

AESCULAP®



IMSET

B | BRAUN



IMSET PLUG

Cementation technique is of paramount importance for the long-term success of cemented endoprostheses. Complete embedding of the prosthesis in an even coat of cement is assisted among other things by the use of intramedullary plugs. A reliable cement encasement of the tip of the endoprosthesis depends on the exact position of the intramedullary plug in addition to a secure fit during cement application and stem implantation. Since intramedullary plugs have no function postoperatively, the use of resorbable implant material is indicated.

The IMSET intramedullary plug system is designed for safe and time-saving surgical methods. The absorbable IMSET plug with an absorption time of 15 days and the modular IMSET instruments form a functional unit for endoprosthetics.



IMPLANT *absorption*

Complete absorption within
15 days

IMPLANT *position*

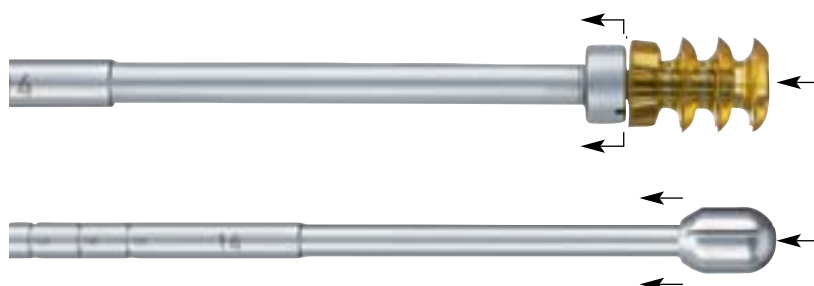
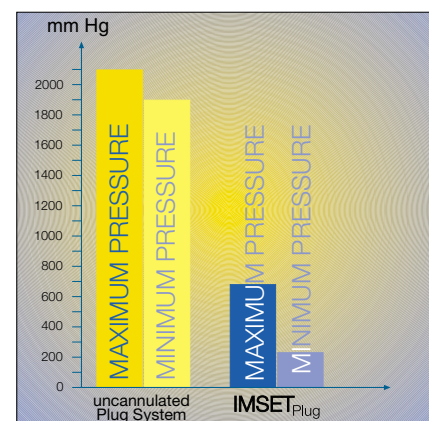
Secure fit provided by a ribbed
implant profile

IMPLANT *use*

Hip, knee and
shoulder endoprosthetics

Lower intramedullary pressure due to the IMSET cannulation system

The IMSET cannulation system in the implant and instrumentation reduces an increase in intramedullary pressure both during measurement of the intramedullary canal and insertion of the IMSET plug. The release of embolism-precipitating particles into the venous system is reduced with these surgical steps. The distal medullary cavity is more securely closed at the beginning of cement application, since the cement closes the cannulation of the IMSET plug.



IMSET INSTRUMENTS

Universal instruments

- instruments simple to dismantle and clean, with modular attachments
- at-a-glance system storage
- autologous cancellous bone plug as optional instruments

Tip Locking

- safe via the use of long tip attachments

Modular attachments

different IMSET attachments for



- Measuring the intramedullary canal



- Inserting the resorbable IMSET plug



- Inserting autologous cancellous bone plug



IMSET SURGICAL PROCEDURE



Determination of the cement mantle length

The length of the cement mantle is determined on the basis of the prosthesis stem. Here, we recommend provision to be made for a distance of 10 - 15 mm under the tip of the prosthesis.



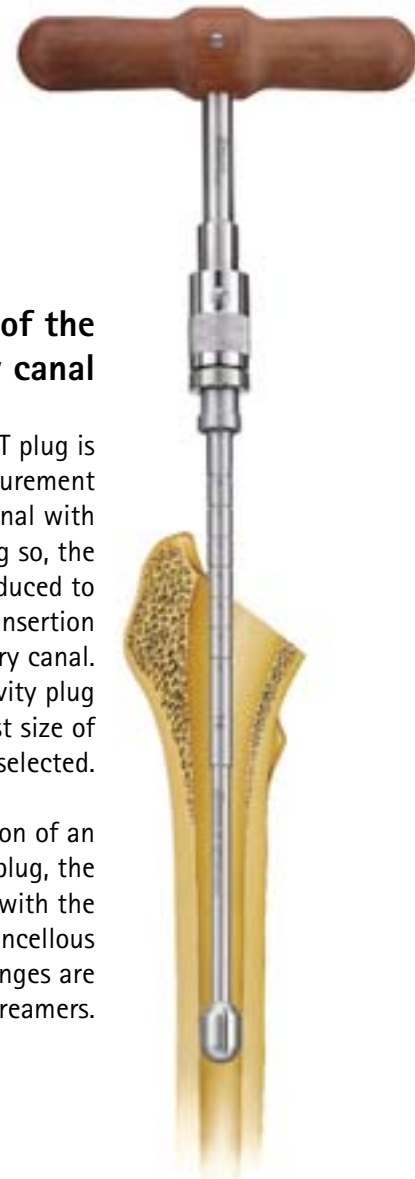
10-15 mm

Measurement of the intramedullary canal

The matching IMSET plug is selected via stepwise measurement of the intramedullary canal with the IMSET probes. In doing so, the probes are always introduced to the previously determined insertion depth in the intramedullary canal.

The medullary cavity plug corresponding to the last size of probe is selected.

In the event of implantation of an autologous medullary plug, the particular size is prepared with the corresponding IMSET cancellous bone reamer. The size ranges are indicated on the reamers.




Implantation of the intramedullary plug

The selected IMSET plug is fitted to the corresponding insertion instrument and inserted to the determined depth of penetration in the intramedullary canal. The insertion instrument is then withdrawn, or screwed out when using an autologous plug. The instrument must not be pulled back during the insertion process.

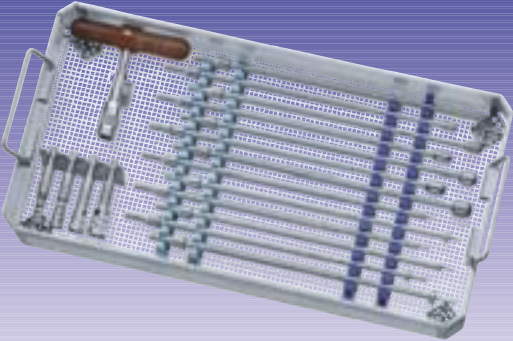







IMSET MEDULLARY CAVITY FILLING SYSTEM

IMSET Plug	Size	Art. no.
	8 mm	NK 908
	10 mm	NK 910
	12 mm	NK 912
	14 mm	NK 914
	16 mm	NK 916
	18 mm	NK 918

Composition of the material: 50 % gelatine (porcine), 30 % glycerol, 20 % water, 2 ‰ methylparahydroxybenzoate

NG 003 IMSET – INSTRUMENTS FOR MEDULLARY CAVITY FILLING		
	NG 005 R	Wire barket with support
	ND 144 R	IMSET handle
	NG 708 R	IMSET 8 mm medullary cavity probe
	NG 710 R	IMSET 10 mm medullary cavity probe
	NG 712 R	IMSET 12 mm medullary cavity probe
	NG 714 R	IMSET 14 mm medullary cavity probe
	NG 716 R	IMSET 16 mm medullary cavity probe
	NG 718 R	IMSET 18 mm medullary cavity probe
	NG 722 R	Insertion instrument for IMSET Plug, 8 mm
	NG 724 R	Insertion instrument for IMSET Plug, 10/12 mm
	NG 726 R	Insertion instrument for IMSET Plug, 14/16 mm
	NG 728 R	Insertion instrument for IMSET Plug, 16/18 mm

Recommended AESCULAP container: 590 x 285 x 105 mm

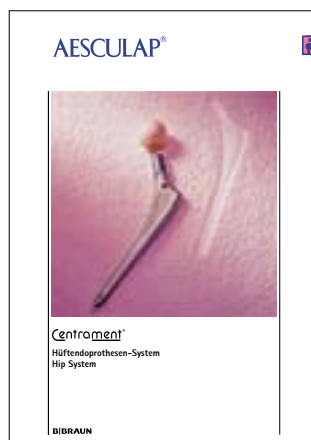
please order separately:		
	NG 702 R	Insertion instrument for bone plug, 8-12,5 mm
	NG 704 R	Insertion instrument for bone plug, 12,5-18mm
	NG 715 R	IMSET 15 mm medullary cavity probe
	ND 185 R	IMSET 8-10 mm cancellous bone reamer
	ND 186 R	IMSET 10-12,5 mm cancellous bone reamer
	ND 187 R	IMSET 12,5-15 mm cancellous bone reamer
	ND 189 R	IMSET 15-18 mm cancellous bone reamer



O-107



O-191



O-099



O-056



O-147



O-157



O-104



O-060

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AESCULAP

AESCULAP AG & CO. KG

Am Aesculap-Platz
D-78532 Tuttlingen

Telefon +49 (74 61) 95-0

Fax +49 (74 61) 95-26 00

<http://www.aesculap.de>

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