

Tailored solutions
for all needs in
plastic recycling



Rapid[®]
Reduce • Reuse • Recycle

This is Rapid **Granulator**

80 years ago, in 1942, Harry Johansson founded Rapid Granulator in his hometown of Bredaryd, Sweden. He was an entrepreneur and visionary who was guided by strong values. Rapid's products should make a difference for everyone who used them, and for the communities in which they operated.



The concept of sustainable development may not have had the same impact then as now, but for Rapid's founders it was a matter of course. The overall mentality in Swedish society at the time was to repair things that were broken instead of buying new, and to reuse items and equipment. Harry and his contemporary entrepreneurs were genuinely environmentally friendly, pioneers in sustainability work.

Today, we are a world-leading company in producing equipment for plastic recycling, with operations and agencies located all over the world, on all continents. But our head office, production and development remain in Bredaryd, where we proudly have our roots.

Our green story

Prioritizing the environmental issue is not something that is forced, it comes natural for us. We live as we learn from a sustainability perspective, which we have done for more than eight decades. Securing and controlling the climate footprint our business and products make is simply part of our DNA.

RE DUCE
RE USE
RE CYCLE



We believe that we as a company must set a strong example and we believe that our financial success is directly linked to responsibility for sustainability development. That is why we constantly challenge and drive our industry forward – holding the most patents of any organization within our business. For us, it is important to certify and prove our work with a reduced climate footprint with independent third parties – taking no shortcuts and allowing us the confidence that we are making the right decisions for our customers, and our world.

All key components are manufactured at the factory in Bredaryd, Sweden. It gives us an exclusive opportunity to set credible and transparent sustainability goals that become an integral part of all our processes. It also means that we have control over the entire process and can have high quality products, with certification according to ISO 9001:2015 and ISO 14001:2015.







Examples of Rapid Technology

Open-Hearted

Rapid Open-Hearted design provides quick access to the cutting chamber for cleaning and maintenance – maximizes your production time.

Constant Cutting Circle

To keep an efficient cutting process the distance between screen and knives must remain the same, even after multiple re-sharpenings. Rapid design with pre-setting of knives after sharpening guarantees just that – a Constant Cutting Circle.

Reversible screens


Our durable and reversible screens provide a longer lifetime, saving you valuable maintenance cost and time.

Double scissor knives

Rapid double scissors cut provide a clean, smooth and energy saving cutting of any plastic material, free from dust.

Highest quality regrind

The consistently smooth and clean cutting action provides high quality regrind over time.



Effective and profitable recycling of your plastic waste

Properly handled, all production waste can be converted back to usable raw material in your process and often without manual handling. Our granulator and shredder range includes models with a capacity from a few kilos up to several tons of ground plastic per hour; materials that can be added back directly to your production process.





Product Range





Series

OneCUT / 150 / 200 / 300 / 400
500 / 600 / GT1100 / ThermoPRO
300-LBB / Raptor FlexiPUSH
Raptor PowerPUSH / Raptor DUO

OneCUT PRO



Rapid OneCUT PRO is an efficient slow-speed granulator, suitable for grinding of smaller products, sprues, etc. Capacity up to 30kg/h. Comes with several innovative features.

- **Rapid EnergySMART** – save up to 80% of your energy consumption!
You can let the granulator run automatically (can be adjusted) and at intervals, based on load. Granulator can be paused while material is collected in the granule bin and then restarted automatically to grind and then pause again.
- **Quick Rotor Release** – open the granulator and disconnect the rotor in 30 sec to clean quickly and efficiently.
- **Rapid FlexiSPEED** – adapt the rotor speed to the material properties.
- **Automatic rotor reversal is standard.**



OneCUT PRO

150 Series



Rapid 150 series is a small high performance granulator that is primarily intended for "beside the press" recycling of sprues and defective small products. Immediate grinding directly at the production machine allows the regrind to be returned directly to the process. It raises the product quality and avoids accumulation of sprues and reject products. 3 widths are available in standard version with capacity up to 70 kg/h.

- **Easy cleaning** – for material and/or color changes.
- **High-quality regrind.**
- **DeltaTECH** – standard models with flexibility.
- **PowerTECH** – configured for filled/abrasive materials.
- **Cassette knives** – quick and easy knife changes.
- **Constant Cutting Circle (CCC).**
- **Reversible screen** – for longer life.

The models in the Rapid 200 series are ideal for direct recycling of sprues and reject products, especially from injection molding and blow molding machines. 4 different widths are available in the standard versions with capacity up to 200 kg/h.

- **Low energy consumption.**
- **Configurable cutterhouse** – depending on application.
- **High-quality regrind.**
- **Compact and flexible** – several types of infeeds, including manual feeding, belts, roller feeds etc.
- **Reversible screen** – for longer life.
- **Constant Cutting Circle (CCC).**



200 Series

300 Series



All models in the Rapid 300 series can be used either as a central granulator or as inline granulator for all types of materials. Typical applications include sprues, molded items, profiles, smaller pipes, sheets, etc. 3 different models are available with capacity up to 500 kg/h.

- **Open-Hearted design.**
- **Lower energy consumption with double-scissors cutting action.**
- **Pre-adjustable knives** for optimal knife sharpness.
- **High quality regrind.**
- **Various infeed options for all types of applications.**
- **Reversible screen** – for longer life.
- **Constant Cutting Circle (CCC).**



300 Series

400 Series



All models in the Rapid 400 series can be used either as a central granulator or as in-line granulator for all types of materials. Typical applications include large sprues, molded items, profiles, smaller pipes, sheets, etc. 4 different models are available with capacity up to 900 kg/h.

- **Open-Hearted design.**
- **Lower energy consumption with double-scissors cutting action.**
- **Pre-adjustable knives for optimal knife sharpness.**
- **High quality regrind.**
- **Various infeed options for all types of applications.**
- **Reversible screen – for longer life.**
- **Constant Cutting Circle (CCC).**



400 Series

500 Series



All models in the Rapid 500 series can be used either as a central granulator or as in-line granulator for large products or where higher capacity is required. Typical applications are granulation of large quantities of sprues, large molded items, pipes and profiles, sheets, etc. Rapid's 500 series is available in 3 widths with capacity up to 1.2 tons/h.

- **Open-Hearted design.**
- **Lower energy consumption with double-scissors cutting action.**
- **Pre-adjustable knives for optimal knife sharpness.**
- **High quality regrind.**
- **Heavy duty beam rotor – 3- or 5-blade.**
- **Various infeed options** for all types of applications.
- **Reversible screen – for longer life.**
- **Constant Cutting Circle (CCC).**



500 Series

600 Series



Rapid's 600 series is suitable for all types of materials, everything from in-line recycling of large products to central granulation where greater output capacity is required. It is the largest in our series of Open-Hearted granulators with capacity up to 4 tons/h.

- **Open-Hearted design.**
- **Longer energy consumption with double-scissors cutting action.**
- **Pre-adjustable knives for optimal knife sharpness.**
- **Various infeed options for all types of applications.**
- **Reversible screen – for longer life.**
- **MCT – mineral composite-filled base reduces vibrations.**
- **Constant Cutting Circle (CCC).**



600 Series

GT1100



Rapid GT1100 is optimized for cost effective in-line granulation of skeletal waste.

- **The market's shortest service time** – with complete access to all wear parts from one side the service time of this unit is unbeatable.
- **2 types of loop control** – external or optional pneumatic controlled loop control for in-line integration with the thermoforming machine.
- **Available in 1100 mm** with capacity up to 900 kg/h.
- **Scissors cut** – angled knives to ensure perfect regrind, low noise, low energy consumption.
- **Constant Cutting Circle (CCC).**
- **Small footprint** – easy to integrate in the line.
- **Reversible screen** – for longer life.
- **Pre-adjustable knives** for optimal knife sharpness.



GT1100

Thermo PRO



Rapid ThermoPRO for low noise granulation of skeletal waste.

- **Open-Hearted design.**
- **Lower energy consumption with double-scissors cutting action.**
- **3 types of loop control** – fully integrated, external or free-standing loop control for in-line integration with the thermoforming machine.
- **Available in 3 widths**, 600, 900 and 1200 mm with capacity up to 1 ton/h.
- **Constant Cutting Circle (CCC).**
- **MCT** – mineral composite base for reduced vibrations.
- **Reversible screen** – for longer life.
- **Pre-adjustable knives** for optimal knife sharpness.

Rapid 300-LBB (Low Built Base) has a very low infeed height. The areas of use are primarily in the packaging industry for granulating skeletal waste and sheet. The granulator can either be connected in-line to the production machine with a roll-feeder and loop control or placed under the line with a simple funnel for freely falling cut waste sheets. 3 widths are available with capacity up to 700 kg/h.

- **Highest quality regrind.**
- **Low infeed height, only 600 mm.**
- **Available with various infeed options for different applications.**
- **3 widths, 900, 1200 and 1500 mm.**
- **Powerful operation with motors up to 30 kW.**
- **Constant Cutting Circle (CCC).**



300-LBB

Raptor FlexiPUSH



Raptor FlexiPUSH shredders are designed for all types of thermoplastics, large 1200-liter IBC containers or lumps - everything is ground down efficiently. Rapid Raptor shredders come in 2 widths, 800 and 1350 mm. The standard version is equipped with **FlexiPUSH** (pneumatic pusher). The machine can also be equipped with a **TopPUSH**, a function that presses the material against the rotor to improve output capacity. It is specially developed for bulky products.

- **Recycles all types of thermoplastic.**
- **Open-Hearted design.**
- **Energy efficient.**
- **Industry 4.0.**
- **3 rotor variants** – film/foil, lump, bulky material.
- **QuadCUT™** – patented unique knife design.
- **Reversible screen** – for longer life.
- **MCT** – mineral composite filled base for reduced vibrations.



Raptor FlexiPUSH

Raptor PowerPUSH



Raptor PowerPUSH shredders are designed for all types of thermoplastics and where higher capacities are required. Raptor PowerPUSH shredders come in 2 widths, 800 and 1350 mm. PowerPUSH allows you to fully control the process. The hydraulically controlled pusher can be optimized with different "recipes" through the interactive control system depending on the material and desired output.

- **Recycles all types of thermoplastic.**
- **Open-Hearted design.**
- **Industry 4.0.**
- **Energy efficient.**
- **3 rotor variants** – film/foil, lump, bulk material.
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- **Reversible screen** – for longer life.
- **MCT** – mineral composite filled base for reduced vibrations.

ONE-step solution. Fully integrated granulator into the Raptor chassis. Based on the bespoke Rapid 400 series. Bolted modular design enables easy change of wear parts. Available for Raptor 800 and 1350.

- **Open-Hearted design.**
- **Lower energy consumption with double-scissors cutting action.**
- **Pre-adjustable knives** for optimal knife sharpness.
- **High quality regrind.**
- **Reversible screen** – for longer life.
- **Constant Cutting Circle (CCC).**



Raptor DUO

Rapid Connect 

Rapid Connect Sensornode

Sensornode Index: 220057
Machine Sn: K - Exhibition
LoRa Fq: EU868
DevEUI: 00ED86FFFED6AB62



Rapid Connect address: connect.rapidgranulator.com



Rapid
Reduce · Reuse · Recycle

Rapid Granulator AB
P.O Box 9
SE-333 02 Bredaryd
SWEDEN
spareparts@rapidgranulator.se
www.rapidgranulator.com

Sensor Node Item No. MM0098765
Rev. C01



Rapid Granulator AB
Box 9
SE-333 02 Bredaryd
SWEDEN

Contact us:
+46 370 865 00
info@rapidgranulator.se
www.rapidgranulator.se



Accessories

Rapid Connect / Guillotine system
Dust separation / Metal detection
Metal separation



Rapid **Connect**

Get control of your production. Design your own dashboard and monitor your equipment. Prevent production stop with IRL status notifications.

Get notifications about:

- Power consumption
- Downtime
- Overload
- Emergency stop
- Critical machine temperature

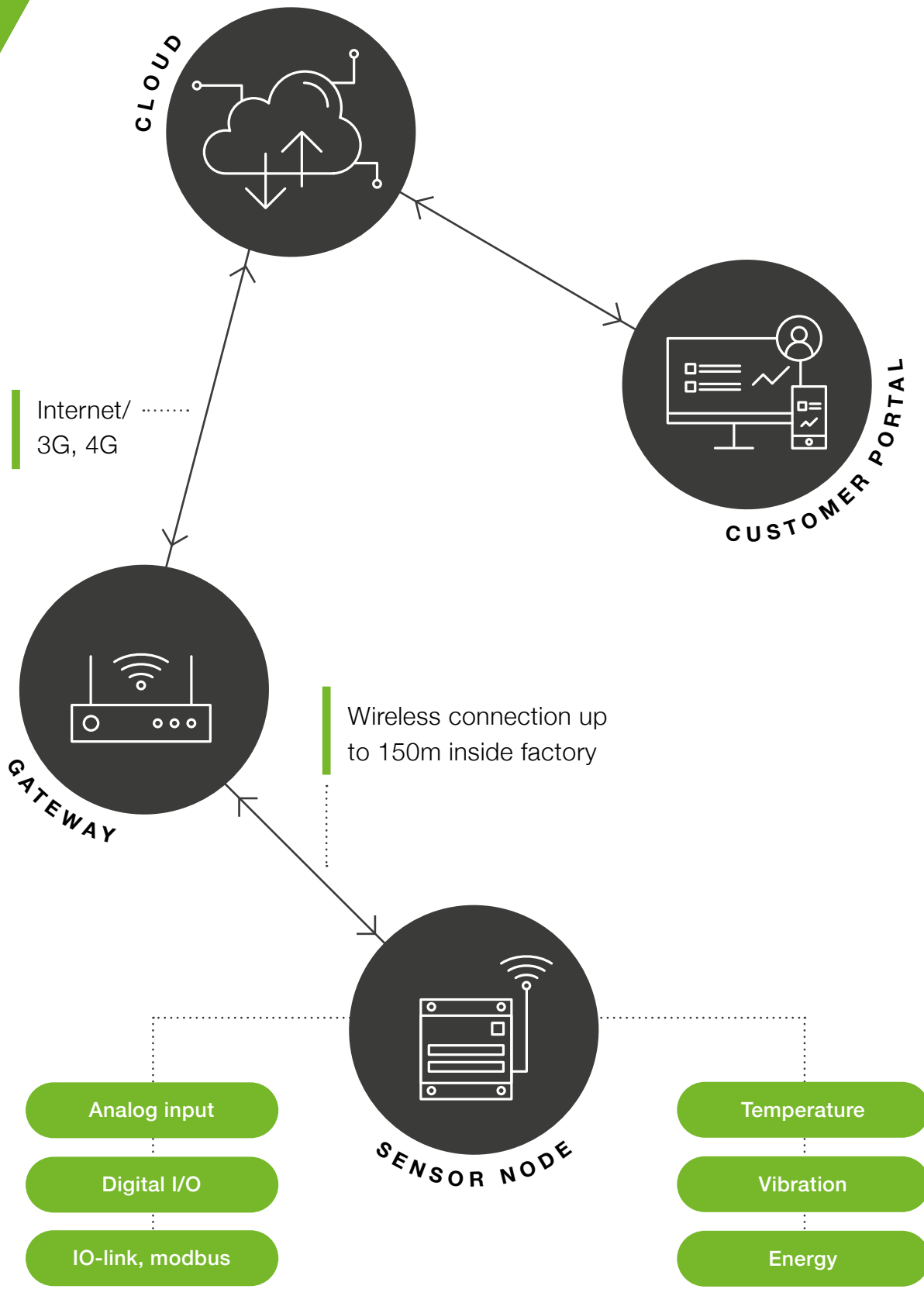
Benefits:

- Schedule preventive maintenance
- Calculate cost of granulation process
- Utilization control
- Save energy, shut down when idle
- Easier to order spareparts



Rapid Connect







Guillotine system

The most common solution to handle waste edge-trim is a guillotine system with one for each edge trim. Integrated with the extrusion line it continuously cuts the edge trims with the cut pieces falling onto a conveyor belt which is then fed to a granulator.



Guillotine system

Dust separation

No matter how efficient a granulator is, there will always be a small amount of dust and fines – increasing when knives start to wear out. With an efficient and adapted dust separation system, these problems can be avoided. Rapid offers complete systems for all dust separation needs.

Dust separation





Metal detection

With higher sensitivity these metal detectors can detect all types of metals as well other electrically conductive materials. The most common installation is to have the detector installed on a conveyor belt.



Metal detection



Metal separation

Metal separators remove the metal from the material. They can detect any metal as well as electrically conductive materials down to the size of a 0.6 mm steel ball. Metal separators are available in different sizes depending on capacity needs.



Metal separation



Rapid Service Center



Register your machines in the Rapid Service Center – a portal with all information you need for the optimal maintenance of your Rapid granulator:

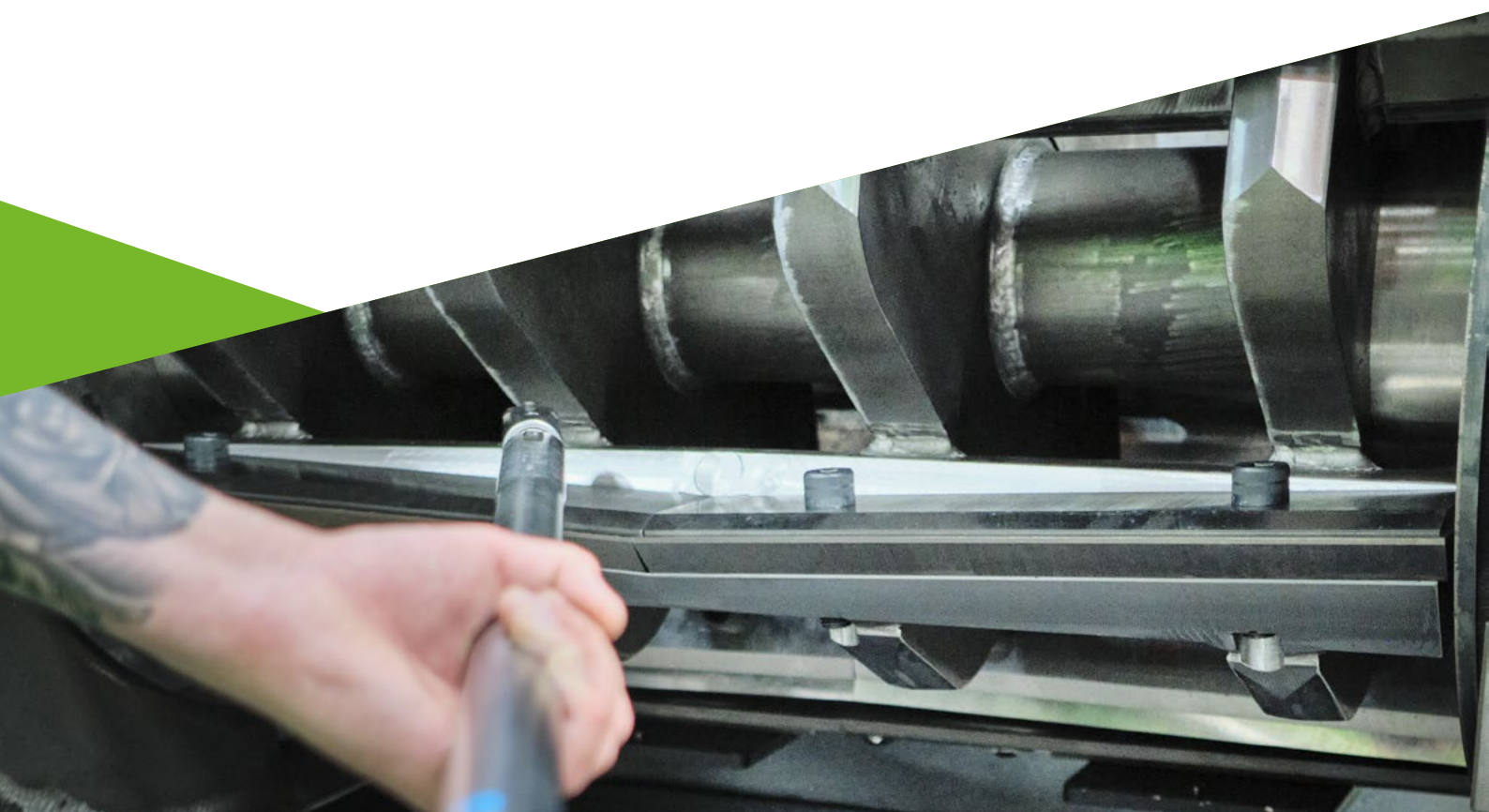
- Forget about lost manuals, it's always available.
- Electrical drawings of your individual machine.
- Maintenance program for all service activities; weekly, monthly etc.
- The service log supports the extended Rapid 5-year warranty.
- Direct link to the Rapid Spare Parts Team.

Rapid original spare parts

Designed for maximum performance and durability. Extensive quality control of materials and processes ensures that parts are produced to highest standards and quality.

With original spare parts you get:

- Lower maintenance costs and more production time.
- Quality regrind that ensures stable production process.
- Less dust and fines in both granules and production environment.
- Lower energy consumption.
- Lower noise levels from your granulators.
- Original spare parts also get you our 5-year warranty.





5-year extended warranty

Our products are exclusively manufactured using high quality materials and the manufacturing process is certified to the latest ISO standard. This means we can offer an extended warranty up to 5 years, depending on the application. All you need to do is:

- Apply for the extended warranty within 3 months of delivery.
- Document granulator maintenance and service in accordance with the service schedule.
- Use Rapid original spare parts.

OFFICES

Sweden – Head Office

Rapid Granulator AB

+46 (0) 370-86500

info@rapidgranulator.se

Box 9 / Industrivägen 4

SE-333 72 Bredaryd

France

Rapid France

+33 (0) 4 72 15 22 80

info@albro.fr

ZAC du Chapotin, 646 rue Juliette Récamier

F-69970 Chaponnay

USA

Rapid USA / Rapid Granulator Inc.

+1 724 584 5220

info@rapidgranulator.com

555 West Park Road

Leetsdale, PA 15056

Germany

Rapid Germany / Rapid
Granulier Systeme GmbH & Co.KG

+49 (0) 6027-4665-0

info@rapidgranulator.de

Gewerbegebiet Mitte, Bruchweg 3

D-63801 Kleinostheim

Italy

Rapid Italy / Rapid Italy S.r.l.

+39 (0) 49 972 8252

info@rapidgranulator.it

Via Sopracornio 7B

30010 Campolongo Maggiore, Venezia





Australia

Rapid Asia Pacific / Rapid Granulator
Asia Pacific Pty. Ltd.

+61 2 9484 3398
info@rapidgranulator.asia
14 Casuarina Drive
Cherrybrook, NSW 2126

China

Rapid China / Rapid Granulator Machinery
China Co., Ltd.

(+86-21) 6760 1875
ray.lei@rapidgranulator.cn
299# Kongque Road,
215331 Lujia Town, Kunshan, JiangSu Province

Philippines

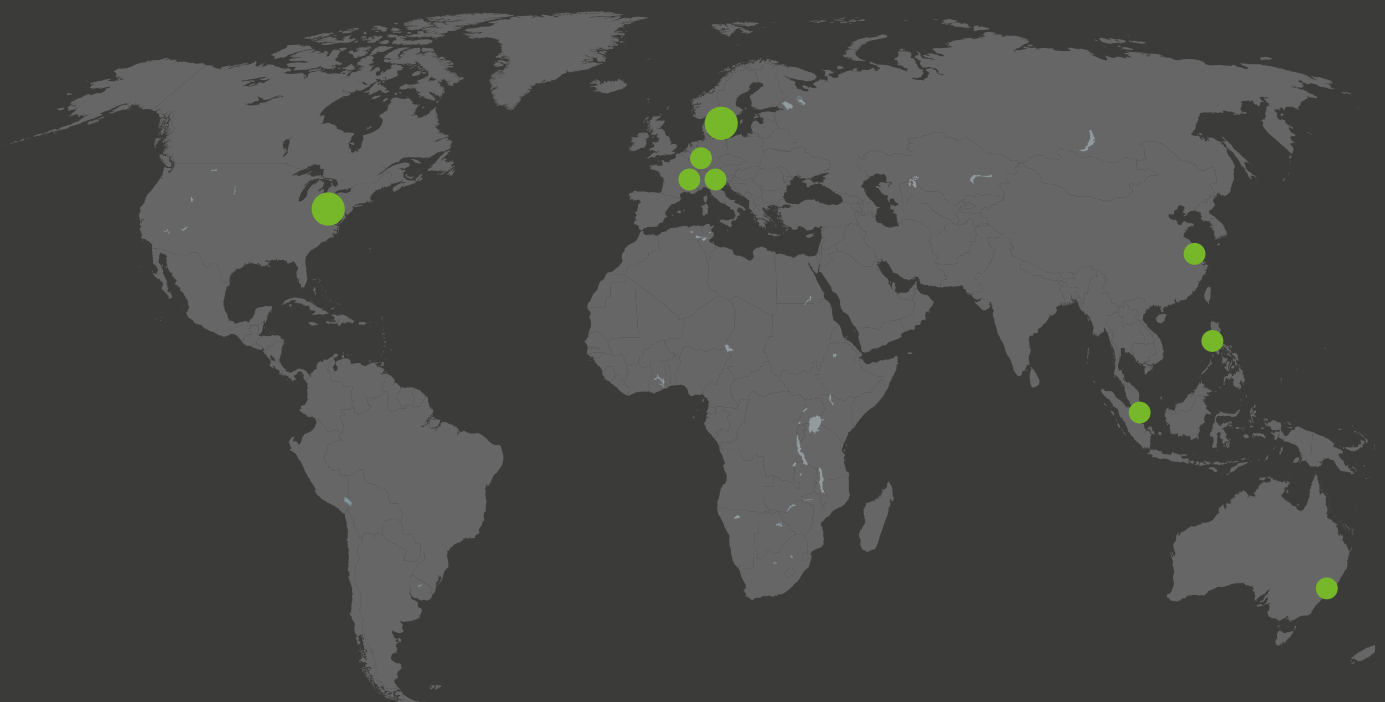
Rapid Philippines / Rapid Granulator
Corp., Manila

+63 91759 31133
info@rapidgranulator.asia
SM Aura Office Tower
Fort Bonifacio, Taguig City Metro Manila

Singapore

Rapid Singapore / Rapid Granulator
Singapore Pte Ltd

+65 9818 9284
info@rapidgranulator.asia
BLK 677B, Punggol Drive, #06-788
822677 Singapore



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