



**TW**  
Surgical

# LARYNGOSCOPES



**UK  
CA** **CE**



TW Surgical

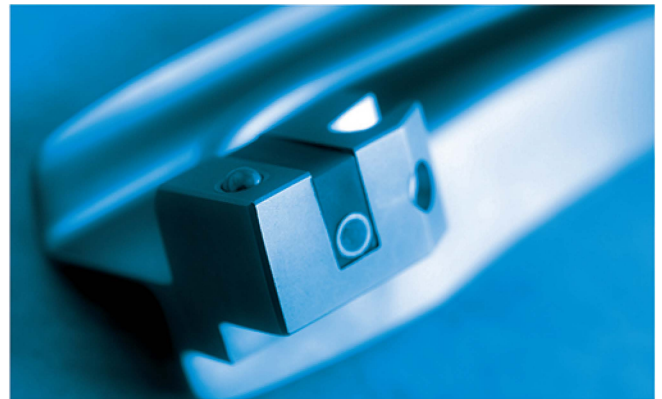
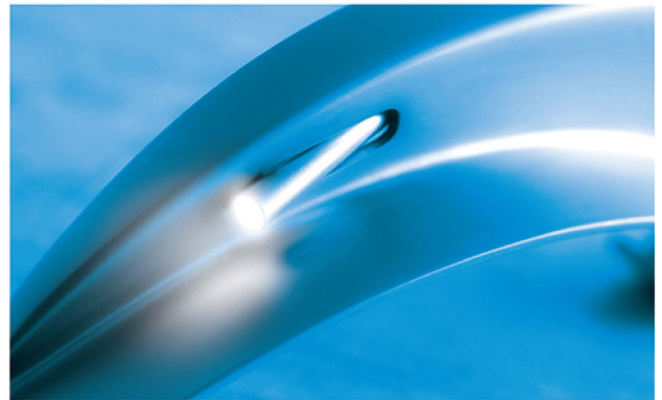
Treasure Wright (U.K.) Ltd.



[www.twrightmedical.com](http://www.twrightmedical.com)

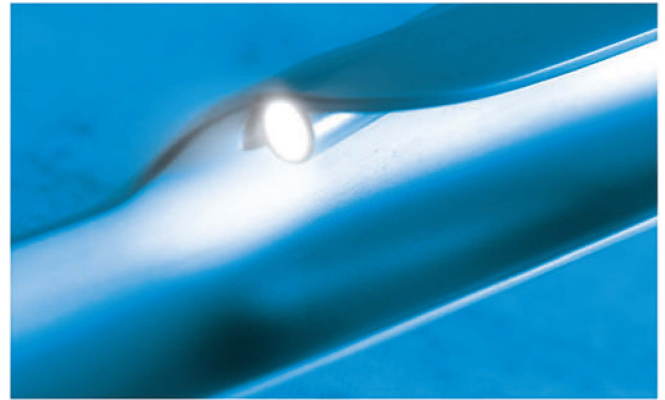


[info@twrightmedical.com](mailto:info@twrightmedical.com)



The English Macintosh is similar to the conventional Macintosh except that the flange is curved and lower at the handle end. Two studies have proved that this blade provided better results than other commonly used blades.

Code	Description	Blade Number	Size
TWS 84-1002/09	Premature	0	68mm
TWS 84-1002/10	Neonate	0	80mm
TWS 84-1002/11	Infant	1	92mm
TWS 84-1002/12	Child	2	105mm
TWS 84-1002/13	Medium Adult	3	135mm
TWS 84-1002/14	Large Adult	4	155mm
TWS 84-1002/15	X-Large	5	175mm

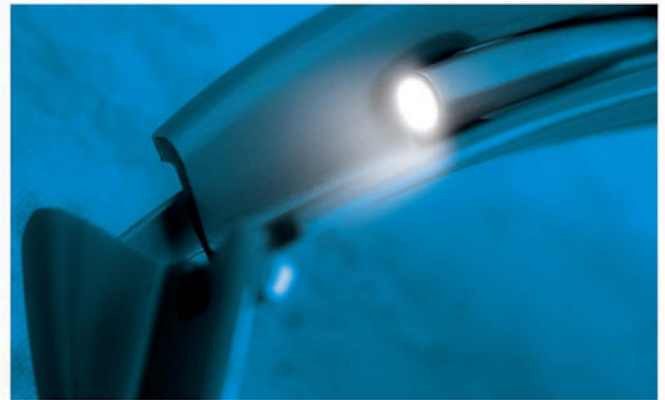


The Miller is one of the most popular blades. The tongue is straight with a slight upward curve near the tip.

In cross-section the flange, web, and tongue form a C with the top fattened. Placing the bulb on the right side allows it to be protected by the flange. Several modifications have been described.

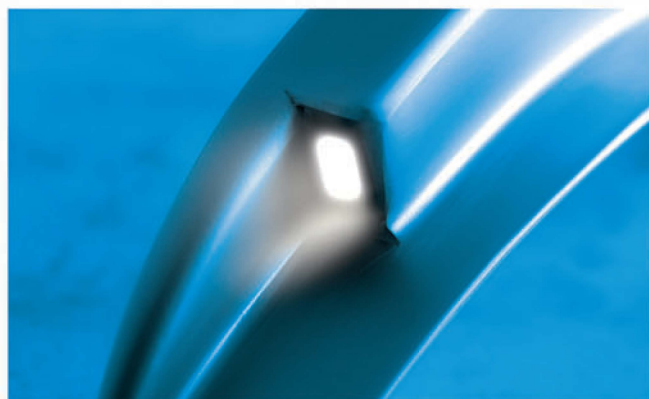
In comparing the Macintosh and Miller blades, it was found that force, head extension and cervical spine movement were less with the Miller.

Code	Description	Blade Number	Size
TWS 84-1002/16	Premature	0	65mm
TWS 84-1002/17	Neonate	0	78mm
TWS 84-1002/18	Infant	1	102mm
TWS 84-1002/19	Child	2	154mm
TWS 84-1002/20	Medium Adult	3	195mm
TWS 84-1002/21	Large Adult	4	205mm



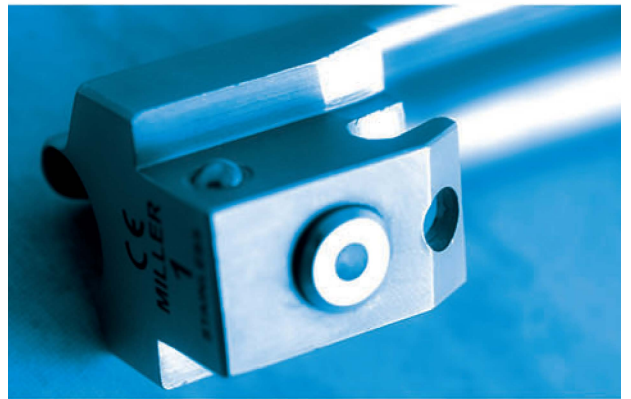
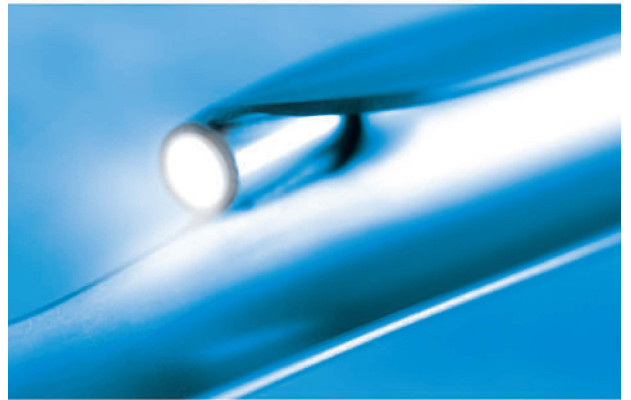
These blades have a flexible tip that is controlled by a lever attached to the proximal end of the blade. When the lever is pushed toward the handle, the tip of the blade is flexed. This laryngoscope may be helpful when a difficult intubation is encountered. It may be especially useful in patients with minimal neck movement. External laryngeal pressure may further improve the view. However, it will not always improve the view and may worsen it. Even if the blade does not improve the view of the larynx, it may improve the likelihood of successful intubation by elevating the epiglottis. In some patients in whom the view is satisfactory with the Macintosh blade, use of the Flexible tip blade may make the view worse.

Code	Description	Blade Number	Size
TWS 84-1002/22	Child	0	105mm
TWS 84-1002/23	Medium Adult	0	130mm
TWS 84-1002/24	Large Adult	1	155mm



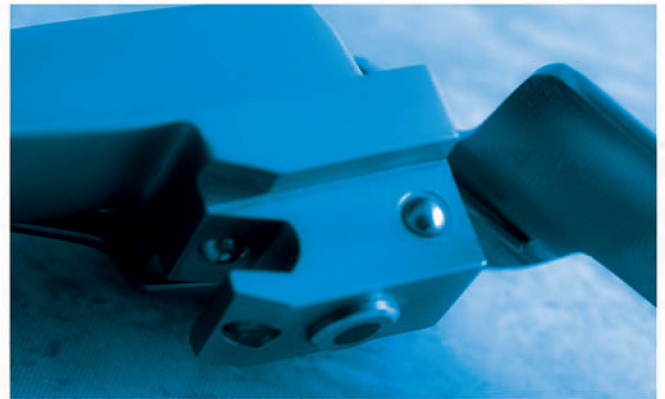
- Specially designed and constructed with high quality stainless steel AISI 304.
- High quality German optical fibers loaded with 4.5mm bundle for best optimum light transmission.
- Exceptionally high light intensity with LED illumination (8000-10000 LUX).
- With this integrated FO light conductor, there are no extra cavities or light path to become contaminated.
- Smooth and low profile blade design which gives no chance of damaging teeth and upper part of mouth.
- Integrated light guide blade design for quick cleaning and sterilization without extra effort for connecting screw.
- Compatible with all handles of ISO 7376 (Green System).
- Autoclaving at 134 °C /5 min. maximum light output with 3000-4000 cycles.

Code	Description	Blade Number	Size
TWS 84-1002/25	Neonay	0	80mm
TWS 84-1002/26	Infant	1	93mm
TWS 84-1002/27	Child	2	114mm
TWS 84-1002/28	Medium Adult	3	135mm
TWS 84-1002/29	Large Adult	4	155mm



- Specially designed and constructed with high quality stainless steel AISI 304.
- High quality German optical fibers loaded with 4.5mm bundle for best optimum light transmission.
- Exceptionally high light intensity with LED illumination (8000-10000 LUX).
- With this integrated FO light conductor, there are no extra cavities or light path to become contaminated.
- Smooth and low profile blade design which gives no chance of damaging teeth and upper part of mouth.
- Integrated light guide blade design for quick cleaning and sterilization without extra effort for connecting screw.
- Compatible with all handles of ISO 7376 (Green System).
- Autoclaving at 134 °C /5 min. maximum light output with 3000-4000 cycles.

Code	Description	Blade Number	Size
TWS 84-1002/31	Premature	0	65mm
TWS 84-1002/32	Neonate	0	78mm
TWS 84-1002/33	Infant	1	102mm
TWS 84-1002/34	Child	2	154mm
TWS 84-1002/35	Medium Adult	3	195mm
TWS 84-1002/36	Large Adult	4	205mm



These blades have a flexible tip that is controlled by a lever attached to the proximal end of the blade. When the lever is pushed toward the handle, the tip of the blade is flexed. This laryngoscope may be helpful when a difficult intubation is encountered. It may be especially useful in patients with minimal neck movement. External laryngeal pressure may further improve the view. However, it will not always improve the view and may worsen it. Even if the blade does not improve the view of the larynx, it may improve the likelihood of successful intubation by elevating the epiglottis. In some patients in whom the view is satisfactory with the Macintosh blade, use of the Flexible tip blade may make the view worse.

Code	Description	Blade Number	Size
TWS 84-1002/37	Child	2	108mm
TWS 84-1002/38	Medium Adult	3	130mm
TWS 84-1002/39	Large Adult	4	155mm

## Macintosh Fiber Optic Xenon Laryngoscope Sets, English Profile

Code	Description
TWS 84-1002/40	Set of 4 Blades 1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1002/41	Set of 5 Blades 0,1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1002/42	Set of 6 Blades 0,1,2,3,4,5 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case



## Miller Fiber Optic Xenon Laryngoscope Sets, English Profile

Code	Description
TWS 84-1002/43	Set of 4 Blades 1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1002/44	Set of 5 Blades 0,1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1002/45	Set of 6 Blades 00,0,1,2,3,4,5 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case

## MacFlex Fiber Optic Xenon Laryngoscope Set, English Profile

Code	Description
TWS 84-1002/53	Set of 2 Blades 3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.



## MacFlex Fiber Optic LED Laryngoscope Set, English Profile

Code	Description
TWS 84-1002/54	MacFlex F.0 LED Laryngoscope Set of 2 Blades 3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.

## Macintosh Fiber Optic LED Laryngoscope Sets, English Profile

Code	Description
TWS 84-1002/55	Set of 4 Blades 1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1002/56	Set of 5 Blades 0,1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1002/57	Set of 6 Blades 00,0,1,2,3,4,5 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case

## Miller Fiber Optic LED Laryngoscope Sets, English Profile

Code	Description
TWS 84-1002/58	Miller F.0 LED Laryngoscope Set of 4 Blades 1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1002/59	Miller F.0 LED Laryngoscope Set of 5 Blades 0,1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1002/60	Miller F.0 LED Laryngoscope Set of 6 Blades 00,0,1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.

## Mega MacFlex Fiber Optic Xenon Laryngoscope Set, German Profile

Code	Description
TWS 84-1002/61	Set of 4 Blades 3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.

## Mega MacFlex LED Laryngoscope Set, German Profile

Code	Description
TWS 84-1002/62	Set of 4 Blades 3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.



- Diamond knurled barrel gives strong grip to the user.
- LED brighter illumination with 80,000 LUX.
- LED operating time over 50,000 hrs.
- 2hrs operating time at maximum illumination.
- Viewing angle at 130 with color temperature color temperature 6500K.
- Conforms to all Green System blades as per ISO 7376 standard.
- Simple change of batteries at the base of the handle.
- Crafted from high quality chrome plated brass.
- Battery usage is minimized due to the low power consumption.
- Fully autoclavable @ 134° C for 5 minutes.



## Battery Handles Fiber Optic Xenon, Stainless Steel

Code	Description	Battery	Size
TWS 84-1002/63	Infant	1xLi thium 123 Size	122mm
TWS 84-1002/64	Stubby	2xAA Size	125mm
TWS 84-1002/65	Pediatri c	2xAA Size	160mm
TWS 84-1002/66	Medi um	2xC Size	160mm
TWS 84-1002/67	Large	2xD Size	175mm

## Battery Handles Fiber Optic Xenon Brass Chrome Plated

Code	Description	Battery	Size
TWS 84-1002/68	Infant	1xLi thium 123 Size	122mm
TWS 84-1002/69	Stubby	2xAA Size	125mm
TWS 84-1002/70	Pediatri c	2xAA Size	160mm
TWS 84-1002/71	Medi um	2xC Size	160mm
TWS 84-1002/72	Large	2 x D Size	175mm

## Battery Handles Fiber Optic LED, Stainless Steel

Code	Description	Battery	Size
TWS 84-1002/73	Infant	1xLi thium 123 Size	122mm
TWS 84-1002/74	Stubby	2xAA Size	125mm
TWS 84-1002/75	Pediatri c	2xAA Size	160mm
TWS 84-1002/76	Medi um	2xC Size	160mm
TWS 84-1002/77	Large	2 x D Size	175mm



## Battery Handles Fiber Optic LED Brass Chrome Plated

Code	Description	Battery	Size
TWS 84-1002/78	Infant	1xLi thium 123 Size	122mm
TWS 84-1002/79	Stubby	2xAA Size	125mm
TWS 84-1002/80	Pediatri c	2xAA Size	160mm
TWS 84-1002/81	Medi um	2xC Size	160mm
TWS 84-1002/82	Large	2 x D Size	175mm

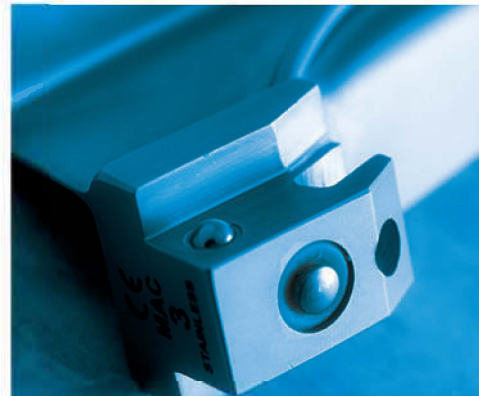
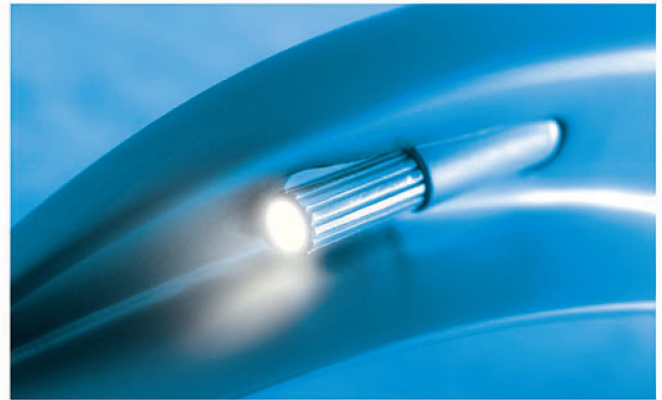


## Replacement Lamps

Code	Description	Vol tage
TWS 84-1002/83	Xenon	2. 5V
TWS 84-1002/84	LED	3. 0V
TWS 84-1002/85	Hal ogen	2. 5V
TWS 84-1002/86	Hal ogen	3. 5V

## Replacement Fiber Optic light Guides English Profile (4mm)

Code	Description	For Blades
TWS 84-1002/87	Miller Blade	00
TWS 84-1002/88	Miller Blade	0
TWS 84-1002/89	Miller Blade	1
TWS 84-1002/90	Miller Blade	2
TWS 84-1002/91	Miller Blade	3
TWS 84-1002/92	Miller Blade	4
TWS 84-1002/93	Macintosh Blade	00
TWS 84-1002/94	Macintosh Blade	0
TWS 84-1002/95	Macintosh Blade	1
TWS 84-1002/96	Macintosh Blade	2
TWS 84-1002/97	Macintosh Blade	3
TWS 84-1002/98	Macintosh Blade	4



The English Macintosh is similar to the conventional Macintosh except that the flange is curved and lower at the handle end. Two studies have proved that this blade provided better results than other commonly used blades.

	Description	Blade Number	Size
	Premature	00	68mm
	Neonate	0	80mm
<b>TWS 84-1002/99</b>	Infant	1	95mm
<b>TWS 84-1003/01</b>	Child	2	105mm
<b>TWS 84-1003/00</b>	Medium Adult	3	135mm
<b>TWS 84-1003/02</b>	Ext. Medium Adult	3.5	145mm
<b>TWS 84-1003/03</b>	Large Adult	4	155mm
<b>TWS 84-1003/04</b>	X-Large	5	175mm



"The Miller is one of the most popular blades. The tongue is straight with a slight upward curve near the tip. In cross-section the flange, web, and tongue form a C with the top fattened. Placing the bulb on the right side allows it to be protected by the flange. Several modifications have been described. In comparing the Macintosh and Miller blades, it was found that force head extension and cervical spine movement were less with the Miller."

Code	Description	Blade Number	Size
TWS 84-1002/52	Premature	00	68mm
TWS 84-1002/51	Neonate	0	80mm
TWS 84-1002/50	Infant	1	92mm
TWS 84-1002/49	Child	2	105mm
TWS 84-1002/48	Medium Adult	3.5	135mm
TWS 84-1002/47	Large Adult	4	155mm
TWS 84-1002/46	X-Large	5	175mm



These blades have a flexible tip that is controlled by a lever attached to the proximal end of the blade. When the lever is pushed toward the handle, the tip of the blade is flexed. This laryngoscope may be helpful when a difficult intubation is encountered. It may be especially useful in patients with minimal neck movement. External laryngeal pressure may further improve the view. However, it will not always improve the view and may worsen it. Even if the blade does not improve the view of the larynx, it may improve the likelihood of successful intubation by elevating the epiglottis. In some patients in whom the view is satisfactory with the Macintosh blade, use of the Flexible tip blade may make the view worse.

Code	Description	Blade Number	Size
TWS 84-1003/05	Child	2	105mm
TWS 84-1003/06	Medium Adult	3	130mm
TWS 84-1003/07	Large Adult	4	155mm

## Macintosh Conventional Laryngoscope Sets, English Profile



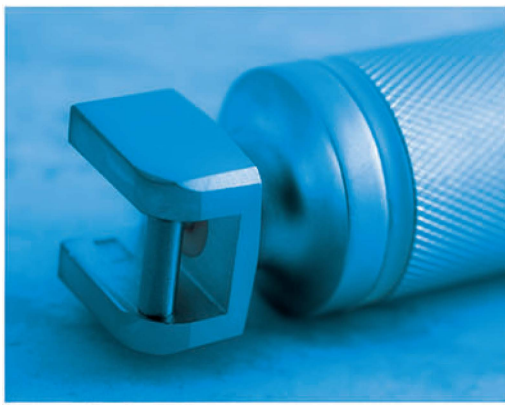
Code	Description
TWS 84-1003/08	Mac Conventional Laryngoscope Set of 5 Blades 1,2,3,4 with 1 MedHandle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1003/09	Mac Conventional Laryngoscope Set of 5 Blades 0,1,2,3,4 with 1 MedHandle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1003/10	Mac Conventional Laryngoscope Set of 6 Blades 00,0,1,2,3,4 with 1 MedHandle, 1 Replacement Lamp, in Plastic Case.

## Mill



Code	Description
TWS 84-1003/11	Mac Conventional Laryngoscope Set of 5 Blades 1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1003/12	Mac Conventional Laryngoscope Set of 5 Blades 0,1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.
TWS 84-1003/13	Mac Conventional Laryngoscope Set of 6 Blades 00,0,1,2,3,4 with 1 Med Handle, 1 Replacement Lamp, in Plastic Case.

- Diamond knurled barrel gives strong grip to the user.
- Conforms to all conventional blades as per ISO 7376 standard.
- Simple change of batteries at the base of the handle.
- Crafted from high quality chrome plated brass.
- Economical solution for intubation as compare to green system.
- Fully autoclavable @ 134° C for 5 minutes.

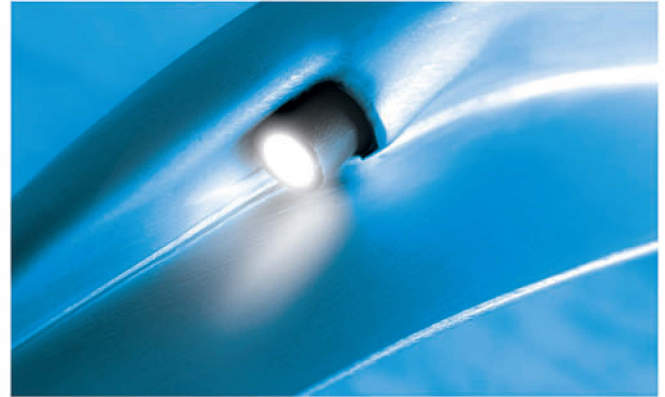


### Battery Handles Stainless Steel

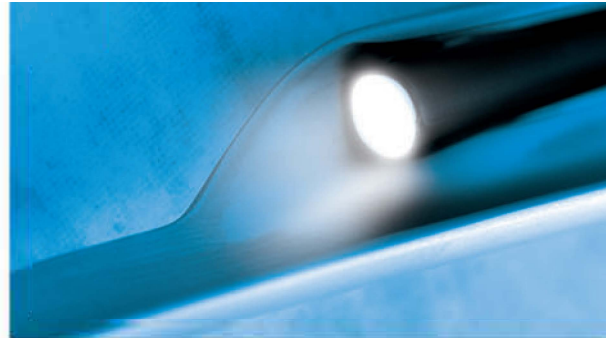
Code	Description	Battery	Size
TWS 84-1003/14	Infant	1xLi thium 123 Size	110mm
TWS 84-1003/15	Stubby	2xAA Size	115mm
TWS 84-1003/16	Pediatri c	2xAA Size	145mm
TWS 84-1003/17	Medi um	2xC Size	150mm
TWS 84-1003/18	Large	2× D Size	165mm

### Battery Handles Brass Chrome Plated

Code	Description	Battery	Size
TWS 84-1003/19	Infant	1xLi thium 123 Size	110mm
TWS 84-1003/20	Stubby	2xAA Size	115mm
TWS 84-1003/21	Pediatri c	2xAA Size	145mm
TWS 84-1003/22	Medi um	2xC Size	150mm
TWS 84-1003/23	Large	2× D Size	165mm



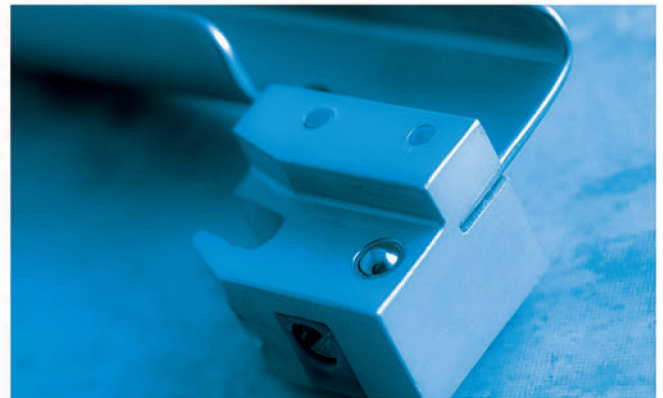
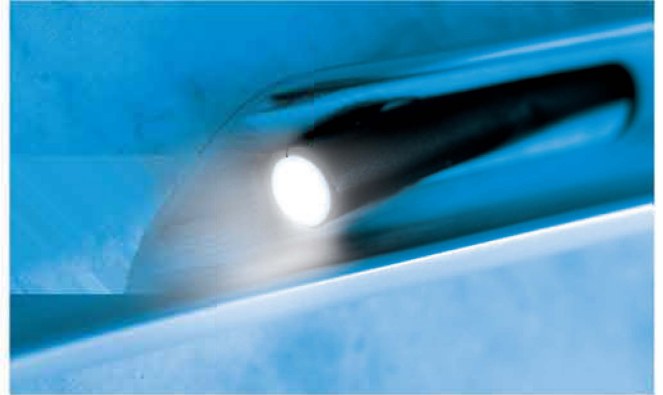
Code	Description	Blade Number	Size
TWS 84-1003/24	Premature	00	65mm
TWS 84-1003/25	Neonate	0	78mm
TWS 84-1003/26	Infant	1	102mm
TWS 84-1003/27	Child	2	154mm
TWS 84-1003/28	Medium Adult	3	195mm
TWS 84-1003/29	Large Adult	4	205mm



Code	Description	Blade Number	Size
TWS 84-1003/30	Premature	00	65mm
TWS 84-1003/31	Neonate	0	78mm
TWS 84-1003/32	Infant	1	102mm
TWS 84-1003/33	Child	2	154mm
TWS 84-1003/34	Medium Adult	3	195mm
TWS 84-1003/35	Large Adult	4	205mm



Code	Description	Blade Number	Size
TWS 84-1003/36	Premature	00	65mm
TWS 84-1003/37	Neonate	0	78mm
TWS 84-1003/38	Infant	1	102mm
TWS 84-1003/39	Child	2	154mm
TWS 84-1003/40	Medium Adult	3	195mm
TWS 84-1003/41	Large Adult	4	205mm



Code	Description	Blade Number	Size
TWS 84-1003/42	Premature	00	65mm
TWS 84-1003/43	Neonate	0	78mm
TWS 84-1003/44	Infant	1	102mm
TWS 84-1003/45	Child	2	154mm
TWS 84-1003/46	Medium Adult	3	195mm
TWS 84-1003/47	Large Adult	4	205mm

- Molded from highly rigid plastic material which makes it unbreakable
- Single patient use only
- Especially very effective under emergency situations.
- Green system no direct contact of light.
- Low cost price with high quality
- Round tip helps reduce trauma
- Plastic optically fiber 5mm dia gives clear and maximum illumination.
- Available in all sizes of Macintosh and Miller
- Hygienically safe in use
- Fully conforms to ISO 7376 and existing handles
- Individually packed and labeled

## Macintosh Blades, Fiber Optic Acrylic, Full-Plastic



Code	Description	Blade Number	Size
TWS 84-1003/48	Infant	1	95mm
TWS 84-1003/49	Medium Adult	2	115mm
TWS 84-1003/50	Child	3	135mm
TWS 84-1003/51	Large Adult	4	155mm



## Miller Blades Fiber Optic Acrylic, Full-Plastic

Code	Description	Blade Number	Size
TWS 84-1003/52	Neonate	0	80mm
TWS 84-1003/53	Infant	1	95mm
TWS 84-1003/54	Medium Adult	2	115mm
TWS 84-1003/55	Child	3	135mm
TWS 84-1003/56	Large Adult	4	155mm

## MacFlex Blades, Fiber Optic Acrylic, Full-Metallic



- Very useful while a difficult intubation is encountered.
- Less force required to view the larynx as compare to normal Macintosh blades.
- Single patient use only.
- Especially very effective during minimal neck movement of the patient.
- Stainless steel spatula and aluminum heel makes, practically unbreakable.
- Low cost price with high quality.
- Round tip helps reduce trauma.
- Plastic optically fiber 5mm dia gives clear and maximum illumination.
- Supplied surgically cleaned
- Hygienically safe in use
- Fully conforms to ISO 7376 and existing handles
- Individually packed and labeled
- Low profile shape of blades protects the patient from upper part of teeth.

Code	Description	Blade Number	Size
TWS 84-1003/57	Child	2	105mm
TWS 84-1003/58	Medium Adult	3	135mm
TWS 84-1003/59	Large Adult	4	155mm

- Knurled barrel gives strong grip to the user.
- Single patient use only
- LED light source with 25000 LUX
- LED handles with built in batteries
- Available in fullmetal and semimetal construction.
- Very economical in pricing with high quality
- Crafted from light weight aluminium metal.
- Supplied surgically clean which makes it hygienically safe in use.
- Fully conforms to ISO 7376 and existing blades as well.
- Individually packed and labeled.



### Battery Handles Fiber Optic LED, Semimetal with Batteries

Code	Description	Battery	Size
TWS 84-1003/60	Infant		115mm
TWS 84-1003/61	Pediatric		150mm
TWS 84-1003/62	Medium		150mm



### Battery Handles Fiber Optic LED, Metallic with Batteries

Code	Description	Battery	Size
TWS 84-1003/63	Infant		115mm
TWS 84-1003/64	Pediatric		150mm
TWS 84-1003/65	Medium		150mm



### Battery Handles Fiber Optic LED, Semimetal without Batteries

Code	Description	Battery	Size
TWS 84-1003/65	Infant		115mm
TWS 84-1003/66	Pediatric		150mm
TWS 84-1003/67	Medium		150mm



### Battery Handles Fiber Optic LED, Metallic without Batteries

Code	Description	Battery	Size
TWS 84-1003/68	Infant		115mm
TWS 84-1003/69	Pediatric		150mm
TWS 84-1003/70	Medium		150mm

## Disposable Metallic Kits (Battery Included)

Code	Description
TWS 84-1003/71	Miller Blade 00 with Battery Handle Med
TWS 84-1003/72	Miller Blade 0 with Battery Handle Med
TWS 84-1003/73	Miller Blade 1 with Battery Handle Med
TWS 84-1003/74	Miller Blade 2 with Battery Handle Med
TWS 84-1003/75	Miller Blade 3 with Battery Handle Med
TWS 84-1003/76	Miller Blade 4 with Battery Handle Med

Code	Description
TWS 84-1003/77	Miller Blade 0 with Battery Handle Med
TWS 84-1003/78	Miller Blade 0 with Battery Handle Med
TWS 84-1003/79	Miller Blade 1 with Battery Handle Med
TWS 84-1003/80	Miller Blade 2 with Battery Handle Med
TWS 84-1003/81	Miller Blade 3 with Battery Handle Med
TWS 84-1003/82	Miller Blade 4 with Battery Handle Med

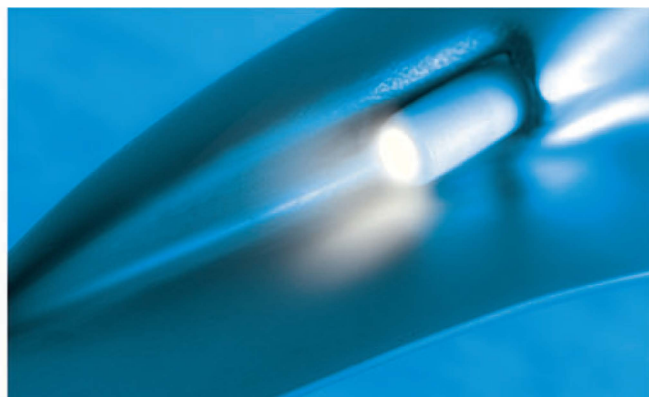
## Disposable Metallic Kits (W/O Batteries)

Code	Description
TWS 84-1003/83	Miller Blade 00 with Battery Handle Med
TWS 84-1003/84	Miller Blade 0 with Battery Handle Med
TWS 84-1003/85	Miller Blade 1 with Battery Handle Med
TWS 84-1003/86	Miller Blade 2 with Battery Handle Med
TWS 84-1003/87	Miller Blade 3 with Battery Handle Med
TWS 84-1003/88	Miller Blade 4 with Battery Handle Med

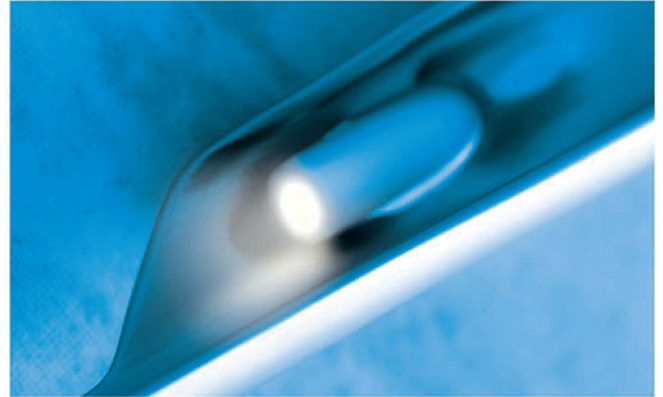
Code	Description
TWS 84-1003/89	Miller Blade 0 with Battery Handle Med
TWS 84-1003/90	Miller Blade 0 with Battery Handle Med
TWS 84-1003/91	Miller Blade 1 with Battery Handle Med
TWS 84-1003/92	Miller Blade 2 with Battery Handle Med
TWS 84-1003/93	Miller Blade 3 with Battery Handle Med
TWS 84-1003/94	Miller Blade 4 with Battery Handle Med

## Replacement LED Capsule

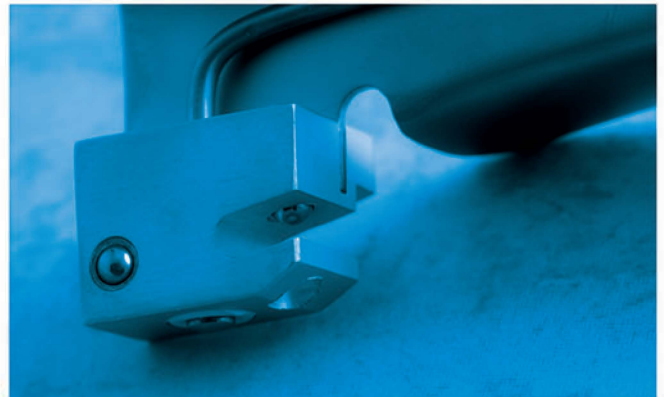
Code	Description
TWS 84-1003/95	Replacement LED capsule



Code	Description	Blade Number	Size
TWS 84-1003/96	Infant	1	105mm
TWS 84-1003/97	Child	2	135mm
TWS 84-1003/98	Medium Adult	3	155mm
TWS 84-1003/99	Large Adult	4	135mm
TWS 84-1004/00	X-Large	5	155mm



Code	Description	Blade Number	Size
TWS 84-1004/01	Premature	00	65mm
TWS 84-1004/02	Neonate	0	78mm
TWS 84-1004/03	Infant	1	102mm
TWS 84-1004/04	Child	2	154mm
TWS 84-1004/05	Medium Adult	3	195mm
TWS 84-1004/06	Large Adult	4	205mm



Code	Description	Blade Number	Size
TWS 84-1004/07	Infant	1	95mm
TWS 84-1004/08	Child	2	105mm
TWS 84-1004/09	Medium Adult	3	135mm
TWS 84-1004/10	Ext. Medium Adult	3.5	145mm
TWS 84-1004/11	Large Adult	4	155mm
TWS 84-1004/12	X-Large	5	175mm



Code	Description	Blade Number	Size
TWS 84-1004/13	Premature	00	65mm
TWS 84-1004/14	Neonate	0	78mm
TWS 84-1004/15	Infant	1	102mm
TWS 84-1004/16	Child	2	154mm
TWS 84-1004/17	Medium Adult	3	195mm
TWS 84-1004/18	Large Adult	4	205mm



- Knurled barrel gives strong grip to the user.
- Single patient use only.
- Compatible LED blades only.
- No need to install batteries because batteries are included.
- Available in full-metal and semimetal construction.
- Very economical in pricing with high quality
- Crafted from light weight aluminium metal.
- Supplied surgically clean which makes it hygienically safe in use.
- Fully conforms to ISO 7376 and existing blades as well.

### Battery Handles Conventional, Semimetal

Code	Description	Battery	Size
TWS 84-1004/18	Infant		115mm
TWS 84-1004/19	Pediatric		150mm
TWS 84-1004/20	Medium		150mm



### Battery Handles Conventional, Metallic

Code	Description	Battery	Size
TWS 84-1004/21	Infant		115mm
TWS 84-1004/22	Pediatric		150mm
TWS 84-1004/23	Medium		150mm



## Macintosh Blades, American Profile

The Macintosh blade is one of the most popular blades. The tongue has a gentle curve that extends to the tip. In cross-section, the tongue, web, and flange form a reverse Z. The force, head extension and cervical spine movement is greater with the Macintosh blade than with the miller blades.



Fiber Optic image shown

Code	Description	Blade Number	Size
TWS 84-1004/14	Neonate	00	68mm
TWS 84-1004/25	Neonate	0	80mm
TWS 84-1004/26	Infant	1	90mm
TWS 84-1004/27	Child	2	108mm
TWS 84-1004/28	Medium Adult	3	130mm
TWS 84-1004/29	Extra Medium Adult	4	145mm
TWS 84-1004/30	Large Adult	5	160mm

Code	Description	Blade Number	Size
TWS 84-1004/35	Neonate	0	80mm
TWS 84-1004/36	Infant	1	90mm
TWS 84-1004/37	Child	2	108mm
TWS 84-1004/38	Medium Adult	3	130mm
TWS 84-1004/39	X Medium Adult	4	145mm
TWS 84-1004/40	Large Adult	5	160mm

## Miller Blades American Profile

The Miller is one of the most popular blades. The tongue is straight with a slight upward curve near the tip. In cross-section the flange, web, and tongue form a C with the top fattened.

Several modifications have been described. But in comparing the Macintosh and Miller blades, it was found that force, head extension and cervical spine movement were less with the Miller.



Conventional image shown

Code	Description	Blade Number	Size
TWS 84-1004/41	Premature	00	65mm
TWS 84-1004/42	Neonate	0	75mm
TWS 84-1004/43	Infant	1	102mm
TWS 84-1004/44	Small Child	1.5	130mm
TWS 84-1004/45	Child	2	155mm
TWS 84-1004/46	Medium Adult	3	195mm

Code	Description	Blade Number	Size
TWS 84-1004/47	Premature	00	65mm
TWS 84-1004/48	Neonate	0	75mm
TWS 84-1004/49	Infant	1	102mm
TWS 84-1004/50	Small Child	1.5	130mm
TWS 84-1004/51	Child	2	155mm
TWS 84-1004/52	Medium Adult	3	195mm

## Philips Blades American Profile

The Phillips blade is straight with a low flange and a curved tip similar to a Miller blade. This design of blade gives greater visibility and an almost direct line approach to the trachea during intubation. The light bulb and FO light guide is on the left side of the blade.



Fiber Optic image shown

Code	Description	Blade Number	Size
TWS 84-1004/59	Infant	2	113mm
TWS 84-1004/60	Adult	3	166mm

Code	Description	Blade Number	Size
TWS 84-1004/61	Infant	2	113mm
TWS 84-1004/62	Adult	3	166mm

## Wisconsin Blades American Profile

Unlike the Miller blade, the Wisconsin blade's tongue has no curve. The flange is curved to form two-thirds of a circle in cross-section. The depth of the flange is small at the proximal end and wider in the distal portion.



Fiber Optic image shown

Code	Description	Blade Number	Size
TWS 84-1004/53	Child	2	132mm
TWS 84-1004/54	Medium Adult	3	160mm
TWS 84-1004/55	Large Adult	4	200mm

Code	Description	Blade Number	Size
TWS 84-1004/56	Child	2	135mm
TWS 84-1004/57	Medium Adult	3	162mm
TWS 84-1004/58	Large Adult	4	199mm

## Macintosh Blades, Improved View, English Profile

The improved vision (IV) Macintosh blade is similar to the standard version except that the midportion of the tongue is concave.



Fiber Optic image shown

Code	Description	Blade Number	Size
TWS 84-1004/63	Infant	1	95mm
TWS 84-1004/64	Child	2	108mm
TWS 84-1004/65	Medium Adult	3	135mm
TWS 84-1004/66	Large Adult	4	155mm

Code	Description	Blade Number	Size
TWS 84-1004/71	Neonate	1	80mm
TWS 84-1004/70	Infant	2	92mm
TWS 84-1004/69	Child	3	105mm
TWS 84-1004/68	Medium Adult	4	135mm
TWS 84-1004/67	Large Adult	5	155mm

## Wis-Hipple Blades, American Profile

The Wis-Hipple is also a modified Wisconsin blade. The tongue is straight, and the flange is large and circular. Compared with the Wisconsin blade, the flange is straighter and runs parallel to the tongue and the tip is wider. It is designed primarily for use in infants.



Fiber Optic image shown

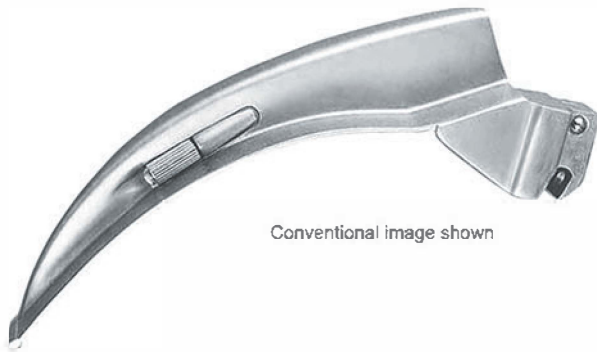
Code	Description	Blade Number	Size
TWS 84-1004/72	Premature	00	65mm
TWS 84-1004/73	Neonate	0	76mm
TWS 84-1004/74	Infant	1	102mm
TWS 84-1004/75	Small Child	1.5	115mm

Code	Description	Blade Number	Size
TWS 84-1004/76	Premature	00	65mm
TWS 84-1004/77	Neonate	0	76mm
TWS 84-1004/78	Infant	1	102mm
TWS 84-1004/79	Small Child	1.5	115mm

Code	Description	Blade Number	Size
TWS 84-1004/63	Infant	1	95mm
TWS 84-1004/64	Child	2	108mm
TWS 84-1004/65	Medium Adult	3	135mm
TWS 84-1004/66	Large Adult	4	155mm

## Polio Blades, English Profile

The polio blade is also a modification of the Macintosh. The blade is offset from the handle at an obtuse angle: to allow intubation of patients in iron lung respirators or body jackets; for use after the anesthesia screen is in place; for patients with obesity, breast hypertrophy, kyphosis with severe barrel chest deformity, a short neck, or restricted neck mobility. Disadvantages of this blade are that little force can be applied and control is minimal.



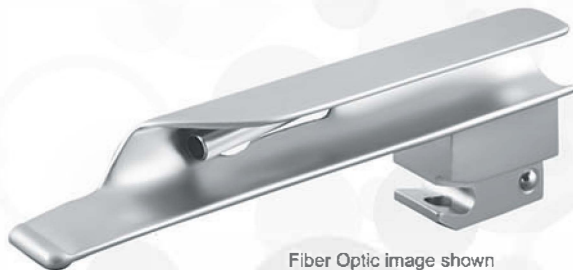
Conventional image shown

Code	Description	Blade Number	Size
TWS 84-1004/88	Child	2	105mm
TWS 84-1004/89	Medium Adult	3	130mm
TWS 84-1004/90	Large Adult	4	155mm

Code	Description	Blade Number	Size
TWS 84-1004/91	Child	2	105mm
TWS 84-1004/92	Medium Adult	3	130mm
TWS 84-1004/93	Large Adult	4	155mm

## Oxford Blade, English Profile

The Oxford infant blade has a straight tongue that curves up slightly at the tip. It has a U shape at the proximal end with the bottom limb of the U decreasing toward the tip so that the distal part is open. It tapers from a maximum width at the proximal end to the tip. Although intended primarily for newborns, it can be used for children up to the age of four years.



Fiber Optic image shown

Code	Description	Blade Number	Size
TWS 84-1004/94	Infant	1	102mm

Code	Description	Blade Number	Size
TWS 84-1004/95	Infant	1	102mm

## Miller Blades, Oxiport English Profile

The Oxiport Miller (Miller/port, oxyscope) blade has a built-in tube that allows delivery of oxygen during intubation. It may also be used for suctioning. Insufflations of oxygen during intubation using this blade has been found to lessen oxygen desaturation in spontaneously breathing anesthetized patients.



Conventional image shown

Code	Description	Blade Number	Size
TWS 84-1004/96	Premature	00	65mm
TWS 84-1004/97	Neonate	0	78mm

Code	Description	Blade Number	Size
TWS 84-1004/98	Premature	00	65mm
TWS 84-1004/99	Neonate	0	78mm

## Macintosh Blades, Reduced Flange, English Profile



Fiber Optic image shown

Code	Description	Blade Number	Size
TWS 84-1005/00	Child	2	105mm
TWS 84-1005/01	Medium Adult	3	135mm
TWS 84-1005/02	Extra Medium Adult	3.5	145mm
TWS 84-1005/03	Large Adult	4	155mm

Code	Description	Blade Number	Size
TWS 84-1005/04	Child	2	105mm
TWS 84-1005/05	Medium Adult	3	135mm
TWS 84-1005/06	Extra Medium Adult	3.5	145mm
TWS 84-1005/07	Large Adult	4	155mm



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TW Surgical



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