



NOVOSK 丹麦诺思科有限公司
NOVOSK APS

China Sourcing and Custom Manufacturing



Your local Chinese supplier for all mechanical parts

- Precision Metal Casting
- Sheet Metal Fabrication
- CNC Machining
- Plastic Injection Molding
- Rapid Prototyping



Novosk-Your Local Chinese Partner



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Novosk is a Danish sourcing and engineering consulting company, specialized in sourcing and manufacturing high-quality products and components from China.

Novosk was initially established in 2008 by two Chinese engineers, who worked and lived in Denmark for more than 10 years. And today it grows to a team of 7 manufacturing experts with a strong network of hundreds of reputable and trusted manufacturers in China.

Company's headquarter in Denmark manages each on-going project, and is the customer contact window; while our staff in China liaise with the contract manufacturers.

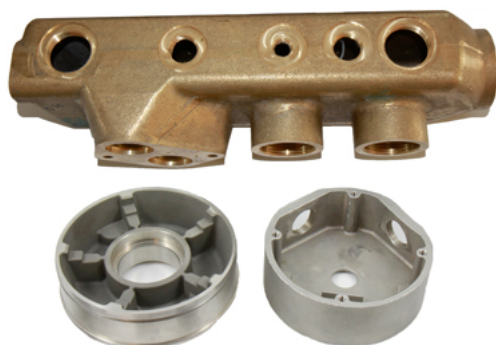
Novosk is fully responsible for the entire supply process from initial enquiry to delivery of finished products to the customer's address in their home country.

► Services we provide

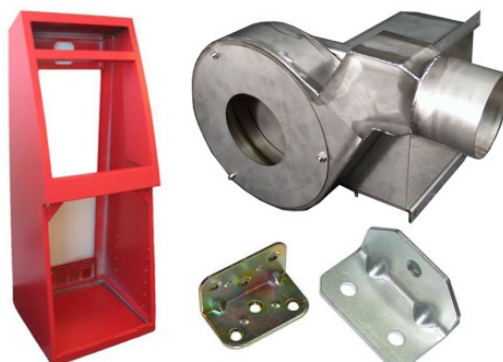
1. Custom Manufacturing and Sourcing Service

Novosk offers a wide variety of custom manufactured products and parts, ranging from metal, rubber, plastic and their production tools related from China.

We service the industries from machinery, offshore & marine, food processing, wind energy, biotech & medical, consumer electronics and many other fields.



Metal Casting Parts
/ Metalstøbning dele/ 金属铸造



Sheet Metal Parts
/ Metalplader dele/ 钣金加工



Machining Parts
/ Bearbejdning dele/ 数控加工



Injection Molding Parts
/ Sprøjtestøbning dele/ 注塑



Production Tools
/ Produktionsværktøjer/ 注塑模具



Rapid Prototype Parts
/ Prototyper dele/ 手板模型

We also offer standard components sourcing, like industrial fastener, logistic and warehouse equipment, gift and promotional items, packaging materials etc.

For more information, please visit our web site: www.novosk.dk

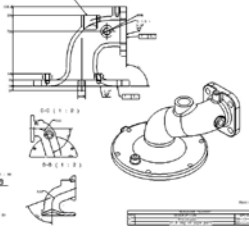
It is all about sourcing and manufacturing from China

Material specifications/ Materialespecifikationer/ 材料规格:

Metal Casting/ Metalstøbning/ 金属铸造	Materials/ Materialer/ 材料
Lost Wax Casting/ Formstøbning	Stainless Steel: SUS 304, 316, 316L, 202, 201, 410, 420; DIN 10213-4: 1.4308, 1.4309, 1.4408, 1.4409, 1.4552 Carbon Steel: DIN 1681: GS-38; GS-45; GS-52; GS-60; DIN 17100: St 33; St 37; St 44; St 52; St 50; St 60 Low Alloy Steel: DIN 10213-2: 1.5419, 1.7357, 1.7379, 1.7365; DIN 10213-3: 1.6982
Die Casting/ Trykstøbning	Aluminum, Zink, Magnesium
Sand casting/ Sandstøbning	GGG40, GGG45, GGG50, Aluminum, Bronze, Brass
Metal Injection Molding (MIM)	Stainless Steel: 316L, 317L, 430, 17-4PH, 420, 310, 440B Low Alloy Steel: FN02, FN0205, FN08, 8620, 42CrMo4, 100Cr6 Magnetic Alloy: F, FeSi3, FN50 Special Alloy: Titanium
Sheet Metal Fabrication/ Metalplader forarbejdning/ 钣金加工	Materials/ Materialer/ 材料
Stamping/ Stansning	Steel Stainless Steel Aluminum Brass Copper etc.
Bending/ Bukning	
Welding/ Svejsning	
Laser Cutting/ Laserskæring	
Deep drawing/ Dybtrukning	
Machining/ Bearbejdning	
Extrusion/ Ekstrudering	
Surface treatment/ Overfladebehandling	Powder Coating, Spray Painting, Electroplating, Anodizing, Polishing etc.
Plastic Injection Molding/ Plast Sprøjtstøbning/ 注塑	Materials/ Materialer/ 材料
Plastic Injection Molding/ Plast sprøjtstøbning	PC, ABS, PE, PP, POM, PMMA, TPE, PA6, PA66GF, etc.
Rubber Compression molding/ Gummi kompressionsstøbning	Silicone Rubber, NBR, EPDM, etc.
Rapid Prototyping/ Hurtigt prototyper fremstilling/ 快速成型	Materials/ Materialer/ 材料
Rapid 3D Printing and CNC machining	SLA, SLS, Aluminum, Steel, Wood and all other prototype materials
Fast prototyping tooling	Plastic and metal parts from prototype tools within 3 weeks

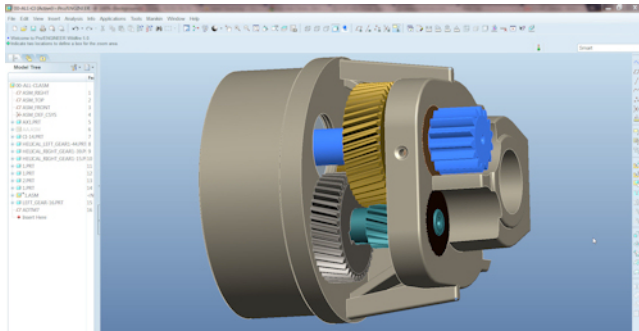
For other materials, please contact our sales engineer.

A typical plan for a custom manufacturing project:

Quotation and DFM	Tool/Mold Making	Sample Approval	Mass Production	Packing & Logistics
				
1-2 weeks	4-6 weeks	1-2 weeks	4-6 weeks	1 week by air / 5 weeks by sea

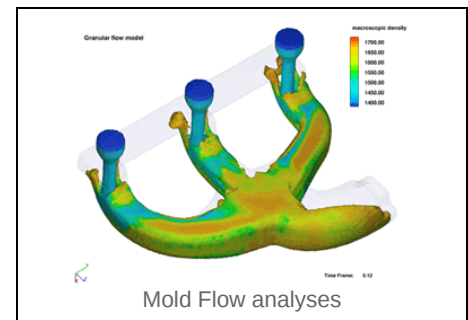
Barrier-free Communication in Danish, Chinese and English

2. Engineering Consulting Service:



Our sourcing services include:

- Conceptual design and visualization
- Top down design: 2D and 3D modeling in using Pro/engineer and Catia CAD software
- Detailed Product development, designed for Plastic injection, Metal casting, Sheet metal fabrication
- Design Optimization (FEA, Mold Flow Analysis for plastic injection molding and metal casting simulation)
- Rapid Prototyping Service
- Production Process Development and Optimization
- Product Design Verification Test (DVT, ALT)



SLS 3D printed prototype LED lamps

Rapid prototype parts in 1-2 weeks

3. Quality Assurance & Product Certification:

Most of our sub-suppliers are ISO 9001 certified, and some are even TS 16949 approved.

APQP process includes: **Six sigma, PPAP, FMEA, SPC and MSA** methods are used in production to ensure consistent high quality.

And all products can be tested according to customer's specification and delivered with certification like ROHS, REACH, CE, UL etc.

We can also deliver marine parts with special certification by ABS, BV, GL, DNV, LR, KR, NK.

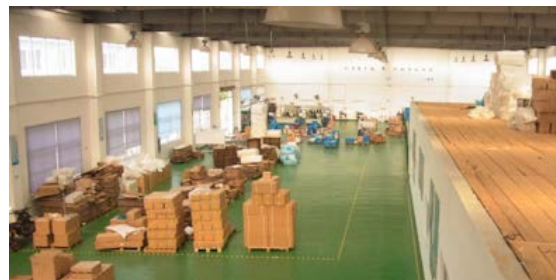
Furthermore, we do final OQC check in our own warehouse before each shipment.



4. Products Assembling & Global Logistics:

All products can be packed according to customer's requirement, OEM labeled.

Novosk takes care of all logistics from factory in China and **deliver the finished products to your door in your home country.**



Freight China to Denmark: Sea freight 5 weeks, starting from 2500 kr per ton;
Air freight 3-5 days, starting from 28 kr per Kg, All included.

Six Sigma, PPAP, Process-driven Quality

► Case studies

Case study 1: Manifold for gas exhauster



Benefits

- Cost reduce: 30%
- Removed all welding process
- Increased flow dynamics
- Robust design
- Increased product reliability
- Reduce production lead-time

Original design in sheet metal

Customer's original design was traditional sheet metal design, which involves 20 steps of welding process. As product requires no leakage at 2 bar pressure, it is very difficult to ensure all welding surfaces are intact. And it is very difficult to keep the geometry tolerance after all welding processes.

New design in lost wax casting

We mold all the parts in one shot tool, and left only the 2 big flanges surfaces for machining. There is totally no welding process involved any more.

Case study 2: Motor Suspension bracket



Benefits

- Cost reduce: 40%
- Weight reduce: 74%
- Design Freedom
- Corrosion & Chemical Resistance
- Sound and Vibration dampening

Original design in aluminum die casting

Traditional die casting design in aluminum

New design in plastic injection molding

We suggested PA66/GF60 (nylon with 60% very long glass fiber)

Mechanical Comparison	Aluminium	PA66/60% GF
Specific Gravity	6.6 g/cm3	1.7 g/cm3
Tensile Strength	282 MPa	275 MPa
Flexural Modulus	85.5 GPa	19.3 GPa

Case study 3: Eccentric part for rotating nozzle



Benefits

- Reduce material waste 40%
- Reduce machining time 100%
- Reduce total cost 60%

Original design by pure machining

Machining rod Ø40, waste material and very long machining time due to the eccentric shape

New design by precision metal casting

We casted the whole part in one piece, and still keep all tolerances required

► Why us

Expertise

China Know-how

Danish, Chinese and English Speaking

Guaranteed Quality

Delivered to Door

Benefits with us:

China Know-how manufacturing:

There are many excellent factories in China; however, dealing with Chinese factories requires a lot of experience and professional knowledge.

Knowledge is the key: Material knowledge, processing technologies, product design experience, quality control, end product reliability testing, and cross-cultural project management. Our manufacturing and R&D engineers have been working in the area over 10 years.

Communications in Chinese, Danish and English:

Communication is absolutely most important in custom manufacturing, and our project managers, engineers speak fluent English, Chinese and Danish!

Best Chinese factory price:

Most Chinese factories, especially the low-cost ones, don't have abilities to deal with foreigners. We deal directly with factory in local Chinese terms to keep the lowest operation cost. So typical **20-60%** saving can be expected compare with western countries, even cheaper than buying directly from China by yourself, experienced by many our customers!

Local engineering and customer service:

Our engineers in Denmark offer local engineering and customer service to ensure a comprehensive understanding of customers' requirements, and to ensure same information is passed to the manufacturers accurately.

Risk free:

All sourcing processes are under Danish law.

Danish term of trade!

You pay to our bank in Denmark, and we undertake all payments to suppliers in China. Customer receives an invoice payable in Europe.

Guaranteed quality:

Our own in-house QC engineers monitor the whole production constantly, and we inspect quality thoroughly before each shipment.

Delivered to door:

All products can be packed according to customer's requirement, and we deliver the finished products to your door in your home country.

Novosk offers one-stop shop sourcing service for all your needs in mechanical parts.



CUSTOMER TESTIMONIALS

"Samarbejdet med Novosk, som vi har haft siden midten af 2010, opstod i erkendelse af at det, som europæisk firma, er meget vanskeligt at source komponenter ind fra Kina. Dels er afstanden stor, det er Kina også, dette gør det tids og omkostningskrævende at finde de rigtige leverandører. Vi indså hurtigt at vi var nød til at finde en partner der kunne tage sig af hele processen med at finde de rigtige leverandører til os, samt sikre at den kvalitet vi får leveret, modsvarer vores behov. Denne opgave har Novosk, gennem årene, løst til vores fulde tilfredshed. I hele sourcing processen har Novosk været en meget vigtig partner for os. Kommunikationen er meget enkel, vi sender en tegning, er der spørgsmål får vi dem afklaret, i mange tilfælde rådgiver Novosk os om den optimale fremstillingsproces og i løbet af meget kort tid har vi et tilbud på de færdige komponenter.

Novosk's store styrke er de teknisk og kommercielt meget kompetente medarbejdere i kombination med et meget stort netværk i Kina, dette sikrer at vi altid finder den rigtige løsning, de rigtige leverandører samt ikke mindst den rigtige pris og kvalitet. Vi er helt trygge ved at aflevere en opgave til Novosk, vi ved at den altid vil blive håndteret på en for os optimal måde og vi kan kun anbefale et samarbejde med Novosk.

Jørgen Christiansen, Produktchef, Ellegaard Components A/S

"I mit samarbejde med Novosk, har jeg oplevet en professionalisme, jeg ikke tidligere har oplevet ved en underleverandører, med udgangspunkt i Kina. Godt for-/tilbuds arbejde, kvaliteten er rigtig og leveringerne bliver overholdt."

Allan Knudsen, Purchase assistant, Cabinplant A/S

"Jeg er meget positiv overrasket af samarbejdet med Novosk, deres profesionalisme, flexibilitet og engament på efterspurgte opgaver er fabelagtigt. De er fulde af ideer og forbedringer til nye opgaver, for at kunne imødekomme en god pris samt kvalitet."

Murat Celikkan, PTA maskin ingeniør, EC Power A/S

PARTIAL LIST OF CUSTOMERS

	Linak A/S
	P. Ellegaard A/S
	Ledon A/S
	Cabinplant A/S
	Dansk Alvøen A/S
	EC Power A/S
	Artlinco A/S
	Hetech ApS

Guaranteed Quality, Delivered to Door

► Contact us

- Is it difficult to find the right supplier in China?
- Is it not easy to communicate with your Chinese suppliers?
- Can your current supplier keep consistent quality over time, meanwhile keeping your financial budget?

If you have any of the problems above, you can contact us.

Send us drawings, pictures, samples to get a quotation now, it is totally free!

Both low and high volumes orders are welcome! (QTY from 50 to 1,000,000)

For customers within Europe, please contact our office in Denmark, you will get fast response within 24 hour.



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