



OMNIDEX

**DRIVEN BY QUALITY AND
CUSTOMER SERVICE**

World-Class Engineering and Manufacturing. At Asian prices

Introduction



Welcome to the world of Omnidex, a world where quality is paramount and where we always meet – and very often exceed – our customers’ requirements and expectations.

Whether you are a small business or a blue-chip global corporation, if you want metal or plastic products designed and manufactured to the very highest standards, the brochure in your hands will explain why you will have made the right choice with Omnidex.

In handy, easily identifiable sections, this brochure details why you should look to Omnidex for your casting requirements, metal fabrication, precision machining and production using plastics and carbon fibre. It also explains how we embrace a Western business philosophy with unrivalled commitment to quality assurance, communications, logistics and customer service.

There’s nobody in the world quite like Omnidex and we hope this brochure gives you a taste of what we are able to offer you now and in the future.

Who are we?

Omnidex has 16 years’ experience in sub-contract manufacturing in China; we have delivered world-class engineering services around the globe to blue-chip and smaller start-up companies.

Base in Guangzhou, China and Ho Chi Minh City, Vietnam, and with offices UK and USA, Omnidex uses dedicated, highly experienced engineers to produce a vast array of products for a truly global marketplace. Among the products we have helped to produce and deliver are brackets, radar housings, manifolds, superchargers, shower fitments, water pumps and many more and all of them delivered on time to the most exacting requirements.

Why do people use us?

What drives us is our passion for quality and world-class engineering. Quality is what Omnidex is all about quality of parts made and quality of service delivered.

It is because we have achieved and maintained ISO 9001 for 10 consecutive years. It's why we have customers that keep coming back, time and time again. They recognise our commitment to the highest possible standards of manufacture, to quality that consistently goes beyond their demands, and to dealing with them with the utmost professionalism and courtesy.

Having your metal, plastic or carbon fibre components manufactured in China is obviously an economical choice, saving your funds off your bottom line that you can invest back into your business to develop it further.



But with Omnidex it is far more than that – choosing us to manage the production of their valuable parts is a decision made by companies who aren't just financially driven but who are also determined to keep their own customer base by supplying them with finished items that impress them so much they will come back for more.

Of course, Omnidex is involved in many one-off projects where components are required within extremely short timeframes and to the highest quality achievable. But the best kind of business is repeat business and choosing Omnidex means you can have the confidence your client will be satisfied every single time.

Imagine a world where your car starts every time without fail, where when you flick the switches in your home the bulbs invariably light up, where your favourite comedy show never fails to make you laugh and where you never experience network or internet drops – that's the ethos that Omnidex champions. No disappointments, no doubts, just consistency from start to finish, from commission to delivery.

ABOUT US

Mission statement

“We are a sub-contract manufacturing and sourcing specialist that is committed to providing world-class quality at Asian prices. We are driven by a passion for quality and excellence and we will never produce anything that is below the standards that our customers demand.”

Our customers demand and expect us to provide world class quality products and that is precisely what we do – in fact, we often do much more than that and we certainly never do less.

Western values

Omnidex has operated in the Eastern side of the globe for many years and has some of the most talented engineers in the world on its payroll. East is most definitely the place to be when sourcing materials and producing components and we are justifiably proud of all our staff in this region and of their abilities.

But we are equally proud of our adoption of and adherence to a decidedly Western business philosophy. After all, Omnidex is Western-owned and managed.

What does that mean to you? It means that Western companies who use our services need have no doubt-

whatsoever that while they may be handing over responsibility for the production of theirs – often precious or highly valuable – products to a company based in the East, they will always receive the same seamless service as if they were working with an indigenous manufacturer... only much better in so many ways.

These values have not just been taken on so that we can work closely with Western clients. They have their basis in the directors, managers and engineers who make up Omnidex – all of them have close to 20 years' experience of the Western ways of production, of Western values and of Western clients' expectations.

Logistics and communications

We've established that Omnidex has the engineering knowledge, the Western experience, the total and unswerving dedication to quality, the capability of world class engineering and manufacturing at Asian prices. But what about getting your message across when you are delivering the initial brief of what you require? What about getting your parts delivered to the correct location, at the correct time and with zero errors, damage or delay?

You needn't be concerned that something in your brief will become 'lost in translation'. Everyone you deal with either has English as their first language or is so fluent in English that it's hard to tell the difference. Not only can 95% of our highly Trained staffs speak English, Vietnamese and Mandarin many can also speak various local languages within Asia.

We will also provide you with detailed drawings and photos that will always include Chinese instructions and captions so that any opportunities for confusion are eliminated completely. In short, we promise outstanding communications that complement our unrivalled standards in production and customer service. In terms of logistics, over the years Omnidex has created one of the most impressive - and reliable - supply chains you are ever likely to



encounter. As with communications, our logistics service is intended to make your experience of working with us indiscernible from working with a manufacturer based in your home country. This means that we keep you informed at every stage of the delivery process and you never need to ask where your components are. But if you did, nobody at Omnidex would answer you with a shrug of their shoulders we always know precisely where your goods are and when you will receive them.

Confidentiality

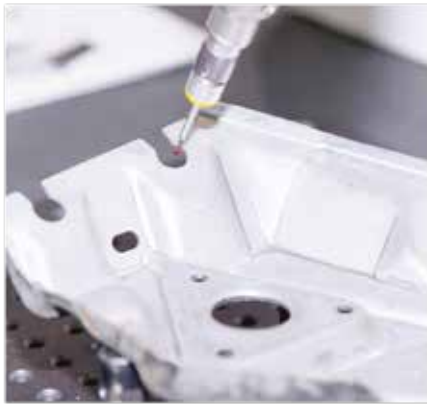
Here at Omnidex we respect everything about our customers, and that includes their intellectual property (IP) rights. That's why we are unable to show you all the superbly crafted components that we have designed and produced for countless quality conscious companies. The images on these pages are impressive in their own right but they are by no means our entire portfolio of processes and products.

Confidentiality is key in the industry sectors that we operate within and every company that works with Omnidex can be sure that their designs, their production requirements and everything about their components are dealt with on a strictly private and confidential basis.



Quality

There are three key criteria that should drive every manufacturer – quality, quality and quality. That’s why we make no apology for repeating throughout this brochure that we are committed to quality at every stage of the design, origination, manufacturing and supply process. Of course, every company should have quality at the heart of everything they do but the reality is that quality is one area where some see the opportunity to cut corners (often in order to cut costs and timelines).



Yes, we will cut your production costs – and dramatically so – but our mission statement says it all. We will always meet the quality requirements that our customers demand but we are definitely not content to leave it at that. We strive at every opportunity to surpass the quality that you are looking for because we recognise that quality is what you expect. It is a given fact and that’s why we always implement a vigorous step-by-step quality control programme throughout the entire customer experience. So how do we manage quality? Essentially, working to ISO 9001-2015 we have five quality control perspectives that we check everything against – regulatory, durability, safety, functionality and cosmetic appearance.



We ask customers to provide drawings and supporting documents where relevant and then we establish three quality fault levels – minor, major and critical. Using these fault levels, our quality control perspectives and the customer’s data we produce a quality specification in English, Vietnamese and Chinese.

Once the order is confirmed, we carry out quality control checks on (new) suppliers pre-production and on all parts during manufacturing and before they are shipped to the customer.

The quality control levels we work on are ‘standard’ and ‘enlarged’ (for high-value and complicated products) for samples or ‘total’, in which the entire shipment is inspected.

Many companies claim to have quality control systems in place but it’s clear from the above that we are genuinely committed to achieving world-class quality every time and that’s what delights all our customers.

CASTING

Manufacturing in metal

Omnidex offers sub-contract manufacturing using 19 different metal processes, including six different methods of casting.

Sand casting

Using low-cost tooling and relatively low-cost materials, sand casting is perfect for low-volume production in ferrous and non-ferrous metals. Mould preparation is comparatively short, whether working on small precision components or larger parts, and this makes the process well suited to a diverse range of products.



Die casting

Typically working to North American Die Casting Association (NADCA) standards, we produce precision die cast parts using cold-chamber conventional die casting, hot-chamber conventional die casting, and multi-slide hot-chamber die casting. Mainly we die cast with such alloys as aluminium, magnesium and zinc but also with brass, copper, lead and tin. Die casting is one of the most versatile metalworking processes, creating countless varieties of parts used in almost every industry imaginable. It is also ideal for producing stronger parts with closer tolerances that have greater stability and durability as well as parts that have thinner walls and smoother surfaces.



CASTING



Permanent mould gravity casting

Capable of being used with magnesium, copper, aluminium, tin, zinc, this process uses gravity induced pressure with rapid solidification to produce aesthetically pleasing and fully functional castings that have the ability for large volumes of production. This type of casting is perfect for producing complex shapes and designs with finer grain structure.

Investment casting

Omnidex is one of the best investment casting companies operating within the industry today. Ideal for producing solid parts as well as complex, hollow cores, investment casting works with many different ferrous and non-ferrous casting alloys to produce the most intricate shapes with excellent surface finish and high dimension accuracy. Capable of producing near-net shapes, this casting method is well suited to rapid prototyping in aluminium, mild steel, alloy steel, stainless steel and bronze.

CASTING

Lost foam casting

This casting process is ideal for very complex castings that would normally require cores. Highly accurate dimensionally, lost foam casting produces an excellent 'as-cast' surface finish. It also requires no draft and has no parting lines which means no flash is formed. This means the process is generally more economical than investment casting, it reduces waste and it minimises post-casting processes. Typically, lost foam casting is used when working with aluminium alloys, nickel alloys, steels and cast irons.



Shell casting

We recommend using shell casting for producing a variety of complex shapes and fine details due to its excellent surface finish and high production rate. Perfect for casting zinc, aluminium, bronze, iron and steel, shell casting uses a resin-covered sand to form the mould.



MACHINING



Precision machining

As well as casting, Omnidex can source a wide variety of precision machining processes.

Indeed, we are acknowledged to be one of the most outstanding, world-class CNC machining companies operating within China and Vietnam in the 21st century.

Working in small and large volume production, our precision machining capabilities include:

CNC machines are perfect for mass production of parts that are identical and can offer high levels of productivity through automated tool changing. We have earned a reputation for being able to produce complex shapes to tight tolerances and highly demanding geometries and all components are checked using a computer-controlled co-ordinate measuring machine (CMM).





CNC milling

This process has the ability to achieve extremely tight geometric tolerances in terms of diameter, true position, profile and flatness. Omniindex offers affordable high precision 3-, 4- and 5-axis milling due to the lower tooling costs involved and has the ability to create an extensive range of complex parts.



CNC turning

Today's state-of-the-art CNC lathes are well suited to cutting steels, composite materials, exotic metals and aluminium as well as plastics. We only use the very best.



FABRICATION

Metal fabrication

Another process that Omnidex has become an expert in is precision metal fabrication which enables extremely high-quality parts to be produced for very competitive costs.



Fabrication

The processes available for metal cutting include laser cutting, plasma cutting, water jet cutting, punching, stamping, and hard material cutting using electric discharge machines (EDMs). In terms of metal forming, Omnidex offers a range of bending, shearing, deep drawing, roll forming, spinning and welding services.

Among the welding services available through Omnidex are gas tungsten arc welding, gas metal arc welding, robotic welding and friction stir welding, which is particularly suited to aluminium alloys.



Laser cutting offers a high-quality cut and narrow kerf and can be used to cut aluminium, plain steel, stainless steel and spring steel.



Plasma cutting is perfect for working on steel and non-ferrous materials that are under 254mm thick and its benefits include high levels of speed and accuracy.



A far more simple process is CNC punching which forces a tool through a work piece to create a hole. Likewise, stamping simply presses a flat sheet of metal into the desired shape.



Water jet cutting can slice through 120mm thick aluminium sheets as well as copper, brass, stainless steel and steel. EDM machines are perfect for producing intricate and delicate shapes where a good quality surface finish is required.



Bending enables contours, corrugations, flanges, curls and other similar geometries to be made in a part while shearing can cut straight lines in flat metals, typically stainless steel, aluminium, brass, mild steel and bronze. Also, spinning rotates a disc or tube of metal at high speed and forms it into an axially symmetric part.



We also provide the following metal manufacturing services:

Metal forging manufacturing

Including open die forging, impression die forging and precision die forging. Whether you are looking for short runs or high volumes, forgings can be produced in steel, bronze or brass. If you prefer, we can also supply CNC-machined metal forging tools.



Metal finishing and polishing

The cost may be low but the quality is high. Polishing and finishing services are available for aluminium, stainless steel, bronze, brass and zinc. Polishing and finishing processes include aluminium wheel polishing, metal buffing polishing, finishing (polishing or removing excess material) and chemical brightening. We also specialise in pre-plating polishing.



Mining engineering

Omnidex is also a renowned specialist in the metal fabrication of mining equipment. Our highly trained teams are able to deliver services covering high-quality steel and iron castings and products that include crushing jaws, catwalks, wear plates, safety guards, chutes, bins, skids, hydraulic lifts, conveyor belts, segments with cutting teeth and many more. Of course, because we operate to ISO 9001:2015 all our mining equipment satisfies all the regulatory quality requirements and world-class standards.



PLASTICS

Manufacturing in plastic

Of course, we are not just a specialist in sub-contract manufacturing of metal components and parts. We also have many years' experience in a wide variety of plastics processing techniques.



Perfect for producing prototypes or tooling in just a matter of days, these techniques include :

- Injection moulding
- Two-colour/material injection moulding
- Blow moulding
- Polyurethane moulding
- Profile extrusion
- Film extrusion
- Thermoforming
- Vacuum forming
- Rotational casting

We also make moulds and dies for metal and plastics manufacturing processes. What's more, Omnidex has decades of experience of sourcing a vast array of plastics and plastic products

Manufacturing in carbon fibre

For those companies who require carbon fibre products – such as those operating in the automotive, wind energy and aerospace sectors – we can offer product design and manufacture in this high tensile strength, low weight resistance modern material. Other features of carbon fibre include high chemical resistance, high temperature tolerance and low thermal expansion.

Other services

And that's not all. There is so much more to Omnidex than sourcing the best materials and manufacturing low-cost, high-quality components and products.



Among the many other services our customers take advantage of are :

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- Product design
 - Rapid prototyping and low-volume production in metals and plastics
 - Process and manufacturing development
 - Specialist process development for new products
 - Product development
 - Manufacturing management
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TESTIMONIALS

What our customers say

We don't expect you just to take our word for it that we can meet all your high-quality manufacturing needs for a fraction of what you would pay elsewhere. So here's what just a few of our customers have said about us:

Stan Mason,
Great American
Business Products,
Houston, Texas,
USA

“ When we first approached you we were worried about the possible quality out of China. You soon proved to us that not only could you match the quality but generally exceeded it by far and you have consistently proven to us that quality is the number one weapon in your arsenal! In the seven years we have been working together you have become our top vendor because of the quality, communications and price that you consistently provide. We also appreciate your regular suggestions and improvements that you consistently make to improve, even further, the design and quality of our products. ”

Neil Maher, Buyer
Joerns Healthcare
Pershore UK

“ I would like to thank the team at Omnidex for their excellent work in rushing through the first delivery of our components. The standard of the work was very good and Omnidex have set the standard for our other suppliers in terms of speed, quality and communication. I was especially impressed with the Quality Report in both the detail and layout. We will be placing full production orders for these parts based upon the samples that we have received. ”

Neil Hunt,
Managing Director Asia
Pac McLanahan
Corporation Pty,
Newcastle,
NSW, Australia

“ Omnidex has been a supplier to McLanahan Australia since 2013. Initially we were introduced through our McLanahan European office in the UK, for which Omnidex has, and continues to be, their major source of cast components for aggregate pumps. We approached Omnidex for steel castings for our mining machinery division. We had been having serious problems with our existing casting suppliers (porosity, inclusions, etc). In a meeting in their offices in Guangzhou, Omnidex demonstrated their approach to quality castings using expert design, casting flow and cooling simulation. This convinced us to start working with Omnidex. For 5 consecutive years Omnidex has been less of a supplier, but more of a business partner. Indeed the team at Omnidex have successfully manufactured machines in stainless steel, machine parts, electrical control panels, etc and as such we intend to expand the relationship which will present further manufacturing challenges in the future. As an ISO accredited manufacturer, McLanahan stipulates very tight production specifications in order to meet our quality requirements. Similarly Omnidex is a highly quality focused organisation and their production and batch documentation is easily incorporated into our own quality systems. In fact the performance of the team at Omnidex has become the benchmark against which we grade all our other suppliers. ”

Warren Ballantyne,
Managing Director,
GUTTER-VAC, Brisbane,
Queensland,
Australia

“ You kept to the tight timetable we gave you and produced an excellent design followed by production samples which, I can truly say, were beyond our expectations. You can truly claim to be world-class manufacturers. Throughout all stages of the project your communications were second to none. Your weekly timeline reports kept us informed while any queries were answered promptly and factually. Omnidex's technical expertise is, without doubt, remarkable and extensive. I have never seen a quality control system so thorough and I feel extremely comfortable and relaxed knowing every small detail is checked and recorded. We will be working together for a long time in the future. ”

Russell Wellings,
Managing Director,
Original Ltd, Shrewsbury,
UK

“ Throughout the past 11 years you and your team have added so much more to us than just the supply of quality products. You have input enormously into the design and suggested ways that we can improve and manufacture more cost-effectively and enhance the overall look and feel of the product. This is a function that goes way beyond the initial brief. You have proved beyond all doubt that Omnidex delivers in more ways than one. In fact, it's very difficult to quantify exactly how much more you provide. Omnidex is most definitely the gateway to sourcing and producing high quality components in a controlled manner. ”

Want to know more?
Just get in touch and we'll do the rest...

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