



FIOCCHI

A M M U N I T I O N

130 Years of Fiocchi

- 1876 Year of foundation
- 1877 Start of ammunition production
- 1901 Product diversification: snaps
- 1930 Beginning of export
- 1940 Development of social policy in the territory of Lecco
- 1945 Bombing of the plant in Lecco
- 1946 Re-building of the plant
- 1970 Expansion of European markets
- 1980 Start of .22 Super Match production
- 1983 Fiocchi USA established
- 1985 New quality inspection unit
- 1985 Development of new "leadless" primers
- 1989 Nato qualification of the 9mm. Parabellum cartridge
- 1990 Impulse toward world-market expansion
- 1990 Quality System Certificate in accordance with the standards NATO AQAP-1
- 1991 Introduction of frangible bullet ammunition production
- 1993 New loading department of .22 cartridges
- 1994 New "flexible" centerfire ammunition manufacturing line
- 1994 New Robotic line for shot shell case manufacturing
- 1995 Introduction of the "Official" clay target line
- 1996 New line of Spas Mil and Law Enforcement ammunition
- 1999 New line of hunting cartridges
- 1999 Nato qualification of the cartridge 5.56mm Ball
- 2003 Environment Management System Certificate in accordance with the standards ISO 14001:1996
- 2003 Quality Management System Certificate in accordance with the standards UNI EN ISO 9001:2000
- 2006 Fiocchi of America re-launches the sporting rifle line which was discontinued, aside from military production, in the 1950's



radical change was being introduced in firearms: the newly developed breech-loader. This transition from traditional muzzle loaders sparked the modernization of ammunition and its components.

Fiocchi took a chance and began manufacturing shotshell cases with primers suitable for reloading. In the early 1890's the production was extended to the manufacture of primed cartridges loaded with both shot and bullets. During this time, Fiocchi Munizioni phased out the production of black powder as it was no longer profitable or in demand.

Fiocchi Munizioni was founded in 1876 by Giulio Fiocchi who took over a small black powder manufacturing facility. At that time a

Since the very beginning, the Company adopted a structure that would be adequate for future success. All production machines and equipment have been designed and engineered to the exacting requirements of Fiocchi. Such a strategy has enabled Fiocchi to master the production of quality products while utilizing the most up to date technology available.

During these 130 years of existence, Fiocchi has produced a huge array of ammunition. We are proud to have a history of meeting the needs of the world marketplace; from ammunition for rifles, pistols or shotguns, with cartridges of many interesting configurations. Nowadays, Fiocchi is a world leader in small gauge ammunition and offers a wide range of products suitable to meet the demands of the most discriminating hunters and shooters.



President's Message



Stefano Fiocchi, President Fiocchi: Italy (left)
Pietro Fiocchi President Fiocchi: USA (right)

130 years...

If it wasn't that I am preparing to go hunting black grouse in the Italian alps, I would feel very old. I guess my ancestors have done a few things right if I am still here carrying on the tradition of making ammunition. I am proud of our tradition and history, but it's what we do today that will continue our legacy.

I have prepared a lot of new and exciting products for 2006 and I hope you will enjoy using them as much as I did developing and then testing them in the field, (yes, I get paid to go hunting... it's tough, but someone has to do it). Recently, I had the pleasure of bagging my first mountain goat using a prototype from an initial run of the Fiocchi 270 WIN with a nice SST bullet by Hornady; I was tired of using ammunition from my competitors, knowing that if we can make military ammo that can hit its mark at 1,200 yards we can obviously make great hunting or target rounds with the help of some quality bullets from US manufacturers like Sierra and Hornady.

Take a look at our new rifle offering. For our initial line-up we have opted to keep it to a "chosen few" items... reliable and precise. We will add more calibers and bullet configurations in the future, but for now we are dedicated to making these few in the right way.

What about all the new items we engineered for the avid pistol and revolver shooter? My humble opinion is that this ammo is solid, reliable and functionally pleasing; but, my opinion is biased, so I invite you to test the products and let me know.

The new packaging is looking great, but not only the box is new but also the ammo inside... new and better. We have listened to the consumers and have implemented as many of their suggestions as we could, keeping in mind that some submissions were down right impossible to attain, but we love the spirit of pushing the limits in Missouri.

Enough talk about ammunition... let's go out and use it! My bird dog urges me through his black moist eyes, saying "black grouses are waiting man! Drop the stupid computer and let's go..."

There's fresh snow on the mountain..." He is right, at the end of a long week of work, we have to go play; otherwise, why work?

Thank you for your continued support.

Pietro Fiocchi
President, Fiocchi of America

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About the Images

On page 2 a photograph of the founder Giulio Fiocchi (1906) and the factory in Lecco year 1915.

The background photographs thru-out all pages of the catalog are dated between 1903 and 1915.



Carlo Fiocchi - Sales
Fiocchi: USA



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A M M U N I T I O N

New Products for 2006

Fiocchi of America is making a quantum leap for 2006 by reintroducing, after 50 years, an expanded sporting center-fire line. The Extrema, Exacta, and Shooting Dynamics Lines present new controlled expansion hollowpoint bullets, long overdue additions of popular bullet configurations and a wider selection of calibers. When integrated with our existing products, we have created a more complete and user friendly offering!

NEW RIFLE



EXACTA RIFLE MATCH

- 223 Rem - 69 Grs. M.King (223MKC)
- 223 Rem - 77 Grs. M.King (223MKD)
- 30-06 Sprg - 168 Grs. M.King (3006MKB)
- 30-06 Sprg - 180 Grs. M.King (3006MKD)
- 308 Win - 168 Grs. M.King (308MKB)
- 308 Win - 180 Grs. M.King (308MKC)



EXTREMA RIFLE HUNTING

- 223 Rim - 50 Grs. V-MAX™ (223HVA)
- 243 Win - 100 Grs. SST (243HSB)
- 270 Win - 150 Grs. SST (270HSB)
- 30-06 Sprg - 150 Grs. SST (3006HSA)
- 30-06 Sprg - 180 Grs. SST (3006HCA)
- 30-06 Sprg - 165 Grs. G.King HPBT (3006GKB)
- 308 Win - 150 Grs. SST (308HSA)
- 308 Win - 180 Grs. SST (308HSC)
- 308 Win - 165 Grs. G.King HPBT (308GKB)



RIFLE SHOOTING DYNAMICS

- 22 Hornet - 35 Grs. V-MAX (22HHV)
- 223 Rem - 55 Grs. PSP (223B)
- 243 Win - 70 Grs. PSP (243SPB)
- 270 Win - 130 Grs. PSP (270SPB)

NEW PISTOL



EXTREMA PISTOL X.T.P.

- 25 Auto - 35 Grs. XTPHP (25XTP)
- 32 Auto - 60 Grs. XTPHP (32XTP)
- 357 Mag - 158 Grs. XTPHP (357XTP)
- 38 Special - 125 Grs. XTPHP (38XTP)
- 380 Auto - 90 Grs. XTPHP (380XTP)
- 40 S&W - 155 Grs. XTPHP (40XTP)
- 40 S&W - 180 Grs. XTPHP (40XTPB)
- 44 Mag - 240 Grs. XTPHP (44XTP)
- 45 Auto - 230 Grs. XTPHP (45XTP)
- 9mm Luger - 115 Grs. XTPHP (9XTP)
- 9mm Luger - 147 Grs. XTPHP (9XTPB)



EXACTA PISTOL IPSC MATCH

- 38 S.A. Rimless - 124 Grs. FMJ (38AMA)
- 40 S&W - 180 Grs. FMJFN (40WMA)
- 45 Auto - 200 Grs. FMJFN (45ACPMA)
- 9mm Luger - 124 Grs. FMJ (9MMMA)



PISTOL SHOOTING DYNAMICS -

JSP-JHP

- 10 Auto - 180 Grs. JHP (10B)
- 357 Mag - 180 Grs. SJSP (357C)
- 38 Special - 125 Grs. SJSP (38D)
- 38 Super - 115 Grs. JHP (38SPHP)
- 41 Rem Mag - 210 Grs. JHP (41APHP)
- 41 Rem Mag - 210 Grs. JHP (41TCSP)
- 44 Mag - 240 Grs. LWC (44D)
- 44 Special - 240 Grs. SWCGC (44SA)
- 44 Special - 180 Grs. SJHP (44SB)



PISTOL SHOOTING DYNAMICS - FMJ

- 10 Auto - 200 Grs. FMJTC (10AP)
- 357 SIG - 124 Grs. FMJ (357SIGAP)
- 38 Special - 130 Grs. FMJ (38A)
- 45 Long Colt - 250 Grs. FMJFN (45LB)
- 7.62 Tokarev - 85 Grs. FMJ (762TOK)

130
Years of Excellence

NEW SHOTSHELLS

MULTISPORT

1 OZ. LOADS

12 ga. - 2¾" - 1oz. - 2¾ d.e. Size: 7.5-8-9 (12MS28L)

12 ga. - 2¾" - 1oz. - 3 d.e. Size: 7.5-8-9 (12MS28H)

1½ OZ. LOADS

12 ga. - 2¾" - 1½ oz. - 2¾ d.e. Size: 7.5-8-9 (12MS32L)

12 ga. - 2¾" - 1½ oz. - 3 d.e. Size: 7.5-8-9 (12MS32H)

FITASC-Helice Loads

12 ga. - 2¾" - Max d.e. - 1¼ oz. Nickel Size: 7-7.5-8 (12HEL)

SUB-GAUGE LOADS

20 ga. - 2¾" - 7/8 oz. - 2¾ d.e. Size: 7.5-8-8.5 (20VIPHV)

28 ga. - 2¾" - ¾ oz. - 2 d.e. Size: 7.5-8-9 (28VIP)

28 ga. - 2¾" - ¾ oz. - 2½ d.e. Size: 7.5-8-9 (28VIPH)

410 ga. - 2½" - ½ oz. - Max d.e. Size: 7.5-8-9 (410VIP)



RIMFIRE

22 L.R. - 40 Grs. CPSP (22HVCRN)

22 L.R. - 38 Grs. CPHP (22HVCHP)

22 L.R. - 40 Grs. LSP (22CRN)

.17 Mach 2 - 20 Grs. FMJ (17M2)



RIMFIRE MAGNUM

22 Win Mag - 40 Grs. JSP (22WMA)

22 Win Mag - 40 Grs. JHP (22WMB)





FIOCCHI

A M M U N I T I O N

EXTREMA RIFLE HUNTING

We have employed the best components for a superlative rifle line, matching Hornady SST™ and Sierra GameKing™ bullets with our new cases and dependable primers. We use only the best American powders loaded on state-of-the-art equipment in our Ozark, Missouri plant. The Extrema Hunting Line will soon be a favorite of sportsmen worldwide.

Match grade components with ultimate performance is the key to the Extrema Line.

See full-line and ballistics on pages 18 & 19.



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Years of Excellence

EXACTA RIFLE MATCH

Manufactured at our Ozark, Missouri plant, the Exacta Rifle Match merges with our Exacta Line for the demanding match shooter. Loaded with Sierra MatchKing™ bullets. Hand loaders will be challenged to equal our level of accuracy and performance.

RIFLE SHOOTING DYNAMICS

We are sure that the Rifle Shooting Dynamics line will quickly become a hunter and shooter favorite. Loaded in the U.S.A. utilizing Hornady™ bullets, top quality American powders and selected components. Price AND quality for the high volume shooter, this is the aim of our Shooting Dynamics Line of products.





FIOCCHI

A M M U N I T I O N



EXTREMA PISTOL X.T.P. LINE

Loaded with XTP™ bullets from Hornady,™ (noted for their long-standing tradition for extreme bullet performance), we are proud to bring you this new line of handgun ammunition. We use controlled expansion bullets that pack some *exceptional* downrange performance and unmatched ballistics. We introduce the world renowned Fiocchi nickel-plated brass cases and classic centerfire primers for an *Extreme* shooting experience.

See full-line and ballistics on pages 20 & 21.

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Years of Excellence



EXACTA PISTOL IPSC MATCH

In duplicating the customary European IPSC loads, we have engineered a victorious classic for the US market. Fiocchi USA utilizes the traditional Fiocchi Primed Brass with US powders and bullets, while adhering to unmatched standards in deviation and precision. Attention to consistency and reliability ensures this to be a proud addition to the Exakta Competition Line.



FIOCCHI

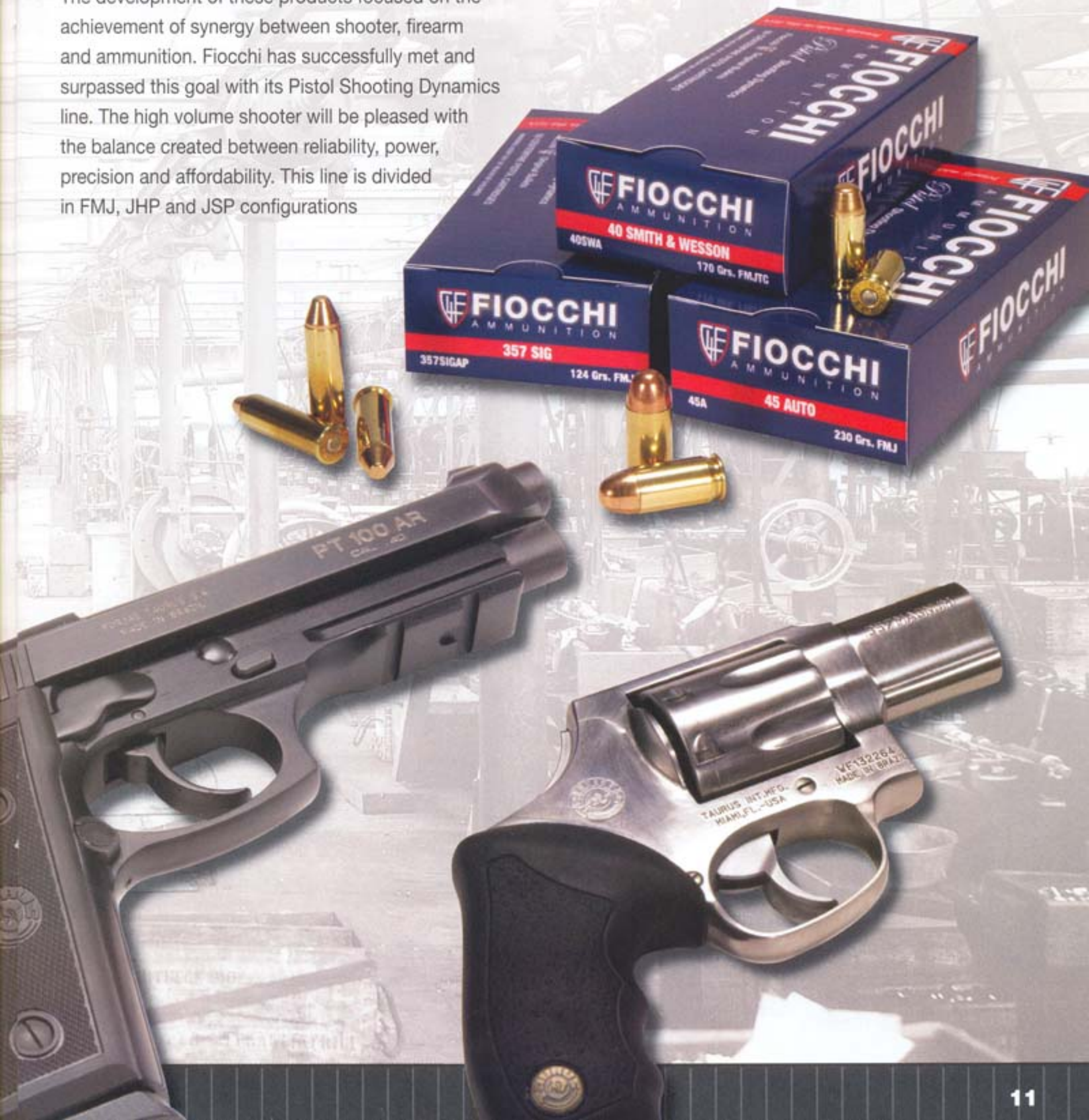
A M M U N I T I O N



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Years of Excellence

PISTOL SHOOTING DYNAMICS

The development of these products focused on the achievement of synergy between shooter, firearm and ammunition. Fiocchi has successfully met and surpassed this goal with its Pistol Shooting Dynamics line. The high volume shooter will be pleased with the balance created between reliability, power, precision and affordability. This line is divided in FMJ, JHP and JSP configurations





FIOCCHI

A M M U N I T I O N



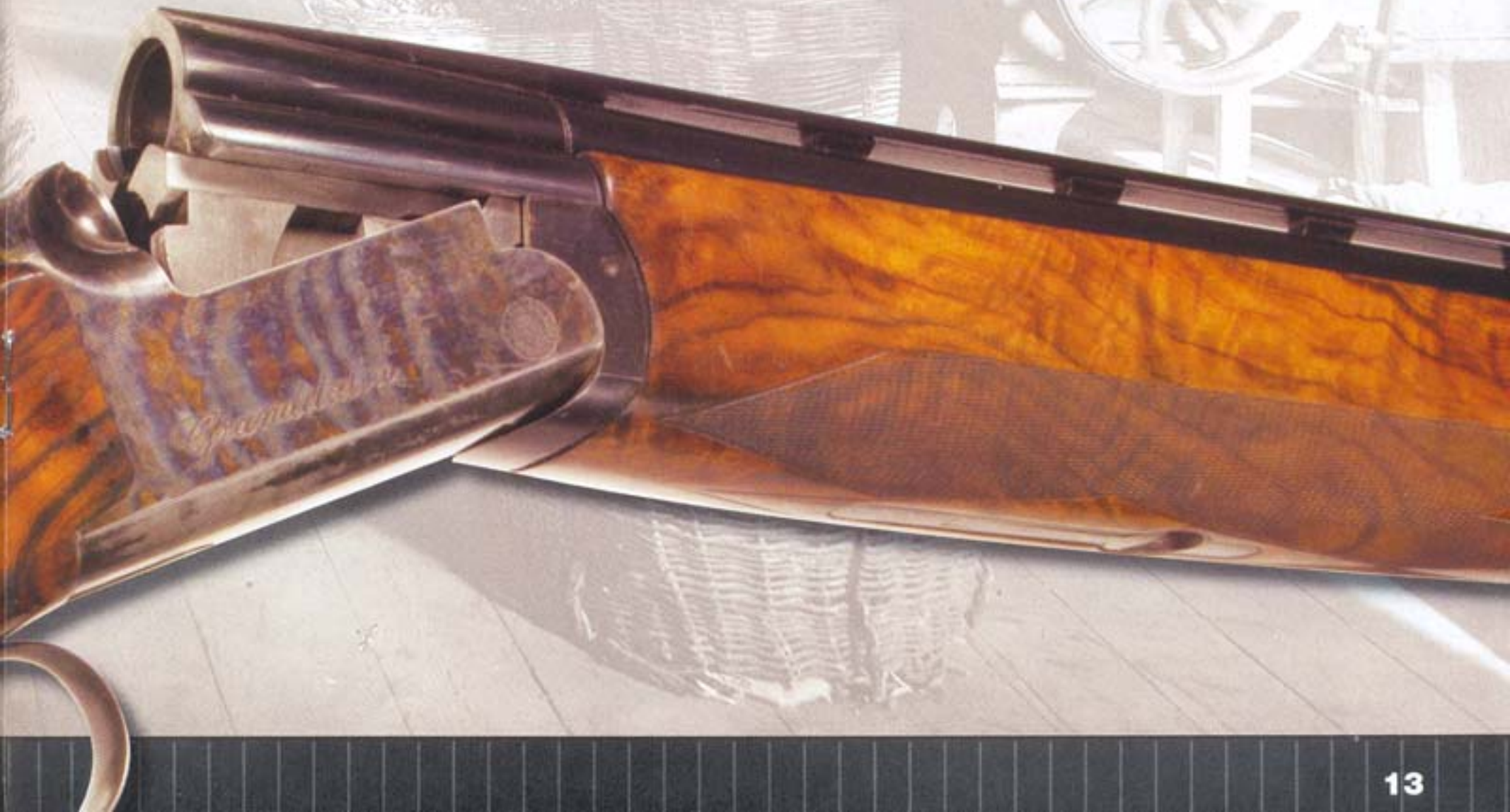
FIOCCHI PREMIUM TARGET SHOTSHELLS

The Fiocchi line of Premium Target Loads is designed specifically for competitive shooters. The unmistakable "Purple" Target Load is the offspring of a 50-year tradition of supporting the world of trap, skeet and now sporting clays, FITASC and Compaq. Fiocchi USA follows the footsteps of our parent company in Italy whose experience awards them countless Olympic Gold Medals, World Titles and European Championships.

We have the best of two worlds in our Premium Target Load range: The Italian tradition of excelling in primed hulls and wads, and the American's unmatched reliability in shot and powders. Fiocchi Premium Target Loads... an explosive cocktail that will bring a winning smile to many competitors' lips

See full chart range page 22 & 23.

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Years of Excellence





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A M M U N I T I O N



GOLDEN PHEASANT

The Golden Pheasant has quickly become a standard for the Midwest hunter. The perfect balance of consistent speeds and dense patterns are achieved by using premium powders and nickel-plated shot. Strict ballistic tolerances ensure the shot to shot consistency expected and appreciated by our customers.



HIGH VELOCITY

High Velocity Loads are available in 12, 16, 20, 28 and 410 Gauge. The High Brass shotshell is the mainstay of the successful hunter, developed for performance on those tough, demanding shots encountered by wing shooters all over the world. As with all our shells, constant ballistic attention is maintained for shot to shot consistency.



GAME & TARGET

In the world of "Promotional" ammunition, we feel shooting sportsmen deserve an affordable price and a quality product. We use the same manufacturing standards for both our promotional loads and our premium loads. We sell our Promotional loads on value, not price alone.



BUCKSHOT

The best available load, featuring nickel plated shot guaranteeing surface hardness, therefore outstanding pattern. Also in Low Recoil configuration.



STEEL

From Speed Steel to Low Recoil Steel Target Loads, Fiocchi offers a complete line of what every outdoorsman needs. Whether you believe that "Speed Kills" or follow the "Payload is Everything" theory, Fiocchi has your load.

Our Steel Target Loads are available in both 12 and 20 gauge. At 1,200 fps, these loads are perfect for those venues that require or simply prefer using a non-toxic load on the range. Priced to be competitive where the volume of shooting is sometimes driven by the cost of shells.



SLUGS

Available in both 12 (7/8 oz. and 1 oz.) and 20 (7/8 oz.) gauge, our Slug series features an Aero-Wad which stabilizes the slug for maximum downrange accuracy. Ignited by the 616 Primer, the custom powder blend provides dependable and consistent performance of our slug.





FIOCCHI

A M M U N I T I O N



RIMFIRE

.22 Rimfire Super Match Line is manufactured in small lots. This line combines high quality performance with ballistic uniformity and is designed for the shooter demanding shot to shot dependability.

We added to our gold medal winning Super Match Exacta Line a fantastic new silhouette round, very fast and accurate.

New for 2006 a hunting line both in 22 L.R. and in the popular 22 Win. Mag.

Exacta Super Match Grade .22's (Rimfire)

Stock #	Caliber	Bullet Weight	Velocity FPS	Velocity MPS	Description	Per case	Per box	Bx per Case
Super Match								
22SM200	22 Short	29 RN	650	200	Compensated	5000	50	100
22SM320	22 Long Rifle	40 RN	1050	320	Exacta Rifle Super Match	5000	50	100
22SM340	22 Long Rifle	40 RN	1120	340	Exacta Biathlon Match	5000	50	100
Match								
22M320	22 Long Rifle	40 RN	1050	320	Match Training	5000	50	100
22MAXAC	22 Long Rifle	40 RN	1148	350	Training	5000	50	100
22V380	22 Long Rifle	40 RN	1245	380	Silhouette	5000	50	100

Rimfire

Stock #	Caliber	Bullet Weight	Velocity FPS	Velocity MPS	Description	Per case	Per box	Bx per Case
22HVCRN	22 Long Rifle	40CPSP	1255	385	Hi-Vel.Copper Pl. Round Nose	5000	50	100
22HVCHP	22 Long Rifle	38CPHP	1280	390	Hi-Vel.Copper Plated H.P.	5000	50	100
22CRN	22 Long Rifle	40LSP	1250	380	Standard velocity LRN	5000	50	100
17M2	.17 Mach 2	20FMJ	1800	550	17 Mach 2	1000	50	20

RIMFIRE MAGNUM

Stock #	Caliber	Bullet Weight	Velocity FPS	Velocity MPS	Description	Per case	Per box	Bx per Case
22WMA	22 Win Mag	40 JSP	1910	580	Jacket Soft Point	5000	50	100
22WMB	22 Win Mag	40 JHP	1910	580	Jacket Hollow Point	5000	50	100

POPPERS

12 Gauge Empty Primed hulls roll crimped for easy firing. Great for dog training at a lower cost than traditional blanks.

PRIMERS

Improved for function.
Improved for safety.

- Rigid tray prohibits migration within packaging
- Easy sliding sleeve for ease of use
- Industry standard .209 size.
- Packaged: 100 per sleeve
1000 per carton
5000 per case



SPECIALTY SHOTSHELLS

Here for you, lucky owners of those rare 24 and 32 gauge shotguns; loaded respecting all the ballistic limitations of these hard to find shotshells.



SPECIALTY BLANKS

Fiocchi blanks are very useful for reenactments, ceremonies, training exercises and hunting dog training. They will give you the noise and realism of conventional ammunition without the bullet. Our blank ammunition has been used by several movie and historical reenactment groups throughout the U.S. All Fiocchi blanks are manufactured using brass cases. Most rimmed calibers now incorporate crimped primers for more reliability in revolvers.

Primers & Wads

Primer Stock #	Usage		Per Sleeve	Per Case	Sleeves per Case
616	12, 20, 16, 28 & .410 Gauge		100	5000	50
Wad Stock #	Usage		Per Bag	Per Case	Bx per Case
12GWB	1 oz and 1 1/8 oz	Bulk Package	n/a	5000	n/a
12GW	1 oz and 1 1/8 oz	Bagged	500	500	10

Blanks (packaging subject to change)

Stock #	Description	Qty per box	Bx per Case
22LRBL	22 Long Rifle Blank	100	10
380BLANK	380 Rimmed (short)	50	20
8MMBLANK	8mm Pistol	50	20
9MMBLANK	9mm Parabellum	50	20
38BLANK	38 Rimmed Revolver	50	20
32BLANK	32 ACP	50	20
320BLANK	32 Rimmed Revolver	50	20
45BLANK	45 Rimmed Revolver	25	40

Shotshell Blanks

Stock #	Gauge	Description	Qty per case	Qty per box	Bx per Case
12BLANK	12	2 3/4" blank	250	25	10

Popper Loads

Stock #	Gauge	Description	Qty per case	Qty per bag	Bx per Case
12POPBLK	12	Bulk Packed 2 3/4" Popper, empty primed case, rolldown crimp	1000	n/a	n/a

Action Proving Dummy Loads

Stock #	Gauge	Length	Description	Per case	Per box	Bx per Case
12DUMMY	12	2 3/4	Inert, 12 Gauge action proving rounds. Clearly marked as DUMMY Load	250	25	10

Specialty Rimfire Shotshells ** Subject to limited availability

Stock #	Gauge	Length	Dram Equiv.	Oz. Shot	Velocity FPS	Shot Sizes	Per box	Bx per Case
9FLS	9mm Rimfire	1 3/4	MAX	1/4	600	6-7 1/2-8-9	50	n/a

Exacta Rifle Match

Item No.	Type	Bullet - Weight	Velocity in Feet per second +/- 1 ft			
			Muzzle	100 YDS.	200 YDS.	300 YDS.
223MKC	223 Remington	M.King-69 grs.	3000	2720	2460	2210
3006MKB	30-06 Springfield	M.King-168 grs.	2900	2510	2320	2150
308MKB	308 Winchester	M.King-168 grs.	2600	2410	2230	2060

New

New

New

New

New

New

Extrema Rifle Hunting

Item No.	Type	Bullet - Weight	Velocity in Feet per second +/- 1 ft			
			Muzzle	100 YDS.	200 YDS.	300 YDS.
223HVA	223 Remington	V-MAX-50 grs.	3140	2910	2460	2060
243HSB	243 Winchester	SST-100 grs.	2960	2760	2570	2390
270HSB	270 Winchester	SST-150 grs.	2850	2660	2480	2300
3006HSA	30-06 Springfield	SST-150 grs.	2900	2680	2470	2260
3006HSC	30-06 Springfield	SST-180 grs.	2700	2530	2360	2200
3006GKB	30-06 Springfield	G.King HPBT-165grs.	2800	2610	2420	2240
308HSA	308 Winchester	SST-150 grs.	2820	2610	2410	2220
308HSC	308 Winchester	SST-180 grs.	2620	2430	2240	2060
308GKB	308 Winchester	G.King HPBT-165grs.	2700	2510	2330	2160

New

New

New

New

New

New

New

New

New

Rifle Shooting Dynamics

Item No.	Type	Bullet - Weight	Velocity in Feet per second +/- 1 ft			
			Muzzle	100 YDS.	200 YDS.	300 YDS.
22HHV	22 Hornet	V-MAX-35 grs.	3100	2270	1590	1120
223B	223 Remington	PSP-55 grs.	3240	2750	2300	1900
243SPB	243 Winchester	PSP-70 grs.	3400	3070	2760	2470
270SPB	270 Winchester	PSP-130 grs.	3060	2800	2560	2330

New

New

New

New

The ballistics data shown was determined by testing under controlled conditions. Actual performance may vary due to external factors - temperature, humidity, different lots of powder, priming mixture, type of barrel groove and length, etc.

ft/s		Energy in Foot/Pounds +/- 5 ft/p						Bullet Trajct. Std. Range - Zero at 100 YDS.				Barrel Length
400 YDS.	500 YDS.	Muzzle	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	
1980	1760	1380	1130	920	750	600	475	0.2	0	-3.2	-12.2	24"
1840	1650	1290	1070	880	720	580	465	0.1	0	-4.1	-14.9	24"
1980	1820	2720	2345	2010	1720	1460	1230	0.1	0	-4	-14.6	24"
2000	1840	2910	2510	2150	1830	1550	1300	0.1	0	-4	-14.6	24"
1890	1730	2520	2165	1855	1575	1330	1120	0.1	0	-4.5	-16.1	24"
1890	1730	2740	2280	1890	1550	1260	1020	0.1	0	-4.4	-16	24"

ft/s		Energy in Foot/Pounds +/- 5 ft/p						Bullet Trajct. Std. Range - Zero at 100 YDS.				Barrel Length
400 YDS.	500 YDS.	Muzzle	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	
1700	1390	1285	935	675	470	320	215	0.3	0	-2.7	-11.1	24"
2210	2040	1945	1640	1465	1265	1085	925	0.2	0	-3.1	-11.4	24"
2130	1970	2705	2355	2040	1760	1510	1290	0.2	0	-3.4	-12.5	24"
2070	1880	2810	2400	2030	1710	1425	1180	0.2	0	-3.3	-12.4	24"
2050	1900	2910	2250	2220	1930	1670	1440	0.1	0	-3.9	-14.1	24"
2070	1910	2870	2490	2145	1840	1570	1330	0.2	0	-3.6	-13.2	24"
2040	1870	2650	2270	1940	1645	1385	1160	0.2	0	-3.6	-13.2	24"
1890	1730	2745	2350	2000	1695	1425	1195	0.1	0	-4.4	-15.9	24"
1990	1830	2670	2310	1990	1700	1450	1225	0.1	0	-4	-14.5	24"

ft/s		Energy in Foot/Pounds +/- 5 ft/p						Bullet Trajct. Std. Range - Zero at 100 YDS.				Barrel Length
400 YDS.	500 YDS.	Muzzle	100 YDS.	200 YDS.	300 YDS.	400 YDS.	500 YDS.	50 YDS.	100 YDS.	200 YDS.	300 YDS.	
920	800	745	400	195	95	65	50	0.7	0	-3	-17.2	24"
1550	1260	1280	1060	870	710	575	460	0.3	0	-2.5	-10	24"
2200	1950	1795	1460	1185	950	750	590	0.3	0	-2.2	-9	24"
2110	1900	2705	2265	1890	1565	1285	1045	0.2	0	-3	-11.2	24"



Extrema Pistol X.T.P. Line

Item No.	Type	Bullet-Weight	Velocity in feet per second +/- 10 Ft/s.			Energy in foot / pounds +/- 5 ft/p			Barrel Length	Trajectory	
			Muzzle	50 yrd.	100 yrd	Muzzle	50 yrd.	100 yrd		25 yrd.	50 yrd.
New 25XTP	25 Auto	XTPHP-35 grs.	900	810	740	63	51	43	2"	-1.7	-8.3
New 32XTP	32 Auto	XTPHP-60 grs.	1000	915	850	130	110	95	4"	-0.9	-3.9
New 357XTP	357 Magnum	XTPHP-158 grs.	1250	1150	1070	545	460	400	8"	-0.7	-2.8
New 38XTP	38 Special	XTPHP-125 grs.	900	855	815	225	200	185	4"	-1	-4.2
New 380XTP	380 Auto	XTPHP-90 grs.	1000	900	820	200	160	135	3"	-1.1	-5.3
New 40XTP	40 S&W	XTPHP-155 grs.	1180	1060	980	480	385	330	4"	-0.8	-4
New 40XTPB	40 S&W	XTPHP-180 grs.	950	900	860	360	325	295	4"	-1.2	-5.5
New 44XTP	44 Magnum	XTPHP-240 grs.	1350	1190	1080	970	750	615	7"	-0.9	-4.1
New 45XTP	45 Auto	XTPHP-200 grs.	900	855	815	355	325	295	5"	-1.5	-6.5
New 9XTP	9 mm. Luger	XTPHP-115 grs.	1160	1050	980	340	285	240	4"	-0.9	-3.3
New 9XTPB	9 mm. Luger	XTPHP-147 grs.	980	940	900	310	285	265	4"	-1.1	-5.3

JSP-JHP Pistol Shooting Dynamics

Item No.	Type	Bullet-Weight	Velocity in feet per second +/- 10 Ft/s.			Energy in foot / pounds +/- 5 ft/p			Barrel Length	Trajectory	
			Muzzle	25 yrd.	50 yrd	Muzzle	25 yrd.	50 yrd		25 yrd.	50 yrd.
32APHP	32 Auto	JHP-60 grs.	1200	1110	1030	190	165	142	4"	-0.9	-3.9
357E	357 Magnum	JHP-148 grs.	1425	1345	1245	670	590	510	8"	-0.6	-2.7
New 357C	357 Magnum	SJSP-125 grs.	1450	1340	1250	585	500	430	8"	-0.4	-1.8
New 38C	38 Special	LRN-158 grs.	910	830	760	295	245	200	4"	-1.6	-7
New 38D	38 Special	SJSP-125 grs.	950	930	900	250	240	225	4"	-1	-4.3
38E	38 Special	SJHP-148 grs.	820	730	695	405	350	310	4"	-1.1	-4.7
New 38SAHP	38 Super	JHP-115 grs.	1120	1060	1010	320	275	230	5"	-0.8	-3.9
380APHP	380 Auto	JHP-90 grs.	1030	950	885	210	180	155	3"	-1.1	-5.3
40SWC	40 S&W	JHP-165 grs.	1000	945	900	450	405	360	4"	-0.9	-4.1
40SWE	40 S&W	JHP-180 grs.	1000	960	940	400	370	350	4"	-1.2	-5.5
New 41APHP	41 Rem.Mag.	JHP-210 grs.	1300	1210	1140	790	685	605	6"	-2.1	-6.2
New 41TCSP	41 Rem.Mag.	TCSP-210 grs.	1300	1210	1135	790	685	600	6"	-2.1	-6.1
44A	44 Magnum	JSP-240 grs.	1310	1230	1150	765	670	590	7"	-0.6	-2.7
44B	44 Magnum	SJHP-200 grs.	1490	1425	1325	1010	900	780	7"	-0.6	-2.5
New 44D	44 Magnum	JHP-240 grs.	1180	1130	1080	740	675	625	7"	-1	-4.3
New 44SA	44 Special	SWCGC-240 grs.	760	735	710	305	270	210	6"	-2.3	-9
New 44SB	44 Special	SJHP-180 grs.	980	935	900	380	355	305	6"	-1.8	-7.2
45B	45 Auto	JHP-200 grs.	890	835	790	350	310	275	5"	-1.7	-7
45T	45 Auto	JHP-230 grs.	850	830	810	370	350	325	5"	-1.9	-7.6
455A	455 Webley	LRN-262 grs.	655	605	585	350	300	260	7"	-1.8	-7.7
765B	.30 Luger (7.65 Para)	JSP-93 grs.	1210	1130	1050	305	265	225	5"	-0.9	-3.9
9APHP	9 mm. Luger	JHP-115 grs.	1250	1175	1090	460	405	355	7"(200 mm.)	-0.8	-3.1
9APDHP	9 mm. Luger	JHP-147 grs.	975	915	865	360	305	265	7"(200 mm.)	-1.1	-5.3

Exacta Pistol IPSC Match

Item No.	Type	Bullet-Weight	Velocity in feet per second +/- 10 Ft/s.			Energy in foot / pounds +/- 5 ft/p			Barrel Length	Trajectory	
			Muzzle	25 yrd.	50 yrd	Muzzle	25 yrd.	50 yrd		25 yrd.	50 yrd.
New 38SAMA	38 S.A. Rimless	FMJ-124 grs.	To be determined			To be determined			5"	To be determined	
New 40SWMA	40 S&W	FMJFN-180 grs.	To be determined			To be determined			5"	To be determined	
New 45ACPMMA	45 Auto	FMJFN-200 grs.	To be determined			To be determined			5"	To be determined	
New 9MMA	9 mm. Luger	FMJ-124 grs.	To be determined			To be determined			5"	To be determined	

FMJ Pistol Shooting Dynamics

Item No.	Type	Bullet-Weight	Velocity in feet per second +/- 10 Ft/s.			Energy in foot / pounds +/- 5 ft/p			Barrel Length	Trajectory	
			Muzzle	25 yrd.	50 yrd	Muzzle	25 yrd.	50 yrd		25 yrd.	50 yrd.
New 10AP	10 Auto	FMJTC-200 grs.	1050	1005	970	490	395	340	5"	-1	-4.9
25AP	25 Auto	FMJ-50 grs.	800	720	625	72	58	43	2"	-2.1	-9.4
32AP	32 Auto	FMJ-73 grs.	1000	918	850	160	135	115	4"	-1.3	-5.9
32LA	32 S&W Long	LWC-100 grs.	730	695	650	150	130	110	5"	-3	-5.2
New 357SIGAP	357 SIG	FMJ-124 grs.	1350	1240	1160	510	465	415	5"	-0.8	-3
New 38A	38 Special	FMJ-130 grs.	950	920	885	260	245	228	4"	-1	-4.3
38G	38 Special	FMJ-158 grs.	930	900	870	295	245	200	4"	-1.2	-4.9
357F	357 Magnum	FMJTC-142 grs.	1420	1350	1260	665	590	510	8"	-0.6	-2.3
38SA	38 Super Auto	FMJ-129 grs.	1180	1100	1010	400	345	295	5"	-1	-4.1
380AP	380 Auto	FMJ-95 grs.	1010	935	870	215	185	155	4"	-1.3	-5.9
40SWA	40 S&W	FMJTC-170 grs.	1190	1100	1035	530	465	400	6"	-0.9	-4.1
40SWD	40 S&W	FMJFN-180 grs.	1100	1035	970	460	415	385	6"	-1.5	-5.7
40TCEB*	40 S&W	TCEB-165 grs.	1140	1065	1015	470	405	375	6"	-1	-4.4
44SWR	44 S&W " Rus."	LRN-247 grs.	820	770	735	365	325	295	6"	-1.9	-8.2
45A	45 Auto	FMJ-230 grs.	850	830	810	370	350	325	5"	-1.7	-7
New 45LC	45 Long Colt	FMJFN-250 grs.	800	780	760	355	335	315	5 1/2"	-2.1	-8.8
75S0	7.5 Swiss Ord.	FMJ-107 grs.	1050	965	900	260	225	195	5"	-1.2	-5.3
762A	7.62 Nagant Rev.	FMJ-97 grs.	735	720	680	210	180	145	7"	-1.2	-5.3
763A	7.63 Mauser	FMJ-88 grs.	1425	1295	1195	400	330	280	5"	-0.5	-2.9
New 762TOK	7.62 Tokarev	FMJ-85 grs.	1450	1305	1205	420	350	300	5"	-0.5	-2.9
765A	.30 Luger (7.65 Para)	FMJ-93 grs.	1200	1115	1035	295	255	220	5"	-0.9	-3.9
9AP	9 mm. Luger	FMJ-115 grs.	1320	1245	1165	450	395	345	7"(200 mm.)	-0.8	-3.1
9APB	9 mm. Luger	FMJ-123 grs.	1280	1195	1115	445	390	340	7"(200 mm.)	-0.8	-3.2
9APC	9 mm. Luger	FMJTC-123 grs.	1280	1195	1115	445	390	340	7"(200 mm.)	-0.8	-3.2
9APD	9 mm. Luger	FMJ-147 grs.	1050	965	900	360	305	265	7"(200 mm.)	-1.1	-5.3
9TCEB*	9 mm. Luger	TCEB-100 grs.	1400	1290	1185	390	335	280	7"(200 mm.)	-0.7	-3
9SA	9 mm. Steyr	FMJ-115 grs.	1080	1000	935	295	255	220	5"	-1.2	-4.9
9x18	9X18 Ultra	FMJ-100 grs.	1065	980	915	250	215	185	5"	-1.2	-5.1
9MAK	9 mm. Makarov	FMJ-95 grs.	1140	1065	1000	280	240	210	5"	-1	-4.33
9x21	9X21 I.M.I.	FMJ-123 grs.	1280	1195	1115	445	390	340	7"(200 mm.)	-0.8	-3.2

*Lead-free primer

The ballistics data shown was determined by testing under controlled conditions. Actual performance may vary due to external factors - temperature, humidity, different lots of powder, priming mixture, type of barrel groove and length, etc.

PREMIUM TARGET SHOTSHELL LINE

Item No.	Type	Shot Size	Velocity Muzzle, ft/s.	Standard Deviation ft/s.	Shots Antimony %	Pressure P.S.I.	Crimping Star
1 oz. Loads Sporting and FITASC							
<i>New</i> 12MS28L	12 ga. 2 $\frac{3}{4}$ "- 2 $\frac{3}{4}$ d.e.- 1oz.	7.5-8-9	1170	10	3%	7950	6
<i>New</i> 12MS28H	12 ga. 2 $\frac{3}{4}$ "- 3 d.e.- 1oz.	7.5-8-9	1200	10	3%	8530	6
12TL	12 ga. 2 $\frac{3}{4}$ "- 2 $\frac{3}{4}$ d.e.- 1oz.	7.5-8-8.5-9	1150	12	5%	6376	8
12TH	12 ga. 2 $\frac{3}{4}$ "- 3 d.e.- 1oz.	7.5-8	1200	16	5%	7770	8
12TX	12 ga. 2 $\frac{3}{4}$ "- HDCP d.e.- 1oz.	7.5-8-8.5	1250	15	5%	7920	8
12CRSR	12 ga. 2 $\frac{3}{4}$ "- Max d.e.- 1oz.	7.5-8-8.5-9	1300	13	5%	8500	8
12SCRS	12 ga. 2 $\frac{3}{4}$ "- 3 $\frac{1}{2}$ d.e.- 1oz.	7.5-8	1400	11	5%	10520	8
12CPTR	12 ga. 2 $\frac{3}{4}$ "- Max d.e.- 1oz.	7.5-8-8.5-9 (Spreader)	1300	15	5%	6570	8
12SLR	12 ga. 2 $\frac{3}{4}$ "- Lite d.e.- 1oz.	7 (Steel)	1200	16	Steel	11250	6
1 1/8 oz. Loads Trap-Skeet & Sporting							
<i>New</i> 12MS32L	12 ga. 2 $\frac{3}{4}$ "- 2 $\frac{3}{4}$ d.e.- 1 $\frac{1}{8}$ oz.	7.5-8-9	1165	9	3%	7980	6
<i>New</i> 12MS32H	12 ga. 2 $\frac{3}{4}$ "- 3 d.e.- 1 $\frac{1}{8}$ oz.	7.5-8-9	1200	9	3%	8020	6
12TRAPL	12 ga. 2 $\frac{3}{4}$ "- 2 $\frac{3}{4}$ d.e.- 1 $\frac{1}{8}$ oz.	7.5-8	1140	11	5%	7880	8
12TRAPH	12 ga. 2 $\frac{3}{4}$ "- 3 d.e.- 1 $\frac{1}{8}$ oz.	7.5-8	1185	10	5%	8750	8
12VIPL	12 ga. 2 $\frac{3}{4}$ "- 2 $\frac{3}{4}$ d.e.- 1 $\frac{1}{8}$ oz.	7.5-8-8.5-9	1150	13	5%	8280	8
12VIPH	12 ga. 2 $\frac{3}{4}$ "- 3 d.e.- 1 $\frac{1}{8}$ oz.	7.5-8-8.5-9	1200	10	5%	8990	8
12WRNO	12 ga. 2 $\frac{3}{4}$ "- HDCP d.e.- 1 $\frac{1}{8}$ oz.	7.5-8-8.5	1250	17	5%	8480	8
12SSCH	12 ga. 2 $\frac{3}{4}$ "- 3 d.e.- 1 $\frac{1}{8}$ oz.	8-8.5-9 (Spreader)	1200	16	5%	9190	8
7/8 oz. Trainer Loads & International Competition Loads							
12IN24	12 ga. 2 $\frac{3}{4}$ "- Max d.e.- $\frac{7}{8}$ oz.(24 gr.)	7.5-8-8.5-9	1350	11	5%	8280	8
12780Z	12 ga. 2 $\frac{3}{4}$ "- 3 d.e.- $\frac{7}{8}$ oz.	7.5-8	1200	15	5%	6340	8
20LITE	20 ga. 2 $\frac{3}{4}$ "- Lite d.e.- $\frac{3}{4}$ oz.	7.5	1075	8	5%	6760	6
FITASC-Nickel Helice Loads							
<i>New</i> 12HEL	12 ga. 2 $\frac{3}{4}$ "- Max d.e.-1 $\frac{1}{4}$ oz.	7-7.5-8	1350	10	3.2% NP	9350	6
Paper Hull Loads							
12FP1L	12 ga. 2 $\frac{3}{4}$ "- 2 $\frac{3}{4}$ d.e.-1oz.	7.5-8	1180	12	5%	6210	6
12FPCRS	12 ga. 2 $\frac{3}{4}$ "- 3 $\frac{1}{2}$ d.e.-1oz.	7.5-8	1350	9	5%	9000	6
12FPL	12 ga. 2 $\frac{3}{4}$ "- 2 $\frac{3}{4}$ d.e.-1 $\frac{1}{8}$ oz.	7.5-8-8.5	1150	7	5%	9590	6
12FPHC	12 ga. 2 $\frac{3}{4}$ "- HDCP d.e.-1 $\frac{1}{8}$ oz.	7.5-8	1250	9	5%	11230	6
Sub Gauge Loads							
20LITE	20 ga. 2 $\frac{3}{4}$ "- 2 $\frac{1}{2}$ d.e.- $\frac{3}{4}$ oz.	7.5	1075	8		6760	6
20VIP	20 ga. 2 $\frac{3}{4}$ "- 2 $\frac{1}{2}$ d.e.- $\frac{7}{8}$ oz.	7.5-8-9	1200	8	5%	8490	6
<i>New</i> 20VIPH	20 ga. 2 $\frac{3}{4}$ "- 2 $\frac{3}{4}$ d.e.- $\frac{7}{8}$ oz.	7.5-8-8.5	1250	11	5%	8640	6
20SLR	20 ga. 2 $\frac{3}{4}$ "- Lite d.e.- $\frac{7}{8}$ oz.	7 (Steel)	1225	12	Steel	10900	6
<i>New</i> 28VIP	28 ga. 2 $\frac{3}{4}$ "- 2 d.e.- $\frac{3}{4}$ oz.	7.5-8-9	1200	12	3%	10100	6
<i>New</i> 28VIPH	28 ga. 2 $\frac{3}{4}$ "- 2 $\frac{3}{4}$ d.e.- $\frac{3}{4}$ oz.	7.5-8-8.5	1300	14	3%	11400	6
<i>New</i> 410VIP	410 ga. 2 $\frac{1}{2}$ "- Max d.e.- $\frac{1}{2}$ oz.	7.5-8-9	1230	11	3%	10800	6

GOLDEN PHEASANT Nickel-Plated, High-Velocity Hunting Shotshells

Item No.	Type	Shot Size	Velocity Muzzle, ft/s.	Standard Deviation ft/s.	Shots Antimony %	Pressure P.S.I.	Crimping Star
12GPX	12 ga. 2 $\frac{3}{4}$ "- Max d.e.- 1 $\frac{1}{8}$ oz.	4-5-6-7.5	1485	18	3.2% Nik.plated	11200	6
12GP	12 ga. 2 $\frac{3}{4}$ "- 3 $\frac{3}{4}$ d.e.- 1 $\frac{1}{8}$ oz.	4-5-6-7.5	1250	19	3.2% Nik.plated	9700	6
123GP	12 ga. 3"- Max d.e.- 1 $\frac{1}{4}$ oz.	4-5-6-7.5	1200	12	3.2% Nik.plated	11400	6
16GP	16 ga. 2 $\frac{3}{4}$ "- 3 $\frac{1}{2}$ d.e.- 1 $\frac{1}{8}$ oz.	4-5-6-7.5	1310	10	3.2% Nik.plated	10910	6
20GP	20 ga. 2 $\frac{3}{4}$ "- 2 $\frac{7}{8}$ d.e.- 1 oz.	5-6-7.5-8	1245	8	3.2% Nik.plated	11500	6
203GP	20 ga. 3"- Max d.e.- 1 $\frac{1}{4}$ oz.	4-5-6-7.5	1200	11	3.2% Nik.plated	11280	6
28GP	28 ga. 2 $\frac{3}{4}$ "- Max d.e.- $\frac{7}{8}$ oz.	5-6-7.5-8	1300	14	3.2% Nik.plated	11800	6

HUNTING SHOTSHELL LINE

Item No.	Type	Shot Size	Velocity Muzzle, ft/s.	Standard Deviation ft/s.	Shots Antimony %	Pressure P.S.I.	Crimping Star
DOVE LOADS							
12HV	12 ga. 2¼" - 3¼ d.e. - 1¼ oz.	4-5-6-7.5-8-9	1330	10	3%	9830	6
16HV	16 ga. 2¼" - 3¼ d.e. - 1¼ oz.	4-5-6-7.5-8	1300	11	3%	10270	6
20HV	20 ga. 2¼" - 2¾ d.e. - 1 oz.	5-6-7.5-8-9	1220	8	3%	11450	6
28HV	28 ga. 2¼" - 2¾ d.e. - ¾ oz.	6-7.5-8-9	1300	14	3%	11400	6
410HV	410 ga. 3" - Max d.e. - 11/16 oz.	6-7.5-8-9	1140	15	3%	11800	6
DOVE LOADS							
12HF	12 ga. 2¼" - 3¼ d.e. - 1¼ oz.	4-5-6-7.5-8-9	1225	12	3%	7470	6
12FLD	12 ga. 2¼" - 3¼ d.e. - 1¼ oz.	5-6-7.5-8	1255	9	3%	9880	6
16FLD	16 ga. 2¼" - 2¾ d.e. - 1¼ oz.	6-7.5-8	1185	8	3%	8890	6
20FLD	20 ga. 2¼" - 2¾ d.e. - 1 oz.	6-7.5-8-9	1165	9	3%	9870	6
DOVE LOADS							
12GT118	12 ga. 2¼" - 3 d.e. - 1¼ oz.	7.5-8	1200	9	3%	8880	6
12GT	12 ga. 2¼" - 3¼ d.e. - 1 oz.	6-7.5-8-9	1290	13	3%	9330	6
16GT	16 ga. 2¼" - 2¾ d.e. - 1 oz.	7.5-8-9	1165	10	3%	6810	6
20GT	20 ga. 2¼" - 2¾ d.e. - 7/8 oz.	7.5-8-9	1210	10	3%	8450	6
28GT	28 ga. 2¼" - 2 d.e. - ¾ oz.	7.5-8-9	1200	14	3%	10100	6
410GT	410 ga. 2½" - Max d.e. - ½ oz.	7.5-8-9	1200	11	3%	10880	6
TURKEY LOADS (Nickel Plated)							
123TRK	12 ga. 3" - Max d.e. - 1¼ oz.	4-5-6	1325	14	3.2% Nik.plated	11430	6
1235TRK	12 ga. 3½" - Max d.e. - 2¾ oz.	4-5-6	1210	11	3.2% Nik.plated	11620	6
STEEL LOADS							
3½" Steel							
1235ST	12 ga. 3½" - Max d.e. - 1¾ oz.	T-BBB-BB-2	1520	19	Steel	13250	6
1235SH	12 ga. 3½" - Max d.e. - 1¾ oz.	T-BBB-BB-2	1470	16	Steel	12990	6
3" Steel							
123ST	12 ga. 3" - Max d.e. - 1¼ oz.	BBB-BB-1-2-3-4	1475	18	Steel	9630	6
123S	12 ga. 3" - Max d.e. - 1¼ oz.	T-BBB-BB-1-2-3-4	1320	18	Steel	9970	6
2¾" Steel							
12S118	12 ga. 2¾" - Max d.e. - 1¼ oz.	BB-1-2-3-4-6	1375	16	Steel	10511	6
12S1	12 ga. 2¾" - Max d.e. 1 oz.	4-6-7	1400	17	Steel	10300	6
20 GA 3" Steel							
203ST	20 ga. 3" - Max d.e. - 7/8 oz.	2-3-4	1500	14	Steel	10410	6
20S	20 ga. 2¾" - Max d.e. - ¾ oz.	3-4-6-7	1470	18	Steel	10500	6
BUCKSHOT (Nickel Plated)							
12HV4BK	12 ga. 2¼" - Max d.e. - 27 Pellets	4 Buck	1325	13	3.2% Nik.plated	10600	6
12HV00BK	12 ga. 2¼" - Max d.e. - 9 Pellets	00BK	1325	18	3.2% Nik.plated	8520	6
12LE00BK	12 ga. 2¼" - Lite d.e. - 9 Pellets	00BK-Low Recoil	1150	12	3.2% Nik.plated	6950	6
AERO SLUGS							
12SLUG	12 ga. 2¼" - Max d.e. - Rifled Slug	Aero Wad Slug 1 oz.	1560	18	n.a.	11360	Roll
12SLUG78	12 ga. 2¼" - Max d.e. - Rifled Slug	Aero Wad Slug 7/8 oz.	1650	15	n.a.	10200	Roll
12LESLUG	12 ga. 2¼" - Lite d.e. - Rifled Slug	Aero Wad Slug 7/8 oz. (Low recoil)	1350	10	n.a.	9350	Roll
20SLUG	20 ga. 2¾" - Max d.e. - Rifled Slug	Aero Wad Slug 7/8 oz.	1650	17	n.a.	11860	Roll
SPECIALTY SHOTSHELLS							
24PL1	24 GA. - 2½" - CIP d.e. - 11/16 oz.	6-8	1280	14	3%	9200	6
32PL1	32 GA. - 2½" - CIP d.e. - ½ oz.	6-8	1260	16	3%	10400	6

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