Matthew Aldridge igus stand M40



"Improve what moves" with motion plastics.



#techup #costdown #motionplastics #tribopolymer #igus #zeroplasticwaste #easiestcompanytodealwith #nooil #nolubrication #anyenergy

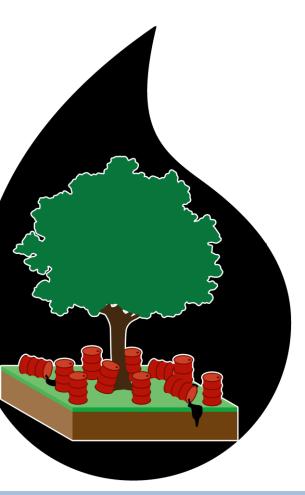




"50% of all lubricants sold worldwide end up in the environment" (M. P. Schneider, 2006)

"One litre of used oil can contaminate one million litres of water." (Saskatchewan Association for Resource Recovery Corp., 2008)





"27 million litres of grease pollute the worldwide environment every year" (M. P. Schneider, 2006)

The problem





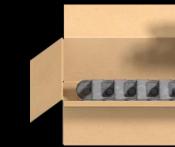
Plastic waste is increasing in landfill, in our seas and oceans

- Over 300 million tons of plastic are produced every year for use in a wide • variety of applications.
- At least 14 million tons of plastic end up in the ocean every year •
- Plastic makes up 80% of all marine debris found from surface waters to deep-sea sediments.
- Stats from IUCN, International Union for Conservation of Nature

igus has a global sustainability commitment

- we now reuse 99% of our plastic waste by processing it into granulate material and recycling it back into the production process
- Longer lasting products that do not require lubrication contribute to preserving our environment
- In 2021, igus achieved **31.2% less CO2 emissions** than in 2020, relating to Scope 1 and Scope 2 emissions.



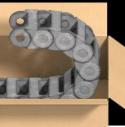


CO₂ neutrality and zero plastic waste

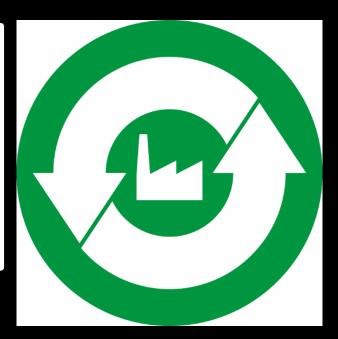












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The igus:bike

World's first urban bike made from recycled plastic – by igus

UK launch: Engineering Expo 8th June

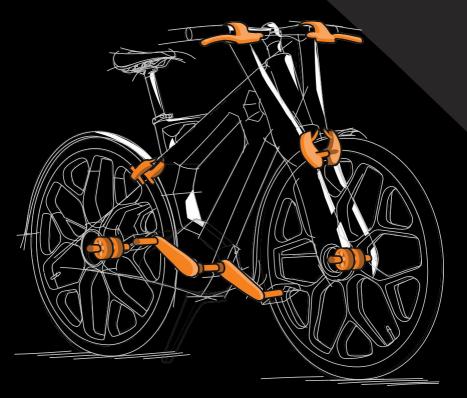


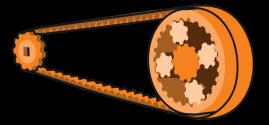
World's first urban bike made from recycled plastic

- **Corrosion-resistant** •
- Lubrication-free and maintenance-free •
- Frame, wheels, crank, v-chain, forks: all parts except seat parts, seat post • and tyres are plastic
- Launch bike is made of virgin plastic. Full recycled plastic bike by • December
- Designed to help solve rising plastic waste crisis •
- Part of igus's global decarbonisation and zero carbon project •
- Frame is made by MTRL (DUTCHFRIETS) •

from ocean plastics to motion plastics[®]

the igus:bike





Unique drive unit made of solid plastic

- maintenance-free
- reduces carbon-intensive metal parts
- creates a use for waste plastic, avoiding landfill and environmental pollution.

2. The igus:bike online platform is an open source platform to specify and order the bike. Vendors and customers can customise their own bikes from a wide range of components and variants

IMPROVE WHAT MOVES Plastic moving parts

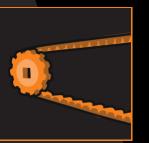


Brakes

Cantilever brakes and brake levers are made of plastic

Crank & pedals

Bottom bracket bearings made of solid plastic. Maintenancefree



Transmission

Single speed gear. Multi-gear and e-drive at R&D stage





Front and rear hubs



Hubs use lubrication-free bearings – predicatble wear and no maintenance



Toothed belt drive

Smooth and no lubrication

igus.bike





igus:bike's genesis

Idea conceived by igus CEO Frank Blase

Frame designed and manufactured by MTRL, formerly DUTCHFIETS, in the Netherlands

Engineering support and technical components from igus

Full recycled plastic version available in December





LOW MAINTENANCE **ZERO CORRSION**

Thanks to the selflubricating properties of the bearings, nothing has to be lubricated or greased.



Resistant to weather,

water, and UV light.

Nothing is made of

metal. Forget garages and

covered parking spaces. Nothing rusts here.



B

No oil and grease -

good for the environ-

ment as well as for

clothing and hands.

LONG SERVICE LIFE

This bike was tested where industrial products are normally put through their paces.



ZERO STRESS

Just ride. That's all you have to do.



UNIQUE

Be one of the first pioneers for new Urban Mobility.



EYE-CATCHING

You are guaranteed to stand out, whether you want to or not.





CALL FOR PARTNERS

We are looking for strong corporate partnerships to achieve our vision: the production of sustainable, durable, maintenance-free bicycles from recyclable materials. We would be happy to hear from you.

The igus:bike online platform

















igus.bike

Thank you for listening!

Questions?

Join us on our journey!



igus[®] Caswell Road Northampton NN4 7PW

