



RIFLE • PISTOL • CUT RIFLED

Barrel Manufacturing for OEMs



WHEN YOU'RE MANUFACTURING FIREARMS

You need more than the right barrels. You need the right manufacturing and business partner so that you can thrive.

Firearm manufacturers face a demanding, fast-paced market. Vortakt supports OEMs with barrel manufacturing, made to your specifications and our high quality standards, delivered on your schedule, at volume pricing.

Vortakt customers benefit by taking advantage of our investment in modern tooling and technology, combined with our deep engineering background.

We further support our customers with strong business practices, so you can balance financial risk, respond to industry changes, and confidently bring the best products to market.

VORTAKT BARREL WORKS

Rifle Barrels

Rifle barrels are manufactured utilizing the button rifling process to your specifications and our standard performance levels. Rifle blanks, semi-finished, or finished barrels are available.

Pistol Barrels

Pistol barrels are produced with the same precision and quality as our rifle barrels and can be cut to length, semi-finished into “lollipops” or finished per your drawing.

Cut Rifled Barrels

Cut rifled barrels use the single point cut rifling process, along with lead lapping, to produce the highest accuracy barrel for competition and precision rifles.

TECHNOLOGY, TOOLING & INTELLIGENCE



The UNISIG Connection

Vortakt customers have the confidence of knowing their barrels are made on UNISIG gun drilling, reaming, and rifling machines. Vortakt uses modern technology and automation, and a highly controlled process, producing barrels with repeatable quality. 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

Machine Tools

- UNISIG UNE Gun Drilling Machines
- UNISIG UNR Reaming Machines
- UNISIG R-2A Rifling Machines
- CNC Lathes
- CNC Machining Centers

Automation

- Automatic Tool Return
- Fanuc Robotics

Additional Tools

- Air Gauging Equipment
- UNISIG Gundrill Grinding System

Software Systems

- Solidworks
- AutoCad
- Mastercam
- Microsoft CRM
- Jobboss ERP System

Barrel Blank Manufacturing

- Gun drilling
- Reaming
- Button rifling + stress relieving
- Cut rifling

Pre- and Post-Operations

- Material sourcing
- Process development
- Facing and chamfering
- Turning and contouring
- Lapping

Quality Assurance

- Air gauging for bore/groove diameter and uniformity
- Digital borescope inspection
- Counter-rotation for reduced runout and improved concentricity

VORTAKT PERFORMANCE SERIES

The following series are engineered and manufactured at defined quality levels to meet OEMs precision and economic needs.

SERIES
100

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

ECONOMY PRECISION

BUTTON RIFLED

FASTEST PRODUCTION TIME

SERIES
200

SERIES 200 BARRELS are our most popular, balancing price, process, and quality standards for an extremely high-value barrel blank.

STANDARD PRECISION

BUTTON RIFLED

STANDARD PRODUCTION TIME

SERIES
300

SERIES 300 BARRELS are produced with specially developed process parameters, and are lapped for improved surface finish, resulting in match grade performance.

MATCH GRADE PRECISION

BUTTON RIFLED

SLOWED PRODUCTION TIME

LAPPED

SERIES
400

SERIES 400 BARRELS offer a premium surface finish and consistent bore and groove diameters with the addition of lead lapping, for the highest level buttoned barrel.

MATCH GRADE PRECISION

BUTTON RIFLED

SLOWED PRODUCTION TIME

LEAD LAPPED

SERIES
500

SERIES 500 BARRELS put accuracy first through the tightest tolerances, lead lapping, cut rifling, and extreme quality inspection at each step of production.

MATCH GRADE PRECISION

CUT RIFLED

SLOWED PRODUCTION TIME

LEAD LAPPED

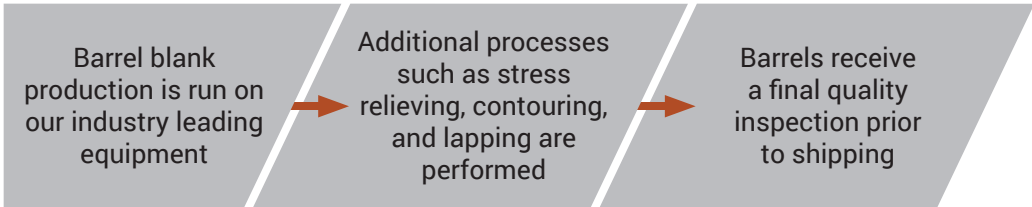
PARTNERING WITH VORTAKT

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.

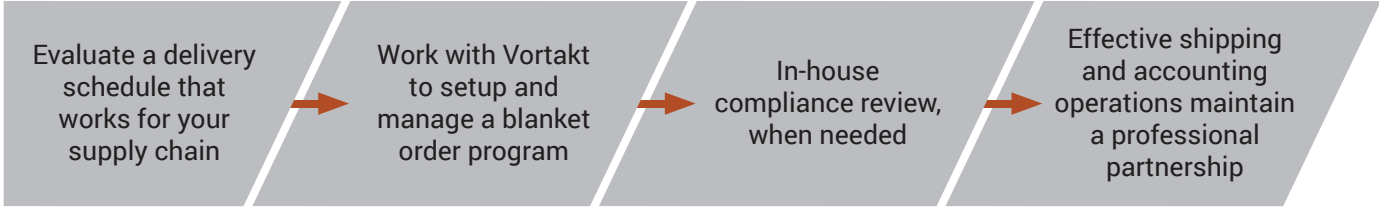
Engineering



Manufacturing



Business



Manage Risk, Invest in Growth

We support you as an extension of your supply chain. Leverage our tooling and technology, manufacturing intelligence, and strong business units to maximize your own resources. Alleviate risk, react to fast-paced market changes, and scale your business with confidence.

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 submit your 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	1:8
		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

vortakt.com

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