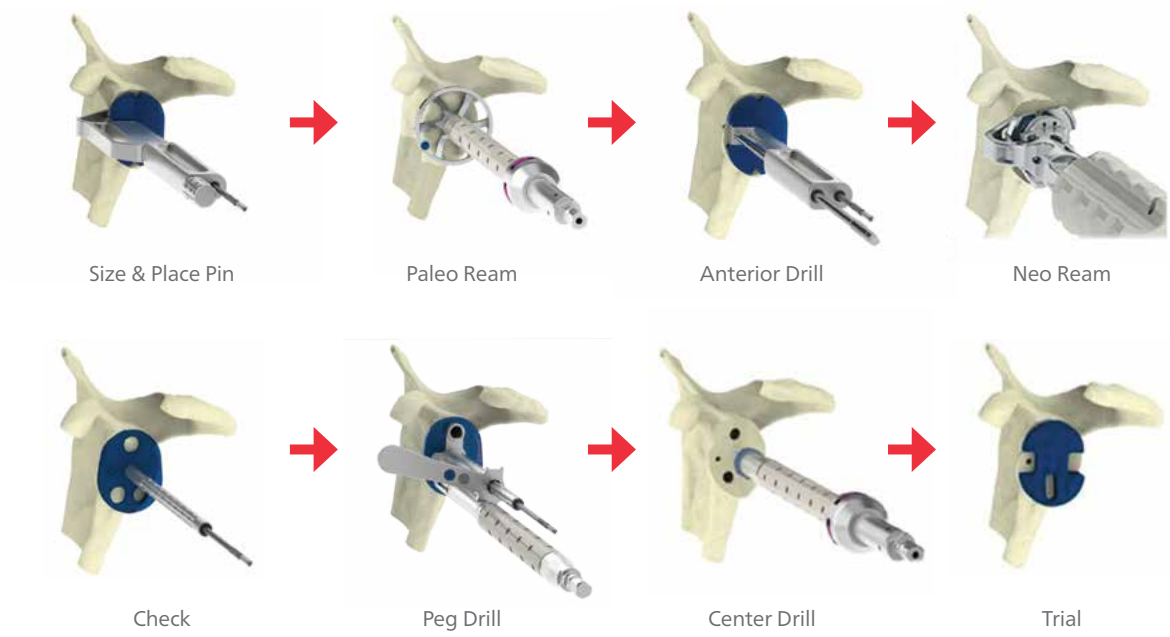


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Surgical Technique Overview

CORTILOC™ Surgical Technique

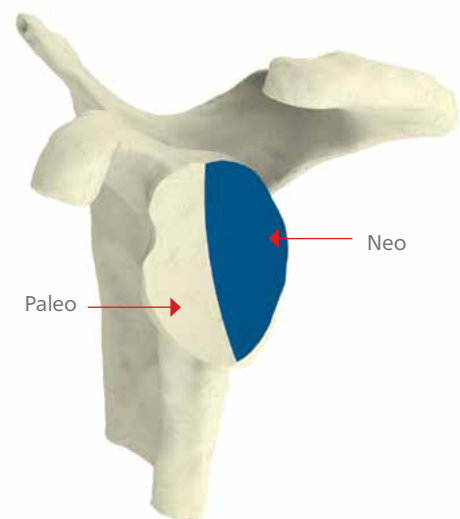


AEQUALIS™ PERFORM™ + Glenoid

The AEQUALIS™ PERFORM™ + system is an extension of the AEQUALIS PERFORM anatomic glenoid system developed to address posterior glenoid deficiencies.¹

The AEQUALIS PERFORM+ system has been developed to preserve subchondral bone that has been demonstrated to be a critical factor in long term survivorship. The cannulated instrumentation provides for simple axial preparation that is intended to mirror both the paleo (anterior) and neo (posterior) surface of the glenoid.

The AEQUALIS PERFORM+ system features four sizes (Small, Medium, Large and Extra Large) with a 40 mm backside radius of curvature. Three augmented angles are available to choose from (15°, 25° and 35°) in both lefts and rights.



Indications & Contraindications

Indications

Prosthetic replacement with this device (AEQUALIS™ PERFORM™+ glenoid component and humeral component) may be indicated to relieve severe pain or significant disability caused by:

- Degenerative pathologies: osteoarthritis, rheumatoid polyarthritis, post-traumatic arthritis
- Primary and secondary necrosis of the humeral head
- Displaced 4-part upper humeral fracture
- Humeral head fracture
- Other pathologies where arthrodesis or resectional arthroplasty of the humeral head are not acceptable
- Revisions when other treatments or devices have failed

The AEQUALIS™ monobloc stem is cemented use

The AEQUALIS Press-Fit is for uncemented use

AEQUALIS PERFORM+ glenoids are intended for cemented use only

Contraindications

- Systemic infection
- Fever and/or local inflammation
- Rapid joint destruction or bone resorption apparent on roentgenograms
- Elevation of sedimentation rate unexplained by other disease, elevation of WBC count
- Distant foci of infection from genitourinary, pulmonary, skin and other sites, dental focus infection that may cause haematogenous spread to the implant site
- Use of this implant is contraindicated in the presence of significant injury to the upper brachial plexus
- Poor quality and/or insufficient quantity of glenoid bone stock (pre- or intraoperative glenoid fracture...)
- Nonfunctional deltoid or external rotator muscles
- Important and non-reparable rupture of the rotator cuff
- Neuromuscular disease (e.g. joint neuropathy)
- Known allergy to one of the materials
- Patient pregnancy

System Compatibility

System Compatibility Mismatch Charts

The AEQUALIS™ PERFORM™+ glenoid has been designed to be compatible with the SIMPLICITI™, AEQUALIS™, AFFINITI™ and ASCEND™ humeral head systems in certain combinations. For more information on the cleared combinations refer to the mismatch charts listed below. (All models are not cleared in all countries; please contact your Wright representative for information about the availability.)

AEQUALIS™ PERFORM™+ Glenoids with AEQUALIS™/SIMPLICITI™/AEQUALIS™ ASCEND™ FLEX Heads - Mismatch Chart
Recommended Combinations Heads/Glenoids, Diametrical Mismatch in mm, *The cleared range for this combination is 1 to 24.8 mm

Size	Heads	37X13.5	39X14	41X15	43X16	46X17	48X18	50X16	50X19	52X19	52X23	54X23	54X27
Glenoid	Diameter of curvature	39	41.2	43	45	48	50	55	52	54.6	52.4	54.7	54
Small	55.4	16.4	14.2	12.4	10.4	7.4	5.4	0.4	3.4	0.8	3	0.7	1.4
Medium	59.6	20.6	18.4	16.6	14.6	11.6	9.6	4.6	7.6	5	7.2	4.9	5.6
Large	63.6	24.6	22.4	20.6	18.6	15.6	13.6	8.6	11.6	9	11.2	8.9	9.6
XL	67.8	28.8	26.6	24.8	22.8	19.8	17.8	12.8	15.8	13.2	15.4	13.1	13.8

AEQUALIS™ PERFORM™+ Glenoids with AFFINITI™/SIMPLICITI™ Heads - Mismatch Chart

Recommended Combinations Heads/Glenoids, Diametrical Mismatch in mm, *The cleared range for this combination is 1 to 24.8 mm

Size	Heads	40	44	48	52	56
Glenoid	Diameter of curvature	40	44	48	52	56
Small	55.4	15.4	11.4	7.4	3.4	-0.6
Medium	59.6	19.6	15.6	11.6	7.6	3.6
Large	63.6	23.6	19.6	15.6	11.6	7.6
XL	67.8	27.8	23.8	19.8	15.8	11.8

AEQUALIS™ PERFORM™+ Glenoids with ASCEND™ Heads - Mismatch Chart

Recommended Combinations Heads/Glenoids, Diametrical Mismatch in mm, *The cleared range for this combination is 1 to 24.8 mm

Size	Heads	38	40	42	44	46	48	50	52	54
Glenoid	Diameter of curvature	39.2	41.4	43.4	45.4	47.6	49.6	51.6	53.8	55.8
Small	55.4	16.2	14	12	10	7.8	5.8	3.8	1.6	-0.4
Medium	59.6	20.4	18.2	16.2	14.2	12	10	8	5.8	3.8
Large	63.6	24.4	22.2	20.2	18.2	16	14	12	9.8	7.8
XL	67.8	28.6	26.4	24.4	22.4	20.2	18.2	16.2	14	12

AEQUALIS™ PERFORM™+ Glenoids with AEQUALIS™ ASCEND™ FLEX STB Heads - Mismatch Chart

Recommended Combinations Heads/Glenoids, Diametrical Mismatch in mm, *The cleared range for this combination is 1 to 24.8 mm

Size	Heads	39X13	39X15	42X14	42X16	42X18	45X15	45X17	45X19	48X16	48X18	48X20	51X17	51X20	51X23	54X18	54X21	54X24	56X24
Glenoid	Diameter of curvature	42.3	40.4	45.5	43.6	42.5	48.8	46.8	45.6	52	50	48.8	55.3	52.5	51.3	58.5	55.7	54.4	56
Small	55.4	13.1	15	9.9	11.8	12.9	6.6	8.6	9.8	3.4	5.4	6.6	0.1	2.9	4.1	-3.1	-0.3	1	-0.6
Medium	59.6	17.3	19.2	14.1	16	17.1	10.8	12.8	14	7.6	9.6	10.8	4.3	7.1	8.3	1.1	3.9	5.2	3.6
Large	63.6	21.3	23.2	18.1	20	21.1	14.8	16.8	18	11.6	13.6	14.8	8.3	11.1	12.3	5.1	7.9	9.2	7.6
XL	67.8	25.5	27.4	22.3	24.2	25.3	19	21	22.2	15.8	17.8	19	12.5	15.3	16.5	9.3	12.1	13.4	11.8

Cleared Mismatch Range Non-Cleared Mismatch Range

Surgical Technique

Preoperative Planning

A careful analysis of X-rays and axial CT scan views are recommended before surgery to evaluate the following parameters: osteophytes, articular curvature, anterior and, more importantly, posterior wear of the glenoid, as well as the location, orientation and depth of the glenoid vault.

Exposure

With the arm abducted and internally rotated, a posterior glenoid retractor is placed on the posterior glenoid border as the proximal humerus is dislocated posteriorly and inferiorly. An angled retractor placed above the glenoid and an angled Kolbel retractor placed in the subscapular fossa are used to complete the exposure. (Figure 1)

If preoperatively the humerus rests in a fixed posteriorly subluxed position, then the posterior capsule may be stretched out sufficiently so that a posterior capsular release for exposure may not be necessary.

If, after releasing the entire anterior capsule down to the 6 o'clock on the glenoid face the shoulder is still tight, then additional capsule is released around the posterior inferior corner and up the posterior side until the humerus can be adequately retracted for exposure (labrum and posterior capsule). (Figure 2)

The glenoid retractor then is moved upward if more of the posterior release needs to be completed. (Figure 3)

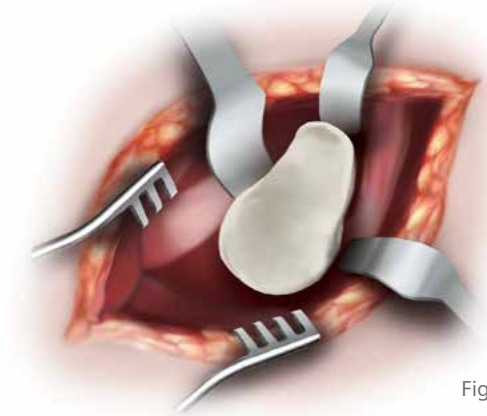


Figure 1

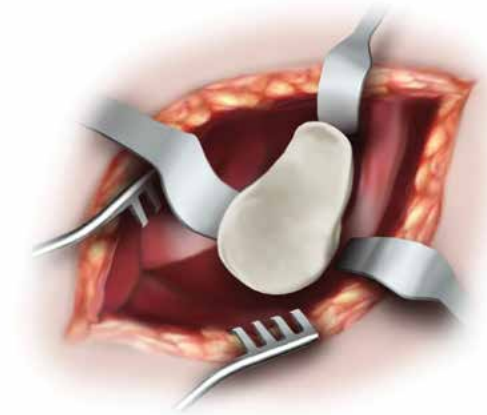


Figure 2

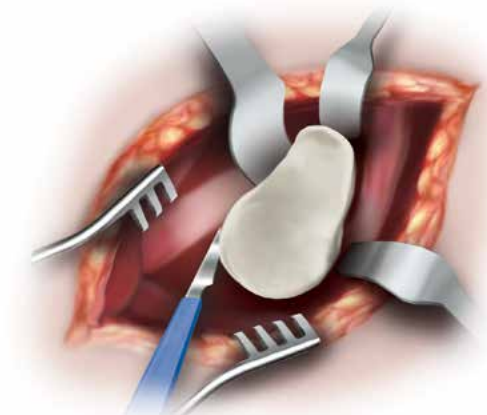


Figure 3

Surgical Technique

Technical Considerations

The AEQUALIS™ PERFORM™+ system leverages the 40 mm curvature AEQUALIS PERFORM Reamers for the Paleo preparation as well as the AEQUALIS PERFORM CORTILOC™ Enlarging Central Hole Drill Bit. To allow for seamless interoperative flexibility between AEQUALIS PERFORM and AEQUALIS PERFORM+ it is critical to leverage the cannulated approach with the longer 2.5 mm x 220 mm Guide Pin.

To improve operative efficiency, the AEQUALIS PERFORM+ instrumentation has been color coded by size. Please refer to the chart below to see which colors are associated with which size.



Confirming the Glenoid Size

To determine the size of the glenoid, attach the Sizer Handle to the Sizer and place the Sizer on the face of the glenoid. Select the size that provides the best coverage without overhang. Due to posterior wear, the anterior glenoid may provide the best guidance. The augment depth will be evaluated in a subsequent step after Paleo preparation.



Figure 4

Pin Placement

While there are alternative approaches to pin placement, the AEQUALIS PERFORM+ system offers the Fossa Referencing Guide to aid in pin placement. It is important to note this guide is not intended to rest against the anterior lip of the glenoid (known as the Levine angle) for pin placement, but instead is intended to align the center of the glenoid profile with the subscapularis fossa (known as Freidman's Line). (Figure 4)

To assemble the guide, place the Fossa Referencing Guide onto the shaft of the Sizer Handle. Then slide the Fossa Locking Rod through the handle and guide, and turn to tighten the threads. (Figure 5)



Figure 5

Place the assembly onto the face of the glenoid, align the tip of the Fossa Referencing Guide with the Subscapularis Fossa and center the Sizer on the face of the glenoid. Once aligned drive the 2.5 mm x 220 mm Guide Pin through the Sizer Handle until bi-cortical fixation is achieved. (Figure 6)

With the pin in place, unthread the Fossa Locking Rod and remove the Fossa Reference Guide. Slide the Sizer and Sizer Handle off of the pin and out of the joint.

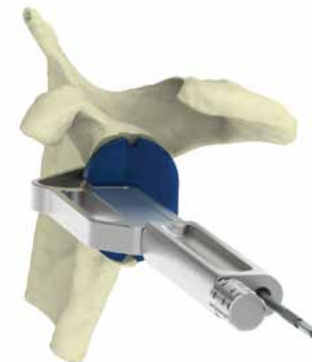


Figure 6

Note: If the 2.5 mm x 220 mm Guide Pin bends or appears to be bent in any step of the procedure, it must be removed and replaced by a new 2.5 mm x 220 mm Guide Pin.

Resurfacing the Glenoid (Paleo Reaming):

Introduction

Recent studies suggest that maintaining axial alignment when reaming bi-concave is particularly challenging due to the lack of clear landmarks. Maintaining axial alignment to the guide pin when preparing the Paleo and Neo glenoid is critically important to AEQUALIS™ PERFORM™+ implant seating and long-term outcomes.

While Guide Pins are effective at keeping the reamer centered within the glenoid, they often allow for a few degrees of variation without providing tactical feedback.

The Marksman Driver has been developed to provide visual feedback when the driver is used off axis from the pin, it's use is more fully described in subsequent steps.

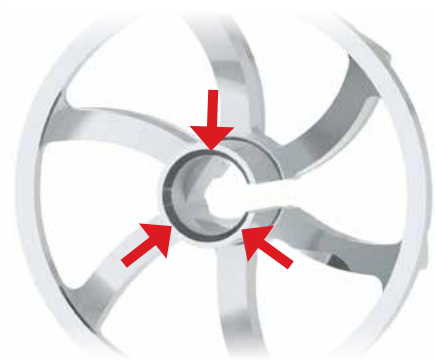


Figure 7

Reamer Assembly

Low Profile Approach

If exposure is difficult, a special slot in the internal ring of the AEQUALIS PERFORM Reamer will allow the reamer to easily be slid down 2.5 mm x 220 mm Guide Pin and past the humerus before the Driver is attached to the AEQUALIS PERFORM Reamer. (Figure 7)

To begin, identify which section of the AEQUALIS PERFORM Reamer includes the slot and place this section over the 2.5 mm x 220 mm Guide Pin. This will allow the AEQUALIS PERFORM Reamer to be easily maneuvered past the humerus and retractors. Once the AEQUALIS PERFORM Reamer has been introduced into the joint space, slide the central portion of the AEQUALIS PERFORM Reamer onto the pin. (Figure 8)

Next, place the cannulated Marksman Quick Connect Driver over the 2.5 mm x 220 mm Guide Pin. Align the flats on the tip of the drive with those on the AEQUALIS PERFORM Reamer and apply pressure to attach the Driver to the AEQUALIS PERFORM Reamer. (Figure 9)



Figure 8



Figure 9

Resurfacing the Glenoid (Paleo Reaming) Continued:

Standard Approach

If exposure is sufficient to place the AEQUALIS™ PERFORM™ Reamer down the pin without interference, select the Reamer that corresponds to the size in the previous steps and attach it to the “Marksman” Quick Connect Driver.

Marksman Axial Alignment

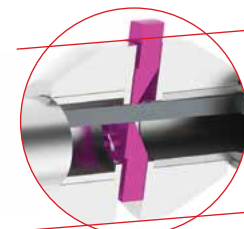
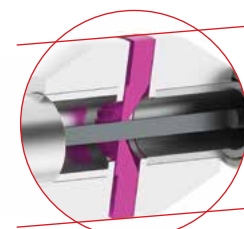
Designed to deliver exceptional accuracy, the “Marksman” provides visual feedback as soon as the Reamer Handle moves off axis in addition to an audible clicking sound if the Reamer Handle moves more than one degree off axis. (Figure 10a)

The visual feedback is delivered via the “X indicator” on the Reamer Handle which is designed to float inside the driver shaft staying true to the pin. This allows the “X Indicator” to peek out from the Reamer Handle anytime the Handle deviates from the pin. (Figure 10b)

To realign the Reamer Handle with the Guide Pin, move the Handle in the direction that the “X indicator” is peeking out. For example, if the “X Indicator” is seen on the left hand side of the handle, move the handle to the left. Keeping the “X indicator” hidden within the Reamer Driver will ensure true axial preparation. (Figures 11a-11b)

Note: When initiating reaming do not focus on the X indicator until the reaming begins to smooth out.

Note: It is important to note the Marksman feature is intended to only guide reaming and to still be mindful of the amount of bone being removed in addition to alignment.



Resurfacing the Glenoid – Paleo Preparation

It is important to ensure the reamer is spinning prior to contacting the Paleo glenoid surface. (Figure 12) This will help to reduce the risk of possible glenoid fracture.

Note: It is recommended to irrigate with saline solution while reaming and drilling to prevent heat buildup which can lead to necrosis of the surrounding bone.

The goal of reaming is to obtain a bony surface that matches the backside of the glenoid component while removing as little bone as possible. Reaming is complete when the anterior surface is smooth and extends past the midpoint of the Guide Pin. (Figure 13) This can be evaluated by utilizing the Sizer from the previous steps.

Note: It is not advisable to ream down to cancellous bone.

Overaggressive reaming should be avoided to prevent possible glenoid fracture and future risk of component loosening. Once Paleo Reaming is complete, remove the assembly by sliding the AEQUALIS™ PERFORM™ Reamer off the Guide Pin.

Anti-Rotation Pin Drill:

Once anterior reaming is complete, a small anti-rotation hole is to be drilled to help align the Neo Reamer and define the location of the posterior augment.

To prepare this hole, assemble the Sizer Handle and Sizer. Orient the assembly so that the metal guide is anterior and place the Sizer over the pin and onto the face of the glenoid. (Figure 14)

Rotate the Sizer so that the “v” notches align with the ridge of the anterior surface and the posterior defect (previously referred to as the midpoint). It is important to ensure the anterior half has full seating. If not, additional reaming may be required on the anterior surface.

Ensuring the Sizer is sitting flush on the reamed surface pass the 2.5 mm Drill Bit through the anterior hole of the Sizer Handle. Drill until the proximal collar rests on the Sizer Handle. (Figures 15a-15b) Once this is complete remove the 2.5 mm Anti-rotation Drill Bit, Sizer and Sizer Handle.

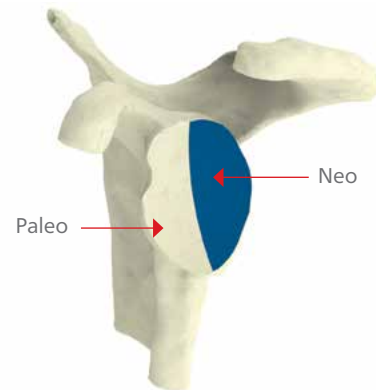


Figure 12

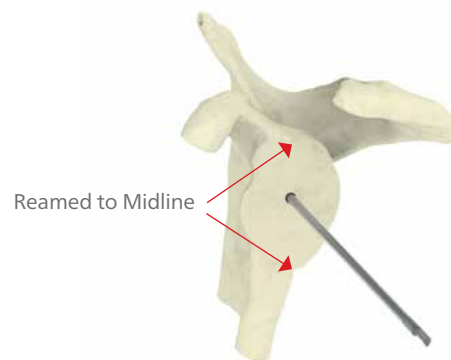


Figure 13



Figure 14

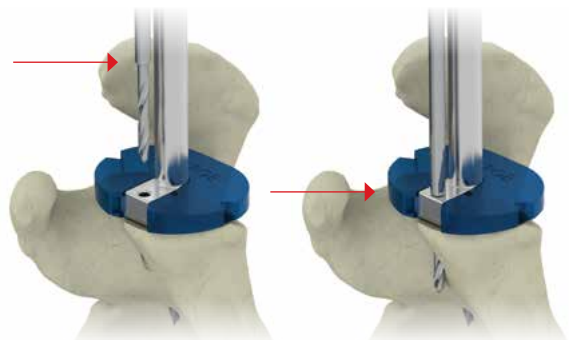


Figure 15a

Figure 15b

Assembly of the Angled Neo Reamer:



No.	Description	No.	Description
1	Neo Reamer Drive End	4	Neo Reamer Depth Stop
2	Neo Reamer Handle	5	Neo Reamer Angle Indicator
3	Neo Reamer Sleeve/Slide Assy	6	Neo Reamer Cannulated Drive Shaft



Figure 16a



Figure 16b

Step 1:

Connect the Reamer Sleeve and the Reamer Slide of the Neo Reamer making sure the nob on the Reamer Slide fits into the cut out section of the Reamer Sleeve. Once this connection is made, you will pull back on the trigger of the Reamer Slide until it is attached to Reamer Sleeve and the knob of the Reamer Slide is through the Reamer Sleeve. (Figure 16a-16b)

Note: This part of the instrument comes pre-assembled in instrument case.

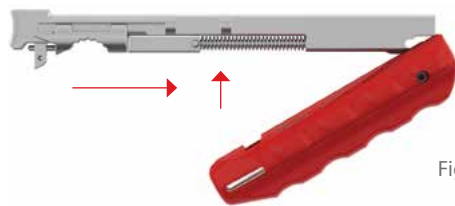


Figure 17a

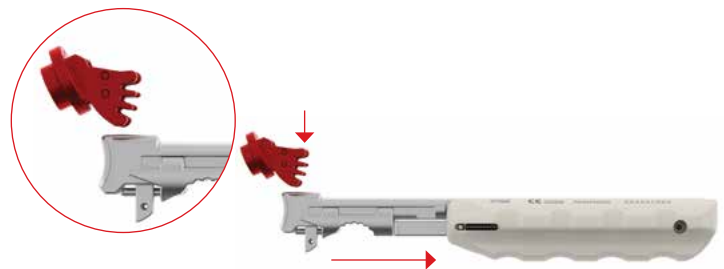


Figure 18

Step 2:

Position the pin of the Reamer Handle into the "U" shaped slot of the Reamer Sleeve. Fully retract the Reamer Slide and pivot the Reamer Handle until it snaps onto the Reamer Sleeve.(Figure 17a)

Step 3:

Retract the Reamer Slide and place the Angle Indicator into the slot of the Reamer Sleeve. Set the angle to 15°. (Figure 18)



Figure 19a

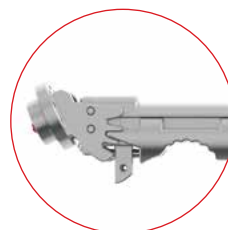


Figure 19b

Step 4:

The drive shaft is now placed through the top of the Angle Indicator and down the Reamer Sleeve. Make sure before progressing to the next step of assembly that the Cannulated Shaft is flush at the entry point of the Angle Indicator. Once fully seated, pivot the Angle Indicator past the 15° position to a neutral position. This will lock the device for the next step. (Figure 19a-19b)

Step 5:

Thread the Drive End onto the Reamer Shaft ensuring a tight connection. (Figure 20a-20b)



Figure 20a



Figure 20b

Note: After the steps pictured in Figure 20a-20b are complete, ensure the construct (Reamer Shaft) spins freely in the 15, 25, & 35 positions. Also ensure the Angle Indicator moves to all positions.

Step 6:

With the Angle Indicator back in the lock position, thread the Reamer Head onto the Reamer Sleeve. Much like the Drive End in step five, make sure this connection is tight. (Figure 21)



Figure 21

Step 7:

With the Angle Indicator out of the lock position, fully retract the slide and attach the Depth Stop to the sleeve as shown below.

Once these steps are complete, the instrument is assembled properly and can be used for surgery. (Figure 22a-22c)

Note: If the Depth Stop will not seat properly, ensure the Reamer Head is fully threaded and not sitting proud.



Figure 22a



Figure 22b



Figure 22c

Note: Always engage the reamer initially at the 15° position.

Resurfacing the Glenoid (Neo Reaming):

The Neo Reamer assembly has been designed to seamlessly articulate to 15, 25 and 35 degree positions from the central axis. This allows for precise preparation for each augment thickness. By articulating on this axis, subchondral bone can be preserved. As a general rule, the Neo Reamer first contacts bone closest to the Guide Pin and then progresses posterior. Prior to reaming, ensure the reamer is set to the 15 degree position.

To begin posterior reaming, slide the Neo Reamer over the Guide Pin and place the Pin on the Depth Stop into the anti-rotation hole to ensure appropriate alignment.

Note: It is critical to maintain alignment with the guide pin while Neo Reaming. Use a firm grip to counteract the forces created while reaming. It is best to not apply significant force to the reamer, but rather to let the reamer cut with minimal pressure.

Note: Overaggressive reaming should be avoided to prevent possible glenoid fracture and future risk of component loosening.

Note: It is imperative that the Reamer not be run on reverse as this will unthread the Reamer, potentially causing the Reamer to lock against the Depth Stop.

Note: To optimize instrument performance, the use of lubricant is recommended. The lubricant used shall be selected specifically for a medial use.



Figure 23a



Figure 23b

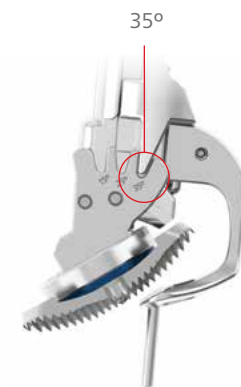


Figure 23c



Figure 24

Ream the glenoid at the at the 15 degree angle (Figure 23a) until the posterior defect has been completely reamed and the depth stop is flush against the anterior glenoid. If at this point, the posterior glenoid is not completely reamed adjust the reamer to 25 degrees and ream until the depth stop once again is flush against the anterior glenoid. (Figure 23b) Again, if the posterior glenoid is not completely reamed adjust the reamer to 35 degrees and ream until the depth stop once again is flush against the anterior glenoid. (Figure 23c) This step will determine the augment thickness of the final implant. (Figure 24)

Checking the Reamed Surface:

With the Neo surface prepared the corresponding Checker can be used to evaluate if proper reaming has been achieved. To do this, thread the Checker Handle onto the Checker and slide it down the Guide Pin. Align the Anti-Rotation hole in the Checker with the previously drilled Anti-Rotation hole on the face of Glenoid and assess Checker seating. (Figure 25) If there are gaps between the face of the Glenoid and the Checker, refer to the chart below for additional recommendations. Some may prefer to use the Checker without the Checker Handle to assess any A/P rocking of the component.



Figure 25

Gap	Recommendations
Consistent Anterior Gap	Ream more Neo Glenoid at same angle (Neo is under prepared)
Consistent Posterior Gap	Ream more Neo Reamer at next angle, if possible (Augment thickness is not sufficient)
Asymmetric Posterior Gap (S/I)	Ream more Neo Glenoid ensuring proper alignment (Possible rotation while reaming)

Note: If the checker seats perfectly, but the anterior hole on the checker does not line up with the anterior anti-rotation hole it is advisable to re-drill the 2.5 mm anti-rotation hole through the checker. If the anti-rotation hole is re-drilled to a new location, this new hole should be used for the remainder of the procedure.

Preparing the Peripheral Pegs (CORTILOC™):

To prepare the CORTILOC™ peripheral holes, begin by selecting the S/M or L/XL FastTrack Peripheral Drill Guides.

Slide the Drill Guide over the Checker Handle. Make sure to align the holes of the Drill Guide with the holes of the Checker. Additionally, align the Anti-Rotation peg with the Checker and previously drilled hole to provide rotational stability.

Note: Once reamed surface is prepared and the anti-rotation hole in the drill guide does not align, but preparation is to the desired effect, it is recommended to continue with this alignment.

With the Drill Guide in place, attach the CORTILOC Quick Release Drill Bit to the Quick Release Driver. Use the saddle of the guide to maintain alignment and drill the superior hole until the collar of the Quick Release Drill Bit contacts the guide. (Figure 26)

Once the Quick Release Drill Bit is fully seated, stop the driver from spinning and slide the driver off the drill bit leaving it in place as a stabilization peg. Connect a second Drill Bit to the Driver and drill the anterior hole. Connect an additional Drill Bit and drill the posterior hole.

Once all the peripheral peg holes are drilled, all instruments can be removed by grasping the end of the Checker Handle and sliding the instruments off the guide pin. (Figure 27)

Drilling the Central Hole (CORTILOC™):

Begin by selecting the corresponding AEQUALIS™ PERFORM™ S/M or L/XL Cannulated Central Drill Bit. Next, attach the Drill Bit to the Marksmen Driver and place the assembly over the pin. Drill until the collar is flush against the glenoid surface. (Figure 28)

Remove the Guide Pin before proceeding to the next step.

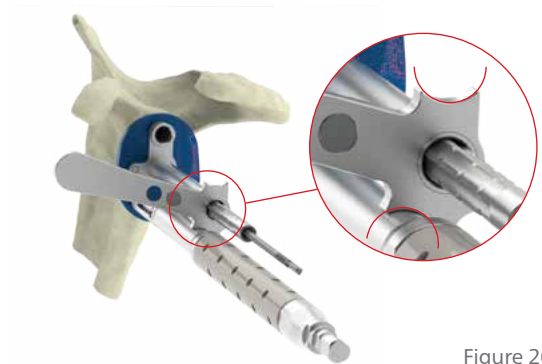


Figure 26



Figure 27



Figure 28

Trialing

Once the holes have been prepared, select the corresponding CORTILOC™ Glenoid Trial. Align the pegs of the trial with the corresponding holes and insert the trial. The Trial can be inserted into the glenoid using the AEQUALIS™ PERFORM™ Trial Grasper and can be fully seated with the AEQUALIS PERFORM Glenoid Impactor. (Figure 29)

Two windows, anterior and posterior, allow visualization of the bone to trial interface. If the Trial has acceptable backside support, remove the Trial with the AEQUALIS PERFORM Trial Grasper.



Figure 29

Positioning the CORTILOC™ Glenoid Component:

It is recommended to carefully clean and dry the glenoid surface and peg holes prior to cementing.

Once the glenoid is clean and dry, introduce the bone cement, and insert the final implant. Fully seat the final Implant using the AEQUALIS PERFORM Glenoid Impactor. It is recommended to maintain pressure on the face of the glenoid with the impactor while the cement hardens.* (Figure 30-31)

Note: The pegs should not be altered in any manner prior to implantation

Note: Once a specific size (S/M or L/XL) has been prepped, it is not advisable to upsize or downsize the implant.

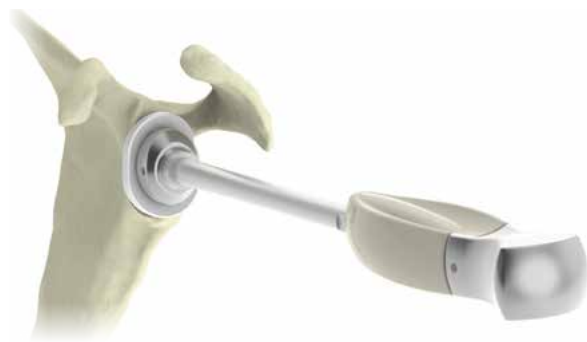


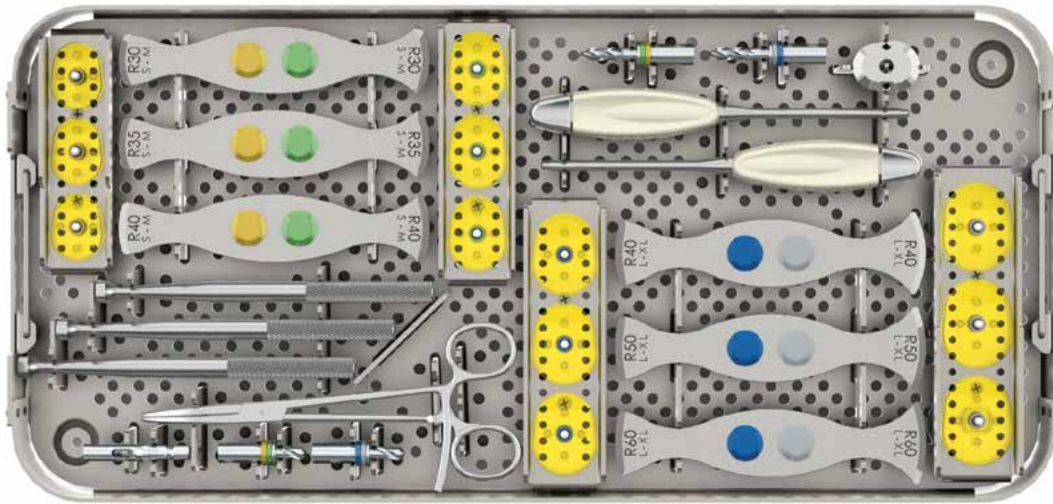
Figure 30



Figure 31

*Long-term results of cancellous compaction technique for glenoid replacement in total shoulder arthroplasty for primary osteoarthritis. O. Verborgt, G. Walch, V. Belloti, and G. Gazielly

Components

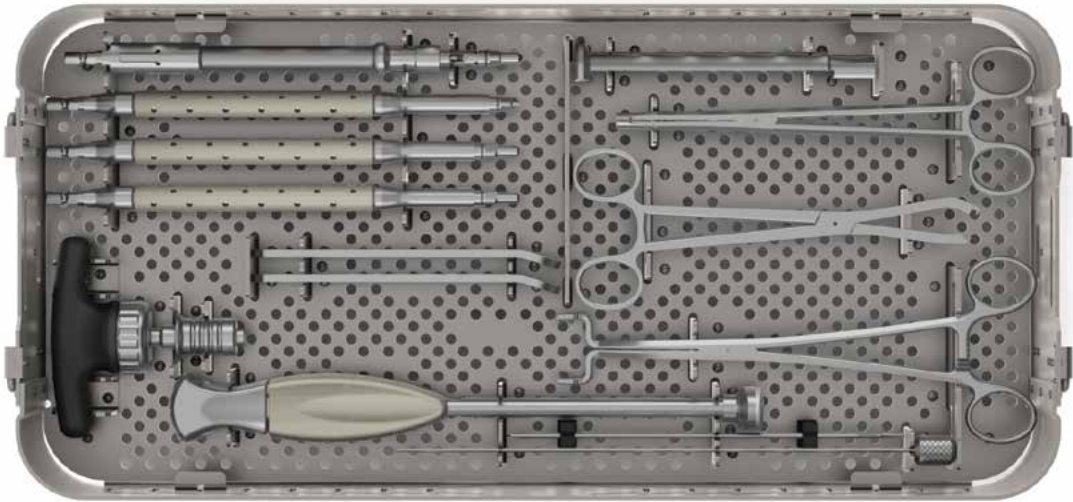


AEQUALIS™ PERFORM™ Glenoid CORTILOC™ Instrumentation – Upper Level YKAD210A/B

Reference	Description	Reference	Description
MWE011	S30 Sizer	MWE153	Cannulated Central Hole Drill Bit – Ø6 mm Small/Medium
MWE012	S35 Sizer	MWE154	Central Holed Drill Bit – Ø6 mm Small/Medium
MWE013	S40 Sizer	MWE155	Cannulated Central Hole Drill Bit – Ø6 mm Large/Extra Large
MWE014	M30 Sizer	MWE156	Central Holed Drill Bit – Ø6 mm Large/Extra Large
MWE015	M35 Sizer	MWE160	S30 Reamer
MWE016	M40 Sizer	MWE161	S35 Reamer
MWE017	L40 Sizer	MWE162*	S40 Reamer
MWE018	L50 Sizer	MWE163	M30 Reamer
MWE019	L60 Sizer	MWE164	M35 Reamer
MWE020	XL40 Sizer	MWE165*	M40 Reamer
MWE021	XL50 Sizer	MWE166*	L40 Reamer
MWE022	XL60 Sizer	MWE167	L50 Reamer
MWE031	Radius Gauge – Small/Medium 30 mm	MWE168	L60 Reamer
MWE032	Radius Gauge – Small/Medium 35 mm	MWE169*	XL40 Reamer
MWE033	Radius Gauge – Small/Medium 40 mm	MWE170	XL50 Reamer
MWE034	Radius Gauge – Large/Extra Large 40 mm	MWE171	XL60 Reamer
MWE035	Radius Gauge – Large/Extra Large 50 mm	MWE110	Sizer Clamp
MWE040	Central Hole Drill Guide – Ø6 mm		
MWE111	Pin Guide 0°		
MWE112	Pin Guide 5°		
MWE113	Pin Guide 10°		
MWE042	Drill Guide Handle		
MWB253	Pin Driver		

*Instruments that are used from AEQUALIS PERFORM Glenoid Common Instrumentation in the AEQUALIS PERFORM+ System.

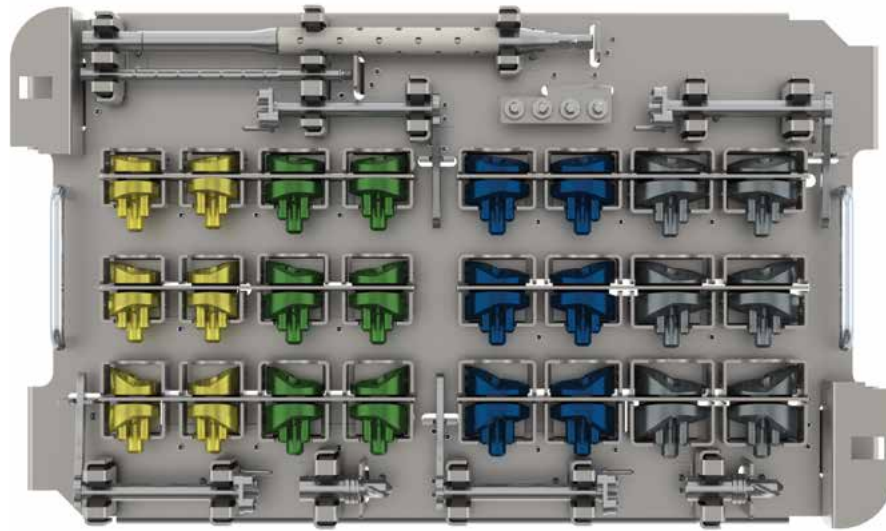
Components



**AEQUALIS™ PERFORM™ Glenoid CORTILOC™
Instrumentation – Lower Level YKAD210A/B**

Reference	Description
MWE044	Stabilization Peg Remover
MWE046*	Glenoid Impactor
MWD552	12 mm Wrench
MWE150	Articulated Driver
MWE151	Cannulated Reamer Driver
MWE152	Cannulated Drill/Reamer Driver w/Tip
MWE080 or MWE180	T-Handle – SZH
MWB236	Cleaning Rod
MWE114*	Glenoid Grasper
MWA652*	Trial Grasper
MWE157	Alignment Pin
MWE158	Quick Release Handle

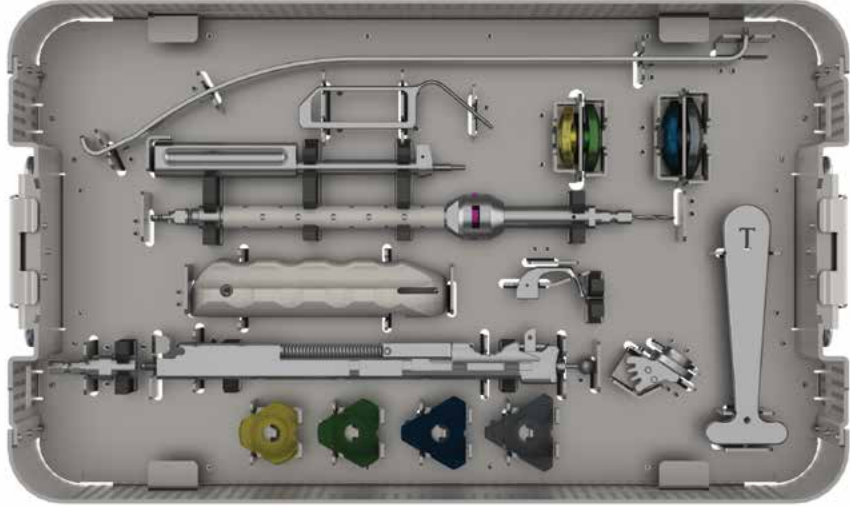
Components



AEQUALIS™ PERFORM™+ Glenoid CORTILOC™ Instrumentation – Upper Level YKAD271S

Reference	Description	Reference	Description
MWH632	Small CORTILOC/Pegged Checker RA15	MWH691S	Small CORTILOC Glenoid Trial RA15
MWH633	Small CORTILOC/Pegged Checker LA15	MWH692S	Small CORTILOC Glenoid Trial LA15
MWH634	Small CORTILOC/Pegged Checker RA25	MWH693S	Small CORTILOC Glenoid Trial RA25
MWH635	Small CORTILOC/Pegged Checker LA25	MWH694S	Small CORTILOC Glenoid Trial LA25
MWH636	Small CORTILOC/Pegged Checker RA35	MWH695S	Small CORTILOC Glenoid Trial RA35
MWH637	Small CORTILOC/Pegged Checker LA35	MWH696S	Small CORTILOC Glenoid Trial LA35
MWH638	Medium CORTILOC/Pegged Checker RA15	MWH697S	Medium CORTILOC Glenoid Trial RA15
MWH639	Medium CORTILOC/Pegged Checker LA15	MWH698S	Medium CORTILOC Glenoid Trial LA15
MWH640	Medium CORTILOC/Pegged Checker RA25	MWH699S	Medium CORTILOC Glenoid Trial RA25
MWH641	Medium CORTILOC/Pegged Checker LA25	MWH700S	Medium CORTILOC Glenoid Trial LA25
MWH642	Medium CORTILOC/Pegged Checker RA35	MWH701S	Medium CORTILOC Glenoid Trial RA35
MWH643	Medium CORTILOC/Pegged Checker LA35	MWH702S	Medium CORTILOC Glenoid Trial LA35
MWH644	Large CORTILOC/Pegged Checker RA15	MWH703S	Large CORTILOC Glenoid Trial RA15
MWH645	Large CORTILOC/Pegged Checker LA15	MWH704S	Large CORTILOC Glenoid Trial LA15
MWH646	Large CORTILOC/Pegged Checker RA25	MWH705S	Large CORTILOC Glenoid Trial RA25
MWH647	Large CORTILOC/Pegged Checker LA25	MWH706S	Large CORTILOC Glenoid Trial LA25
MWH648	Large CORTILOC/Pegged Checker RA35	MWH707S	Large CORTILOC Glenoid Trial RA35
MWH649	Large CORTILOC/Pegged Checker LA35	MWH708S	Large CORTILOC Glenoid Trial LA35
MWH650	Extra Large CORTILOC/Pegged Checker RA15	MWH709S	Extra Large CORTILOC Glenoid Trial RA15
MWH651	Extra Large CORTILOC/Pegged Checker LA15	MWH710S	Extra Large CORTILOC Glenoid Trial LA15
MWH652	Extra Large CORTILOC/Pegged Checker RA25	MWH711S	Extra Large CORTILOC Glenoid Trial RA25
MWH653	Extra Large CORTILOC/Pegged Checker LA25	MWH712S	Extra Large CORTILOC Glenoid Trial LA25
MWH654	Extra Large CORTILOC/Pegged Checker RA35	MWH713S	Extra Large CORTILOC Glenoid Trial RA35
MWH655	Extra Large CORTILOC/Pegged Checker LA35	MWH714S	Extra Large CORTILOC Glenoid Trial LA35
MWH682	CORTILOC FastTrack Peripheral Drill Guide L/XL Left	MWH680S	CORTILOC FastTrack Peripheral Drill Guide S/M Left
MWH683	CORTILOC FastTrack Peripheral Drill Guide L/XL Right	MWH681S	CORTILOC FastTrack Peripheral Drill Guide S/M Right
MWH685	CORTILOC/Pegged Quick Release Drill Bit	MWH686	Quick Release Driver
MWE0202	CORTILOC Cannulated Central Drill Bit - Small/Medium	MWE203	CORTILOC Cannulated Central Drill Bit - Large/Extra Large

Components



**AEQUALIS™ PERFORM™+ Glenoid CORTILOC™
Instrumentation – Lower Level YKAD271S**

Reference	Description
MWH600	Neo Reamer Assembly
MWH601	Neo Reamer Sleeve
MWH602	Neo Reamer Cannulated Drive Shaft
MWH603	Neo Reamer Angle Indicator
MWH604	Neo Reamer Marksman Drive End
MWH605	Neo Reamer Handle
MWH606	Neo Reamer Slide
MWH607	Neo Reamer Wrench
MWH608	Neo Reamer Datum Foot
MWH610	Small Neo Reamer
MWH611	Medium Neo Reamer
MWH612	Large Neo Reamer
MWH613	Extra Large Neo Reamer
MWH620	Marksman Quick Connect Driver
MWH622	Fossa Locking Rod
MWH623	Posterior Retractor
MWH624S	Small Sizer
MWH625S	Medium Sizer
MWH626S	Large Sizer
MWH627S	Extra Large Sizer
MWH628S	Sizer Handle
MWH629S	Fossa Referencing Guide
MWH630	Checker Handle
MWH631	2.5 Anti-rotation Drill Bit

Components

Reference	Description
DWK403RA15S	Small Right 15° CORTILOC Glenoid
DWK403LA15S	Small Left 15° CORTILOC Glenoid
DWK403RA25S	Small Right 25° CORTILOC Glenoid
DWK403LA25S	Small Left 25° CORTILOC Glenoid
DWK403RA35S	Small Right 35° CORTILOC Glenoid
DWK403LA35S	Small Left 35° CORTILOC Glenoid
DWK404RA15S	Medium Right 15° CORTILOC Glenoid
DWK404LA15S	Medium Left 15° CORTILOC Glenoid
DWK404RA25S	Medium Right 25° CORTILOC Glenoid
DWK404LA25S	Medium Left 25° CORTILOC Glenoid
DWK404RA35S	Medium Right 35° CORTILOC Glenoid
DWK404LA35S	Medium Left 35° CORTILOC Glenoid
DWK405RA15S	Large Right 15° CORTILOC Glenoid
DWK405LA15S	Large Left 15° CORTILOC Glenoid
DWK405RA25S	Large Right 25° CORTILOC Glenoid
DWK405LA25S	Large Left 25° CORTILOC Glenoid
DWK405RA35S	Large Right 35° CORTILOC Glenoid
DWK405LA35S	Large Left 35° CORTILOC Glenoid
DWK406RA15S	X-Large Right 15° CORTILOC Glenoid
DWK406LA15S	X-Large Left 15° CORTILOC Glenoid
DWK406RA25S	X-Large Right 25° CORTILOC Glenoid
DWK406LA25S	X-Large Left 25° CORTILOC Glenoid
DWK406RA35S	X-Large Right 35° CORTILOC Glenoid
DWK406LA35S	X-Large Left 35° CORTILOC Glenoid
DWD017	2.5 x 220 mm Guide Pin



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CAW-3876 REV A ECN 160161 16-Feb-2016