



RIFLE • PISTOL • CUT RIFLED

Barrel Manufacturing for OEMs

IT'S NOT BLACK MAGIC IT'S MANUFACTURING TECHNOLOGY

Driven by engineering best practices and process automation, Vortakt Barrel Works is more than just a barrel manufacturer. We're an OEM partner dedicated to helping your business thrive.

Price. Performance. Delivery. That's what you want to see from your OEM suppliers. In today's demanding, fast-paced market, it's more important than ever to find a partner who can deliver high-performance barrels that arrive on time and on budget. Vortakt® offers an unprecedented level of automation by investing in industry-leading technology and tooling design. By removing extraneous material handling requirements, setup operations, and cycle times, this streamlined approach to barrel manufacturing reduces costs while consistently exceeding your well-defined tolerance requirements.

VORTAKT PRODUCT OPTIONS

Sometimes you want the economy sedan, and sometimes you want the exotic supercar. When it comes to barrel manufacturing, Vortakt does it all. Define what excellence means for your business, and we'll do the rest. Performance? Value? Precision? Volume? Whatever matters to you, matters to us. The depth and breadth of our production capabilities make us the most versatile manufacturing partner in the business.

As a fully-integrated partner in your supply chain, Vortakt acts as an extension of your organization, keeping you on schedule and on top of your customer needs. With our unparalleled scalability and vertically integrated production, we help you ride the waves of an ever-changing market.

Rifle Barrels

Drilled, reamed, rifled, and stress-relieved to your specifications, Vortakt barrel blanks are available in an assortment of calibers, profiles, and twist rates. Barrel blank orders can be processed in limited batch orders or in large-scale blanket purchase order quantities numbering in the hundreds of thousands.

Pistol Barrels

Produced with the same precision and quality as our rifle barrels, Vortakt pistol barrels can be cut to length, semi-finished into "lollipops," or finished per your drawing specifications. Our unique machining capabilities allow Vortakt to accommodate the complex operations required when producing pistol barrels.

Cut-Rifled Barrels

Our Series 500 barrel blanks and finished barrels leverage the latest in single-point cut rifling technology. Featuring a lead-lapped finish and rifled with a UNISIG R25 servo-driven CNC rifling machine, these barrels exceed the expectations of even the most discerning rifle manufacturer.



The Best UNISIG Equipment

Vortakt customers have the confidence of knowing their barrels are made on UNISIG gundrilling, reaming, and rifling machines. Vortakt uses modern technology and automation and a highly controlled process, producing barrels with repeatable performance. Our vast experience with machine tools, as well as the firearm industry, gives us the strong foundation needed to conquer challenges and support our customers.

Equipment and Technology

UNISIG Machine Tools & Equipment

- UNISIG UNE Gundrilling Machines
- UNISIG UNI Gundrilling Machine
- UNISIG UNR Reaming Machines
- UNISIG R-2A Button Rifling Machines
- UNISIG R25 CNC Button/Cut Rifling Machine
- UNISIG Gundrill Grinder

Additional Machine Tools & Equipment

- Doosan Puma GT2600L CNC Lathe
- Okuma LT2000EX CNC Lathe
- Amada/Marvel PA260MPC Automatic Bandsaw
- W.F. Wells Bandsaw
- GMC GMM-949V Bridgemill
- Acra Turn 1340 Engine Lathe
- Air Gauging Equipment

Automation

- Fanuc M-20iA/35M Robots
- Automatic Tool Return

Software Systems

- Solidworks
- AutoCAD
- Mastercam
- Microsoft CRM
- Jobboss ERP System
- MT Connect Machine Monitoring

VORTAKT PERFORMANCE SERIES

The following series options are engineered and manufactured at defined precision levels to best suit the unique precision and economic requirements of our OEM clients:

SERIES 100

SERIES 100 BARRELS have a shorter lead time and a lower price point, offering a streamlined solution to OEMs who are looking to support their supply chain through a reliable partner.

PRECISION POTENTIAL PRODUCTION TIME COST

SERIES 200

SERIES 200 BARRELS are our most popular option, balancing price, process, and performance standards for an extremely high-value barrel blank. These barrels can be manufactured in production batches of 50 to 100,000+ pieces.

PRECISION POTENTIAL PRODUCTION TIME COST

SERIES 300

SERIES 300 BARRELS are produced with specially developed process parameters by slowing gundrilling and feed rates, featuring a lapping operation for an improved surface finish that results in match-grade performance.

PRECISION POTENTIAL PRODUCTION TIME COST

SERIES 400

SERIES 400 BARRELS offer a premium surface finish and consistent bore and groove diameters. The addition of the lead lapping process makes these the highest performing button-rifled barrels offered by Vortakt.

PRECISION POTENTIAL PRODUCTION TIME COST

SERIES 500

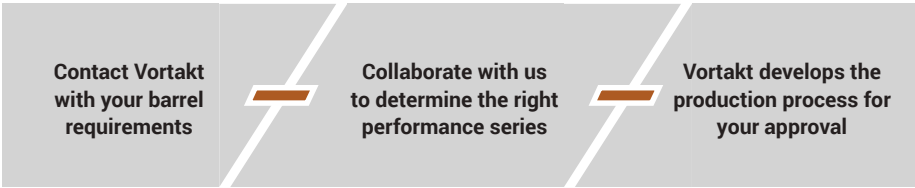
SERIES 500 BARRELS are more powerful, offering the best performance through the tightest bore and groove tolerances, lead lapping, single-point cut rifling, and extreme quality inspection at each step of production.

PRECISION POTENTIAL PRODUCTION TIME COST

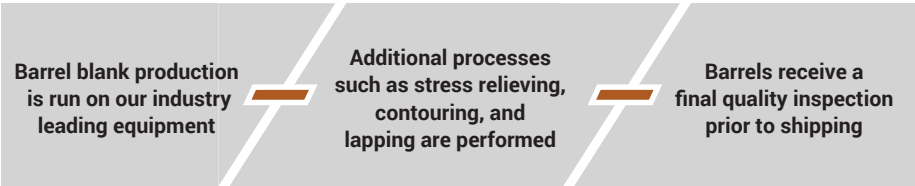
PARTNERING WITH VORTAKT

Vortakt supports firearm OEMs throughout the entire process, from engineering to manufacturing, through shipping and inventory management. Our customers benefit from our strengths, while freeing up resources to continually improve their own business.

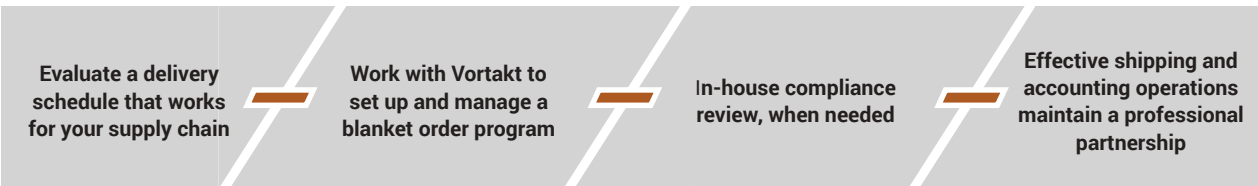
Engineering



Manufacturing



Business



Manage Risk, Invest in Growth

Vortakt Barrel Works fully integrates into your production system, functioning as a direct extension of your supply chain. Our operational partnership provides access to decades of barrel manufacturing knowledge, considerable investment in tooling and technology, manufacturing intelligence, and strong business units.

Blanket Order Programs

Blanket orders allow our customers the option to order up to a six month supply at once – taking advantage of volume pricing but scheduling delivery and payments to maximize your cash and inventory.

CALIBER & ORDERING INFORMATION

Common calibers are available with an express lead time. Please request a quote for additional calibers.

STANDARD CALIBER	COMMON CHAMBERING OPTIONS	NUMBER OF GROOVES	TWIST RATES (in.)
.17	.17 HMR, .17 Mach 2, .17 WSM	6	1:9
.22 RF	.22 LR	6	1:16
5.56mm (.22 CF)	.223 Rem, .223 Wylde, 5.56 NATO, .224 Valkyrie, .22 TCM, .22-250 Rem	5R	1:7
		6	1:6 1:6.5 1:7 1:8 1:9 1:12 1:14 1:16
6mm (.243)	.243 Win, 6 Dasher, 6 Creedmoor, 6x47 Lapua, 6BR, 6GT	4	1:7 1:8
		5R	1:7.5
.257	.25-06, .257 Weatherby	6	1:10
6.5mm (.264)	6.5 Creedmoor, 6.5 PRC, 6.5 Grendel, .260 Rem, 6.5x47 Lapua	4	1:7.5 1:8
		5R	1:8
		6	1:7.5 1:8
6.8mm (.270)	.270 Win, .270 WSM, 6.8 SPC	4	1:10
7mm (.284)	7mm-08, 7mm Rem Mag, 7mm WSM	5R	1:9
		6	1:8.5 1:9
7.62mm	7.62x39, 7.62x54R	4	1:10
.30	.308 Win, 7.62 NATO, .30-06, .300 Win Mag, .300 PRC	4	1:10 1:12
		5R	1:8.5 1:10
		6	1:10
.300 BLK	.300 Blackout	5R	1:5 1:6 1:7 1:8
.338	.338 Lapua Magnum, .338 Federal	6	1:9.3 1:10
9mm	9mm Luger, .350 Legend, .357 Magnum	6	1:10 1:14 1:16 1:10 LH
		6R	1:10
.40	.40 S&W, 10mm	6	1:10 1:16
.45	.45 ACP, .450 Bushmaster, .45 Raptor	6	1:16 1:24
.458	.458 SOCOM, .45-70 Gov	6	1:14
.50	.50 BMG	8	1:15

Export laws may restrict the sale of products. Please contact us for more information and to obtain a quote for barrel blanks and related services.

GET STARTED WITH VORTAKT

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Vortakt is a division of Entrust Manufacturing Technologies, Inc.

JAN 2021 US-EN

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