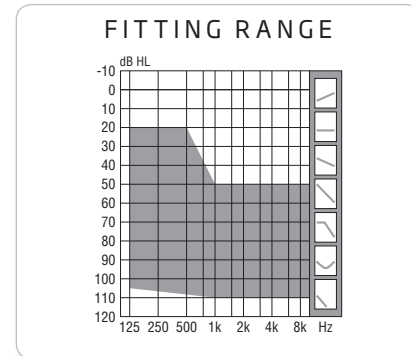


PRODUCT INFORMATION  
**OTICON DYNAMO SP10, SP8,  
 SP6 AND SP4**

# Oticon | Dynamo

*Oticon Dynamo is a BTE 13 super power instrument built on the Inium Sense platform delivering 143dB SPL/82dB full on gain and Inium Sense feedback Shield<sup>SP</sup> an efficient anti-feedback system. Dynamo is designed for severe to profound hearing loss patients who want a slim super power instrument offering easy access to volume control and providing individual listening preferences to ensure optimal speech understanding.*

*Dynamo features a unique combined approach to signal processing: Speech Rescue<sup>TM</sup> performing precise frequency composition to ensure full access to high frequency sounds whilst Speech Guard E's advanced adaptive compression preserves the important speech details.*



### Speech Rescue<sup>TM</sup>

Oticon's innovative frequency composition technology, Speech Rescue, increases speech understanding by rescuing speech cues that would otherwise be lost. Speech Rescue positions the high frequency energy in the available space without disturbing the mid frequencies. In this way, it is possible to turn down the inaudible high frequency gain or to give the patient the complete bandwidth of amplification even when Speech Rescue is on.

### Speech Guard E

Speech Guard E is the amplitude compression system in in Dynamo SP10 and SP8. It combines two methods of amplification: non-linear and linear in a single compression system that helps preserve the fine details of sound - from soft to loud - making sounds audible, comfortable and clear. This compression system guards the dynamic contrast of the entire signal to let the rescued high frequency speech sounds appear clear.

### Inium Sense feedback shield<sup>SP</sup>

Inium Sense feedback shield<sup>SP</sup> ensures that feedback is controlled in the frequency regions where the risk of feedback is highest. It is specifically adapted to severe and profound hearing losses allowing frequency shift across an extended bandwidth.

### YouMatic Premium

YouMatic is a personal automatic system programmed to the client's individual needs and sound preferences. YouMatic controls the sound processing across multiple environments by adjusting the response, directionality, noise management, transient management and compression speed.

### Family Features

- Speech Guard E
- Speech Rescue<sup>TM</sup>
- Inium Sense feedback shield<sup>SP</sup>
- Spatial Noise Management
- Binaural Synchronisation
- Binaural Coordination
- YouMatic
- Dynamic Speech Enhancement (DSE)
- Fitting Bandwidth 6.5 kHz\*
- Free Focus
- TriState Noise Management
- Transient Management
- Memory (datalogging)
- Bimodal support
- T-coil
- Special purpose programs
- AutoPhone Program
- Back dir
- Power Bass (streaming)
- Music Widening (streaming)
- Multi-band Adaptive Directionality
- NAL, NAL-RP, DSL
- 16 Frequency channels
- ConnectLine, Streamer and remote control
- DAI input and FM option
- Voice Priority<sup>i</sup><sup>TM</sup>
- In-situ audiometry
- EasyRECD<sup>TM</sup>
- IP 58 classification: dust and water resistant
- Analogue volume control w/ mute

\* Bandwidth accessible for gain adjustments during fitting



### People First

People First is our promise to empower people to communicate freely, interact naturally and participate actively

www.oticon.com



## PRODUCT OVERVIEW

Features	Dynamo SP10	Dynamo SP8	Dynamo SP6	Dynamo SP4
Non-linear fitting formulas	DSEsp, NAL, DSL	DSEsp, NAL, DSL	DSEsp, NAL, DSL	DSEsp, NAL, DSL
DSE personal profiles	5	3	3	1
Linear fitting formulas	DSElin, NAL-RP	DSElin, NAL-RP	DSElin, NAL-RP	DSElin, NAL-RP
Speech Rescue™	Yes	Yes	Yes	Yes
Speech Guard E	Yes	Yes	No	No
Single compression	No	No	Yes	Yes
Spatial Noise Management	Yes	No	No	No
Binaural Synchronisation (automatics)	Yes	Yes	No	No
Binaural Coordination (PB operations)	Yes	Yes	Yes	Yes
YouMatic	Premium	Advanced	Essential	No
Noise Management	Transient, Tri state	Tri State	Standard	Standard
Inium Sense feedback shield <sup>SP</sup>	Yes	Yes	Yes	Yes
Free Focus	Premium	Advanced	Essential	Basic
Back dir	Yes	Yes	Yes	No
Power Bass	Yes	No	No	No
Music Widening	Yes	No	No	No
Voice Priority <sup>i</sup> ™	Yes	Yes	Yes	No
Special Purpose programs (music, lecture etc.)	Yes	Yes	Yes	No
Easy RECD™	Yes	Yes	Yes	No
Fitting Bands	9	8	6	4

### GENERAL FITTING

Oticon Dynamo instruments are programmed using the Genie 2015.2 fitting software or higher compatible with NOAH 3 or higher.

#### Wireless fitting - FittingLINK

FittingLINK provides a wireless link (Bluetooth) between the PC and one of two wireless enabled hearing instruments, in addition FittingLINK can be used via a USB cable connected to the PC.

#### Cabled Fitting

Use programming cable #3.

### OPTIONS AND ACCESSORIES

<b>Tamper resistant battery drawer</b>	Available in 7 colours
<b>Damper</b>	Damping element for replacement
<b>DAI Adaptor</b>	AP 900
<b>Dedicated FM Receiver</b>	Amigo R12 (available in all colours)
<b>FM Adaptor</b>	FM 9 Compatible with Amigo R2 and other universal receivers
<b>Amigo FM Transmitters</b>	T5, T30, T31

### CONDITIONS

<b>Operating conditions</b>	Temperature: +1°C to +40°C Relative humidity: 5% to 93%, non-condensing
<b>Storage and transportation conditions</b>	Temperature and humidity shall not exceed the below limits for extended periods during transportation and storage: Temperature: -25°C to +60°C Relative humidity: 5% to 93%, non-condensing

### BTE STYLES



## BTE SUPER POWER OTICON DYNAMO SP10, SP8, SP6 AND SP4



Scale 1:1

#### Technical Information

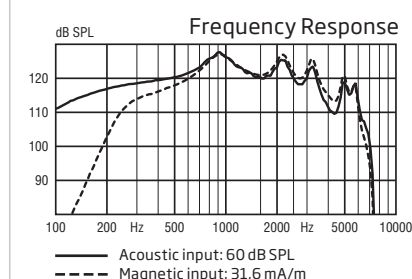
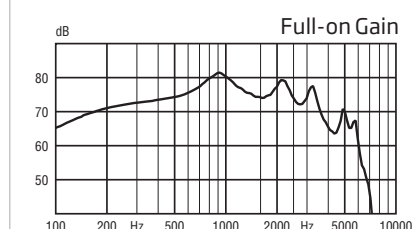
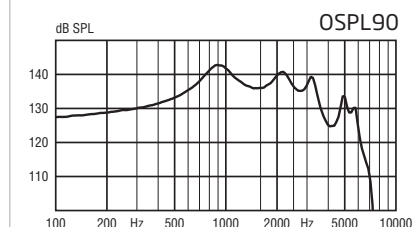
Omnidirectional mode is used unless otherwise stated.

#### Warning to the instrument dispenser

The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing instrument user.

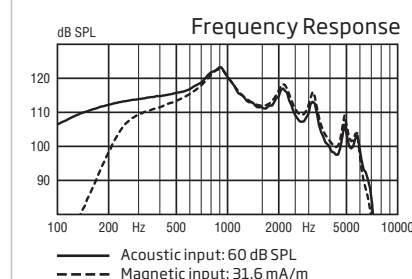
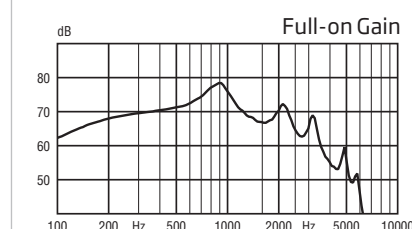
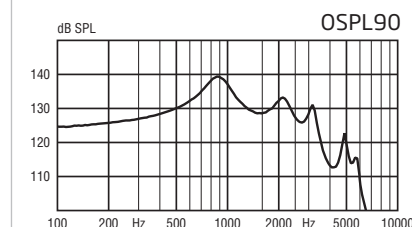
#### EAR SIMULATOR

Measured according to IEC 60118-0 (1983) and 60711 (1981) and DIN 45605.



#### ZCC COUPLER

Measured according to ANSI S3.22 (2003) and S3.7 (1995), IEC 60118-7 (2005) and IEC 60318-5 (2006).



OSPL90	Peak	143 dB SPL	139 dB SPL
	1600 Hz	136 dB SPL	129 dB SPL
	Average	138 dB SPL	131 dB SPL
Full-on gain	Peak	82 dB	78 dB
	1600 Hz	75 dB	67 dB
	Average	77 dB	69 dB
Reference test gain		60 dB	54 dB
Frequency range		100-6500 Hz	100-6200 Hz
Telecoil output (1600 Hz)	1 mA/m field	104 dB SPL	-
	10 mA/m field	125 dB SPL	-
	SPLITS L/R	-	107/107 dB SPL
Total harmonic distortion	500 Hz	6.0 %	2.0 %
(Input 70 dB SPL)	800 Hz	<2 %	<2 %
	1600 Hz	2.0 %	2.0 %
Equivalent input noise level (A)	Omni	19 dB SPL	18 dB SPL
	Dir	32 dB SPL	33 dB SPL
Battery consumption	Quiescent	1.2 mA	1.2 mA
	Typical	1.3 mA	1.9 mA
Battery size 13	(IEC PR48)		
Battery life, calculated* IEC 60118-0 §7.11		246 hours	
Battery life, actual		80-175 hours	
IRIL (IEC 60118-13)	GSM/DECT	800/1400/2000MHz:21/<16/<16 dB SPL	

\*) Based on the standardised battery consumption measurement (IEC 60118-0.) The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment