

Richard WOLF Blending Scope

Restores engine to flight conditions on wing • Reduces engine ground time drastically • Is compatible to standard borescope inspection equipment

Technoscopes

The Richard WOLF Blending Scope Kit



Richard WOLF Blending Scope

For years, Richard WOLF has been manufacturing borescopes specifically designed for the inspection of aircraft engines. Thanks to the skills and dedication of its craftsmen and engineers, borescopes made by Richard WOLF have gained their reputation for unsurpassed quality and durability. As a result, Richard WOLF borescopes are specified and recommended by the manufacturers of nearly all engines and are widely used by the leading operators.

Cooperation with manufacturers of jet engines and operators has led not only to the development of optical tools which offer the maximum in resolution and brightness, but also gave birth to the Richard WOLF Blending Scope, a completely new device which is a

valuable asset to everyone responsible for safe and cost efficient engine operation.

Engine Removal Due to FOD

Among all operators it is well known that Un-scheduled Engine Removal (UER) is a costly but unavoidable procedure in their daily work. Even the highest standards in design and manufacture of modern jet engines as well as in maintaining them cannot protect the engines from external damage. One of the reasons for an UER is Foreign Object Damage (FOD) of the engine blades, e.g., in the High Pressure Compressor (HPC).

Until now, when FOD has occurred, there was no way to correct the damage other than taking the engine off wing and disassembling it. The damaged blades were replaced, the engine had to be re-assembled and run in the test

cell. Everyone is well aware of the time, effort and money which is involved in this procedure.

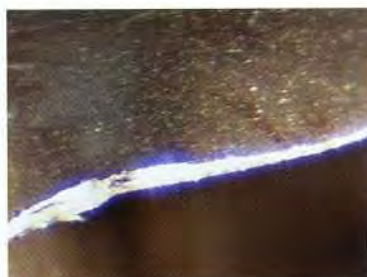
The Richard WOLF Blending Scope: Working principle

The Richard WOLF Blending Scope is built like a traditional borescope. Its shaft is inserted through one of the standard borescope parts with the tool extended. To engage the blending tip, just position it at about 90°. A motor drives the tip up to several thousand rpm. The blending process is observed through a high resolution optical lens system either by direct vision through the eyepiece (Richard WOLF standard) or via any standard industrial video camera system. A wide range of tools for cutting, grinding, polishing and brushing are available in different lengths and can be fitted to the unique patented miniature drive tool.

The Richard WOLF Blending Scope is an all-rigid design which enables the user to exert the working force directly on the damaged object and to "feel" the blending process. No loss occurs from flexible parts. For optimum vision the optical system can be moved within the shaft. Tools can be changed within a few seconds without affecting the optical system, and are secured in a positive manner against loss in the engine.

The Richard WOLF Blending Scope offers a variety of technical advantages:

- high precision handling • unsurpassed Richard WOLF image quality • ideal field of view • different tools for optimum efficiency



- simple tool change • working angle adjustable for optimum access • simple way of measuring damage and blending result • observation position adjustable for different tool lengths • rpm adjustable • simple design, small size, light weight • can be used with and without video • compatible to all standard borescope equipment.

The Blending Device

incorporates motor handle with remote control, steering device for the tip and the optical system.

The Borescope

has been designed and optimized specifically for the observation of the blending process. Light cables can be connected via a standard light plug. The Richard WOLF eyepiece allows for attachment of nearly any video equipment.

The Tool Set

consists of a variety of tools which vary in type, shape and length and are designed for each engine individually.


The Power Unit

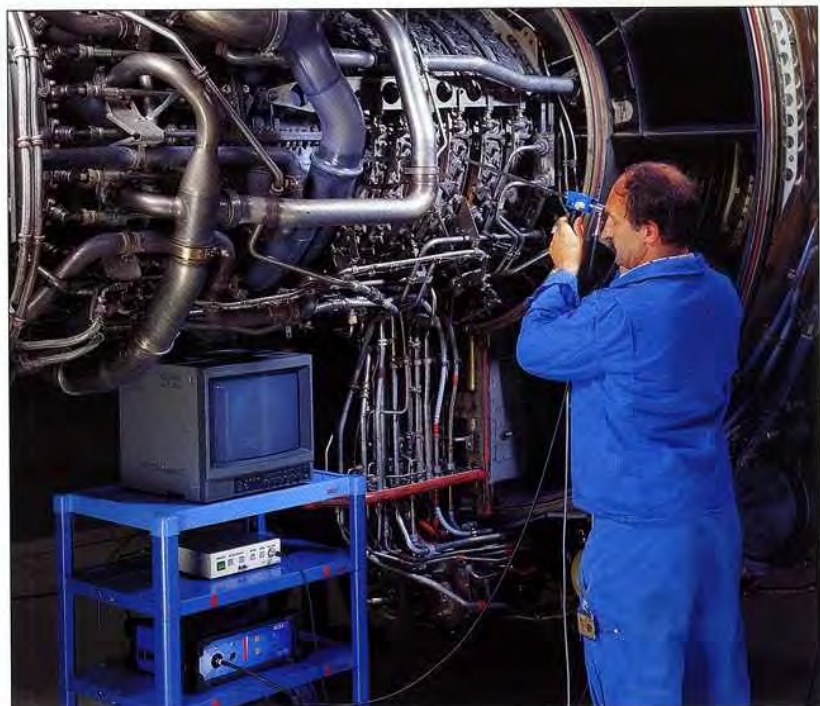
matches to any current source between 100 - 240 VAC and 50 - 400 Hz.

Accessories and Spare Parts

are all included in the Basic Kit and carrying case.

Please ask for detailed data sheets on the WOLF Blending Scope Kits designed for your engines

 We gratefully acknowledge the excellent cooperation with Lufthansa Technik, Frankfurt.





Rigid Technoscopes
(Borescopes)



Flexible Technoscopes



Optical accessories



Light sources



Video documentation

The WOLF Technoscope program also includes:

Rigid Technoscopes/Borescopes
Ø 1.9 mm to 10 mm

Rigid swivel prism Technoscopes
Ø 8, 10 and 16 mm

Flexible Technoscopes with exchangeable objective heads
Ø 6.3 mm to 11.5 mm

Flexible Technoscopes with fixed head
Ø 1.6 mm to 11 mm

Special borescopes for turbines

Extendable rigid Technoscope Ø 15 mm, extendable to 10 m length with 20 W bulb illumination

Panoramic Technoscope 12 mm

Special Technoscopes for the automobile industry and workshops

Mirror attachment for 0°-Technoscopes

Pliable Technoscope Ø 0.6 mm

Special Borescope Kits for aircraft engines

Please ask for specialized brochures!

RICHARD WOLF GmbH · PBox 1164 · D-75434 Knittlingen · Phone ++49 7043 - 35-222 · Fax ++49 7043 - 930109

AUSTRIA:
RICHARD WOLF Austria
Ges.m.b.H.
Lederergasse 32
A-1082 Wien
Tel.: 0 222-405 62 19
Fax: 0 222-406 70 84

BELGIUM:
N.V. Endoscopie
RICHARD WOLF Belgium S.A.
Industriezone Drogen, Landegemstraat 6
B-9031 Gent-Drogen
Tel.: 09-282.92.15
Fax: 09-282.92.16

FRANCE:
RICHARD WOLF France S.A.R.L.
Rue Daniel Berger
Z.A.C. La Neuville
F-51100 Reims
Tel.: (03)-26.87.02.89
Fax: (03)-26.87.60.33

UK:
RICHARD WOLF UK Ltd
Waterside Way
Wimbledon
SW17 0HB
Tel.: 0181-944 7447
Fax: 0181-944 1311

USA:
RICHARD WOLF
Medical Instruments Corp.
353 Corporate Woods Parkway
Vernon Hills, Illinois 60061
Tel.: 847-913 1113
Fax: 847-913 1489

Blending Scope TBS-6

Compl. Kit, diameter 6 mm, **Universal Use** and **IAE V 2500**
Order-No. **5.06040.00** (for compl. Kit, consisting of:)

Technical Data

1. Blending Device TBS 06/40

Type and order-no.	Diameter	Working length	Total length	Adjustable working angle	Supply voltage	Speed [R.p.m.]
5.06040.001	6 mm	400 mm	500 mm	80°- 105°	0 ... 24 V DC	0 - 5000

2. Borescope for TBS 06/40

Type and order-no.	Suitable for Blending device	Diameter	Working length	Direction of view	Field of view
1.27047.07	5.06040.001	2.7 mm	475 mm	70°	80°

3. Grinding Tool Kit universal complete, for HPC, incl. Box

Type and order-no. compl. kit	Suitable for blending device	Total pieces of grinding tools	Different lengths	Different forms
5.06001.123	5.06040.001	30	18	3

4. Contact Measuring Device CMS-06/40

Type and order-no.	Diameter	Working length	Total length	Channel diameter	Adjustable working angle
5.00640.001	6 mm	400 mm	500 mm	1.6 mm	70°- 105°

5. Borescope for CMS-06/40

Type and order-no.	Suitable for Contact Measuring Scope	Diameter	Working length	Direction of view	Field of view
1.27047.07	5.00640.001	2.7 mm	475 mm	70°	80°

6. Measuring Tool Kit complete incl. Box

Type and order-no. compl. kit	Suitable for Contact Measuring Scope	Dimensions of template	Diameter of flex. shaft	Length of the probe
5.00640.134	5.00640.001	3.5 x 3.5 mm (0.5 mm scale)	1.2 mm	600 mm

7. Carrying Case Type and Order No. 3.13005.08

Design	robust Aluminium
Total weight of case incl. contents	10 kg
Dimensions of the case (W x H x D)	780 x 170 x 330 mm

8. Power Supply (Transformer), Type and Order No. 5.00024.95

Voltage	Frequency	Power consumption	Current rating	Voltage output	Fuse
100 - 240 V~	47 - 440 Hz	max. 40 VA	160 - 400 mA	max. 24 V DC	2x T1A/250V
Weight			1,2 kg		
Dimensions (W x H x D)			142 x 75 x 220 mm		
Electrical safety (EMC)			CE		

9. Accessories

Angled attachment (tubus movable 0° - 150°)	Order no . 1.48000.96
Video objective lens (C-mount) f=32 mm	Order no. 4.85261.322
Eyepiece adapter for connecting standard Ø32 mm accessories to R.WOLF borescope eyepiece	Order no. 1.52000.11
Light guide 2,300 mm long	Order no. 1.40630.35

10. Service Tools

Hook tool for assembly drive belt	15 244.035
Flat screw driver	9500.041
Phillips screw driver	9500.042

11. General Conditions of the Blending Scope Kit 5.06040.00

Operation conditions	-5° to +50 °C 10% to 90% rel. humidity
Storage- and transport conditions	-20° to + 70°C 10% to 95% rel. humidity

12. Spare Parts

Spare drive belts (1 pack = 5 pcs.)	Order no.: 5.00040.503
Fuse T1A/250V (1 pack = 10 pcs.)	Order no.: 64268.002
Mains cable, 3 meters long	Order no.: 2440.03

**Blending Scope kits for CF 6, CFM 56, GE 90 and RR RB211/Trent
please ask for data sheets.
For Pratt & Whitney PW 2000/4000 pls. ask P&W customer support.**

Headoffice and Factory:

Richard WOLF GmbH, P.O.Box 1164, D-75434 Knittlingen, Germany
☎ ..49 - 7043 - 35 222 Fax ..49 - 7043 – 35-1220
eMail: riwotech@richard-wolf.com
Internet: www.blending-scope.com and www.richard-wolf.com

Subsidiary companies: in Austria, Belgium (BENELUX), France, India, U.A.E., U.K. and USA

Blending Scope TBS-10

Compl. Kit for General Electric-Engines **CF-6** Series and **LM 2500**, in conformity to GE Drawing MSE-79

Order-No. **5.10036.00** (for compl. Kit, consisting of:)



Technical Data

1. Blending Device

Type and order-No.	Diameter	Effective working length	Total length (without Borescope)	Speed [R.p.m.]
5.10036.001	10 mm	460 mm	560 mm	0 - 5000

2. Borescope

Type and order-No.	suitable for Blending Device	Diameter	Direction of view	Field of view	Working length
6.05053.08	5.10036.001	5 mm	80°	85°	530 mm
OPTION: 6.05053.38	5.10036.001	5 mm	80°	30°	530 mm

The a.m. option is a high magnification borescope and is used additional for using of long grinding tools !!

3. Grinding Tool Kit complete for G.E. CF-6 series (HPC), incl. Box

Type and order-No. compl. kit	Suitable for Blending Device	Total pieces of G.E.-approved grinding tools	Various Lengths	Various forms
5.00000.123	5.10036.001	20	6	6

4. Measuring Tool Kit complete for G.E. CF-6 series, incl. Box

Type and order-No. compl. kit	Suitable for Blending Device	Various lengths of sockets	Size of measurement plate
5.00000.134	5.10036.001	3	7 x 7 mm square

5. Power Supply (Transformer)

Type and order no.	Voltage	Frequency	Power consumption	Current rating	Voltage output
5.00024.95	100 - 240 V~	47 - 440 Hz	max. 40 VA	160 - 400 mA	max. 24 V DC

Weight	1,2 kg
Dimensions (W x H x D)	140 x 75 x 220 mm
Fuse	2 x T1A / 250V
Electro magnetic compatibility (EMC)	CE

6. Carrying case for the compl. kit

Order no.	3.13005.08
Kind of case	robust aluminium with aluminium frames
Total weight of case incl. contents	10 kg
Dimensions of the case (W x H x D)	780 x 170 x 330 mm

7. Service tools

Hook tool for pull-in the drive belt	15.244.035
Flat screw driver	9500.041
Philips screw driver	9500.042
Fork wrench tool for mount the grinding tools	9500.043

8. General conditions of the Blending Scope Kit

Operation conditions	-5° bis +50 °C 10% bis 90% rel. humidity
Storage- and transport conditions	-20° bis + 70°C 10% bis 95% rel. humidity

9. Accessories and Spare Parts

Light transmitting cable, 2.3 m long	Order no.	1.40630.35
Mains cable 3 meters long	Order no.:	2440.03
Spare drive belts (1 pack = 5 pcs.)	Order no.:	5.00036.501
Fuse T1A/250 (1 pack = 10 pcs.)	Order no.:	64268.002

**Blending Scope kits for CFM 56, GE 90, V2500, and RR RB211/Trent
please ask for data sheets.
For Pratt & Whitney PW 2000/4000 pls. ask P&W customer support.
A new Ø 6 mm Blending Scope for universal use, but for small
engines only, is now available !**

Headoffice and Factory:

Richard WOLF GmbH, P.O.Box 1164, D-75434 Knittlingen, Germany

☎ +49 - 7043 - 35 222 Fax +49 - 7043 – 35-1220

eMail: riwotech@richard-wolf.com

Internet: www.blending-scope.com and www.richard-wolf.com

Subsidiary companies: in Austria, Belgium (BENELUX), France, India, U.A.E., U.K. and USA

Blending Scope TBS-8

Compl. Kit for all CFMI-Engines **CFM 56 -2, -3, -5 and -7**
in conformity to CFMI approval for HPC under ref. 5-08036-00
Order-No. **5.08236.001** (for compl. Kit, consisting of:)



Technical Data

1. Blending Devices

Type and order-nos.	HPC-stages	Diameters	Working lengths	Total lengths	Speed [R.p.m.]
5.08022.001	1	8 mm	220 mm	320 mm	0 - 5000
5.08036.001	2 - 9	8 mm	360 mm	460 mm	0 - 5000

2. Borescopes

Type and order-nos.	suitable for blending devices	Diameters	Working lengths	Direction of view	Field of view
6.04030.07	5.08022.001	4 mm	300 mm	70°	80°
6.04044.07	5.08036.001	4 mm	440 mm	70°	80°

3. Grinding Tool-Kit complete for CFM-56 Engines (HPC) incl. Box

Type and order-no. compl. kit	Suitable for blending devices	Total pieces of G.E.-approved grinding tools	Various lengths	Various forms
5.00101.123	5.08022.001 5.08036.001	24	11	4

4. Measuring Tool Kit complete for CFM-56 Engines, incl. Box

Type and order-no. compl. kit	Suitable for blending devices	Various lengths of sockets	Size of measurement plate
5.00101.134	5.08022.001 5.08036.001	5	5 x 4.5 mm square

5. Power Supply (Transformer), Type and Order no. 5.00024.95

Voltage	Frequency	Power consumption	Current rating	Voltage output	Fuse
100 - 240 V~	47 - 440 Hz	max. 40 VA	160 - 400 mA	max. 24 V DC	2x T1A/250V

Weight	1,2 kg
Dimensions (W x H x D)	142 x 75 x 220 mm
Electro magnetic compatibility (EMC)	CE

6. Carrying Case Type and Order No. 3.13005.08

Kind of case	robust Aluminium with aluminium frames
Total weight of case incl. contents	10 kg
Dimensions of the case (W x H x D)	700 x 170 x 350 mm

7. Service Tools

Hook tool for pull in the drive belt	15 244.035
Flat screw driver	9500.041
Phillips screw driver	9500.042
Fork wrench tool for mount the grinding tools	9500.043

8. General Conditions of the Blending Scope Kit 5.08236.001

Operation conditions	-5° bis +50 °C 10% bis 90% rel. humidity
Storage- and transport conditions	-20° bis + 70°C 10% bis 95% rel. humidity

9. Accessories and Spare Parts

Mains cable 3 meters long	Order no. 2440.03
Spare drive belts (1 pack = 5 pcs.)	Order no. for short blending device: 5.00022.502 Order no. for long blending device: 5.00036.502
Fuse T1A/250V (1 pack = 10 pcs.)	Order no. 64268.002

**Blending Scope kits for CF-6, GE 90, V2500, and RR RB211/Trent
please ask for data sheets.**

For Pratt & Whitney PW 2000/4000 pls. ask P&W customer support.

**A new Ø 6 mm Blending Scope for universal use, but for small
engines only, is now available !**

Headoffice and Factory:

Richard WOLF GmbH, P.O.Box 1164, D-75434 Knittlingen, Germany

+49 - 7043 - 35 222 Fax +49 - 7043 – 35-1220

eMail: riwotech@richard-wolf.com

Internet: www.blending-scope.com and www.richard-wolf.com

Subsidiary companies: in Austria, Belgium (BENELUX), France, India, U.A.E., U.K. and USA

Blending Scope TBS-11

Compl. Kit for General Electric engine GE 90
in conformity to G.E./SNECMA approval for HPC stage 1st
Order-No. 5.11074.00 (for compl. Kit, consisting of:)



Technical Data

1. Blending Device

Type and order-No.	HPC-stage	Diameter	Working length	Total length	Speed [R.p.m.]
5.11074.003	1 st only	11 mm	740 mm	840 mm	0 - 5000

2. Borescope

Type and order-Nos.	suitable for Blending Device	Diameter	Direction of view	Field of view	Working length
6.06082.3861	5.11074.003	5.8 mm	80°	30°	820 mm

3. Grinding and Measuring Tool Kit compl. for GE 90 engine (HPC stage 1st) incl. Box

Type and Order No. compl. Kit	Suitable only for Blending Device	Total pieces of G.E.-approved grinding tools	Various lengths	Various forms
5.00001.223	5.11074.003	20	4	5
		Total pieces of G.E.-approved measurement tools	Various lengths	Size of measurement plates each
		4	4	7 x 7 mm square
Fork wrench tool for mounting and securing the tools on the tip			2 pcs.	

4. Power Supply (Transformer)

Type and order no.	Voltage	Frequency	Power consumption	Current rating	Voltage output
5.00024.95	100 - 240 V~	47 - 440 Hz	max. 40 VA	160 - 400 mA	max. 24 V =

Weight	0,7 kg
Dimensions (W x H x D)	125 x 75 x 220 mm
Fuse	2 x T1A / 250V
Electrical safety and Electro magnetic compatibility (EMC)	CE (IEC335-1, EN 55011/50082-2)
Protection	IP20

5. Carrying case

Type and order no.	3.13005.09
Kind of case	robust aluminium with aluminium frames
Total weight of case incl. contents	10 kg
Dimensions of the case (W x H x D)	950 x 170 x 330 mm

6. Service tools

Hook tool for pull in the drive belt	Order no. 15 244.066
Flat screw driver	Order no. 9500.041
Phillips screw driver	Order no. 9500.042

7. General conditions of the Blending Scope Kit

Operation conditions	-5° bis +50 °C 10% bis 90% rel. humidity
Storage- and transport conditions	-20° bis + 70°C 10% bis 95% rel. humidity

8. Accessories

Light guide 2,300 mm long, outside very flex. silicone hose	Order no.: 1.40630.35
Angled attachment movable shaft	Order no.: 1.48000.96
Video objective lens (C-mount)	Order no.: 4.85261.272
Eye piece adapter 32 mm	Order no. 1.52000.11
Light guide adapter for Olympus light sources	Order no.: 8096.811
Light guide adapter for US light sources	Order no.: 8083.10

9. Spare Parts

Mains cable, 3 meters long	Order no.: 2440.03
Sleeve nut (for spare)	Order no.: 15009.208
Spindle (for spare)	Order no. 15302.027
Spare drive belts (1 pack = 5 pcs.)	Order no.: 5.00074.501
Fuse T1A/250V (1 pack = 10 pcs.)	Order no.: 64268.002
Fork wrench tool for mount the grinding tools (for spare)	Order no. 9500.043

**Blending Scope kits for CF-6, CFM 56, GE90 (stages 2-9), V2500, and RR RB211/Trent please ask for special data sheets.
For Pratt & Whitney PW 2000/4000 pls. ask P&W customer support.
A new Ø 6 mm Blending Scope for universal use, but for small engines only, is now available too!**

Headoffice and Factory:

Richard WOLF GmbH, P.O.Box 1164, D-75434 Knittlingen, Germany
 **+49 - 7043 - 35 222** **Fax +49 - 7043 – 35-1220**
eMail: riwotech@richard-wolf.com
Internet: www.blending-scope.com and www.richard-wolf.com

Subsidiary companies: in Austria, Belgium (BENELUX), France, India, U.A.E., U.K. and USA

Blending Scope TBS-10

Compl. Kit for General Electric engine **GE 90**

in conformity to G.E./SNECMA approval for HPC stages 2 - 9

Order-No. **5.10046.001** (for compl. Kit, consisting of:)

Technical Data



1. Blending Device

Type and order-No.	HPC-stages	Diameter	Working length	Total length	Speed [R.p.m.]
5.10036.001	2 - 9	10 mm	460 mm	560 mm	0 - 5000

2. Borescope

Type and order-Nos.	suitable for Blending Device	Diameter	Direction of view	Field of view	Working length
6.05053.08	5.10036.001	5 mm	80°	85°	530 mm
OPTION: 6.05053.38	5.10036.001	5 mm	80°	30°	530 mm

The a.m. option is a high magnification borescope and is used additional for using of long grinding tools !!

3. Grinding and Measuring Tool Kit compl. for GE 90 engine (HPC stages 2-9) incl. Box

Type and Order No. compl. Kit	Suitable for Blending Device	Total pieces of G.E.- approved grinding tools	Various lengths	Various forms
5.00001.123	5.10036.001	16	6	5
		Total pieces of G.E.- approved measurement tools	Various lengths	Size of measurement plates
		5	5	5 x 5 mm square

4. Power Supply (Transformer)

Type and order no.	Voltage	Frequency	Power consumption	Current rating	Voltage output
5.00024.95	100 - 240 V~	47 - 440 Hz	max. 40 VA	160 - 400 mA	max. 24 V =

Weight	0,7 kg
Dimensions (W x H x D)	125 x 75 x 220 mm
Fuse	2 x T1A / 250V
Electro magnetic compatibility (EMC)	CE

5. Carrying case

Type and order no.	3.13005.08
Kind of case	robust aluminium with aluminium frames
Total weight of case incl. contents	8 kg
Dimensions of the case (W x H x D)	780 x 170 x 330 mm

6. Service tools

Hook tool for pull in the drive belt	15 244.035
Flat screw driver	9500.041
Phillips screw driver	9500.042
Fork wrench tool for mount the grinding tools	9500.043

7. General conditions of the Blending Scope Kit

Operation conditions	-5° bis +50 °C 10% bis 90% rel. humidity
Storage- and transport conditions	-20° bis + 70°C 10% bis 95% rel. humidity

8. Accessories and Spare Parts

Mains cable, 3 meters long	Order no.:	2440.03
Light transmitting cable, 2.3 m long	Order no.:	1.40630.35
Spare drive belts (1 pack = 5 pcs.)	Order no.:	5.00036.501
Fuse T1A/250V (1 pack = 10 pcs.)	Order no.:	64268.002

**Blending Scope kits for CF-6, CFM 56, V2500, and RR RB211/Trent
please ask for data sheets.**

For Pratt & Whitney PW 2000/4000 pls. ask P&W customer support.

**A new Ø 6 mm Blending Scope for universal use, but for small
engines only, is now available !**

Headoffice and Factory:

Richard WOLF GmbH, P.O.Box 1164, D-75434 Knittlingen, Germany

☎ +49 - 7043 - 35 222 Fax +49 - 7043 – 35-1220

Email: riwotech@richard-wolf.com

Internet: www.blending-scope.com and www.richard-wolf.com

Subsidiary companies: in Austria, Belgium (BENELUX), France, India, U.A.E., U.K. and USA

Blending Scope TBS-8

Compl. Kit for Rolls Royce Engines **RB211** and **Trent**
in conformity to RR approval no. HU 81862 for HPC section

Order-No. **5.08036.332**

The compl. kit consisting of:



RR vendor no. WF12

Technical Data

1. Blending Device

Type and order-no.	Diameter	Working length	Total length	Speed [R.p.m.]
5.08036.002	8 mm	360 mm	460 mm	0 - 5000

2. Borescope

Type and order-No.	suitable for Blending Device	Diameter	Direction of view	Field of view	Working length
6.04044.07	5.08036.002	4 mm	70°	80°	440 mm

3. Grinding Tool Kit compl. incl. 2 boxes

Type and Order No. compl. Kit	Colour of PVC Box	Suitable for Blending Device	Total pieces of RR-approved grinding tools	Various length	Various forms
5.00302.123	red	5.08036.002	21	9	3
5.00302.223	blue	5.08036.002	21	7	3

4. Power Supply (Transformer)

Type and order no.	Voltage	Frequency	Power consumption	Current rating	Voltage output
5.00024.95	100 - 240 V~	47 - 440 Hz	max. 40 VA	160 - 400 mA	max. 24 V =

Weight	0,7 kg
Dimensions (W x H x D)	125 x 75 x 220 mm
Fuse	2 x T1A / 250V
Electro magnetic compatibility (EMC)	CE (IEC335-1, EN55011/50082-2)
Protection	IP20

5. Carrying case

Type and order no.	3.13005.08
Kind of case	robust aluminium with aluminium frames
Total weight of case incl. contents	10 kg
Dimensions of the case (W x H x D)	870 x 170 x 330 mm

6. Service tools

Hook tool for insertion of the drive belt	15 244.035
Flat screw driver 2 mm	9500.045
Flat screw driver 3 mm	9500.046
Phillips screw driver	9500.047
Fork wrench tool for mount the grinding tools	9500.043

7. General conditions of the Blending Scope Kit

Operation conditions	-5° bis +50 °C 10% bis 90% rel. humidity
Storage- and transport conditions	-20° bis + 70°C 10% bis 95% rel. humidity

8. Accessories

Eye piece adapter for 32 mm oculars	Order no.:	1.52000.11
Video objective lens (c-mount)	Order no.:	4.85261.272
Light guide adapter for Olympus light sources	Order no.:	8096.811
Light guide adapter for ACM light sources	Order no.:	8083.10

9. Spare Parts

Drive head spindle	Order no.:	15336.022
Sleeve nut for borescope fixture	Order no.:	15009.208
Spare drive belts (1 pack = 5 pcs.)	Order no.:	5.00036.502
Spare fuses T1A/250V (1 pack = 10 pcs.)	Order no.:	64268.002
Mains cable, 3 meters long	Order no.:	2440.03

**Blending Scope kits for CF-6, CFM 56, GE 90 and V2500
please ask for data sheets.
For Pratt & Whitney PW 2000/4000 pls. ask P&W customer support.
A new Ø 6 mm Blending Scope for universal use, but for small
engines only, is now available !**

Headoffice and Factory:

Richard WOLF GmbH, P.O.Box 1164, D-75434 Knittlingen, Germany

+49 – (0)7043 - 35 222

Fax +49 – (0)7043 – 35-1220

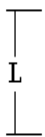



E-mail: riwotech@richard-wolf.com

Internet: www.blending-scope.com and www.richard-wolf.com

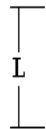











Subsidiary companies: in Austria, Belgium (BENELUX), France, India, U.A.E., U.K. and USA

Grinding Tools for the Blending Scope **TBS-6** series (Shaft- \varnothing 6 mm) **Kit-No. 5.06001.123**

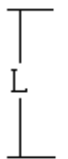

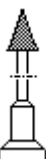











Stand 18.Nov.2004

 Total Length L	 Diamond rounded cutter form 6	 Diamond cone cutter form 7	 Polisher form 19
4 mm	5.06004.006		
5 mm	5.06005.006		
6 mm	5.06006.006	5.06006.007	
7 mm		5.06007.007	
8 mm	5.06008.006	5.06008.007	
10 mm	5.06010.006	5.06010.007	
12 mm	5.06012.006	5.06012.007	
13 mm			5.06013.019
15 mm	5.06015.006	5.06015.007	5.06015.019
17 mm			5.06017.019
20 mm	5.06020.006	5.06020.007	5.06020.019
23 mm			5.06023.019
25 mm	5.06025.006	5.06025.007	
26 mm			5.06026.019
29 mm			5.06029.019
30 mm	5.06030.006	5.06030.007	
32 mm			5.06032.019
35 mm	5.06035.006	5.06035.007	5.06035.019

Grinding Tools for the Blending Scope **TBS-8** series (Shaft- \varnothing 8 mm) Mrz. 2006

											
Total Length L	Carbide coarse cutter form 1	Carbide ball cutter form 3	Polisher ball form 4	Diamond cutter form 6	Diamond cone cutter form 7	Diamond ball cutter form 8	Polisher ball (fine) form 9	Diamond conical cutter form 10	Carbide ball cutter form 14	Diamond cone cutter form 17	Diamond cone cutter form 18
5 mm				5.00105.006							
6 mm				5.00106.006	5.00106.007		5.00106.009				
7 mm				5.00107.006	5.00107.007						
8 mm				5.00108.006	5.00108.007		5.00108.009				
9 mm				5.00109.006	5.00109.007						
10 mm				5.00110.006	5.00110.007						
11 mm				5.00111.006	5.00111.007						
12 mm				5.00112.006	5.00112.007		5.00112.009				
14 mm											
15 mm											
16 mm				5.00116.006	5.00116.007		5.00116.009				
17 mm			5.00417.004			5.00417.008	5.00417.009				
18 mm											
20 mm	5.00320.001	5.00320.003	5.00320.004	5.00120.006	5.00120.007	5.00320.008	5.00420.009	5.00320.010			
25 mm	5.00325.001	5.00325.003	5.00325.004			5.00325.008		5.00325.010			
25 mm						5.00125.008	5.00125.009				
27,5 mm											
29 mm						5.00429.008	5.00429.009				
30 mm	5.00330.001	5.00330.003	5.00330.004			5.00330.008		5.00330.010			
35 mm	5.00335.001	5.00335.003	5.00335.004			5.00335.008		5.00335.010			
40 mm	5.00340.001	5.00340.003	5.00340.004			5.00340.008		5.00340.010			
40 mm						5.00440.014	5.00440.009				
45 mm	5.00345.001	5.00345.003	5.00345.004			5.00345.008		5.00345.010			
50 mm						5.00150.008	5.00150.009				
50 mm	5.00350.001	5.00350.003	5.00350.004			5.00350.008		5.00350.010			
51 mm						5.00451.008	5.00451.009				
55 mm	5.00355.001	5.00355.003	5.00355.004			5.00355.008		5.00355.010			
60 mm	5.00360.001	5.00360.003	5.00360.004			5.00360.008		5.00360.010			
65 mm	5.00365.001	5.00365.003	5.00365.004			5.00365.008		5.00365.010			

Grinding Tools for the Blending Scopes **TBS-10 / TBS-11** series (Shaft- \varnothing 10 / 11 mm)

													
Length L	Carbide coarse cutter form 1	Diamond cone cutter form 2	Steel ball cutter form 3	Polisher ball (fine) form 4	Carbide heavy coarse cutter form 5 (bull nose)	Diamond cutter form 6	Diamond cone cutter form 7	Diamond ball cutter form 8	Polisher ball (fine) form 9	Diamond conical cutter form 10	Diamond cone cutter form 12	Diamond mini ball cone cutter form 13	Carbide ball cutter form 14
8 mm													
10 mm													
11 mm						5.00211.006	5.00211.007		5.00211.009				
12 mm											5.00012.012	5.00012.013	
13 mm						5.00213.006	5.00213.007		5.00213.009				
15 mm	5.00015.001	5.00015.002	5.00015.003	5.00015.004		5.00215.006	5.00215.007		5.00215.009				
16 mm											5.00016.012	5.00016.013	
17 mm						5.00217.006	5.00217.007		5.00217.009				
19 mm		5.00219.002						5.00219.008					
20 mm	5.00020.001	5.00020.002	5.00020.003	5.00020.004									
21 mm		5.00221.002						5.00221.008	5.00221.009	5.00221.010			
40 mm	5.00040.001	5.00040.002	5.00040.003	5.00040.004									
55 mm	5.00055.001	5.00055.002	5.00055.003	5.00055.004	5.00055.005								
60 mm	5.00260.001	5.00260.002		5.00260.004				5.00260.008					5.00260.014
70 mm	5.00270.001	5.00270.002		5.00270.004				5.00270.008					5.00270.014
80 mm	5.00280.001	5.00280.002		5.00280.004				5.00280.008					5.00280.014
90 mm	5.00290.001	5.00290.002		5.00290.004				5.00290.008					5.00290.014