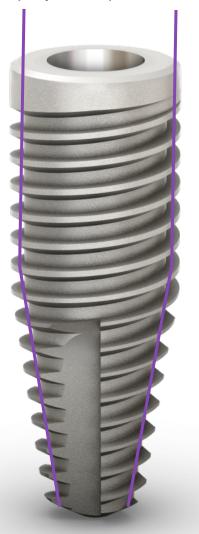
ALVIM (tapered)

Same Drilling Protocol

DRIVE (Aggressive)



Diameter Ø 3.5, 4.3, 5.0







Alvim CM

Ø 3.5, 4.3, 5.0



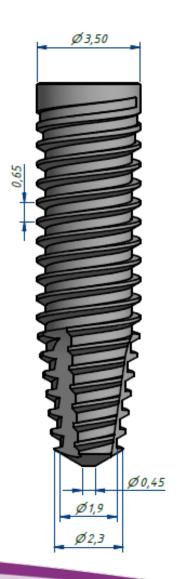


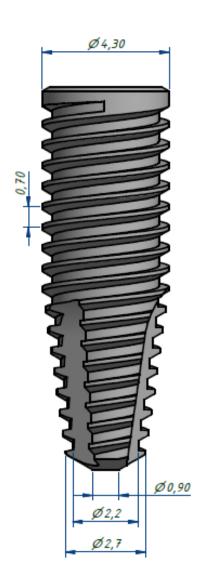


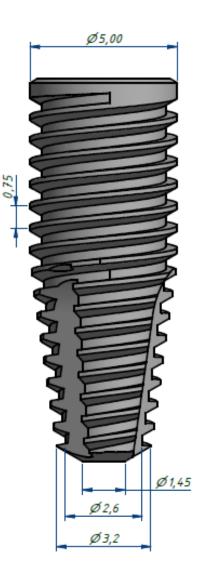
Ø3.5mm

Ø4.3mm

Ø5.0mm



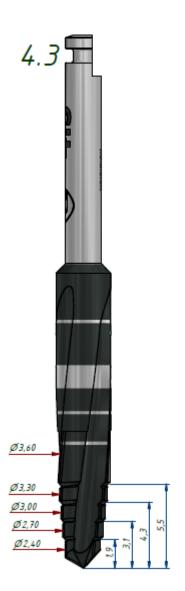


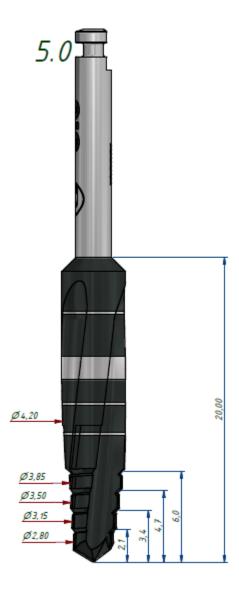
















Alvim/Drive CM - 3.5, 4.3, 5.0

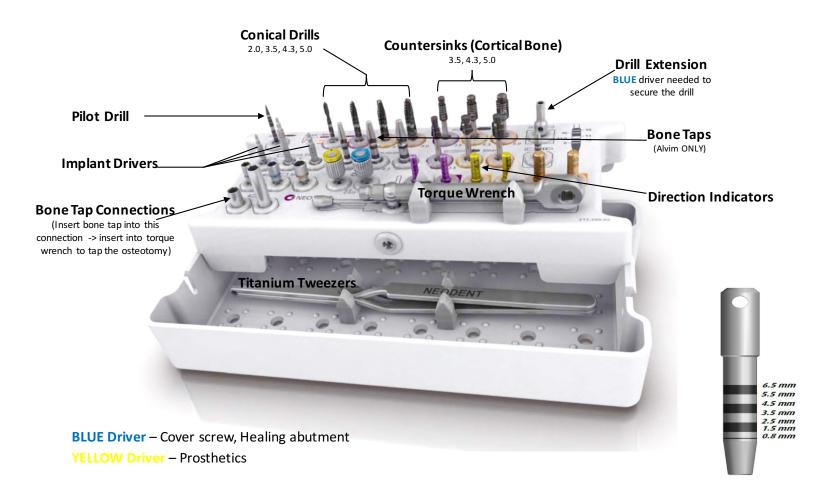


The internal connection has the same dimension for the 3 different diameters: 3.5, 4.3 or 5.0, this means that the **Implant Driver** used to place these implants is the same.





Alvim/Drive Surgical Kit



The bone taps should be used in dense bone only.





Drill Extension

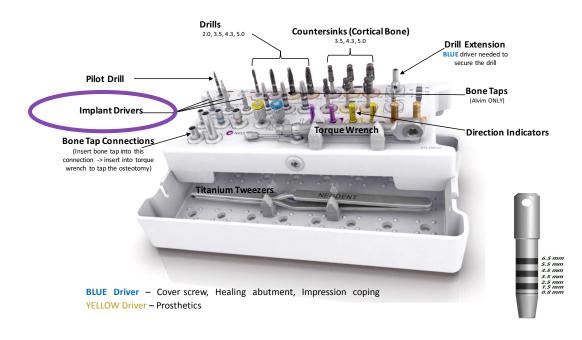






Implant Driver for Alvim/Drive CM

Alvim/Drive Surgical Kit



The driver to carrier and start the implant placement with the motor is the Contra angle driver, once the motor has stop you should remove this driver and place the driver for torque wrench and finish the placement

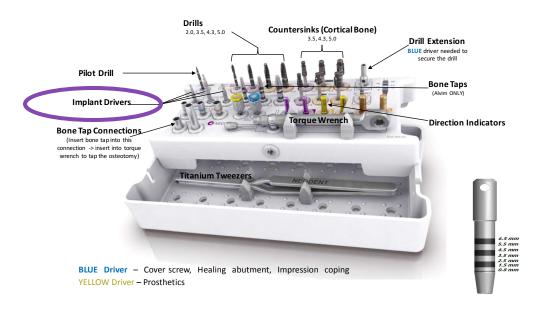




Implant Alvimr for Alvim CM



Alvim/Drive Surgical Kit



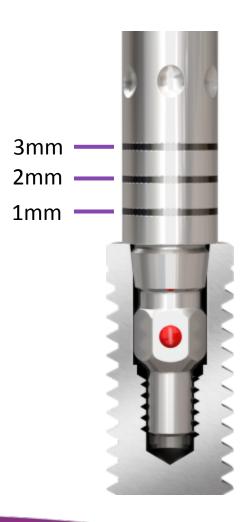
The short driver is suggested to place the implant in the posterior area and the long is suggested to place the implant between adjacent teeth







Implant Driver for Alvim CM



All drivers used to place the implant have 3 lines to give you an orientation regarding the bone level. the first line is 1mm, the second is 2mm and the third is 3mm

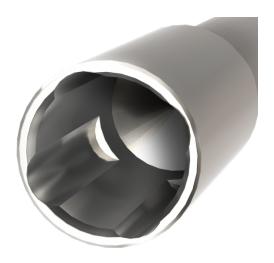




Extra Kit Hand Implant Placement Driver











Torque Ratchet



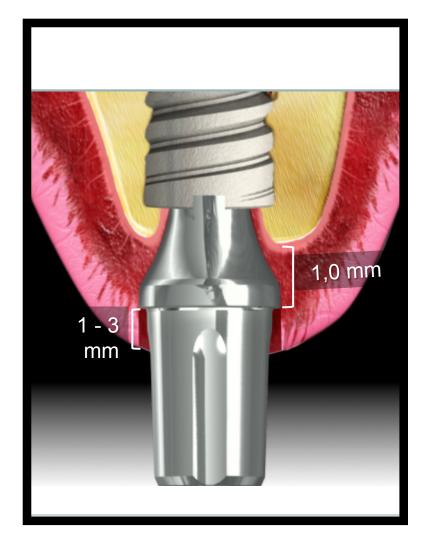


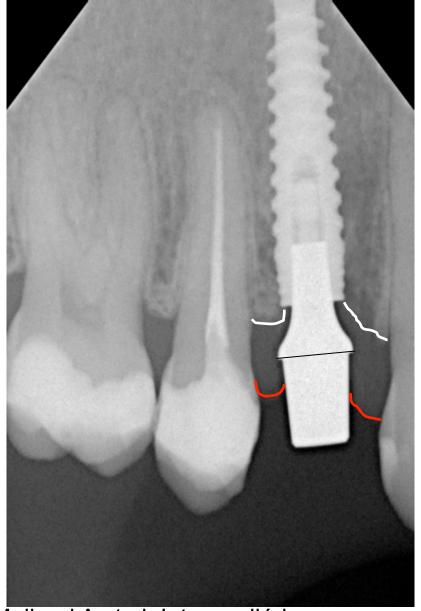




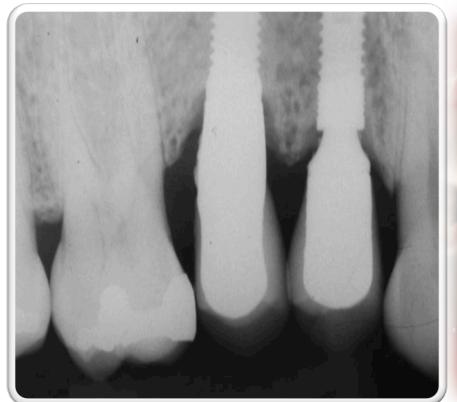


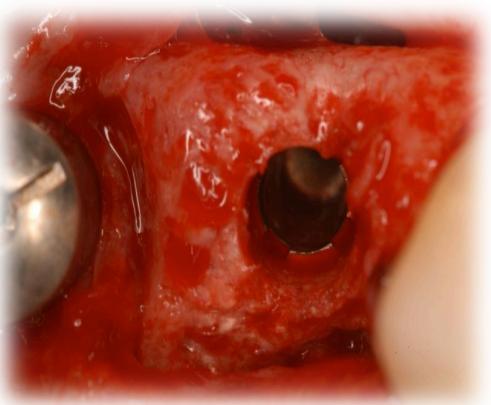






Sartori IAM, Bernardes SR, Molinari A et al. Intermediários para Implantes CM: seleção e utilização. JILAPEO 2008 (3): 96-104.





By dr. Carlos Araujo

CLINICAL ORAL IMPLANTS RESEARCH

Raquel R. M. Barros Arthur B. Novaes Ir. Valdir A. Muglia Giovanna Iezzi Adriano Piattelli

Influence of interimplant distances and placement depth on peri-implant bone remodeling of adjacent and immediately loaded Morse cone connection implants: a histomorphometric study in dogs

Author' affiliations:

Raquel R. M. Baros, Arthur B. Nimaes Jr., Department of Bucco-Maxillo-Facial Surgery and Traumatology and Periodontology, School of Dentistry of Ribeirio Preto, University of Sio Paulo, São Paulo, SP, Bogal Valde A. Maglia, Department of Restorative Dentistry, School of Dentistry of Ribeitio Posto University of São Paulo, São Paulo, SP, Bozzil Giorgana Jezzi, Adriano Pict telli, Department of Oral Pathology and Medicine, Dental School, University of Chief-Percara, Chief, Italy

Correspondence to: Arthur Bekim Normes In. Baculdade de Odontologie de Ribenio Posto Universidade de São Paulo Awnida do Cali - s/n, CIP 14 040-904 Ribeirio Peto, SP Tel.: + 5516 3602 3980

Fax: +5516 3602 4788

e-mail: novemir@cop.usphr

Acopted at September 2009

To obside this action Barros RRM, Novau AB Jt., Muglis VA, Jesti G. Namel A billions of intrimplant distance and placement depth on peri-implant bore remobiling of advance and immediately loaded Morse concernmention. implants a his temorphometric study in dogs. Clin Grid Impl. Res. 10, 1009, 000-000. dok 10.1111/j.1600.050r.3009.01860.2

Key words: crestal bane remodeling, dental implants, histology immediate loading, microgap. Morse one connection, platform shifting

Abstract

Objectives: The aim of this study was to histomorphometrically evaluate the influence of interimplant distances (ID) and implant placement depth on bone remodeling around contiguous Morse cone connection implants with 'platform-shifting' in a dog model. Material and methods: Bilateral mandibular premolars of six dogs were extracted, and after 12 weeks, each dog received 8 implants, four placed 1.5 mm subcrestally (SCL) on one side of the mandible and four placed equicrestally (ECL) on the other side, alternating the ID of 2 and 3 mm. The experimental groups were SCL with IDs of 2 mm (2 SCL) and 3 mm (3 SCL) and ECL with IDs of 2 mm (2 ECL) and 3mm (3 ECL). Metallic crowns were immediately installed. After 8 weeks, the animals were euthanized and histomorphometric analyses were performed to compare bone remodeling in the groups.

Results: The SCL groups' indices of crestal bone resorption were significantly lower than those of ECL groups, in addition, the vertical bone resorption around the implants was also numerically inferior in the SCL groups, but without statistical significance. No differences were obtained between the different Ds. All the groups presented similar good levels of bone-to-implant contact and histological bone density.

Condusion: The subcrestal placement of contiguous Morse cone connection implants with 'platform shifting' was more efficient in preserving the interimplant crestal bone. The IDs of 2 and 3 mm did not affect the bone remodeling significantly under the present conditions.

The behavior of the hone that surrounds contiguous implants is determinant not only for long-term implant success (Chou et al. 2004) but also for achievement of desired natural looking restorations in the eatheric zone. The preservation of the crestal hone between adjacent implants increases the probability of papillae formation, which is extremely important for the esthetic ourcome (Degidi et al.

After implant insertion and loading, crestal bone usually undergoes resorption and remodeling. Among the factors that con-

tribute to this process are interimplant distances, the distance he tween the contact point and the alveolar crest, implant placement depth, the type of implant/abutment connection, the macrodesign of the cervical area of the implant and possible surface treatments (Oh et al. 2002).

The interimplant distance is related to the lateral hore loss around the implants that results in vertical crestal hone loss when dealing with contiguous implants. Tamow et al. (2000) evaluated this parameter on the X-rays of 36 patients treated with restored adjacent implants in a

CLINICAL ORAL IMPLANTS RESEARCH

Raquel R. M. Barros Arthur B. Novaes Ir. Valdir A. Muglia Giovanna Iezzi Adriano Piattelli

Influence of interimplant distances and placement depth on peri-implant bone remodeling of adjacent and immediately loaded Morse cone connection implants: a histomorphometric study in dogs

Clin. Oral Impl. Res. 10.1111/j.1600-0501.2009.01860.x

© 2010 John Wiley & Sons A/S

CLINICAL

Influence of Interimplant Distances and Placement Depth on Papilla Formation and Crestal Resorption: A Clinical and Radiographic Study in Dogs

Arthur B. Novaes Jr, DDS, MScD, DSc; Raquel R. M. Barros, DDS, MScD; Valdir A. Muglia, DDS, MScD, DSc; Germana J. Borges, DDS

Journal of Oral Implantology Vol. XXXV/No. One/2009

Histomorphometrics findings

Equicrestal /2mm



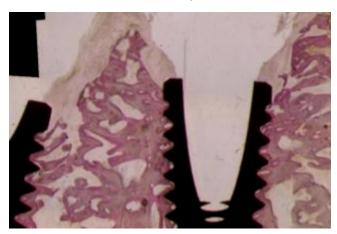
Equicrestal /3mm

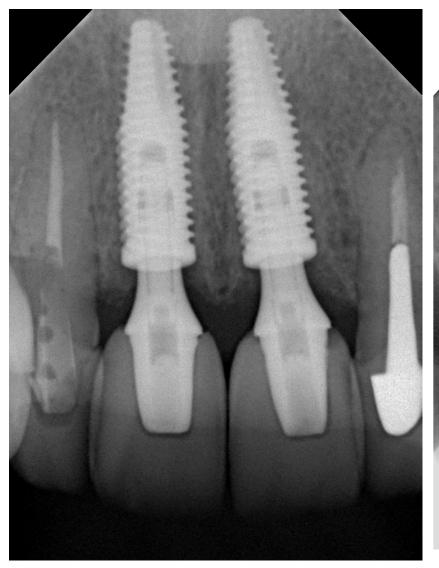


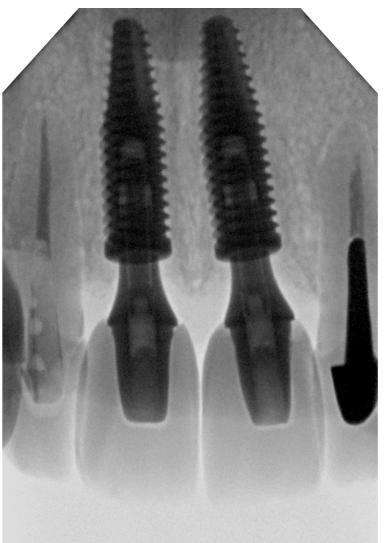
Subcrestal /2mm

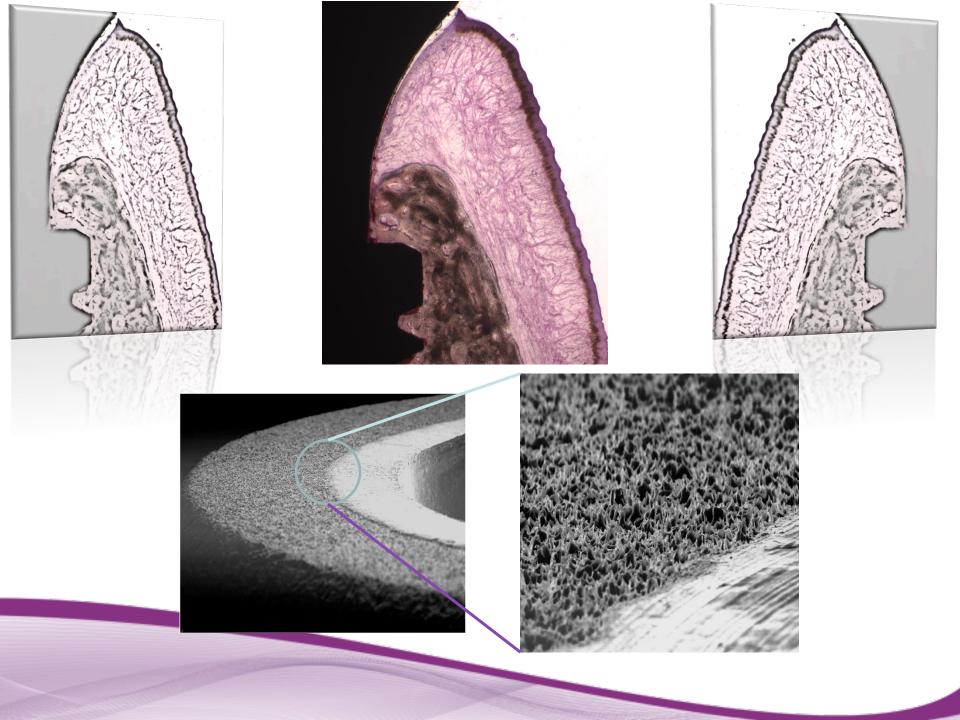


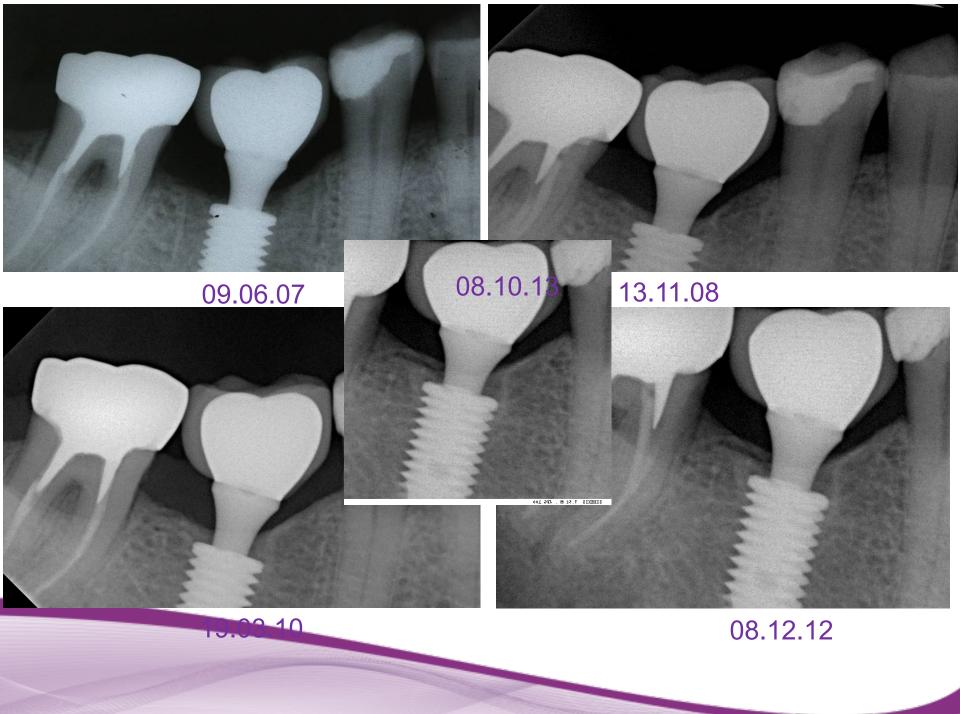
Subcrestal/3mm

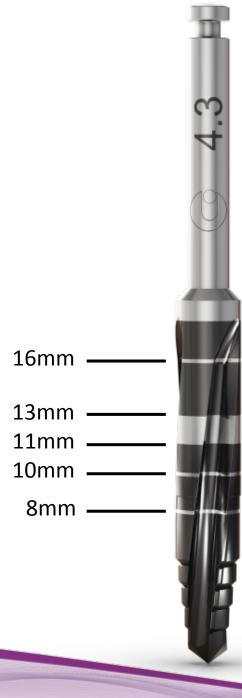






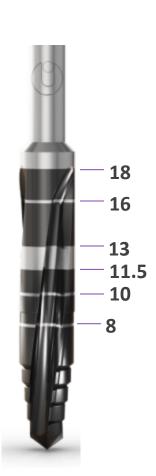














:: Drilling speed: 500 - 800 rpm

:: Placement speed: 30 rpm

:: Maximum insertion torque: 60N.cm

ALVIM (tapered)

DRIVE (Aggressive)



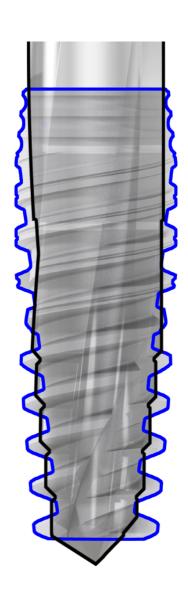
Diameter Ø 3.5, 4.3, 5.0











DRILL PROTOCOL

(Same Drilling Protocol for either implant)

ALVIM/DRIVE





AlvimCM Ø3.5mm







*Optional



8



AlvimCM Ø4.3mm



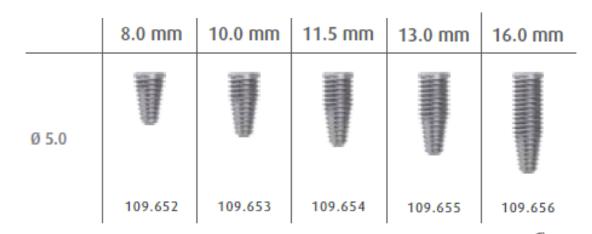




11.5



AlvimCM Ø5.0mm





*Optional

*Optional



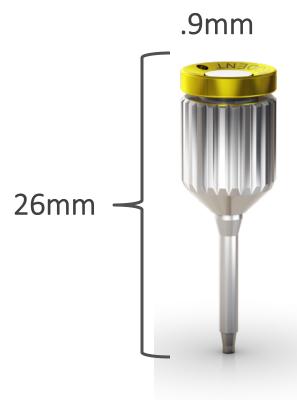


16

13 11.5 10

8

Hex Driver



Final abutments only!

15Ncm Max



Cover screws
Healing abutments
Impression copings













Torque Ratchet





Hand/Finger



CM Cover Screw



CM Cover screw

:: Use manual screwdriver 1.2mm (104.007) for placement;

:: Do not exceed 10N.cm torque.

0 mm

2 mm

117.013

117.017

















Cover screw CM 0mm – Implant bone level The driver (blue) to place the cover screw is the hex 1.2/0.048in





Height Measure



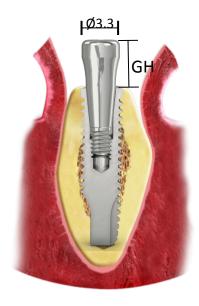




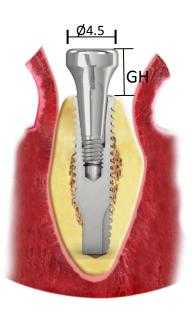


CM Healing Abutment

Gingival Height	0.8 mm	1.5 mm	2.5 mm	3.5 mm	4.5 mm	5.5 mm
Ø 3.3	106.182	106.168	106.169	106.170	106.183	106.184
Ø 4.5	106.175	106.171	106.172	106.173	106.174	106.180







GH = 0.8, 1.5, 2.5, 3.5, 4.5, 5.5mm



