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Welcome to DevourX

DevourX is a dynamic technology innovation which is at the leading edge of a new "industrial revolution" where most of the machinery we know today will be superseded by far more efficient and ecologically friendly machinery, inspired by nature.

DevourX machines replicate nature by reproducing the forces of a tornado or cyclone. Solid material is turned to dust and moisture content is reduced simultaneously, without mechanical action.

By utilizing an ingenious technology known as "Aeroacoustics", DevourX machines process without contact, material flows within an air stream caused by voracious suction. Material particle size is reduced by a combination of simultaneous physical events caused by pressure, vacuum and sound waves.

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DevourX is the most effective and efficient fine grinding system available today. Some of the many financial and ecological benefits of DevourX are:

- Higher processing efficiency
- Reduction in processing costs
- Reduction in energy consumption
- Reduction in maintenance and servicing of equipment
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- Reduces moisture without heat
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DevourX is suitable for most fine grinding and mixing applications in mining, quarrying, cement production, food processing, power generation, gassification, ingredient processing, farming and in the manufacture of cosmetics, paint, chemicals and pharmaceuticals. It performs these processing tasks at substantially less cost and with higher efficiency than conventional equipment.

Next Steps

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Read more...

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Business Model

Doing Business with DevourX

The DevourX business model is based upon performance.

Machines are provided to Licensed Users at manufacturing cost by payment of an initial license fee. The license fee includes all costs associated with commissioning the machines on site anywhere in the world and the training of personnel in the operation of the machine.

Once operational, DevourX is paid an agreed processing fee per input tonne. The processing fee is generally based upon a percentage of the identifiable savings generated by using DevourX when compared to conventional equipment.

If the machine does not perform, DevourX does not generate any revenue, so it is in our interest to ensure the reliability and performance of every machine in operation for the benefit of both parties.

Performance information and feedback from sites throughout the world is used to accelerate development of the technology which is incorporated into new machine designs. This cooperative approach is to the benefit of all users who are guaranteed access to all improvements and the latest modifications.

Relationships

DevourX generally enters into two types of license agreements:

1 - User Agreements:

Where individual user/company are licensed on a per tonne processing fee basis.

2 - Joint Venture (JV) Agreements:

Where a partnership is established and the partner is allocated exclusive regional and/or industry rights.

In this case our JV partner is responsible for business operations, marketing and distribution in their own defined region or industry.

Some of the features of a JV agreement are:

- A new company is formed the facilitate JV. (For illustration purposes, the new company is referred to herein as "NewCo").
- NewCo shareholding is split between DevourX and JV partner. (In most cases the majority shareholding is allocated to the regional/industry partner)
- DevourX is allocated at least one seat on the board of NewCo.
- NewCo is licensed to exploit DevourX Systems in the particular region or industry.
- NewCo pays processing fees to DevourX at a predetermined rate.
- All business in that region/industry is referred to NewCo.

FAQ

DevourX FAQs

Machine Uses

- **What materials can be processed by DevourX?**
- **Are there materials that cannot be processed by DevourX?**
- **Could it process such materials if they were made to be brittle by treatment with nitrogen, for example?**
- **Can DevourX be used as a crusher?**

Machine Cost

- **What is the cost of each model?**
- **What is the lead time to order a machine?**

Machine Capacity

- **Is there more than one model of DevourX machine?**
- **What is the difference between the 2 models?**
- **What is the capacity of each model?**

Machine Footprint

- **What is the footprint of each model?**
- **What is the mass of each machine container fully loaded?**
- **Are there any special lifting requirements or do you lift using standard 4 point container lift?**
- **What are the foundation requirements on which to mount the machine?**

Energy Consumption

- **What is the energy consumption of each model?**

Power Requirements

- **What power requirements does each model have?**
- **Does each unit come with VSD and starter supplied?**

Material Feed Sizing

- **What is the maximum infeed material size for each model?**
- **Can the output particle size be regulated?**
- **Does the unit have a Grizzly or mesh as part of the inlet arrangement to limit oversize material?**
- **Does the unit have a failsafe mechanism to remove any metal objects prior to entry?**
- **Are there any special feed requirements or is a simple conveyor adequate?**

Collection of Processed Materials

- Do the machines come with collection and/or classification systems?
- What is the air flow rate at the exhaust of the machine?

Maintenance

- What is the expected maintenance interval for each model?

General

- Can you provide results for all the materials you have tested?
- What test results can you give us?
- What is the particle size distribution in and out of the DevourX?
- What moisture reduction can the machine achieve?
- What is the maximum moisture content that can be processed by the machine?
- How does the machine remove moisture?
- Does the machine require heat to reduce moisture?
- What is the noise level of the machine?
- How close to the machine will hearing protection be required?
- What control system does it use?

Testing

- How much material do you need for testing purposes?
- Can tests be performed at our location?

Questionnaire

Company Name *

Site or Division Name *

Location

Country, State etc.

Contact Name *

Contact Email *

Contact Phone *

Please provide country and area codes.

Industry *

Material to be Processed *

Material Source

Input Moisture Content *

Moisture content of the material to be processed.

Material Characteristics

Describe any properties or contaminants in the material you believe may be relevant.

Infeed Size *

Intended feed-stock particle size (input size).

Output Size *

What is the output size range you want to achieve?

Output Moisture Content *

What moisture content would you like to achieve?

Annual Throughput *

How many tonnes per year do you process?

Noise Limitation *

Site noise limitation in dBa.

Flammability & Explosiveness *

Is the material to be processed flammable or explosive in either its raw or ground form?

Data & Safety Sheets

Present Mode of Collection *

What is your current mode of collection, baghouse, cyclone, scrubber?

Current Grinding Mode

What is your current mode of fine grinding, ball mill, table mill, etc?

Current Mill Capacity

What is the throughput capacity of your current mill?

Submit

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Preferred Suppliers

RedT is an innovative design and procurement company.

Hilton are suppliers of advanced component and fabrication services.

Toshiba is a leading name in electric motors.

A leading name in lifting and assembly equipment.

For dust extraction and collection equipment.

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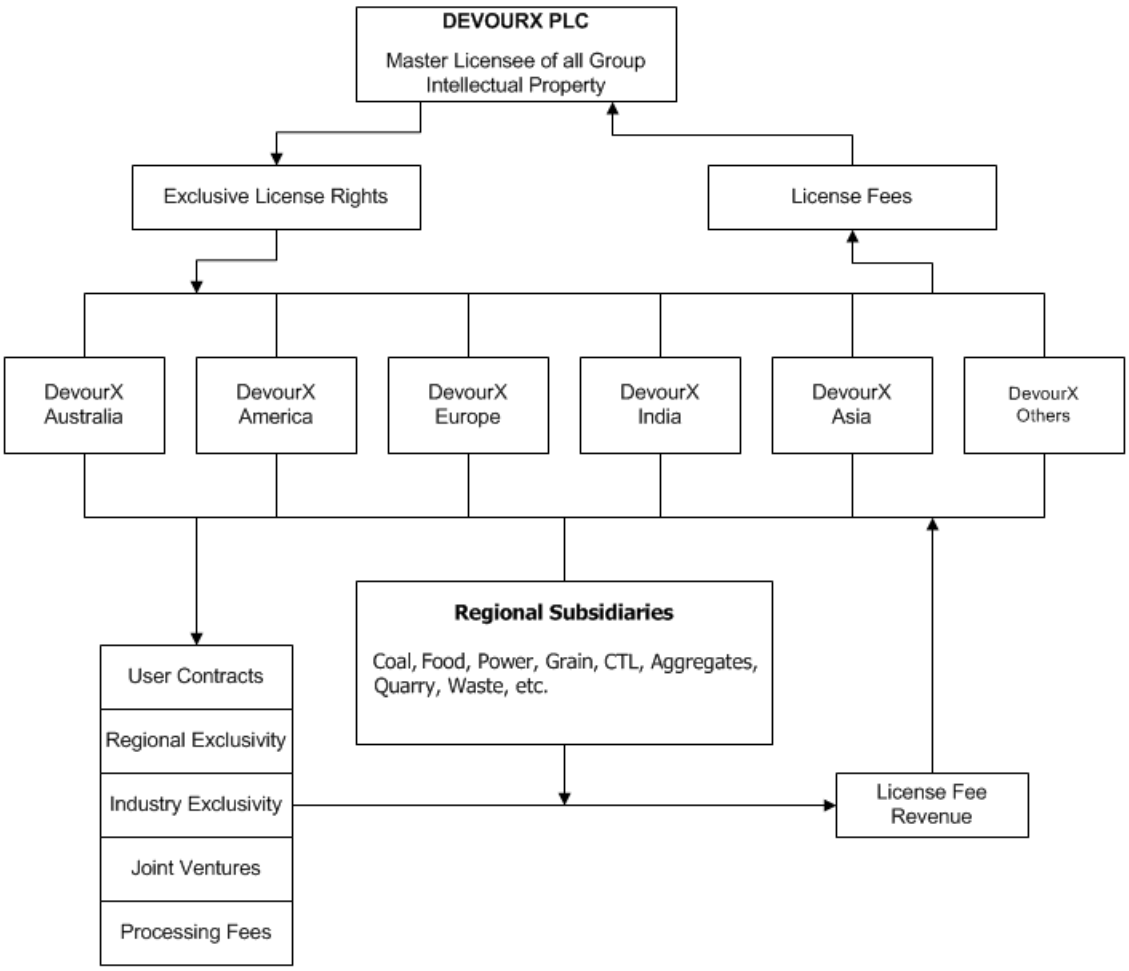
Corporate Structure



Position and Potential

DevourX is positioned to meet the increasing worldwide demand for its revolutionary processing machinery, which utilises air and sound currents to reduce and break-up solid materials and solid waste. The DevourX machine is specifically designed for fine grinding applications where ball mills, hammer mills, pin mills, jet mills etc. are currently used, it can also be adapted for use as a dryer.

In simple terms, any solid material input is devoured by the machine and turned into dust. DevourX performs these tasks with amazing speed and efficiency, delivering extremely fine particles to the collection system.

DevourX has potential applications in quarrying, food processing, power generation, oil and gas production, ingredient processing, waste treatment, farming and in the manufacture of cosmetics, paint, chemicals and pharmaceuticals. It not only delivers unadulterated, extremely fine particles faster than existing equipment, it simultaneously removes moisture and performs these tasks at substantially less cost than conventional equipment.

Additionally, DevourX provides a total solution that can be applied to a broad range of moist and solid waste. The machine is robust and can be scaled to a wide range of uses across many industries.

The strength of the machinery is its low maintenance requirement and its capacity to reduce materials to a fine dry powder in one pass, rather than multiple passes required by conventional equipment. The result is savings for the user in time, energy, wear and tear, servicing, and an immediate increase in throughput capacity.

DevourX machinery has been successfully tested and the technology proven. Machines are now being built for commercial applications, they will have a significant impact across a number of industries. It is expected that greater processing advantages will be gained from a number of efficiencies and improvements which will be implemented with each new generation machine.

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Corporate Objectives

Although our market segment activity may alter from time to time our corporate objectives remain unchanged.

- To exploit emerging markets in which cumbersome, high energy consuming, inefficient equipment is replaced by energy efficient, ecologically friendly and economical equipment.
- To be known as a proficient, resourceful organization, adept at innovation and its practical application.
- To deliver significant benefits to industry by introducing efficiencies and reducing the number of steps in the production sequence of each manufacturing process.
- To reduce carbon emissions and provide carbon credits to major industry.
- To contribute towards a substantial reduction of greenhouse gasses.
- To continually evolve our products, maintaining a reputation as industry leader.
- To realize above average investment returns for shareholders.

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Features

- High capacity - DevourX processes up to 50 times the throughput rate of a jet mill
- Throughput capacity from 25 to *150 tons per hour

*Capacity varies according to machine model, characteristics of material and moisture content)

- Efficient - High size reduction ratios exceeding 500:1 are achieved in a single pass
- Low operational costs
- Reduces processing costs
- Low maintenance
- Reduces maintenance and servicing of equipment
- Less down-time
- Proficient - Material output size can be varied between 5 and 500 micron
- Higher processing efficiency than conventional equipment
- Reduces energy consumption
- Reduces space requirements
- Reduces civil works requirements
- Significant savings in capital construction costs
- Eliminates many handling issues
- Increases nutritional value of processed foodstuff
- Removes moisture without external heat requirement
- Zero emissions
- Zero output pathogens
- Low operating temperature
- Portable

Videos

Devourx Video

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Machine Animation

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User Registration

* Required field

Name: *

Username: *

Password: *

Confirm Password: *

Email Address: *

Confirm email Address: *

Register or Cancel

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Customer Login

User Name

Password

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- Forgot your username?
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Home

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DevourX is Expanding

DevourX opens new test and demonstration facility in Arlington Texas, USA

DevourX America opened the new test and demonstration facility in Arlington in July, 2009. This facility will service the North American market for DevourX, it is located within 15 minutes of Dallas/Forth Worth International Airport.

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Is DevourX suitable for your application?

Complete our User Questionnaire to find out.

Questionnaire

Contact Us

DevourX Has a number of offices

America CONTACT	Company: Address:	DevourX LLC 3422 Old Capitol Trail Suite 1626 Wilmington Delaware 19808-6192 USA	
Australia CONTACT	Company: Address: Fax:	DevourX Australia PO Box 160 Castle Hill NSW 2160 +61 2 9659 5594	
Canada CONTACT	Company: Address:	DevourX LLC 3422 Old Capitol Trail Suite 1626 Wilmington Delaware 19808-6192 USA	
Europe CONTACT	Company: Address: Fax:	DevourX PLC U0195, Jalan Merdeka 87007 Labuan Federal Territory Singapore Science Park 1 Malaysia	
India CONTACT	Company: Address:	DevourX PLC U0195, Jalan Merdeka 87007 Labuan Federal Territory Malaysia	
Malaysia CONTACT	Company: Address:	DevourX PLC U0195 Jalan Merdeka 87007 Labuan Federal Territory Malaysia	
New Zealand CONTACT	Company: Address:	DevourX Pty Ltd PO Box 160 Castle Hill NSW 1765 Australia	
Singapore			

CONTACT

Company: DevourX PLC
Address: U0195 Jalan Merdeka
87007 Labuan Federal Territory
Malaysia

Sri Lanka

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Company: DevourX PLC
Address: U0195 Jalan Merdeka
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Malaysia

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DevourX Facilities

DevourX has a number of installations and testing facilities around the world.

DevourX in Melbourne, Australia



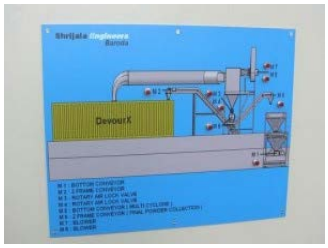
DevourX in Arlington,USA



DevourX in Arkansas, USA


DevourX in Texas, USA


DevourX in Baroda, India



DevourX in Bheed, India

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The high moisture content makes brown coal difficult to grind with conventional equipment, it becomes sticky, it clumps and is laborious to deal with. Present methods of fine grinding and drying coal involve at least three or more separate processes. The drying equipment is very expensive, cumbersome and relatively inefficient, to the extent that less than 5 percent of coal presently used in power production is dried before entering the furnace.

DevourX grinds and dries coal simultaneously at high throughput rates. It converts clumpy wet brown coal into a fine flowable powder that is carried in the air flow into the furnace. Another major advantage DevourX has over conventional equipment is that it breaks the cellular structure of coal which liberates the colloidal moisture contained within the cells. The drying efficiency of DevourX can be enhanced by utilising the excess heat that is produced at power sites and which is otherwise difficult to dispose of.

The employment of DevourX machinery can significantly reduce processing costs and maintenance, it can also substantially reduce the capital expenditure of plant and equipment, reduce the amount of coal to be burnt to produce the same amount of power, which correspondingly reduces emissions and extends the useful life of the coal mines.

Preliminary testing indicates that utilisation of DevourX machinery to process brown coal for power generation could increase their efficiency by as much as 300%. Given that hundreds of millions of tonnes of coal is used to produce power each year, the financial and ecological benefits of employing DevourX are invaluable to the user and the community.

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Oil & Gas

Coal to liquids technology requires coal to be ground to fine particles and dried before processing into gas and then liquefying it.

This is a rapidly growing market throughout the world which can be exploited by DevourX. In the next few decades, hundreds of millions of tonnes of coal will be processed to produce fuel and DevourX is well positioned to meet this demand as it may be the most efficient machinery presently available for this type of process.

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Quarrying

Quarrying refers to secondary mining, open pit and above ground removal of materials used for secondary applications such as building construction, road construction, cement, glass, farming, etc.. A number of aggregate materials are also used in foodstuff for human and animal consumption.

A number of aggregate materials are difficult to deal with due to their moisture content which requires it to be dried before it can be processed. Drying requires heating which is a major production cost that can be reduced or eliminated by DevourX due to its ability to dry as it processes without heating.

DevourX is also ideal for the extraction of substances such as platinum, titanium (rutile), silica, zircon and other elements from mineral sands and fine sands. Unlike conventional equipment, it has the ability to break the bonds that keep elements together which simplifies the process of separation and extraction.

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Process Ingredients

A wide range of industrial processes require extremely fine particle sizes for use in the manufacture of cosmetics, paint, chemicals, pharmaceuticals and ingredients for food and beverage manufacture. These industries will greatly benefit from DevourX with a reduction in the cost of refinement of their ingredients and more consistent particle sizes with unadulterated outputs.

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Grain & Seeds

DevourX can process a wide range of grains and seeds very efficiently. It processes whole grains and seeds more efficiently than conventional milling equipment due to its ability to fractionate the husk to a finer fraction.

DevourX reduces the number of steps required in the milling process, thereby reducing energy costs and the ultimate cost of the end product. The flour produced is usually higher in nutritional value due to the absence of heat that is generated by friction in conventional milling processes.

Remarkably, flour made from grains and seeds processed by DevourX do NOT require preservatives to avoid rancidity. Normally whole wheat flour will turn rancid within 3 months of manufacture, even when it is processed through microwave sterilization and preservatives are added, however, the flour produced by DevourX processing will remain sterile from pathogens for years after processing, thereby eliminating the necessity to use dangerous processing methods and undesirable preservatives. Truly organic, natural flour can only be produced by DevourX processing.

DevourX also has the unique ability to repatriate contaminated grains into a high grade flour, by removing moisture and pathogens from it during processing. This is of substantial benefit in areas where a significant amount of grain is lost due to moisture and pathogen contamination, and in regions where high humidity and rainfall effects production.

In oil extraction processes, DevourX's unique ability to rupture the husk structure makes more oil available than is possible by pressing or solvent extraction methods.

Should separation of the husk be required, this can be achieved by downline systems.

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Food Ingredients

In food processing DevourX has the ability to process numerous ingredients, either separately or simultaneously, into very fine fractions. The absence of heat during the process provides a number of beneficial aspects to the industry.

DevourX may also be used as a blender or mixer which can remove a number of steps from the production sequence.

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Glass

DevourX can efficiently process massive volumes of glass for reuse in secondary glass production at substantially lower cost and at significantly faster rates than is presently possible.

Read more...

Tyres

Most western countries have now banned the burning and burying of tyres as a form of disposal. The pollution from burning is obvious, however, many of the problems associated with using tyres in landfill, such as movement of the land many years after it has been filled, are not commonly known.

Read more...

Waste

DevourX can be used in numerous recycling applications, however, it is not suitable for processing household refuse, metal objects, plastic material or long-chain molecular structures in general.

Read more...

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Business Model

Doing Business with DevourX

The DevourX business model is based upon performance.

Machines are provided to Licensed Users at manufacturing cost by payment of an initial license fee. The license fee includes all costs associated with commissioning the machines on site anywhere in the world and the training of personnel in the operation of the machine.

Once operational, DevourX is paid an agreed processing fee per input tonne. The processing fee is generally based upon a percentage of the identifiable savings generated by using DevourX when compared to conventional equipment.

If the machine does not perform, DevourX does not generate any revenue, so it is in our interest to ensure the reliability and performance of every machine in operation for the benefit of both parties.

Performance information and feedback from sites throughout the world is used to accelerate development of the technology which is incorporated into new machine designs. This cooperative approach is to the benefit of all users who are guaranteed access to all improvements and the latest modifications.

Relationships

DevourX generally enters into two types of license agreements:

1 - User Agreements:

Where individual user/company are licensed on a per tonne processing fee basis.

2 - Joint Venture (JV) Agreements:

Where a partnership is established and the partner is allocated exclusive regional and/or industry rights.

In this case our JV partner is responsible for business operations, marketing and distribution in their own defined region or industry.

Some of the features of a JV agreement are:

- A new company is formed the facilitate JV. (For illustration purposes, the new company is referred to herein as "NewCo").
- NewCo shareholding is split between DevourX and JV partner. (In most cases the majority shareholding is allocated to the regional/industry partner)
- DevourX is allocated at least one seat on the board of NewCo.
- NewCo is licensed to exploit DevourX Systems in the particular region or industry.
- NewCo pays processing fees to DevourX at a predetermined rate.
- All business in that region/industry is referred to NewCo.

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FAQ

DevourX FAQs

Machine Uses

- **What materials can be processed by DevourX?**
- **Are there materials that cannot be processed by DevourX?**
- **Could it process such materials if they were made to be brittle by treatment with nitrogen, for example?**
- **Can DevourX be used as a crusher?**

Machine Cost

- **What is the cost of each model?**
- **What is the lead time to order a machine?**

Machine Capacity

- **Is there more than one model of DevourX machine?**
- **What is the difference between the 2 models?**
- **What is the capacity of each model?**

Machine Footprint

- **What is the footprint of each model?**
- **What is the mass of each machine container fully loaded?**
- **Are there any special lifting requirements or do you lift using standard 4 point container lift?**
- **What are the foundation requirements on which to mount the machine?**

Energy Consumption

- **What is the energy consumption of each model?**

Power Requirements

- **What power requirements does each model have?**
- **Does each unit come with VSD and starter supplied?**

Material Feed Sizing

- **What is the maximum infeed material size for each model?**
- **Can the output particle size be regulated?**
- **Does the unit have a Grizzly or mesh as part of the inlet arrangement to limit oversize material?**
- **Does the unit have a failsafe mechanism to remove any metal objects prior to entry?**

Are there any special feed requirements or is a simple conveyor adequate?

Collection of Processed Materials

- **Do the machines come with collection and/or classification systems?**
- **What is the air flow rate at the exhaust of the machine?**

Maintenance

- **What is the expected maintenance interval for each model?**

General

- **Can you provide results for all the materials you have tested?**
- **What test results can you give us?**
- **What is the particle size distribution in and out of the DevourX?**
- **What moisture reduction can the machine achieve?**
- **What is the maximum moisture content that can be processed by the machine?**
- **How does the machine remove moisture?**
- **Does the machine require heat to reduce moisture?**
- **What is the noise level of the machine?**
- **How close to the machine will hearing protection be required?**
- **What control system does it use?**

Testing

- **How much material do you need for testing purposes?**
- **Can tests be performed at our location?**

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DevourX - Fine Grinding Technology

DevourX FAQs

Machine Uses

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Questionnaire

Company Name *

Site or Division Name *

Location

Country, State etc.

Contact Name *

Contact Email *

Contact Phone *

Please provide country and area codes.

Industry *

Material to be Processed *

Material Source

Input Moisture Content *

Moisture content of the material to be processed.

Material Characteristics

Describe any properties or contaminants in the material you believe may be relevant.

Infeed Size *

Intended feed-stock particle size (input size).

Output Size *

What is the output size range you want to achieve?

Output Moisture Content *

What moisture content would you like to achieve?

Annual Throughput *

How many tonnes per year do you process?

Noise Limitation *

Site noise limitation in dBa.

Flammability & Explosiveness *

Is the material to be processed flammable or explosive in either its raw or ground form?

Data & Safety Sheets

Present Mode of Collection *

What is your current mode of collection, baghouse, cyclone, scrubber?

Current Grinding Mode

What is your current mode of fine grinding, ball mill, table mill, etc?

Current Mill Capacity

What is the throughput capacity of your current mill?

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Preferred Suppliers

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Toshiba is a leading name in electric motors.

A leading name in lifting and assembly equipment.

For dust extraction and collection equipment.

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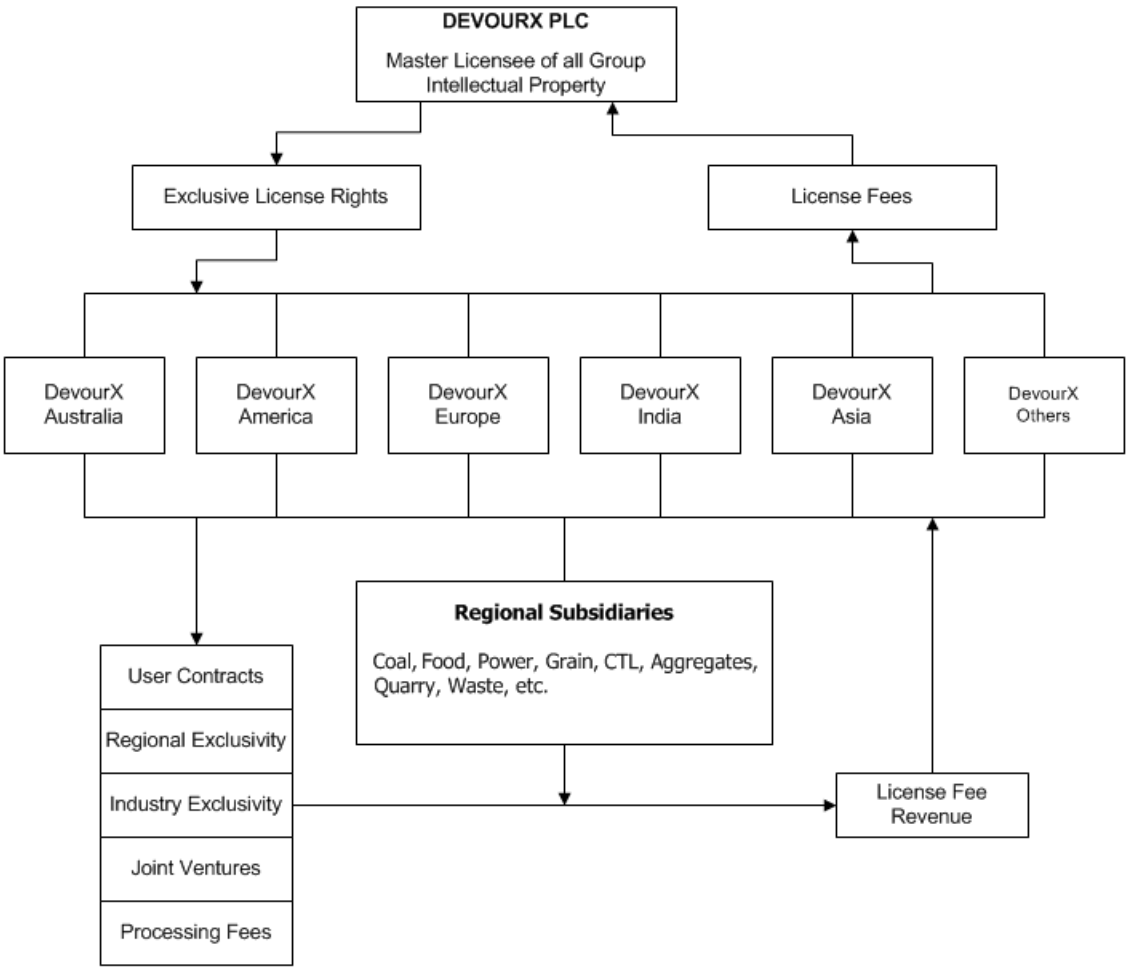
Corporate Structure



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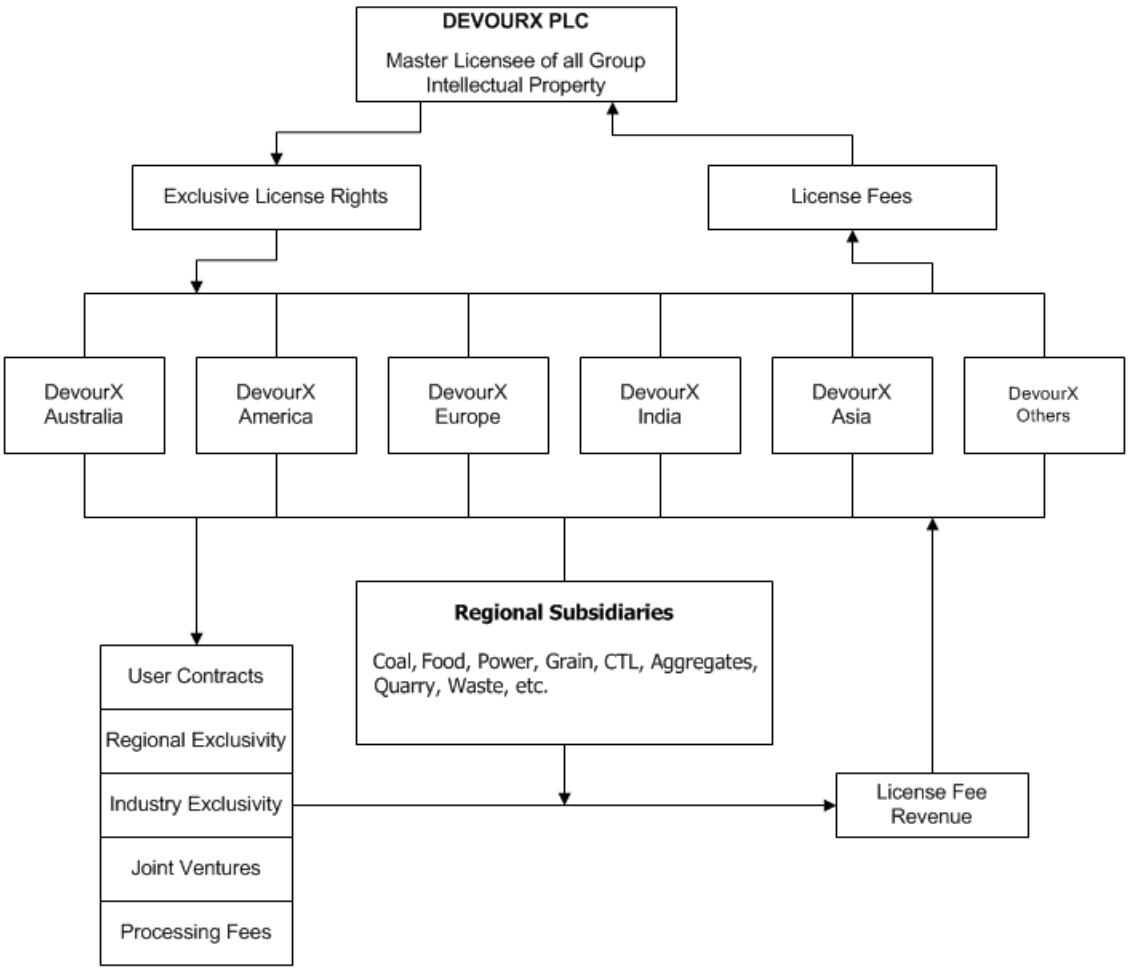
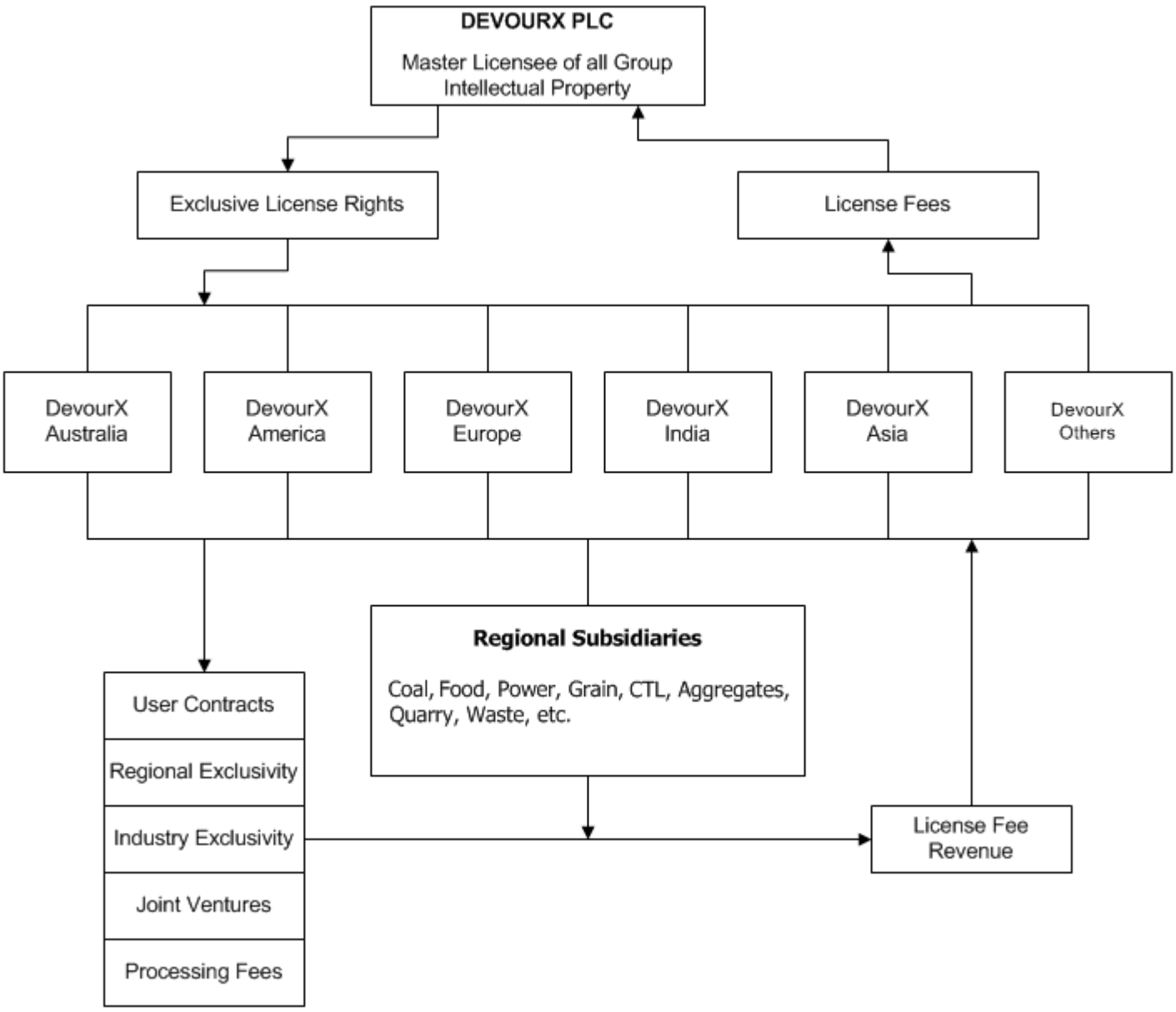


Corporate Structure



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Position and Potential

DevourX is positioned to meet the increasing worldwide demand for its revolutionary processing machinery, which utilises air and sound currents to reduce and break-up solid materials and solid waste. The DevourX machine is specifically designed for fine grinding applications where ball mills, hammer mills, pin mills, jet mills etc. are currently used, it can also be adapted for use as a dryer.

In simple terms, any solid material input is devoured by the machine and turned into dust. DevourX performs these tasks with amazing speed and efficiency, delivering extremely fine particles to the collection system.

DevourX has potential applications in quarrying, food processing, power generation, oil and gas production, ingredient processing, waste treatment, farming and in the manufacture of cosmetics, paint, chemicals and pharmaceuticals. It not only delivers unadulterated, extremely fine particles faster than existing equipment, it simultaneously removes moisture and performs these tasks at substantially less cost than conventional equipment.

Additionally, DevourX provides a total solution that can be applied to a broad range of moist and solid waste. The machine is robust and can be scaled to a wide range of uses across many industries.

The strength of the machinery is its low maintenance requirement and its capacity to reduce materials to a fine dry powder in one pass, rather than multiple passes required by conventional equipment. The result is savings for the user in time, energy, wear and tear, servicing, and an immediate increase in throughput capacity.

DevourX machinery has been successfully tested and the technology proven. Machines are now being built for commercial applications, they will have a significant impact across a number of industries. It is expected that greater processing advantages will be gained from a number of efficiencies and improvements which will be implemented with each new generation machine.

Position and Potential

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Corporate Objectives

Although our market segment activity may alter from time to time our corporate objectives remain unchanged.

- To exploit emerging markets in which cumbersome, high energy consuming, inefficient equipment is replaced by energy efficient, ecologically friendly and economical equipment.
- To be known as a proficient, resourceful organization, adept at innovation and its practical application.
- To deliver significant benefits to industry by introducing efficiencies and reducing the number of steps in the production sequence of each manufacturing process.
- To reduce carbon emissions and provide carbon credits to major industry.
- To contribute towards a substantial reduction of greenhouse gasses.
- To continually evolve our products, maintaining a reputation as industry leader.
- To realize above average investment returns for shareholders.

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Features

- High capacity - DevourX processes up to 50 times the throughput rate of a jet mill
- Throughput capacity from 25 to *150 tons per hour

*Capacity varies according to machine model, characteristics of material and moisture content)

- Efficient - High size reduction ratios exceeding 500:1 are achieved in a single pass
- Low operational costs
- Reduces processing costs
- Low maintenance
- Reduces maintenance and servicing of equipment
- Less down-time
- Proficient - Material output size can be varied between 5 and 500 micron
- Higher processing efficiency than conventional equipment
- Reduces energy consumption
- Reduces space requirements
- Reduces civil works requirements
- Significant savings in capital construction costs
- Eliminates many handling issues
- Increases nutritional value of processed foodstuff
- Removes moisture without external heat requirement
- Zero emissions
- Zero output pathogens
- Low operating temperature
- Portable

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Name: *

Username: *

Password: *

Confirm Password: *

Email Address: *

Confirm email Address: *

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DevourX is Expanding

DevourX opens new test and demonstration facility in Arlington Texas, USA

DevourX America opened the new test and demonstration facility in Arlington in July, 2009. This facility will service the North American market for DevourX, it is located within 15 minutes of Dallas/Forth Worth International Airport.

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Customer Login

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- Create an account

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We have 3 guests and no members online

Home

Welcome to DevourX

DevourX is a dynamic technology innovation which is at the leading edge of a new "industrial revolution" where most of the machinery we know today will be superseded by far more efficient and ecologically friendly machinery, inspired by nature.

DevourX machines replicate nature by reproducing the forces of a tornado or cyclone. Solid material is turned to dust and moisture content is reduced simultaneously, without mechanical action.

By utilizing an ingenious technology known as "Aeroacoustics", DevourX machines process without contact, material flows within an air stream caused by voracious suction. Material particle size is reduced by a combination of simultaneous physical events caused by pressure, vacuum and sound waves.

Benefits

DevourX is the most effective and efficient fine grinding system available today. Some of the many financial and ecological benefits of DevourX are:

- Higher processing efficiency
- Reduction in processing costs
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DevourX is suitable for most fine grinding and mixing applications in mining, quarrying, cement production, food processing, power generation, gassification, ingredient processing, farming and in the manufacture of cosmetics, paint, chemicals and pharmaceuticals. It performs these processing tasks at substantially less cost and with higher efficiency than conventional equipment.

Next Steps

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Coal Transport

Until now, ground brown coal or lignite has been classified as a hazardous material to transport due to its propensity to ignite spontaneously. Such ignition can be caused simply by exposure to oxygen, or by a combination of oxygen and moisture.

When brown coal is processed with DevourX it will no longer ignite spontaneously. The process causes a physical change to the properties of the coal which removes its ability to ignite spontaneously. The process also substantially reduces the moisture content of the coal.

This innovative process means that for the first time, brown coal can be processed at source and transported safely in a dry form that is ready for burning. When you consider that millions of tonnes of brown coal is transported daily from mines to power stations and other utilities, 30 to 60% of which is water, the benefits that such a process can provide to industry and the environment are immeasurable.

To illustrate some of the benefits, we site an example of coal which has a moisture content of 35%, in which case 10 million tonnes of coal contains 3.5 million tonnes of unwanted water. By processing at source and reducing the moisture content to 10%, some of the immediate benefits would be:

- A 25% reduction in transport costs;
- A 25% reduction in the amount of coal that is transported;
- A 25% reduction in emissions from trucks and trains used for transport;
- 25% less energy (oil) being used in coal transport;
- 25% less coal being burned at the power station;
- A 25% reduction in total emissions from the power station;
- More than 25% increase in efficiency of the power station;
- 25% less residue accumulation in the furnaces, reducing maintenance time and costs;
- Up to 100% saving on processing costs at power stations, as they would not require on-site processing capability or equipment;
- A net real reduction in the production costs of electricity.

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Coal By-products

Millions of tonnes of ash and waste is produced daily from the process of burning coal at power stations. Presently, most of the ash is stored in dams which contaminates ground water and causes substantial environmental damage.

DevourX can dry and process the ash into a useful form whereby it can be utilized in the production of cement and road construction material, thus converting an environmental hazard into a useful resource.

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Glass

DevourX can efficiently process massive volumes of glass for reuse in secondary glass production at substantially lower cost and at significantly faster rates than is presently possible.

Ultra fine glass particles are extremely valuable to the cement industry and form a chemical component in the formation of specialised concretes. It is also used to strengthen plastic used in the construction of numerous hard plastic goods such as, computer cases, televisions sets, telephones, white goods.

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Waste

DevourX can be used in numerous recycling applications, however, it is not suitable for processing household refuse, metal objects, plastic material or long-chain molecular structures in general.

It has particular benefits when applied to sewage cake and contaminated soils, however, it is not suitable where the material contains a moisture content above 40%.

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Tyres

Most western countries have now banned the burning and burying of tyres as a form of disposal. The pollution from burning is obvious, however, many of the problems associated with using tyres in landfill, such as movement of the land many years after it has been filled, are not commonly known.

It is a relatively simple process to remove valuable metal from the tyres and then use a DevourX proprietary method to shred the rubber into the specified size. It is then necessary to make the rubber brittle by passing it through a nitrogen treatment (or similar method) immediately before entering the process. The process will then produce a fine rubber crumb to output specifications, of less than 250 micron. Rubber crumb at this size will sell for in excess of $1,000 per tonne and can be used for a variety of purposes, known to those skilled in the art.

Throughout the world, the majority of tyre retailers are now charging up to $8 and more per tyre for disposal which they in turn pay to the recycler. Given the millions of tonnes of stockpiled tyres awaiting treatment, this represents a huge and lucrative market for DevourX.

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Is DevourX suitable for your application?

Complete our User Questionnaire to find out.

Questionnaire

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Canada CONTACT	Company: Address:	DevourX LLC 3422 Old Capitol Trail Suite 1626 Wilmington Delaware 19808-6192 USA	
Europe CONTACT	Company: Address: Fax:	DevourX PLC U0195, Jalan Merdeka 87007 Labuan Federal Territory Singapore Science Park 1 Malaysia	
India CONTACT	Company: Address:	DevourX PLC U0195, Jalan Merdeka 87007 Labuan Federal Territory Malaysia	
Malaysia CONTACT	Company: Address:	DevourX PLC U0195 Jalan Merdeka 87007 Labuan Federal Territory Malaysia	

New Zealand

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Australia

Singapore

CONTACT

Company: DevourX PLC
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87007 Labuan Federal Territory
Malaysia

Sri Lanka

CONTACT

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Address: U0195 Jalan Merdeka
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