



**TruMatch®**  
PERSONALIZED SOLUTIONS

# TRUMATCH® Personalized Solutions

with ATTUNE® Knee System  
INTUITION™ Instruments

Plan Only Technique




# Plan Only Surgical Technique


The following steps are an addendum to the INTUITION™ Instruments Surgical Technique, the ATTUNE® Knee System Femur First Patient Specific Alignment Surgical Technique and the ATTUNE® Knee System INTUITION SOLO™ Instruments Surgical Technique.

This surgical technique provides instruction on how to incorporate the use of the TRUMATCH® Personalized Solutions Plan into the broader INTUITION Instruments Surgical Technique using either mechanical or Patient Specific Alignment. The surgeon must be familiar with the proper use of the INTUITION Instruments because the INTUITION Instruments are required in the steps prior to and following the utilization of the TRUMATCH Personalized Solutions Plan.

It is strongly recommended that the surgeon survey for potential anatomical changes since the case was submitted and created and carefully review the TRUMATCH Personalized Solutions Plan prior to proceeding with the surgical procedure. The Plan is available through the web-based, password-protected TRUMATCH Personalized Solutions portal [www.depuysynthes.com/trumatch](http://www.depuysynthes.com/trumatch).


The Personalized Solutions Plan contains in-depth information utilized in its design including, as necessary, requests that are listed in the Notes/Comments section.

DePuy Synthes *People. Inspired.*

TruMatch™  
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Dear Dr. Smith,  
Please review the following patient proposal. Using the TRUMATCH™ Personalized Solutions Surgeon Portal, click the "Make Decision" button on your case listing to select the appropriate status. Please contact TRUMATCH™ Personalized Solutions support if you have any questions or need further information.  
Phone: 1-800-688-0746 E-mail: [trumatchsupport@its.jnj.com](mailto:trumatchsupport@its.jnj.com)

**Use with Intuition™ Instruments:**

  
Intuition Knee System

<b>Patient Information:</b>		<b>Case Information:</b>	
Patient Name:	Example Patient	Femoral Instrument Type:	Intuition
Gender:	F	Tibial Instrument Type:	ATTUNE Knee
DOB:	1957-11-07	Implant System:	Intuition
Affected Side:	R	Instrument System:	Intuition
Profile:	Varus	Femoral Component:	Sz 5 CR R
Reference Case #:	18125	Tibial Component:	Sz 5 CR
Date:	2019-07-15	Femoral Sizing Reference:	Anterior Down
		External Rotation Reference:	0° from Posterior Condyles
		Distal Femoral Resection:	10.0 mm from the Most Distal Condyle
		Proximal Tibial Resection:	10.0 mm from the High Condyle
		Posterior Tibial Slope:	5°
		Cartilage loss estimates:	(Fem): 77%(M) 44%(L) (Tib): 62%(M) 0%(L)
		Image Type:	CT

**Notes/Comments:**

**Proposal Version: 1**

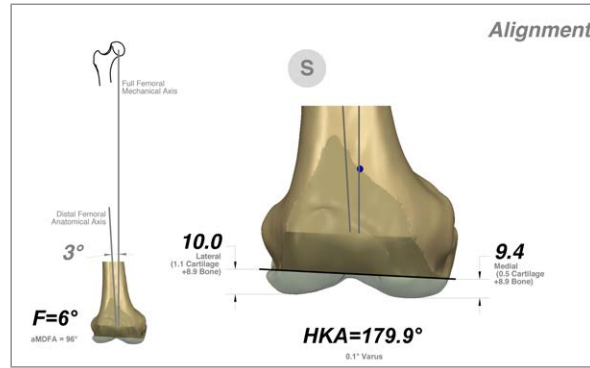
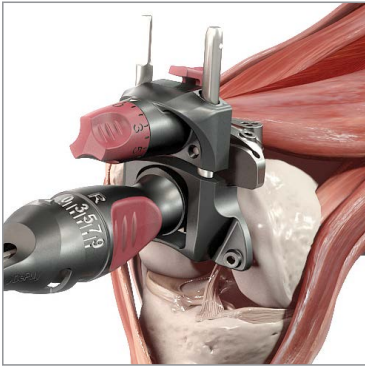
UPON YOUR APPROVAL, DEPUY SYNTHES COMPANIES WILL MANUFACTURE THE TRUMATCH™ PERSONALIZED SOLUTIONS INSTRUMENTATION OR ACCESSORIES BASED UPON THE INFORMATION SUPPLIED BY YOU. DEPUY SYNTHES COMPANIES HAS NOT VALIDATED OR VERIFIED AND WILL NOT VERIFY OR VALIDATE THE CORRECTNESS OR APPLICABILITY OF THE INFORMATION SUPPLIED BY YOU AND DEPUY SYNTHES COMPANIES THEREFORE MAKES NO, AND EXPRESSLY DISCLAIMS ANY, EXPRESS OR IMPLIED WARRANTY OF ANY KIND RELATED TO ANY TRUMATCH PERSONALIZED SOLUTIONS, INSTRUMENTATION, TEMPLATES OR ACCESSORIES, INCLUDING WITHOUT LIMITATION ANY WARRANTY THAT SUCH INSTRUMENTATION, TEMPLATES OR ACCESSORIES ARE FIT AND SUITABLE FOR THE PURPOSES INTENDED.

**CONFIDENTIAL**

# Plan Only Surgical Steps

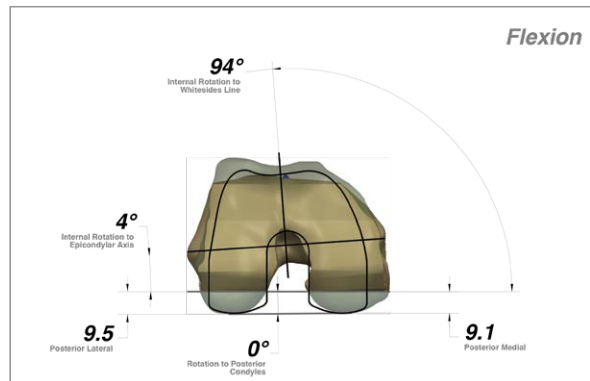
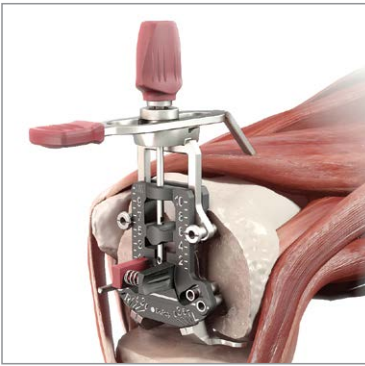
## Femoral Preparation

### Step 1:



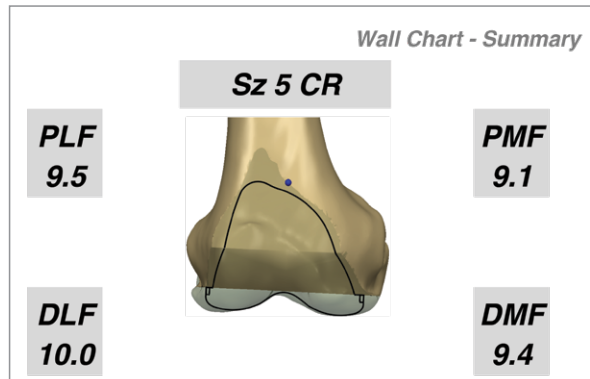
Dial in the femoral valgus angle and distal femoral resection level depicted on the plan to perform the femoral distal resection.

### Step 2:



Adjust the degree of external rotation to what is depicted on the plan.

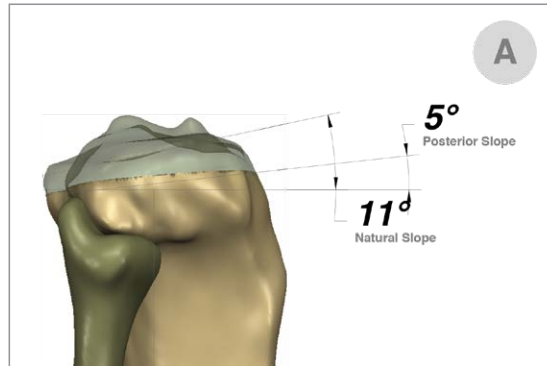
### Step 3:



Use the wall chart summary for femoral sizing and to measure bone chips after resection.

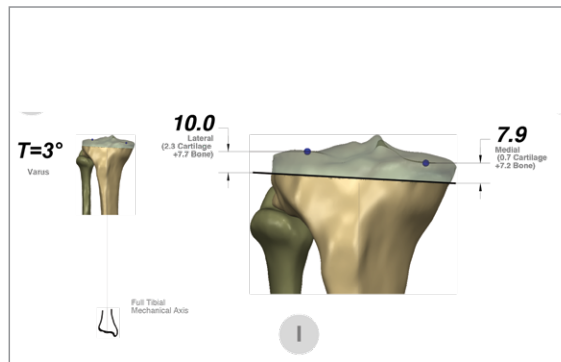
## Tibial Preparation

### Step 4:



Adjust the tibial posterior slope angle to what is depicted on the plan.

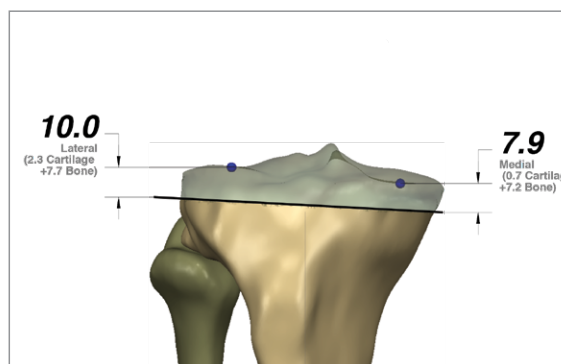
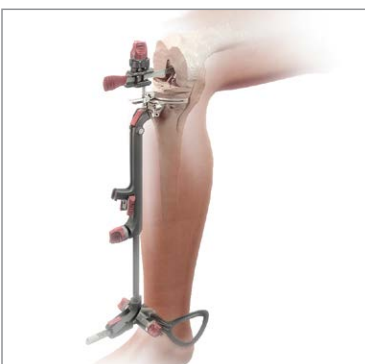
### Step 5:



Adjust the varus angle by rotating the varus/valgus adjustment knob to match what is depicted on the plan.

*See Tibia Alignment and Resection.*

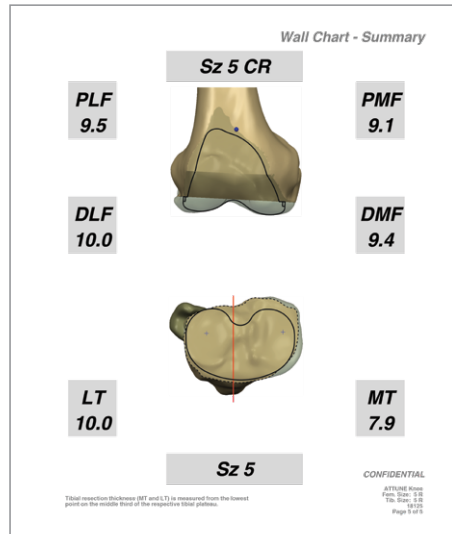
### Step 6:



Set the height on the stylus to what is depicted on the plan.

## Tibial Reduction

### Step 7:



Use the wall chart summary to measure bone chips after resection, and for femoral and tibial sizing.

## Tibial Alignment and Resection

The following table gives further guidance on how adjustments to the varus/valgus alignment of the tibial jig impacts the planned tibial joint line angle (T) at the tibia across a range of tibial jig heights.

**CAUTION**  
Angles represent approximate values.

Right Knee		Left Knee		Tibial Jig Height	Resulting Adjusted Angle at Tibia (degrees):		
Lateral	Medial	Medial	Lateral		Lowest	Midpoint	Highest
					Position 1 Neutral Alignment with Tibial Axis	0	0
				Position 2 Lateral indicator aligned to outer lateral mark	0.7	0.5	0.4
				Position 3 Central indicator aligned to central mark	1.4	1.1	0.9
				Position 4 Medial indicator aligned to outer medial mark	2.1	1.6	1.3
				Position 5 Medial indicator aligned to inner medial mark	2.8	2.1	1.7
				Position 6 Maximum adjustment	3.7	2.9	2.3

## Patient Proposal

- Review in detail prior to the surgery.
- Review the Notes/Comments section for information from the TRUMATCH Personalized Solutions Design Team.
- Print in color! Some Notes/Comments will be shown in red.
- For intraoperative reference, display at an easy-to-read area in the OR, such as the light box or back wall.
- Review the Wall Chart – Summary (last page), which contains bone resection information and Tibial Guide orientation view (Figure 1).
- The bone resection information can be used to verify if bone cuts are within 2 mm of the planned values shown. In particular, the relationship between the medial and lateral cuts should be noted. If both cut measurements are proportionally similar (ie, deviate by a similar amount), then the varus/valgus alignment is preserved. Otherwise, it is an indication that the bone resection(s) should be revisited.
- For clarity, the tibial resection thickness, shown for each condyle, is measured from the lowest point on the middle third of the respective condyle.

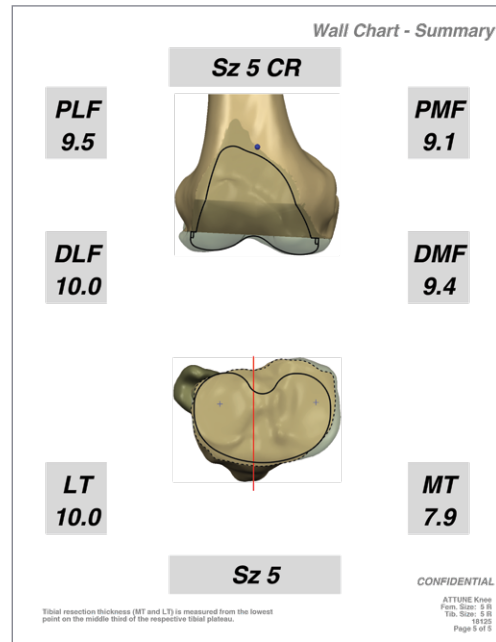


Figure 1

**Indications For Use:**

The TRUMATCH Personalized Solutions Plan is indicated for assisting healthcare professionals in preoperative planning of knee replacement surgery.

The anatomical landmarks necessary for the creation of the TRUMATCH Personalized Solutions Plan must be present and identifiable on the CT.

The TRUMATCH Personalized Solutions Plan is intended for use with SIGMA® Total Knee Implants and ATTUNE® Total Knee Implants and their cleared indications for use.

**Contraindication:**

The following conditions are not compatible with TRUMATCH Personalized Solutions Plan:

- Previous knee replacement of the same knee.

**Cautions:**

It can be difficult to attain usable CT images of patients with the listed conditions:

- Any metal device that will cause scatter in the CT through the knee.
- Angular deformities greater than 15 degrees of fixed varus, valgus, flexion, or tibial slope exceeding 15 degrees.
- Moderate to severe bony deformities, Charcot knee, or patients with severe patella tendon calcification that may prevent patella eversion.

The TRUMATCH Personalized Solutions Plan is a patient specific instrument to be used only with the knee for which it was designed. If used on any knee other than the intended, the proposed bone resections and implants sizing may not be accurate.

For instruments produced by another manufacturer, reference the manufacturer's instructions for use.

**Limited Warranty and Disclaimer:** Products from DePuy Synthes Products, Inc. are sold with a limited warranty to the original purchaser against defects in workmanship and materials. Any other express or implied warranties, including warranties of merchantability or fitness, are hereby disclaimed.

**WARNING:** In the USA, this product has labeling limitations. See package insert for complete information.

**CAUTION:** USA Law restricts these devices to sale by or on the order of a physician.

Not all products are currently available in all markets.

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