



The side-by-side shotgun does, without doubt, enjoy greatest popularity with hunters of small game.

There is long tradition of manufacturing it in Suhl. Thanks to tried and tested technology it was possible to bring together the complete range of transverse single shot weapons through side-by-side shotguns, side-by-side rifle/shotgun combinations and side-by-side rifles in Anson-Deeley to side lockwork editions, from .410 caliber to .500 caliber NE in one shooting system.

Perfect weapon balance, elegant appearance and highest technical precision are standards that the Suhl rifle makers put into practice in their weapon system.

# TECHNICAL DATA

## 1

### Barrels

- Model 40E/41E/50E/60E/61E  
12/70, 12/76, 16/70, 20/76, 28/70, 36/76  
caliber  
(.410)
- Model 140E/150E/160E/141/161/140A/  
160A rifle caliber as per delivery program  
various rifle calibers  
(Bergstutzen version) available on request
- Model 240E/250E/260E rifle caliber  
as per delivery program, shot caliber  
20/76
- choke bore depending on choice of  
customer (see weapon passport)
- shell discharge with ejectors for  
models without ejectors via  
shell extractor

### Firing

- indirect firing via separate firing-  
pins

### System

#### Model 40E/140E/240E/41E/140A

- Anson & Deeley lock with top  
levers
- Greener lock combined with double  
conventional bottom bite
- Automatic safety or  
manual safety combined with  
intercepting safety sear with model  
40E/41E
- Cocking status via cocking indicators
- Double or single selective trigger  
for model 40E/41E
- Double trigger with rear-set trigger or  
single non-selective trigger for model  
140E/240E/141E

#### model 50E/150E/250E

- As above, but including inset  
side plates

#### model 60E/160E/260E/61E/161E/160A

- Side lock option
- Greener lock combined with double  
conventional bottom bite
- Automatic safety and  
firing pin levers

- Cocking status via  
trigger shaft marking
- Double trigger with  
rear-set trigger

### Stock

- Selected walnut  
according to the model
- Stock according to the model  
Pistol grip with/without cheek-piece with  
straight stock or  
hog back comb or  
English straight stock
- Front stock with spring bolt
- Non-slip grain pattern on stock and  
front stock
- Elegantly scalloped stock  
or large surface for side-plates/  
side locks
- plastic gunstock pad
- grip cap

# ASSEMBLY

## 2

The gun consists of the following major parts (Fig. 1):

- Barrel(1)
- Front stock(2)
- Breech block and stock (3)

### Assemble

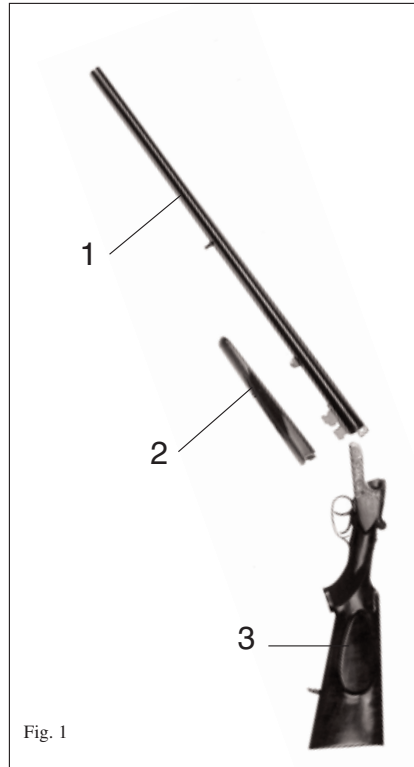
The weapon is supplied by the manufacturer in separate parts as follows:

- Barrel with front stock attached and
- Breech block and stock

The gun is assembled in the following order:

Remove the front stock from the barrel (Fig. 2)

- Take the barrel(1) in the left hand
- Open the safety catch clip (2) with the index finger on the right hand and remove fore-arm with a gentle tug.



# ASSEMBLY

## 2

### Attaching the barrel to the breech block (Fig. 3)

It is attached as follows:

- Hold the barrel in your left hand (1) just before the bite, while preferably holding the muzzle between your legs.
- Take the breech block and stock (2) by the neck of the stock in the right hand and insert the barrel in the breech block so that the hinged curve fits on to the hinge pin. The left index finger can be used as support.
- The thumb on the right hand presses the breech lever (3) back to the stop to the right. Simultaneously the breech block and stock are fixed to the stop on the barrel. The breech lever must be in the starting position or the locked position.

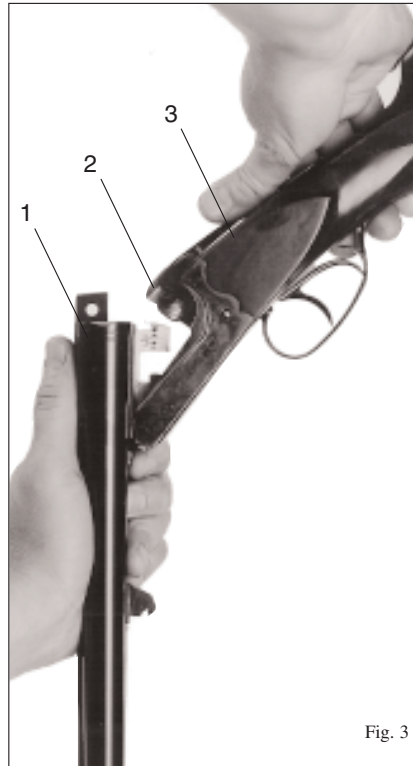


Fig. 3

### Attach front stock (Fig. 4)

Hold the gun in the left hand and attach to the stock. The trigger guard points to the right, the muzzle upwards.

- Using your right hand, attach the front stock by its hinged curve to the hinge on the breech block.
- The ends of the cocking lever must be put in the correct slots in the front stock.
- Press the front stock completely on the barrel if necessary by striking it lightly with the flat of your hand below the safety catch clip.
- The safety catch clip must completely fit into the depression in the safety catch.

## COCKING AND LOADING

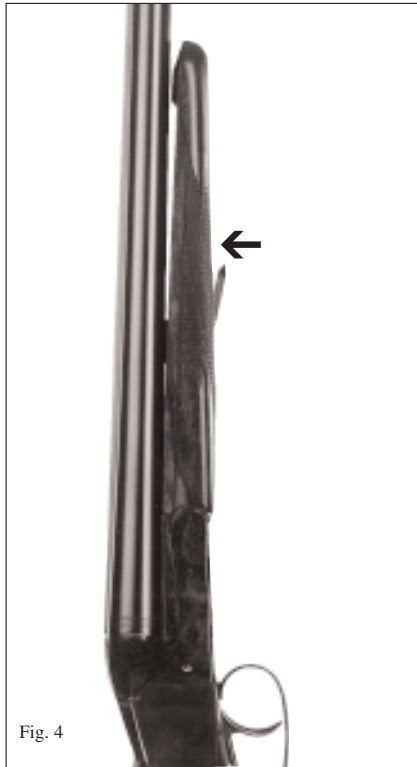


Fig. 4

- The right hand holds the butt, the left hand grips the front stock, the barrel is pointed forward and tipped slightly down.
- The right thumb releases the breech by turning the breech lever to the right.
- The breech block and stock are tipped with the right hand until there is a noticeable click.
- Load cartridge in the chamber of the downward pointing barrel.
- Bring the breech block and shaft up to the barrel using the right hand
- The breech lever must be in the start position or must be completely closed by hand.

### Important!

Before loading the gun ensure that the barrels are clear of oil and all foreign bodies. Do not slam the gun shut; do not use force! Only use ammunition that is approved for use with the gun

- in accordance with the information on the barrel!

## SETTING/RELEASING SAFETY CATCH

### (Fig. 5)

The safety slide is sited on the pistol grip (Fig. 5). The gun is automatically locked by moving the breech lever when opening the gun.

If the safety lock is in the back position and the "S" is clearly visible in front of the safety lock then the gun is locked.

The lock can be released manually by moving the safety slide forwards.

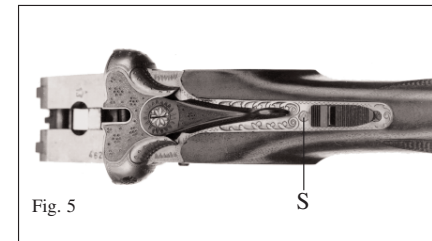


Fig. 5

## TRIGGER SYSTEM

# 5

The features of the individual model are described in point 1 – design characteristics. With double triggers the front trigger always operates the right barrel and the rear trigger the left barrel.

The double trigger models with set triggers have a set trigger on the front trigger. To cock the gun push the the front trigger forward with the thumb and index finger (cocked) until it has definitely clicked into place. The trigger is now spring-loaded in its hair trigger setting A minimum of force is required to fire the shot.

If you do not fire, point the gun at a suitable bullet trap and push the catch to position “S” = “safe”, then carefully hold the firing trigger (front trigger ) between the thumb and index finger and gently pull it back.

### **Beware!**

Only remove the trigger with the safety on.

### **Beware!**

The finer the trigger setting, the greater the risk of unintentionally firing a shot.

Where possible, do not adjust the manufacturer’s setting!

Check the weapon unloaded for the trigger setting to determine whether a shot will be fired if the stock cap or the pistol grip are struck.

In this case the trigger resistance is set too fine.

The trigger adjustment screw should be slightly loosened until the plug cannot be loosened any further with an impact test.

The adjusting screw is sited behind the trigger handle.

This test should be carried out before the onset of cold weather as a matter of course (specialist workshop).

With single non-selective trigger models the sequence is right barrel/

## SIGHT ADJUSTMENT

# 6

Every barrel has a specific sight setting.

Side-by-side shotguns or side-by-side shotguns with interchangeable barrels are fitted with a matt sight rail with a front sight.

Side-by-side rifle/shotgun combinations or side-by-side combinations with interchangeable barrels have a matt sight rail with folding rear sight.

Side-by-side shotguns or side-by-side shotguns with interchangeable barrels have a stand-alone sight and a rear sight inserted from the front.

If a telescopic sight is fitted, this completely replaces the sights mentioned above or can be used in conjunction with them.

# UNCOCKING

## 7

After firing a shot the gun is opened to expel shells or cartridges and then usually closed again. That means, in turn, the locking mechanisms are automatically cocked again.

Uncocking is necessary to avoid damaging the trigger springs. This is achieved as follows:

After removing the discharged shells or the removal of unfired cartridges dummy cartridges are loaded in the chamber. The gun is then closed, unlocked and uncocked using the triggers.

For models without ejectors and without auto-matic safety the bolts can be released as follows:

After removing the shells or cartridges the triggers of the open gun are operated and the gun is simultaneously closed.

# DISASSEMBLY

## 8

Cleaning the gun and packing (dispatch or transport) disassembly must be carried out as follows

- Barrel with front stock attached
- Breech block and stock

The following procedure should be followed

### Uncocking

Uncock as described above

### Removal of front stock (Fig. 6)

- Always hold the gun firmly by the stock with the barrel in the left hand.
- Open the safety catch with the index finger of the right hand and lift up the front stock with a gentle tap.

### Opening the barrel (Fig. 7)

- Hold the barrel with the left hand between the connector and the breech block.



Fig. 6



# DISASSEMBLY

## 8



Fig. 7

- The muzzle should be pointed downwards and it is advisable to grip the barrel between the legs .
- The right hand holds the stock and, after the thumb has opened the breech lever back to the stop, moves the breech block and from the barrel hinge.

Attaching the front stock to the barrel (Fig. 8)

- Hold the barrel in the left hand and place on a firm surface (e.g. wood).
- Grip the front stock and press down fully onto the barrel ; if necessary by striking it lightly with the flat of the hands between the hinge and the safety catch to attach the front stock.
- The safety catch clip must completely fit into the depression in the safety catch case .



Fig. 8

# MAINTENANCE AND CLEANING

## 9

### Cleaning

The barrels should be thoroughly cleaned after use to remove all firing residues before you can properly work on the barrel. To this end you should use a cleaning rod made of wood, glass fiber, brass (not steel) with an lug which cleaning rags, textile materials etc. can be attached to. Make sure that a suitable special cleaning rod is available for use with a diameter matching the rifle caliber. Do not roll the material too thickly as it is difficult to remove a cleaning rod that has been forced in and has become stuck. This may damage the interior of the barrel which could affect the firing performance of the gun.

If residues cannot be removed with the cleaning rod (lead deposits) then a brass wire brush head should be attached to the rod. Be careful when cleaning the barrel with the brush! If you are unable to remove the deposits using this method you should take the barrel to a specialist. The other (external) parts of the gun can be cleaned with a linen cloth (do not use cloths made of wool or synthetic materials). All surfaces should be thoroughly wiped down ensuring that all

moisture has been removed. Oil and grease residues should also be removed in a suitable manner.

### Caution!

Sweat from your hands can often cause rust deposits. You should take special care if you are susceptible to this. The best method is to hold the gun by the stock after cleaning and wipe down all steel parts again. Oiling or greasing can then be undertaken without touching the steel parts.

### Preservation

The gun should be oiled after it has been thoroughly cleaned. You should use a recognized gun oil that must be free of acid and resins. Vaseline can also be used. First clean the interior of the barrel using textile material soaked in oil by pulling it through with a cleaning rod. All external metal surfaces should be oiled with a soaked linen cloth. The metal can also be sprayed with a oil spray bottle if available. All metal parts should be permanently covered with a thin film of oil whereby special attention should be paid to the moving and hinged parts.

Stock and front stock should be treated with a special stock oil. It is advisable to clean the interior of the barrel again on the following day to prevent the possible build up of any remaining gunpowder deposits.

### Important!

- Never put a cocked gun down!
- Before firing ensure that the barrels are wiped dry.
- Make sure that the barrels are free of oil and all foreign bodies before firing.
- Do not forget that the inner mechanism of your gun needs to be carefully cleaned at set periods.

# SAFETY REGULATIONS

## 10

- Get to know how to handle your gun inside out!
- Always think of the gun as loaded and ready to fire!
- Only use ammunition from a specialist dealer; defective ammunition could damage your gun and you put yourself at risk too!
- Only use ammunition that is suitable for the caliber of the gun and which has been approved for use in the gun by the C.I.P !  
The caliber description can be found on the barrel jacket in the area of bottom bite.
- Point the gun at all times in a safe direction with a suitable ball trap
  - never at point it at people!
- Before loading check the barrel for foreign bodies!
- Always load the gun just before starting to hunt!
- Never transport a loaded gun!
- Only place your finger on the trigger when you have taken aim at the target

- and you want to shoot!
- Be aware of the area around your target!
- Never leave the gun and ammunition unattended.
- Keep the gun and ammunition separate from each other!
- Ensure that the gun does not come into the hands of unauthorized persons.
- Unload your gun:
  - before ascending and leaving hides,
  - before getting into a vehicle,
  - before negotiating obstacles.
- If a cartridge fails to fire leave the gun for approx. 1 minute before opening.  
Caution - possible delayed discharge!

As a matter of course you should only shoot when you are certain

- you have clearly identified the target,
- there are no obstructions in the target area and other people cannot be harmed,

- that the area behind the field of fire is clear of living beings, buildings, streets etc.
- If all the conditions are in place for a risk-free shot, take aim at the target and move the safety to the forward position “S covered”. You can now fire using the appropriate trigger. If you do not fire a shot, immediately relock your gun by returning the safety lock to the rear position revealing “S visible”. When shooting with the set trigger (DB, BF) the trigger is set after unlocking.

### Beware!

With the set trigger set-up, never pull the rear trigger (for double triggers with rear set trigger) first!  
The trigger resistance is reduced considerably with the set trigger set-up. **Note:** First cock and unlock the gun, then set the trigger. If you do not shoot, relock and then slowly pull back the trigger between your thumb and index finger - “unset trigger”

We produce our own barrels manufacture in accordance with the most up-to-date production methods and using high tensile steel.

However, the firing accuracy of a gun is dependent on many other factors. The most important factor is the type of ammunition used.

If you want to check the firing accuracy of your gun, use the type of ammunition listed in the gun passport

If this ammunition is unavailable this may lead to considerable variations in performance. Even ammunition from the same manufacturer can produce various firing accuracy and aiming point positions from batch to batch and from gun to gun. The telescopic sight used is another important factor influencing the firing accuracy of your gun. For this reason make sure that you set the same quality requirements in your choice of telescopic sights and installation as you would with your choice of gun. We can only guarantee the excellent accuracy of our guns given the optimal choice of ammunition, sights and installations.

Complaints about firing accuracy must be submitted within 1 month of the purchase of the gun. If the complaint proves to be unjustified we retain the right to charge for any ensuing costs.

## 1. Shotgun barrel

Your shotgun barrel (or both shotgun barrels) are set at 35m with shotgun cartridges (in accordance with the information in the weapon passport) and an optimal shot distribution and coverage is guaranteed in accordance with the available choke.

## 2. Rifle barrels

We guarantee optimal firing accuracy for a cold barrel, fired with open sights at 50 m or 100m. with telescopic sights. (Using the ammunition and charge type listed in the weapon passport)

## 2.1. Side-by-side rifles model 140,150,160

Side-by-side rifles are designed to be used for the rapid double firing of both barrels. The discharge of several shots in rapid succession produces a change in the aiming point position of the barrel caused by the thermo-physical laws associated with soldered barrel combinations. After cooling down this returns to its original state.

The optimal firing of both barrels in rapid succession can only be achieved by absolutely adhering to a firing sequence of 6 - 10 seconds for the second shot and the firing sequence of right/left barrels (front/rear trigger). With adherence to these conditions and the use of the ammunition listed in the gun passport we guarantee the optimal firing accuracy for double shots.

If the time interval in the firing sequence is not adhered to this will produce changes in the aiming point position, but when used in hunting will not exceed tolerable limits

Side-by-side rifles with varying calibers of bullet (e.g. Bergstutzen) are not designed for a rapid double shot and are therefore loaded cold into the individual barrels  
 . In this case there is no compulsory firing sequence.

**2.2. Side-by-side combination rifle/shotgun model 240/250/260**

When loading a side-by-side combination rifle/shotgun the gun is cooled down to the ambient temperature after every shot as a matter of course.  
 There is therefore no compulsory firing sequence  
 . Changes in aiming point positions with rapid firing sequences are within

In addition, the shotgun barrel can also be loaded with shotgun cartridges (Brennecke) in accordance with the “Langenhagen standard” when using the ammunition listed in the gun passport.

**BEWARE!**

When loading shotgun cartridges the type of sight (open sight or telescopic sights) must be preset for the method of loading.

For several decades we have delivered hunting and sports guns under the trade names “MERKEL” and “SUHL” which meet the highest quality requirements. This is a good reason for us to extend the warranty period, taking into account statutory guarantee periods, for the initial purchaser of the gun to

**5 years**

from the date of purchase.  
 After expiry of the statutory guarantee, we assume responsibility for the warranty for all metal and plastic parts of the gun with show signs of material or workmanship defects  
 . The guarantee is provided exclusively in terms of the statutory repair requirements.  
 Recognition of guarantee claims requires  
 – notification of the defect within one month of it being detected,  
 – the submission of the warrant card encl-

# WARRANTY CONDITIONS

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- professional judgment and decision by us.

In case of unjustified complaints we retain the right to charge for any costs incurred.

Warranty claims are invalid:

- with the use of certain (see details in the gun passport) or non CIP authorized ammunition (including reused ammunition)
- with improper use, inadequate care and mechanical damage of all types
- of if the gun is damaged or destroyed through force majeure or by environmental conditions
- if modifications or alterations are performed by non-authorized workshops or the gun is damaged by attempted repairs
- or if gun-barrel oxidizing or heat treatment has been performed by third parties

- on firing accuracy of the gun if the telescopic sight installation is not carried out by us, if in the case of models with

muzzle adjustments or alterations carried out by non-authorized persons

- for the sight and rubber gunstock cap provided by the customer
- in the absence of or incomplete warranty card and missing weapon passport.

Further claims for damages and losses arising from the gun or its use are will not be accepted.

The fulfillment of the provisions of the warranty requires the submission of the gun to an authorized workshop or dealer for further investigation or is to be returned to the manufacturer

Great success and a traditional “Waidmanns Heil” greeting with your new gun from

Merkel Jagd- und Sportwaffen GmbH  
Schützenstr. 26  
Postfach 100261  
98490 Suhl

Telephone: 0 36 81/8 54-0  
Fax: 0 36 81/85 42 01

Email [info@merkel-waffen.de](mailto:info@merkel-waffen.de)  
Internet: [www.merkel-waffen.de](http://www.merkel-waffen.de)

Please read the warranty/service card.

Address:  
Address:

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*Merkel  
Jagd- und Sportwaffen GmbH*

98527 Suhl – Schützenstraße 26  
98490 Suhl – Postfach 100 261

Germany

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Sender:

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*Merkel  
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98527 Suhl – Schützenstraße 26  
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Germany

## Merkel Jagd- und Sportwaffen GmbH

### GEWÄHRLEISTUNGSKARTE / KUNDENDIENSTKARTE

Die Karte ist ein wichtiger Beleg für den Ersterwerber und den Hersteller der Waffe zur Gewährleistung der Garantie und für die Kundenbetreuung.

Bitte sorgfältig ausfüllen und innerhalb von **20 Tagen** ab Verkaufstag an den Hersteller einsenden.

Bitte geben Sie uns bekannt:

#### vom Verkäufer auszufüllen:

Waffen Nr.: ..... Verkaufsdatum: .....

Modell: .....

eventuelle vor dem Verkauf vorgenommene Veränderungen am

Lauf: .....

Schaft: .....

Abzugssystem: ..... Stempel/Siegel  
Fachgeschäft

#### vom Käufer auszufüllen:

Name, Vorname des Käufers: .....

Anschrift des Käufers: .....

Unterschrift des Käufers: .....

Wir danken Ihnen.

*Merkel Jagd- und Sportwaffen GmbH*

## Merkel Jagd- und Sportwaffen GmbH

### WARRANTY/SERVICE CARD

This card is an important document for the first buyer and the manufacturer of the weapon with regard to the warranty granted and after-sales service.

Complete carefully and return to the manufacturer within **20 days** from day of purchase.

Please specify:

#### To be completed by the seller:

Weapon no.: ..... Date of sale: .....

Model: .....

Modifications, if any, made prior to sale

Barrel: .....

Stock: .....

Stamp/Seal

Trigger mechanism: .....

Specialist Shop

#### To be completed by the buyer:

Name, first name: .....

Buyer's address: .....

Buyer's signature: .....

Many thanks, *Merkel Jagd- und Sportwaffen GmbH*

### CARTE DE GARANTIE/

### CARTE DE SERVICE APRÈS VENTE

Cette carte est un document important pour le premier acheteur et pour le fabricant d'arme pour la garantie et pour l'attention permanent vers le client après la vente.

Nous vous prions de remplir soigneusement la carte et de l'envoyer au fabricant en **20 jours** comptant du jour de la vente.

Nous vous prions de nous faire connaître:

#### à remplir par le vendeur:

numéro d'indification: ..... date de vente: .....

modèle: .....

des modifications éventuelles faites avant la vente

au canon: .....

à la crosse: .....

timbre/cachet

au système de détente: .....

magasin spécialisé

#### à remplir par l'acheteur:

nom, prénom du vendeur: .....

adresse du vendeur: .....

signature de l'acheteur: .....

Nous vous en remercions *Merkel Jagd- und Sportwaffen GmbH*