

DRILLING PROTOCOL FOR ROOTT M IMPLANTS

CAVITY PREPARATION

Every person has a unique bone structure and the clinician has to adapt the drilling protocol to the individual bone quality and anatomical situation. Our drilling protocol is an optimal scheme for different types of bones - D1, D2-D3, D4.

**IMPORTANT!
WHEN PREPARING THE CAVITY FOR
THE IMPLANT, ALWAYS ENSURE COOLING.
USE ONLY SHARP INSTRUMENTS.**

DRILLING SPEED

Recommended drilling speed:

- initial drilling – 1200–1500 rpm;
- pilot drilling – 900–1200 rpm;
- form drilling – 200–800 rpm.

Implantologist is responsible for drilling speed choice, taking into consideration his experience, preferences and special necessities of the patient.

Important notice: this protocol was prepared with a max speed of 700 rpm, with insertion torque for implants is from 35 to 50 Ncm.

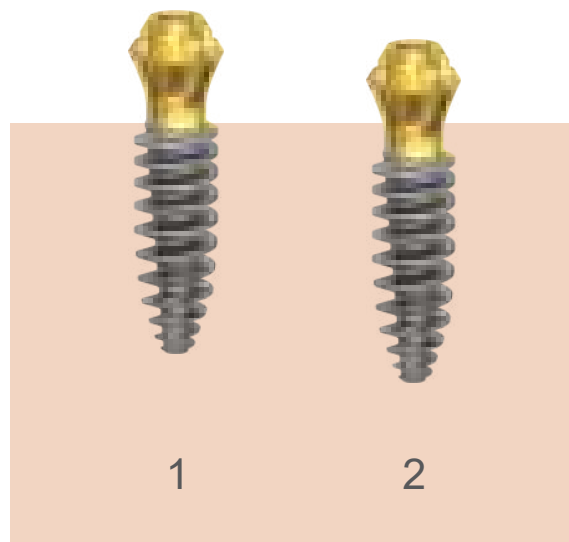
IMPLANT POSITION

1. The length of the implant thread without the neck. Placing the implant to the bone till the start of the implant neck and till the end-point of the implant thread.

2. The length of the implant thread + implant's neck. Placing the implant to the bone till the end-point of the implant neck leaving only abutment over the bone.

Implant can be placed deeper, depending on the situation from 0.8 mm (with neck) to 3 mm (till prosthetic position on abutment).

For the 2nd option, drilling depth should go deeper (from 0.8 mm to 3 mm) than chosen implant thread length.



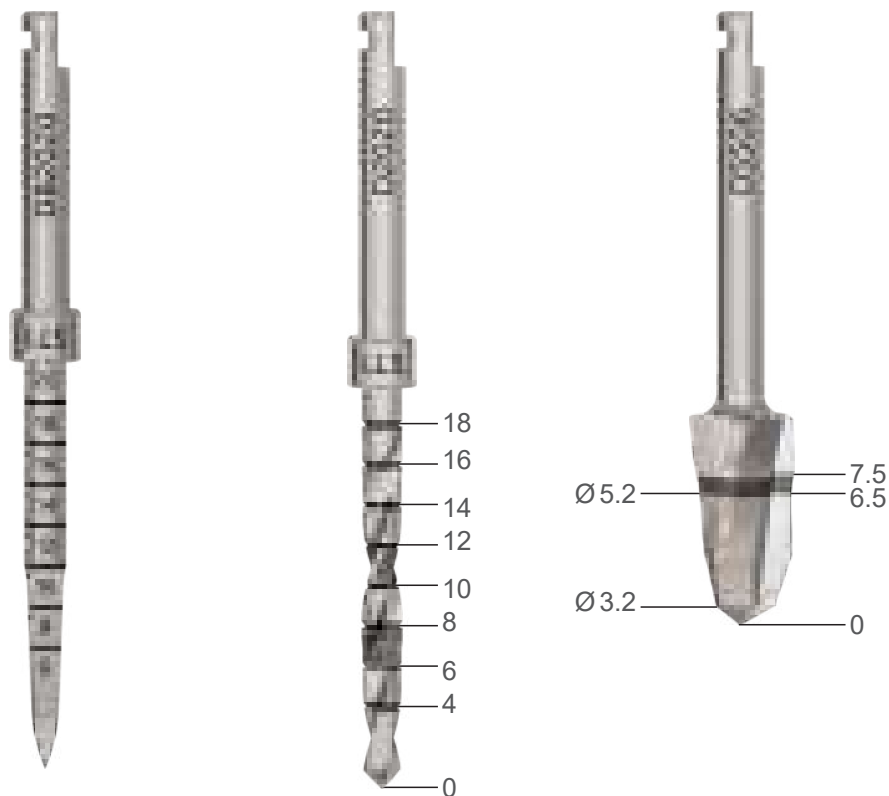
ROOTT M implants installation using tapered drills

Drills

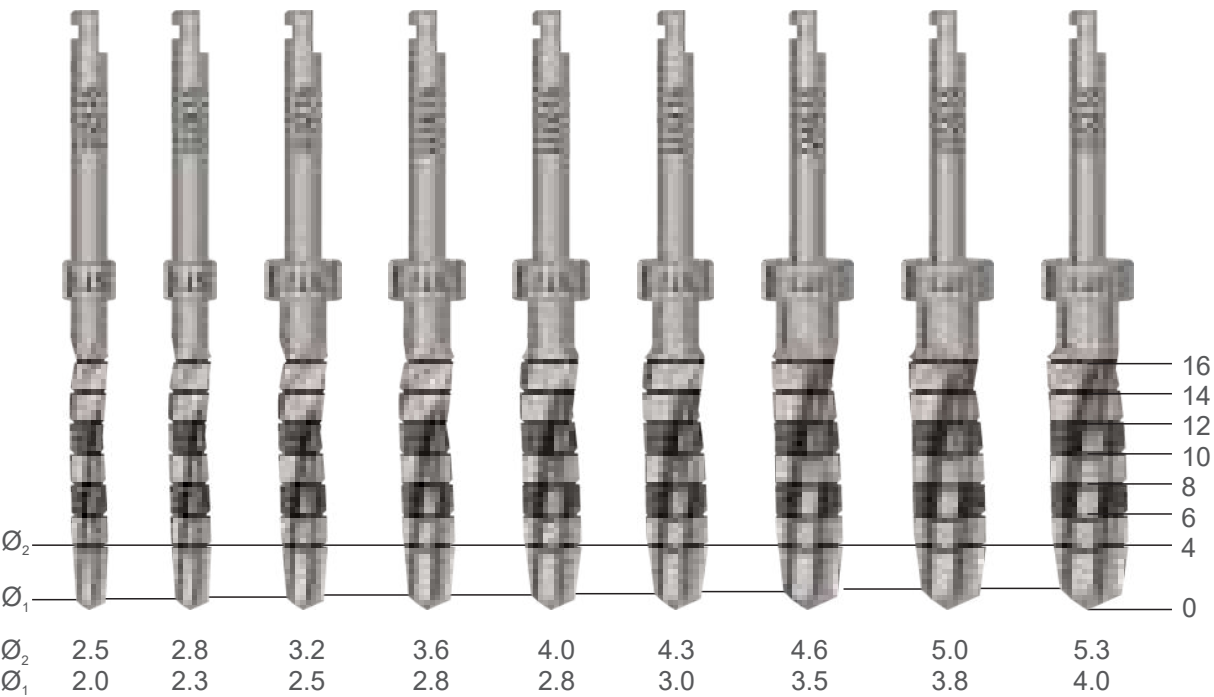
Lance drill DB2020 can be used for initial drilling by setting the drilling axis before using pilot drill D2020.

Drill with tapered drills to the appropriate depth, required for a specific case. If after using the previous drill the torque is still more than 50 Ncm while inserting the implant, the cavity has to be widened. Just widen the osteotomy with drill D5506.

All drills have laser marking, which indicates drill's depth in the bone. Markings are lasered every 2 millimetres, pilot drill from 4 to 18 mm, tapered drills from 4 to 16 mm.



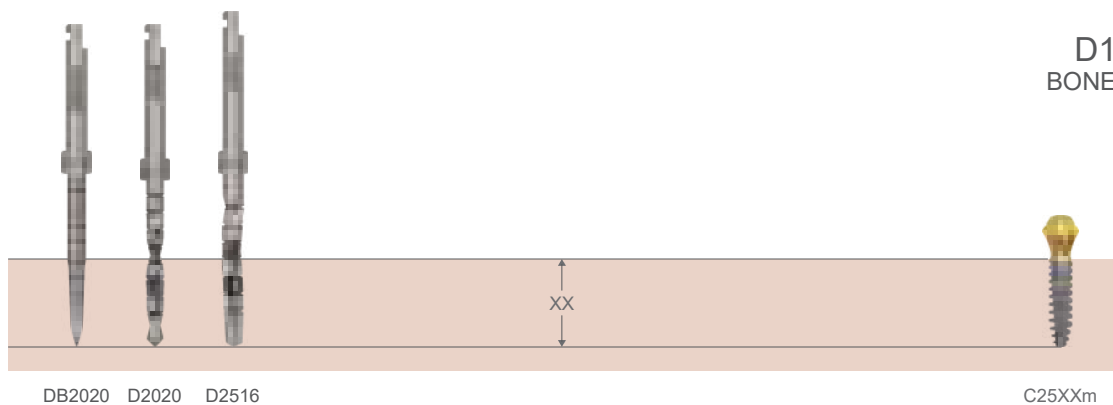
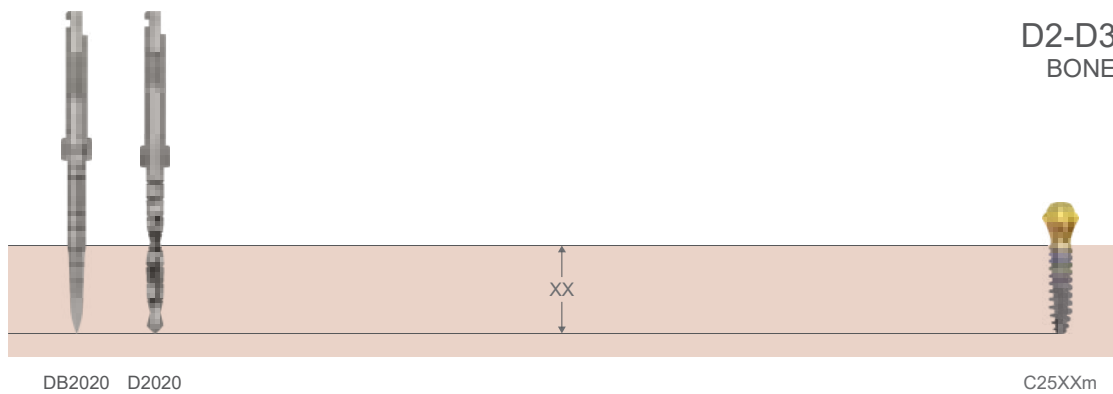
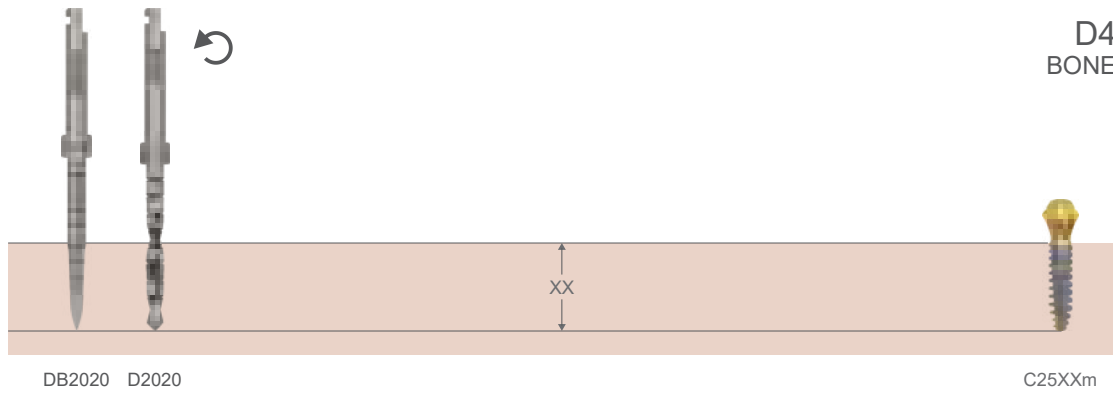
Tapered drills have V-shaped tips, for better correlation with the implant, 3 cutting edges offer good stability. The tapered shape reduces frictional heating. Variable helix for enhanced drilling control and twisted flute for bone extraction. An angled back cutting edge allows compressing of bone when drilling in counter-clockwise (reverse).



NOTE
For the best result, it is recommended to use a smaller diameter drill and try inserting the implant.

Drilling protocol

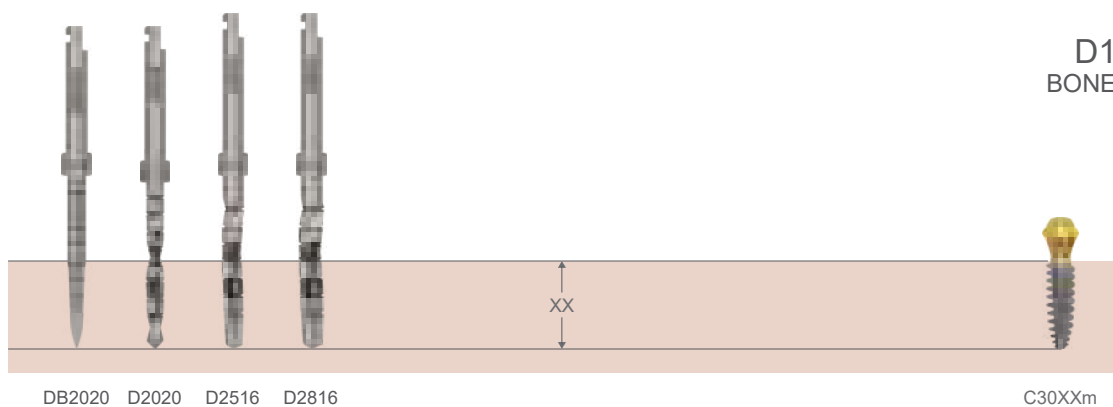
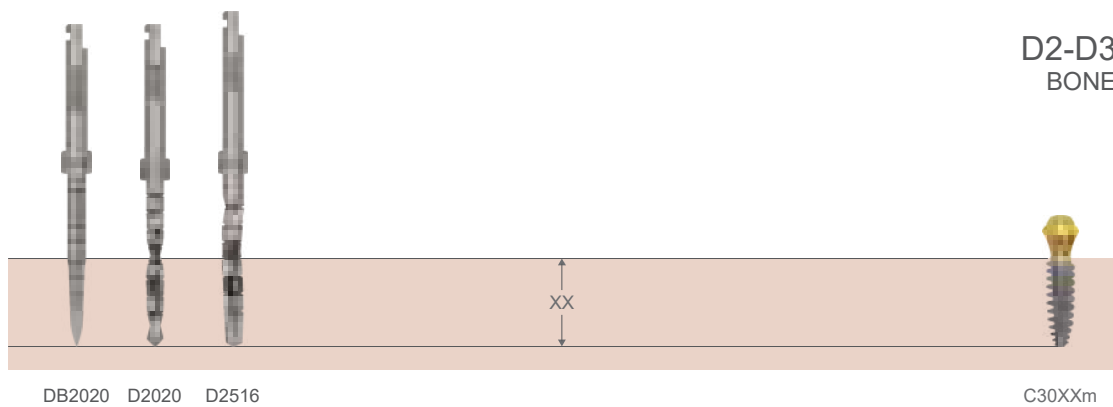
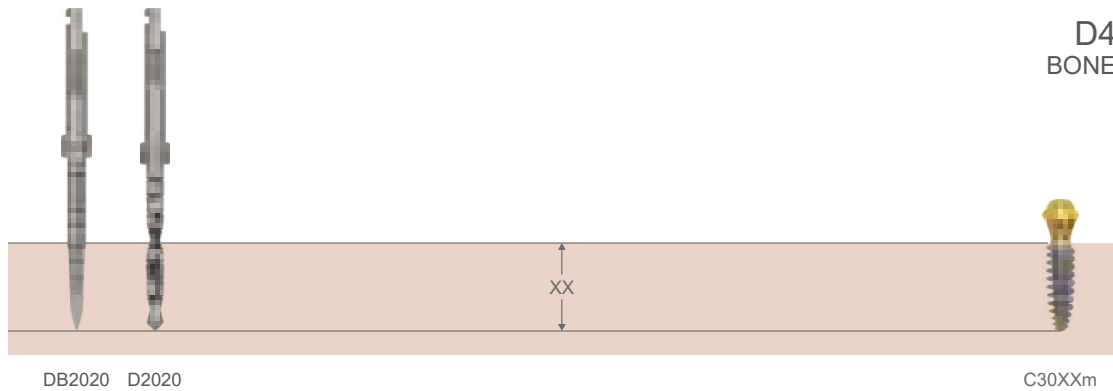
IMPLANT C25XXm



Here XX is the length of the implant, mm

Drilling protocol

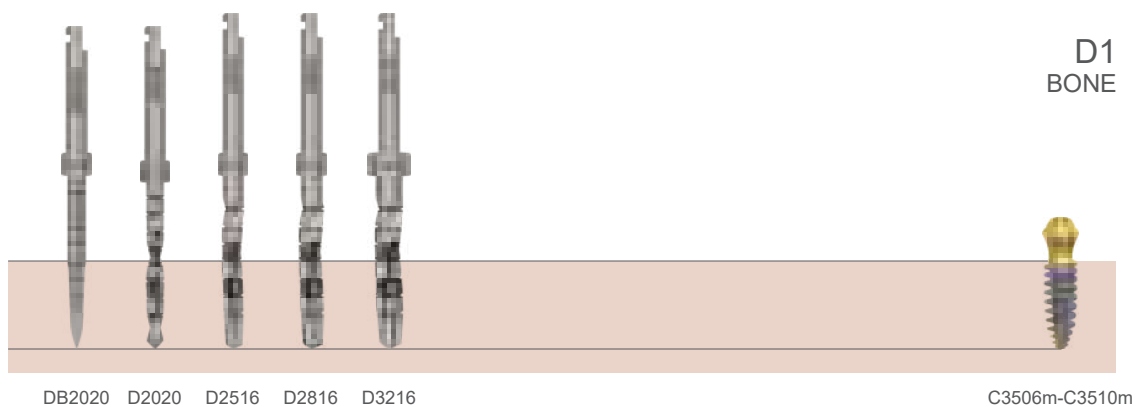
IMPLANT C30XXm



Here XX is the length of the implant, mm

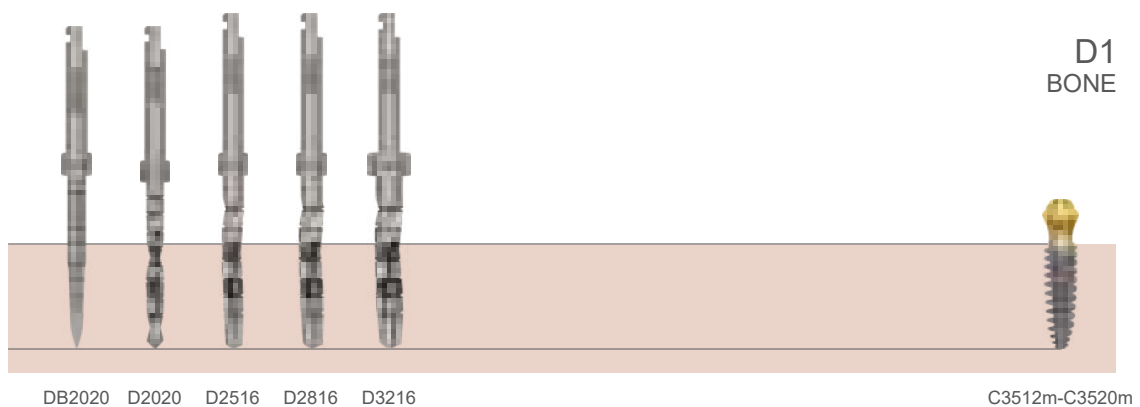
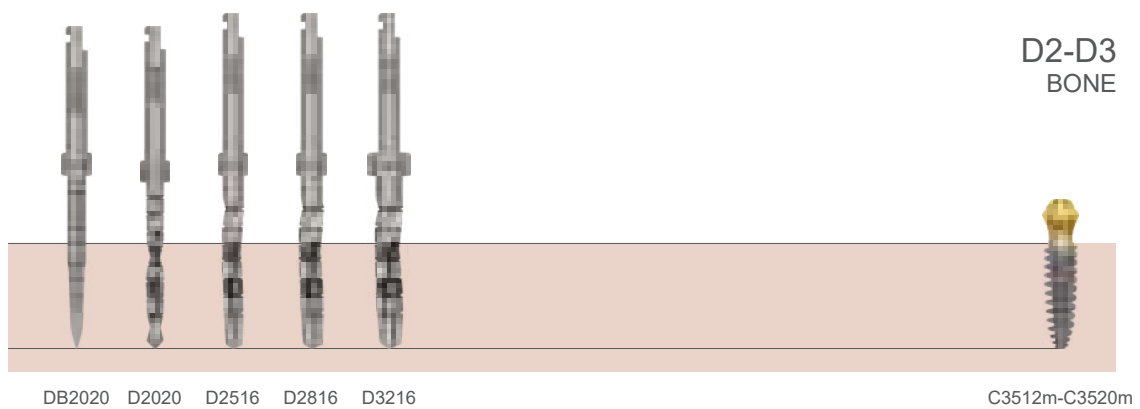
Drilling protocol

IMPLANTS C3506m-C3510m



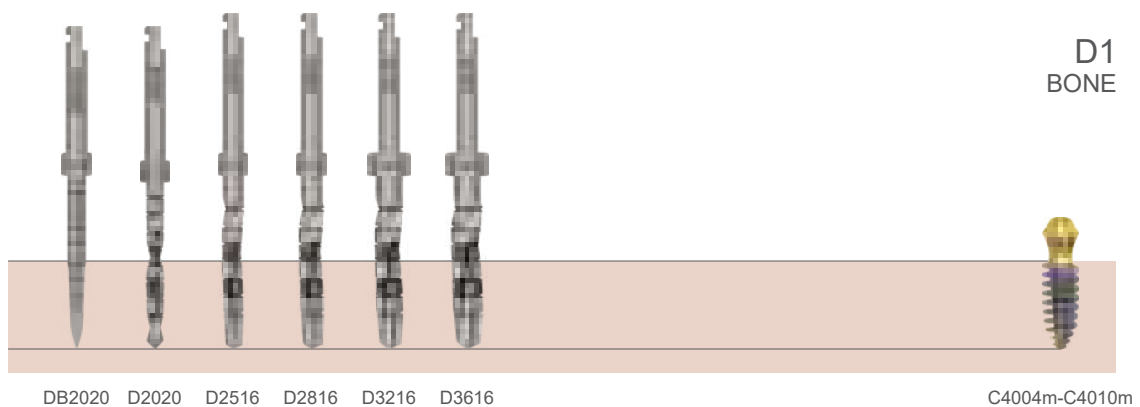
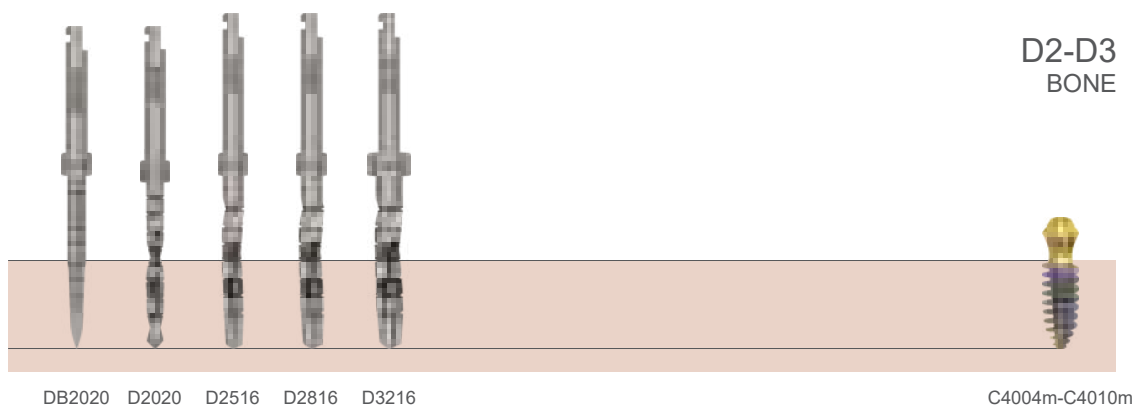
Drilling protocol

IMPLANTS C3512m-C3520m



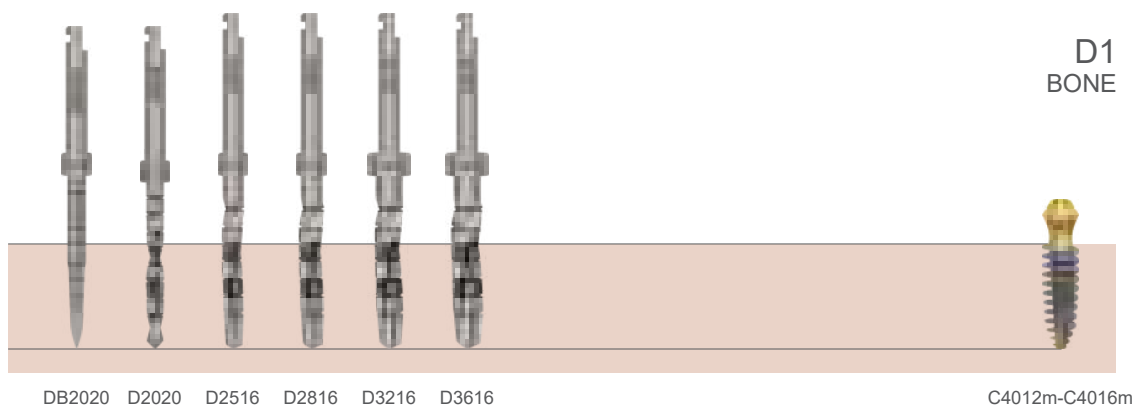
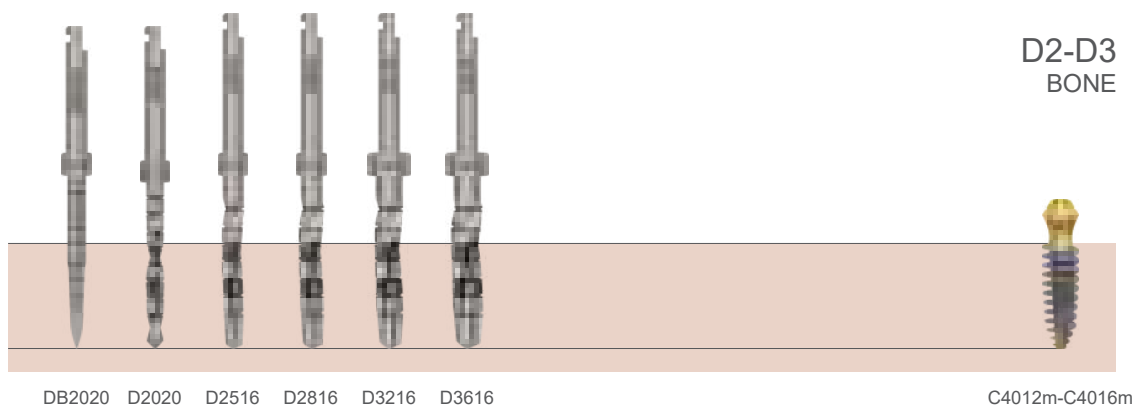
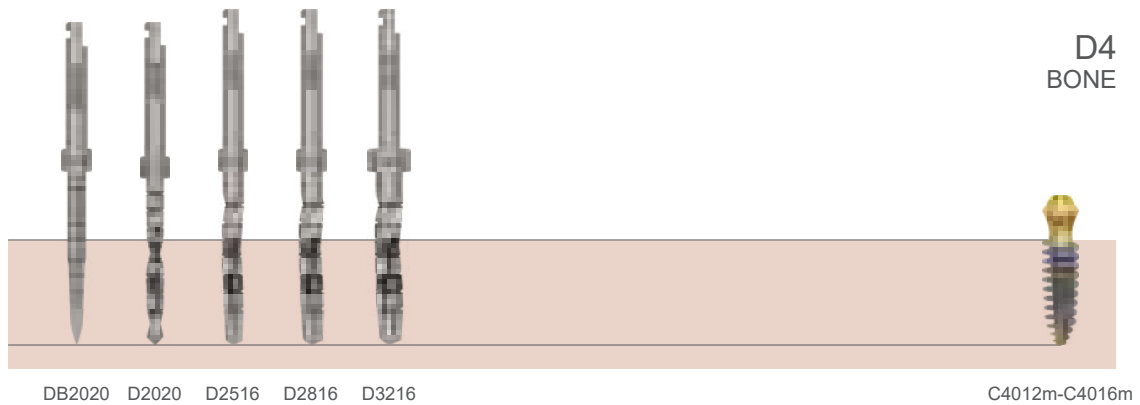
Drilling protocol

IMPLANT C4004m-C4010m



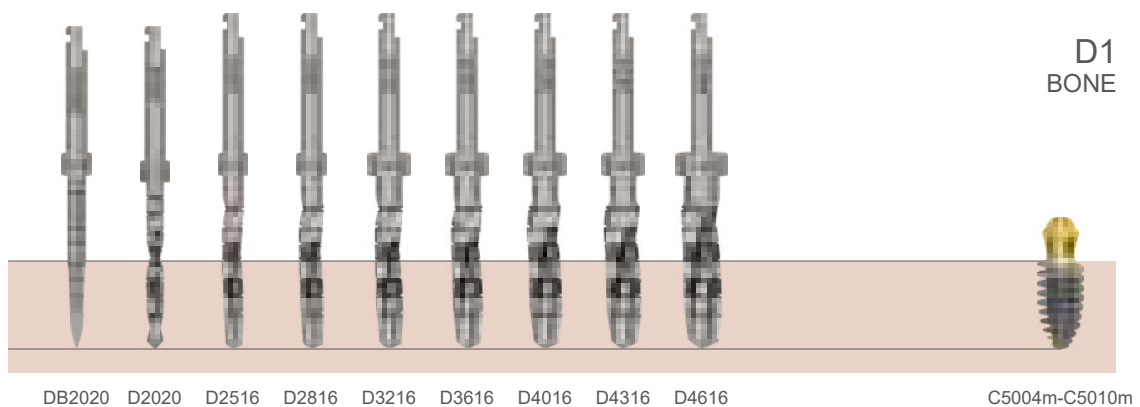
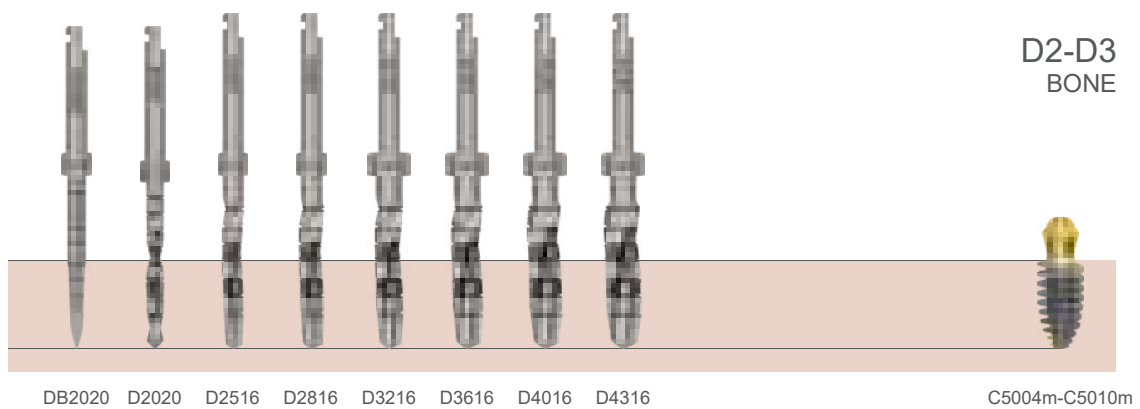
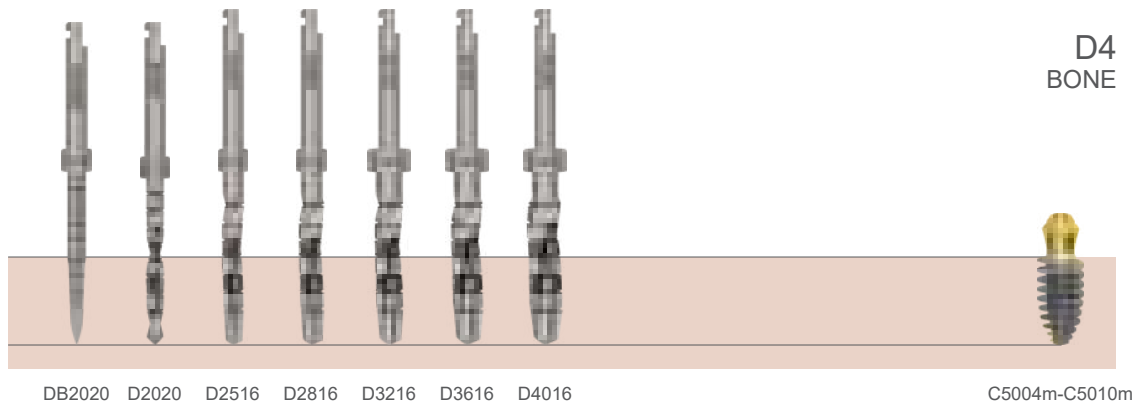
Drilling protocol

IMPLANTS C4012m-C4016m



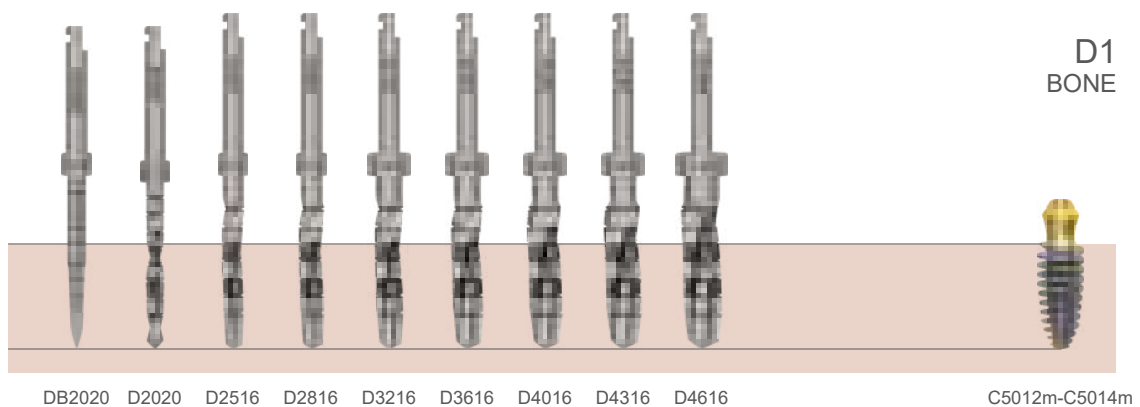
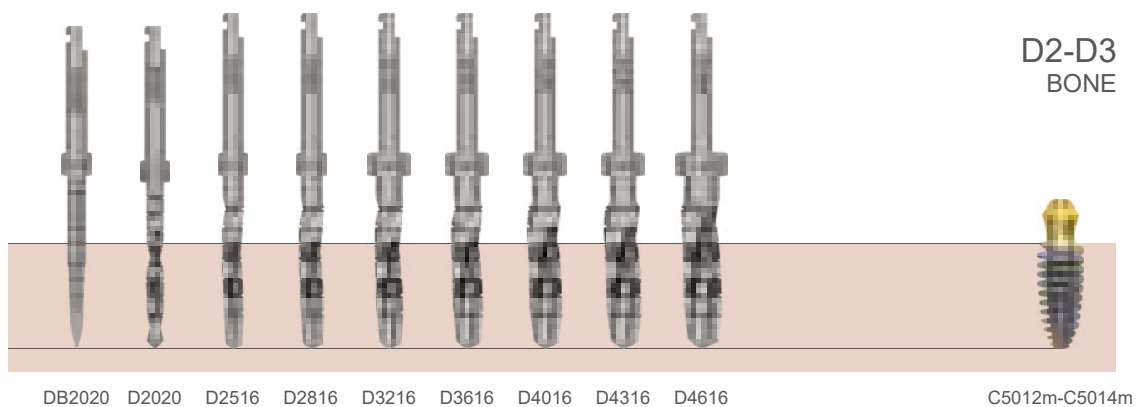
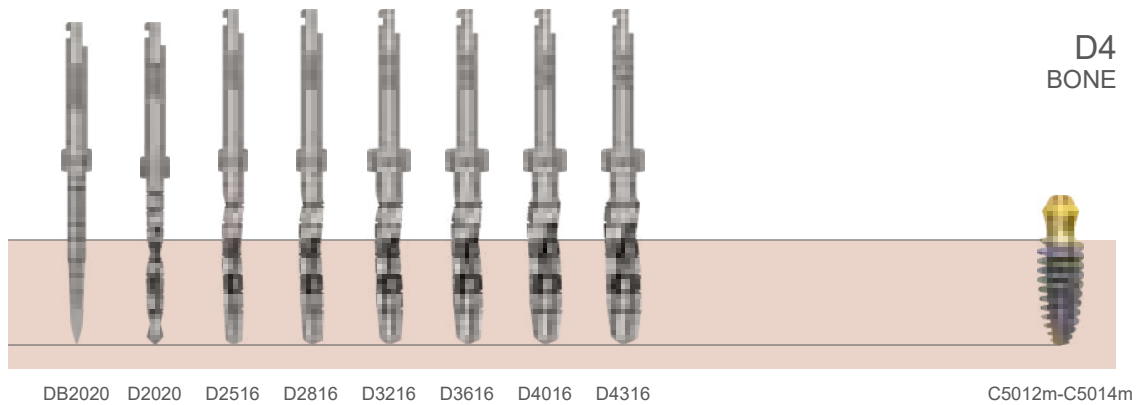
Drilling protocol

IMPLANT C5004m-C5010m



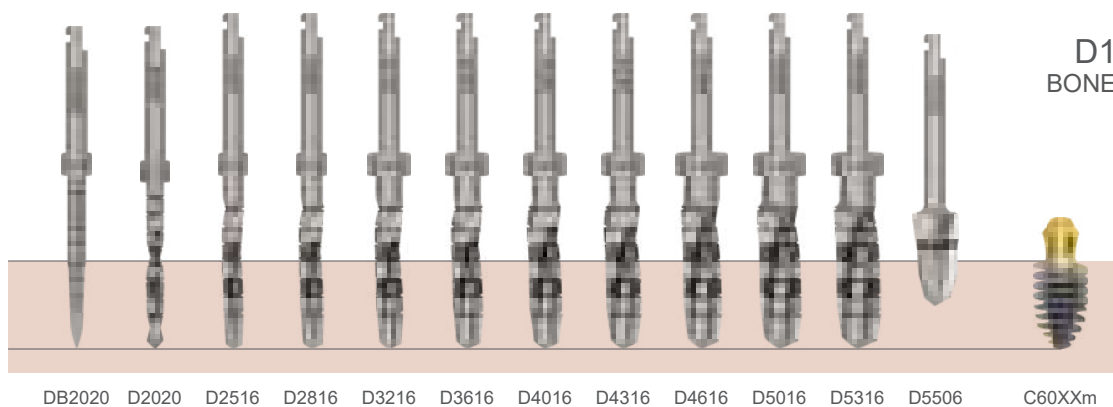
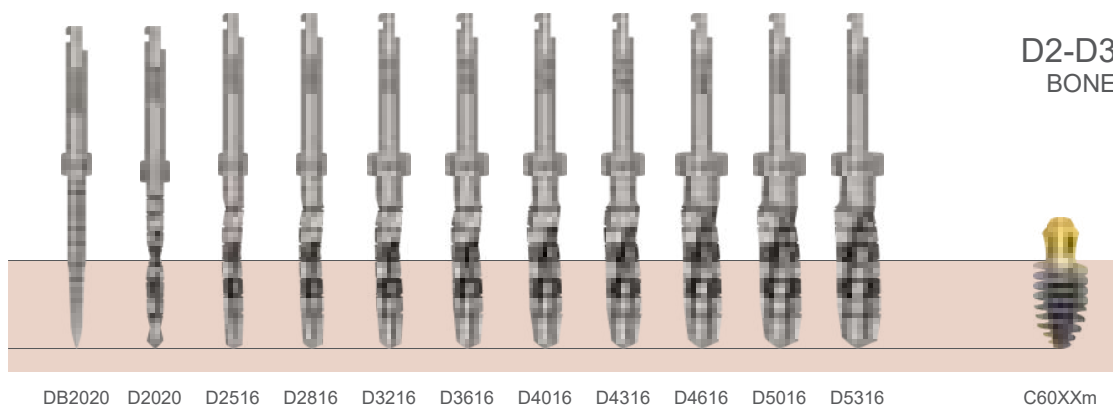
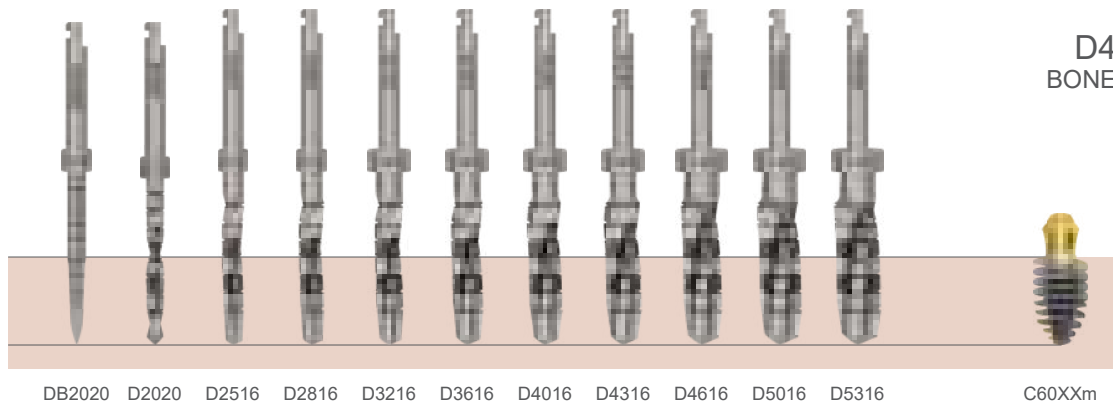
Drilling protocol

IMPLANTS C5012m-C5014m



Drilling protocol

IMPLANT C60XXm



ROOTT M implants installation using tapered drills

Implant	D4 BONE	D2-D3 BONE	D1 BONE
Ø 2.5 mm	DB2020 D2020 	DB2020 D2020	DB2020 D2020 D2516
Ø 3.0 mm	DB2020 D2020	DB2020 D2020 D2516	DB2020 D2020 D2516 D2816
Ø 3.5 mm L 6-10 mm	DB2020 D2020 D2516	DB2020 D2020 D2516 D2816	DB2020 D2020 D2516 D2816 D3216
Ø 3.5 mm L 12-20 mm	DB2020 D2020 D2516 D2816	DB2020 D2020 D2516 D2816 D3216	DB2020 D2020 D2516 D2816 D3216
Ø 4 mm L 4-10 mm	DB2020 D2020 D2516 D2816	DB2020 D2020 D2516 D2816 D3216	DB2020 D2020 D2516 D2816 D3216 D3616
Ø 4 mm L 12-16 mm	DB2020 D2020 D2516 D2816 D3216	DB2020 D2020 D2516 D2816 D3216 D3616	DB2020 D2020 D2516 D2816 D3216 D3616

ROOTT M implants installation using tapered drills

Implant	D4 BONE	D2-D3 BONE	D1 BONE
Ø 5 mm L 4-10 mm	DB2020	DB2020	DB2020
	D2020	D2020	D2020
	D2516	D2516	D2516
	D2816	D2816	D2816
	D3216	D3216	D3216
	D3616	D3616	D3616
	D4016	D4016	D4016
		D4316	D4316
			D4616
Ø 5 mm L 12-14 mm	DB2020	DB2020	DB2020
	D2020	D2020	D2020
	D2516	D2516	D2516
	D2816	D2816	D2816
	D3216	D3216	D3216
	D3616	D3616	D3616
	D4016	D4016	D4016
	D4316	D4316	D4316
		D4616	D4616
Ø 6 mm	DB2020	DB2020	DB2020
	D2020	D2020	D2020
	D2516	D2516	D2516
	D2816	D2816	D2816
	D3216	D3216	D3216
	D3616	D3616	D3616
	D4016	D4016	D4016
	D4316	D4316	D4316
	D4616	D4616	D4616
	D5016	D5016	D5016
	D5316	D5316	D5316
			D5506 - to widen osteotomy