J.P. SAUER & SOHN
SUHL
GERMANY

MANUFACTURERS OF SPORTING GUNS AND AUTOMATIC PISTOLS

ESTABLISHED IN 1751

REGISTERED TRADE MARK
EVERY WEAPON MANUFACTURED BY US BEARS THE ABOVE TRADE MARK

BRANCH ESTABLISHMENT (SALE BRANCH) 59/60 JÄGERSTRASSE, BERLIN W.
PREFACE.

ALTHOUGH the task with which we were confronted at the end of the world war — the task of reviving our manufactures under peace conditions on an altered basis and on a more modern and more extensive scale, also that of keeping the members of our staff (generations of whom have been with us since 1751) and adding fresh forces — was an extraordinarily difficult one, it may now, after great struggles and hard work, be considered as having been completely accomplished. If the reader will consider, by the aid of the typical specimens of sporting weapons illustrated herein, which are taken from our collection of weapons, the development of the sporting weapon during the ages, and if the work of pre-war days be critically compared with that of our day, we can say without deceiving ourselves that our weapons which even before the war were held in the highest repute in all countries are worthy at the present day to stand with respect to construction and quality beside the best that the world can produce.

This reconstruction has not, however, been effected in respect of quality only but also in other directions.

A walk through the modern forging department with its friction drop hammers, eccentric presses and pneumatic hammers, a glance into the power station of the works with its 2400 HP which it produces itself, and finally a stroll through the machine shops with over 2000 machine tools, the department for the building of special machines and machine tools and the erecting department with its splendid expert workmen, will show that the connection between mechanical mass production and the hand labour which is required in the finishing stages of the higher quality of guns, has been very happily secured.

In addition to the very plain and yet powerful guns for those of moderate means, there will be found weapons which will amply fulfill all the requirements of the experienced home and foreign customer.

As we use almost exclusively only the products of the best German Steel works, such as Krupp and others, as our weapons are subjected to a carefully carried-out system of standardising by gauges, and as all our guns have to pass the proving tests of the government proving house at Suhl, our customers have always the assurance that they will have an article which will never “let them down,” even in the most remote parts of the world.
Shot with an S. & S. repeating rifle in Alaska

Shot with a Sauer & Sohn hammerless three barrelled gun in Mexico

Shot with an S. & S. double barrelled rifle in the Dutch East Indies
J. P. SAUER & SOHN / SUHL

FLINTLOCK GUN, BUILT ABOUT 1680

S. & S. DOUBLE BARRELLED PERCUSSION GUN, BUILT ABOUT 1820
(SIDE VIEW)
S. & S. DOUBLE BARRELLED PERCUSSION GUN, BUILT ABOUT 1820
(PLAN VIEW)

S. & S. LEFAUCHEUX DOUBLE BARRELLED GUN, BUILT ABOUT 1855
S. & S. HAMMERLESS DOUBLE BARRELLED GUN NO. 100000
(SIDE VIEW)

S. & S. HAMMERLESS DOUBLE BARRELLED GUN NO. 100000
(UNDERNEATH PLAN VIEW)
S. & S. DOUBLE BARRELLED GUN DE LUXE
NO. 225,000 (SIDE VIEW)

S. & S. DOUBLE BARRELLED GUN DE LUXE NO. 225,000 (UNDERNEATH PLAN VIEW)
MATERIALS FOR BARRELS.

The barrels of our guns are made exclusively of Krupp’s fluid steel, Krupp’s special gun barrel steel or Krupp’s rustless “Nirosta steel.”

The fluid steel barrels bear the inscription

“Fluss-Stahl Krupp, Essen,”

the special steel barrels bear the inscription

“Spezial-Geweihlaufstahl” Fried. Krupp A.G., Essen

and the “Nirosta” steel barrels bear the inscription

FRIED.-KRUPP A.G. ESSEN

NIROSTA

TYPES OF LOCKING CONSTRUCTIONS — FIGURE A.

TYPES OF LOCKING CONSTRUCTIONS — FIGURE B.
TYPES OF LOCKING CONSTRUCTIONS.

All patterns of guns made by us are fitted with the double bolt radial locking device with Greener cross bolt passing through the top rib (see Figure A, page 10); the higher quality guns, and guns for heavy charges are fitted with the double bolt radial lock with toy’s head extension rib (see Figure B, page 10), that is to say, a combination of the Greener top rib and the lenticular rib formerly employed.

GUN STOCKING.

The stock of our guns are made exclusively of walnut wood which has been stored for years and carefully selected and which is perfectly dry.

For sportsmen of normal build of body we supply our normal stocks of

\[1\frac{5}{16}\text{ in. for measurement a,}\]
\[2\frac{3}{8}\text{ in. } b,\]
\[13\frac{3}{4}\text{ to } 14\frac{3}{16}\text{ in. } c.\]

If a stock is called for made to a special pattern, it is necessary to provide the dimensions indicated in the left hand illustration below, and also to mention whether the length of neck and breadth of shoulder of the sportsman requiring the gun are normal, whether his shoulders droop and whether his head is large, normal or small.

A higher price is, of course, charged for unusual stocks, by reason of the free-hand work that is necessary. For shooting from the right shoulder and aiming with the left eye we recommend the bent stock as shown in the right-hand illustration below.

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STOCKS
STEAM TURBINE ROOM

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WEIGHTS.

The weights of our normal
Double barreled hammer guns,
16 bore .......................... vary between 6 lbs 6 oz–6 lbs 10 oz
Double barreled hammer guns,
12 bore .......................... vary between 6 lbs 13 oz–7 lbs
Double barreled hammer guns,
20 bore .......................... vary between 5 lbs 12 oz–5 lbs 15 oz
Hammerless double barreled
  guns, 16 bore .......................... vary between 6 lbs 6 oz–6 lbs 10 oz
Hammerless double barreled
  guns, 12 bore .......................... vary between 6 lbs 13 oz–7 lbs
Hammerless double barreled
  guns, 20 bore .......................... vary between 5 lbs 15 oz–6 lbs 3 oz
Hammer three barreled guns,
16/16 88-8 .......................... vary between 7 lbs 8 oz–7 lbs 11 oz
Hammer three barreled guns,
12/12, 88-8 .......................... vary between 7 lbs 15 oz–8 lbs 6 oz
Hammerless three barreled
  guns, 16/16 9.3 ......................... vary between 7 lbs 7 lbs 4 oz
Hammerless three barreled
  guns, 12/12 9.3 ......................... vary between 7 lbs 11 oz–8 lbs 2 oz
Hammerless double rifles .......................... vary between 8 lbs 2 oz–8 lbs 13 oz
Trap-hammer guns .......................... vary between 7 lbs 15 oz–8 lbs 2 oz
Hammerless trap guns .......................... vary between 7 lbs 15 oz–8 lbs 2 oz
Tell Rifles .......................... vary between 5 lbs 5 oz–5 lbs 8 oz
Repeating Rifles .......................... vary between 7 lbs 4 oz–7 lbs 11 oz
Repeating Carbines .......................... vary between 6 lbs 13 oz–7 lbs
Over-and-under shot-and-rifle
  guns 16/88 8 .......................... vary between 6 lbs 6 oz–6 lbs 10 oz
Over-and-under shot-and-rifle
  guns 12/88-8 .......................... vary between 6 lbs 13 oz–7 lbs

A call for a particularly light gun may be justified on the
ground of weakness of bodily constitution or on account of age.
In such circumstances, however, the question must be carefully
considered, which are the parts that can be reduced in weight, because
any reduction in the strength of the barrels or of the action means
a corresponding reduction in the durability of the gun. Lightly built
guns of this kind will naturally have a heavier recoil when used
with cartridges loaded with the ordinary charges, and the comfort of
the sportsman may be easily converted into the exact opposite.

LENGTHS OF BARREL.

Our guns are made in the following lengths of barrel:

- For double barreled guns, 12 bore .......................... 30 in.
- For double barreled guns, 16 bore .......................... 29 1/2 in.
- For double barreled guns, 20 bore .......................... 28 in.
- For double barreled guns, 24 bore .......................... 27 3/16 in.
- For double barreled guns, 28 bore .......................... 27 9/16 in.
- For shot-and-rifle combination guns, 12 bore .......................... 27 9/16 in.
- For shot-and-rifle combination guns, 16 bore .......................... 26 3/4 in.
- For three barreled guns, 12 bore .......................... 27 9/16 in.
- For three barreled guns, 16 bore .......................... 26 3/4 in.
- For three barreled guns, 20 bore .......................... 26 in.

If the purchaser is thinking of having abnormally long barrels
he must bear in mind that this would render the weapon top-heavy
and cause it to lose its balance, and it would furthermore suffer in
handiness for rapid firing.

TESTING THE GUNS.

As our guns are tested by experienced experts under the rules of
the Proving Institutes before they leave the Works, and as
FORGING WORKS
MACHINE TOOL ROOM
MACHINE SHOP X

STOCK MAKING SHOP
shot guns are normally tested for a range of 40 yards, and rifles for ranges of 90 yards and 190 yards respectively, the figures stamped on the leaves of the sights of rifles indicate which leaves to adjust for the different ranges.

Purchasers will please note that our rifles are without exception tested with stripped sights and at point blank range.

**CHOKE BORING.**

In the absence of any instructions to the contrary we give our guns full choke in the left barrel and modified choke in the right barrel.

**SHOT PATTERNS.**

The quotations given in our price lists are based on a good normal pattern by the shot guns as prescribed by the Proving Institutes at Halensee and Neumannswalde. (See Illustration p. 19.)

We make an extra charge for high demands and for very high demands as to patterns, both with respect to uniformity of distribution of shot and also uniformity as between successive shots, as compensation for the troublesome additional work involved and the expensive firing tests.

**RIFLE TESTING.**

For testing our rifles we use exclusively the cartridges manufactured by the German and American ammunition manufacturers, so that oversea customers can be sure that the cartridge chamber, the rifling and the transfer are of the right dimensions and that the ballistic qualities demanded of the weapon are accurately fulfilled.

**PURCHASE OF AMMUNITION.**

Cartridges loaded with smokeless powder and the patched bullet, as well as shot cartridges loaded with smokeless powder, should not be loaded by the sportsman himself for reasons of personal safety, but should be purchased from the large and well-known ammunition manufacturers in the original packing.

**OFFICIAL PROVING FOR DURABILITY.**

All our barrels and actions are proved for durability at the government Proving Institute at Suhl and they are all **without exception subjected to the nitro firing test**.

Only such barrels and actions as have successfully withstood the severe tests imposed upon them are branded with the prescribed mark.

**GUARANTEE.**

We give full guarantees for the quality of the workmanship and for the excellence of the materials and the shooting qualities.
SHOT PATTERN DIAGRAMS

PATTERN DIAGRAM I
Fired from a cylindrical barrel with slightly constricted muzzle.
Slight choke.

PATTERN DIAGRAM II
Fired from a half choke barrel.
Medium choke.

PATTERN DIAGRAM III
Fired from a full choke barrel.
Full choke.
BOILER HOUSE AND COOLING TOWER OF ELECTRICAL CENTRAL STATION

ENTRANCE TO WORKS AND ADMINISTRATIVE OFFICES
Shot by Mr. Karl Luckhardt, August 1913, in the Cameroons, with a Sauer & Sohn repeating rifle.
CONDITIONS OF SALE AND DELIVERY

Business is only considered as having been concluded when confirmed by us in writing.
Quotations are always made without engagement and under the reservation that delivery is possible.
Time of delivery is reckoned from the date of written acceptance of the order.
Times of delivery are given approximatively and are not binding upon us.
Claims for compensation for delay in delivery are not admitted.
Unforeseen obstacles, such as force majeure, mobilisation, war, riots, strikes, lock-outs, breakdowns, difficulties in obtaining materials, entitle us wholly or partially to cancel our liability to deliver, and the purchaser has no right to compensation.
Goods are despatched to the account and at the risk of the purchaser.
Prices are quoted at the lowest possible figure and are to be understood as ex works exclusive of packing, freight and postal charges.
Packing is charged at the lowest possible figure.
The legal place for delivery and payment is Suhl.
DOUBLE BARRELLED HAMMER GUN
MODEL II
DOUBLE BARRELLED HAMMER GUN
MODEL II

It is of the standard type with Krupp fluid steel barrels in bores 12, 16 and 20. With its strong rebounding locks, in which the hammer releases the striker after ignition, it forms a valuable weapon of modern shape for general use. It is engraved with plain arabesque engraving.
HAMMERLESS DOUBLE BARRELLED GUN WITH INSIDE LOCKS
MODEL VIII
HAMMERLESS
DOUBLE BARRELLED GUN WITH INSIDE LOCKS
MODEL VIII

Is of the standard type with Krupp fluid steel barrels and is built in bores 12, 16 and 20. This model, which has for years proved to be an excellent one, is provided with an automatic safety device and an indicator rib placed on the side of the action, by means of which the user can tell at once whether the weapon is cocked or not. When the gun is half cocked the indicator rib lies horizontally, while when the gun is fully cocked the rib lies at an angle of 45°. The gun is provided with plain arabesque engraving.
HAMMERLESS DOUBLE BARRELLED EJECTOR GUN
MODEL VIII E
HAMMERLESS
DOUBLE BARRELLED EJECTOR GUN
MODEL VIII E

Enables the sportsman of moderate means to possess a reliable ejector gun of really high quality, built on modern lines with Krupp fluid-steel barrels in bores 12 and 16. In construction and finish it resembles our double barrelled gun Model VIII.
HAMMERLESS DOUBLE BARRELLED GUN
MODEL XIV
HAMMERLESS DOUBLE BARRELLED GUN

MODEL XIV

Is built with Krupp steel barrels and of the standard pattern in bores 12, 16 and 20 and in construction somewhat resembles our Model VIII, but is on the whole of superior workmanship, is more richly engraved and is provided with double safety bars and side clips. The stock is made of a superior quality wood.
HAMMERLESS DOUBLE BARRELLED EJECTOR GUN
MODEL XVII
HAMMERLESS
DOUBLE BARRELLED EJECTOR GUN
MODEL XVII

Is built of the standard type in bores 12, 16 and 20 with Krupp special steel barrels. It is provided with a good mainspring ejector and in quality somewhat resembles our Model XIV. Can be had with either arabesque engraving and three hunting scenes or with rich arabesque engraving only.
HAMMERLESS
DE LUXE DOUBLE BARRELLED EJECTOR GUN.
MODEL XVIII
MODEL XVIII (TOP PLAN VIEW)

DE LUXE HAMMERLESS DOUBLE BARRELLED EJECTOR GUN
MODEL XVIII

Is, as its name implies, the most perfect weapon as regards material, workmanship and finish which we produce in our Works, with the exception of guns with rich gold mounting. We supply this model with Krupp special steel barrels in bores 12, 16 and 20, on which the lumps and top extension rib are forged in one with the barrels. The top extension rib shows the connection between the Greener cross-bolt and the round-headed breech locking.

MODEL XVIII (UNDERNEATH PLAN VIEW)
THREE BARRELLED COMBINED HAMMER GUN
MODEL XX
THREE BARRELLED COMBINED HAMMER GUN

MODEL XX

Is a weapon which is particularly suitable for the professional hunter and is excellent even when used with heavy charges for both rifle and shot. The barrels are of Krupp gun steel. The bores for shot are ordinarily only 12 and 16, and for the rifled barrel the calibres are 8 and 9.3 mm.

The rifled barrel is fired by the right-hand lock of the two rebounding locks in conjunction with the sliding-button on tang to change shooting from shot barrels to rifle barrel.

The leaf of the back sight is sighted to 90 yards for rifle and when turned down acts as a snap sight when shooting with shot.
HAMMERLESS THREE BARRELLED GUN
MODEL XXVα
HAMMERLESS THREE BARRELLED GUN
MODEL XXVa

Unlike other firms, we make only one single high-grade model of this gun. This weapon, which, by reason of the strength of construction, is suitable for even the heaviest cartridges, possesses set-trigger, side clips on the action and Greener’s safety, sliding-button on the tang to change the shooting from the shot barrels to the rifle barrel.

The side locks for the two-shot barrels are provided with signal ribs, so as to indicate whether the locks are cocked or not, while a signal pin provided on the top plate of the action beside the top lever serves the same purpose for the lock of the rifled barrel which is mounted on the trigger plate.

This self-cocking hammerless three barrelled gun, the three locks of which are simultaneously cocked by opening the gun, is ordinarily built in bores 12 and 16 for the shot barrels and in bores 8 or 9.3 mm for the rifled barrel. All the barrels are made of Krupp steel.

The tasteful arabesque engraving, to which, if desired, hunting scenes may be added on the side locks, and the automatic sight when changing over to the rifled barrel, make this three barrelled gun a really perfect weapon.
HAMMERLESS DOUBLE BARRELLED RIFLE
MODEL XXXV
HAMMERLESS DOUBLE BARRELLED RIFLE
MODEL XXXV

With the very powerful and long breech action, the combined Greener action and the double bolt radial action, the Krupp cast steel or special steel barrels for very heavy charges, the heavy lump and heavy top rib, this rifle is in every respect a powerful first-class weapon. It has given every satisfaction both here and abroad by reason of the perfect accuracy of its shooting.

As compared with a repeater, this rifle has the advantage that the hunter of big game or beasts of prey is able to fire the second cartridge instantly, without having first to make a special movement of the hand.

This rifle is built in bores 6.5 to 12.5 and is provided with double set trigger, side clips and Greener’s lateral safety and is proved for ranges of 90 and 190 yards. In general, the barrels for bores 6.5 to 8 mm are of Krupp cast steel and the barrels for bores 9.0 to 12.5 mm are of Krupp special steel.
HAMMERLESS OVER-AND-UNDER RIFLE-AND-SHOT GUN
WITH BETTER FINISH
This gun is made both plain and of a good quality, with Krupp steel barrels, double bolt radial breech action and Greener cross bolt, strong double lock mounted on the trigger plate, indicator on the top plate of the breech action beside the top lever, and set trigger for the rifled barrel.

The gun is of tasteful design, is richly engraved either with hunting scenes or with plain arabesque and has a stock of good quality wood; apart from this, the weapon is handier and lighter than a rifle and shot gun with parallel barrels and is much easier to carry, all these advantages making the weapon one that is particularly well liked. The gun is built in bores 12 and 16 for the shot barrel and all customary bores for the rifled barrel.
HAMMERLESS PIGEON GUN
MODEL XXIXa
HAMMERLESS PIGEON GUN
MODEL XXIXa

This gun is a plain type of pigeon gun, but is excellent in every respect.
The Model XXIXa pigeon gun differs from the Model VIII double barrelled
gun not only in the long and somewhat heavier breech action and the stronger
Krupp steel barrels but also in the side clips on the breech action.
The weapon is built in bore 12 only, in view of the purpose for which it is
intended.
HAMMERLESS PIGEON GUN WITH EJECTOR
MODEL XXIXc
HAMMERLESS PIGEON GUN WITH EJECTOR
MODEL XXIXc

This gun is made with greater care and has a finer finish than the XXIXa Model. The barrels are of Krupp special gun barrel steel with heavy lump and combined Greener locking, and a divided hair fore-trigger is also provided.

The results obtained with our pigeon guns in the pre-war days and more recently at the Olympic Games in France in 1924 are a better proof than newspaper advertisements that our pigeon guns are in the front rank both as to excellence of construction and with regard to accuracy of shooting.
REPEATING SPORTING RIFLE AND REPEATING CARBINE
WITH ORIGINAL MAUSER ACTION
REPEATING
SPORTING RIFLE AND REPEATING CARBINES
WITH ORIGINAL MAUSER ACTION

We make a repeating rifle about 44 in. long with a half-length stock, and also a repeating carbine about 41 in. long with a full-length stock. Both rifles represent high-grade weapons in respect of material and workmanship, provided as they are with original Mauser breech-actions of the latest type, and they should not be confused with the low grade articles manufactured from old army stuff, for the most part worn out.

The repeating rifles and carbines are principally made in bores 9, 9.3 and 10.75 mm and have set trigger, hinged magazine cover, and a barrel of Krupp steel with a solid, that is to say, a forged-on, sighting rib. This is octagonal at its rear part, while in the rifles with the half-stock it is rounded towards the muzzle.

Ordinarily these weapons are proved for ranges of 90 and 190 yards.
HAMMERLESS "TELL" RIFLE
MADE BY SAUER & SOHN
THE HAMMERLESS “TELL” RIFLE
MADE BY SAUER & SOHN

This weapon is one which has been greatly appreciated for many years both for small-bore shooting and deer-stalking on account of its great accuracy, and it has a lock which can be conveniently cocked by the lever which lies over the trigger guard when the barrel is lowered. The barrel of this rifle is of Krupp steel and has the well-known wedge-breech action, set trigger, and safety on the tang.

The rifle can be easily taken to pieces by unscrewing the wooden front stock and the hinge bolt (which is provided with a lever) in the direction indicated by the arrow on the left hand side of the breech action.

This rifle is built in the following bores:

A. For small bore shooting.
1. With Winchester cartridge 22 rim fire, short, long and extra long.
2. With Winchester cartridge 22 central fire, Vierling (5.6 × 35 mm).

B. For deer-stalking purposes.
3. With Winchester cartridge 25/35 (6.5 × 52).
4. With S. & S. cartridge 58 1/2/6.6 mm (6.5 × 58).
5. With 8.15 x 46 normal cartridge.
7. With 9.3 × 57 cartridge.
6.35 mm AUTOMATIC PISTOL
6.35 mm bore
AUTOMATIC PISTOL

The distinguishing features of these weapons is the firm and convenient position in which they can be held in the hand, the interchangeability of all the parts, absolutely reliable action, and great accuracy.
DESCRIPTION OF MOUNTING FOR THE TELESCOPE

We have for years used an approved construction for the mounting of sighting telescopes, which consists in brazing the carrier rings (each of which is provided with two feet), to the tubes of the telescopes, as distinguished from other constructions in which the carrier rings are only clamped on.

A locking slide worked by a spring and mounted on the rear foot-plate fits into the retaining grooves in the rear foot when the tele-

scope is placed in position and thereby ensures the telescope being held firmly and immovably even when subjected to severe shaking, while the two front feet enter the shoe-shaped front foot-plate with a rotary movement.

The telescope can be removed easily and conveniently by drawing back the slide on two laterally mounted roughened ribs. Generally the feet are provided with a sighting tunnel but this is omitted if desired, when the telescope is required to lie as low as possible or to the right.

We particularly recommend the well-known and approved

SIGHTING TELESCOPES

made by the firms

CARL ZEISS of JENA and C. P. GOERZ, A.-G. of BERLIN-FRIEDENAU,

of which the following are the most important data:
ZEISS SIGHTING TELESCOPES

HIGH-POWER SIGHTING TELESCOPES:

**ZIELVIER**
- Magnification 4 times. For sportsmen who wish to carry only one telescope.
- Medium magnification, large field of view, high illumination.

**ZIELSECHS**
- Magnification 6 times. Greater magnification with greatest possible field of view.
- High illumination.

**ZIELAUCHT**
- Magnification 8 times. Highest possible magnification. High illumination.

SMALL SIGHTING TELESCOPES:

**ZIELMI**
- Magnification 2\(\frac{1}{2}\) times.
- Large field of view, high illumination, light weight.

**ZIELVIERMI**
- Magnification 4 times.
- Medium magnification, large field of view, high illumination.

<table>
<thead>
<tr>
<th>Code word</th>
<th>Magnification</th>
<th>Diameter of Object Glass</th>
<th>Diameter of Field of View at 100 m</th>
<th>Diameter of Eyepiece</th>
<th>Intensity of Illumination (square of the diameter of the eyepiece)</th>
<th>Free Diameter of Eyepiece</th>
<th>Distance of Eye</th>
<th>Length of Telescope</th>
<th>Weight</th>
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GOERZ "CERTAR" SIGHTING TELESCOPES

HIGH POWER SIGHTING TELESCOPES

Cerlar 3

Cerlar 4½ and 5.7

Cerlar 6 and 7.5

Cerlar 7½ and 9.4

SMALL SIGHTING TELESCOPES

Cerlar 2

Cerlar 4
SUMMARY OF THE GOERZ "CERTAR" SIGHTING TELESCOPES
WITH ALL OPTICAL DATA AND MEASUREMENTS

A. HIGH POWER SIGHTING TELESCOPES:

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<th>Eyepiece mm</th>
<th>Intensity of illumination</th>
<th>Actual field of view at 100 m m</th>
<th>Distance of eye ca. cm</th>
<th>Diameter of</th>
<th>Length cm</th>
<th>Weight ca. g</th>
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<td>30</td>
<td>4.9</td>
<td>8</td>
<td>56</td>
<td>26.5</td>
<td>38</td>
</tr>
</tbody>
</table>

B. SMALL SIGHTING TELESCOPES:

<table>
<thead>
<tr>
<th></th>
<th>Magnification</th>
<th>Object Glass mm</th>
<th>Eyepiece mm</th>
<th>Intensity of illumination</th>
<th>Actual field of view at 100 m m</th>
<th>Distance of eye ca. cm</th>
<th>Diameter of</th>
<th>Length cm</th>
<th>Weight ca. g</th>
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<tbody>
<tr>
<td>Certar 2</td>
<td>2</td>
<td>14.5</td>
<td>7.25</td>
<td>52</td>
<td>21.4</td>
<td>8</td>
<td>22</td>
<td>22</td>
<td>35</td>
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<tr>
<td>Certar 4</td>
<td>4</td>
<td>30</td>
<td>7.5</td>
<td>56</td>
<td>10.7</td>
<td>8</td>
<td>35</td>
<td>22</td>
<td>35</td>
</tr>
</tbody>
</table>
214 red deer shot by Baron von Brockdorff in 14 years with 8 and 9 mm S. & S. double barrelled rifles.
LIST OF BALL CARTRIDGES THAT CAN BE RECOMMENDED

Below we enumerate, from amongst the very large number of rifle cartridges available for every purpose, those that are most easily obtainable; the purpose for which they are suitable, and their loadings, are given below, but we purposely refrain from giving any ballistic data. We shall, however, be glad in particular cases to supply any information desired.

<table>
<thead>
<tr>
<th>CARTRIDGES</th>
<th>LOADINGS</th>
</tr>
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<tbody>
<tr>
<td><strong>FOR SMALL BIRDS</strong></td>
<td><strong>ORIGINAL CARTRIDGES</strong></td>
</tr>
<tr>
<td>kurz. lang. extra lang.</td>
<td>Windh. 22 rim fire</td>
</tr>
<tr>
<td>5.6</td>
<td></td>
</tr>
<tr>
<td><strong>FOR LARGER, e.g., WOODCOCK AND MOORHEN</strong></td>
<td>Win. 32 Cal. 8 x 33 W</td>
</tr>
<tr>
<td>Win. 22 C.</td>
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<tr>
<td>5.6</td>
<td>0.75</td>
</tr>
<tr>
<td>Win. 32 C.</td>
<td>1.0</td>
</tr>
<tr>
<td>Bullet Type</td>
<td>Caliber</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>6.5x48 Flachkopf</td>
<td>6.5</td>
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<tr>
<td>6.5x52 Flachkopf</td>
<td>6.3</td>
</tr>
<tr>
<td>6.5x58 Flachkopf</td>
<td>6.5</td>
</tr>
<tr>
<td>8x54 Norm. Kupfermantel</td>
<td>8</td>
</tr>
<tr>
<td>8x58 Flachkopf</td>
<td>8</td>
</tr>
<tr>
<td>8x57 Flachkopf</td>
<td>8</td>
</tr>
<tr>
<td>9.3x72 Norm. Kupfermantel</td>
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<tr>
<td>FOR RED DEER AND BLACK-GAME</td>
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<tr>
<td>-----------------------------</td>
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<tr>
<td>8J.R Flachkopf</td>
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<tr>
<td></td>
<td></td>
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<tr>
<td>9X57 Rundkopf</td>
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<td></td>
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</tr>
<tr>
<td>9,3X62 Rundkopf</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>9,3X74 Flachkopf</td>
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<tr>
<td></td>
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</tr>
<tr>
<td>10,75X68 Rundkopf</td>
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</table>

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Type</th>
<th>Velocity</th>
<th>Cartridge</th>
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<tr>
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<td>2,6</td>
<td>soft point</td>
<td>12,6</td>
</tr>
<tr>
<td>9</td>
<td>3</td>
<td>soft point</td>
<td>18</td>
</tr>
<tr>
<td>9.3</td>
<td>3,5</td>
<td>soft point</td>
<td>18,5</td>
</tr>
<tr>
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<td>3,5</td>
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<td>18,5</td>
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<tr>
<td>10.75</td>
<td>4.2</td>
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