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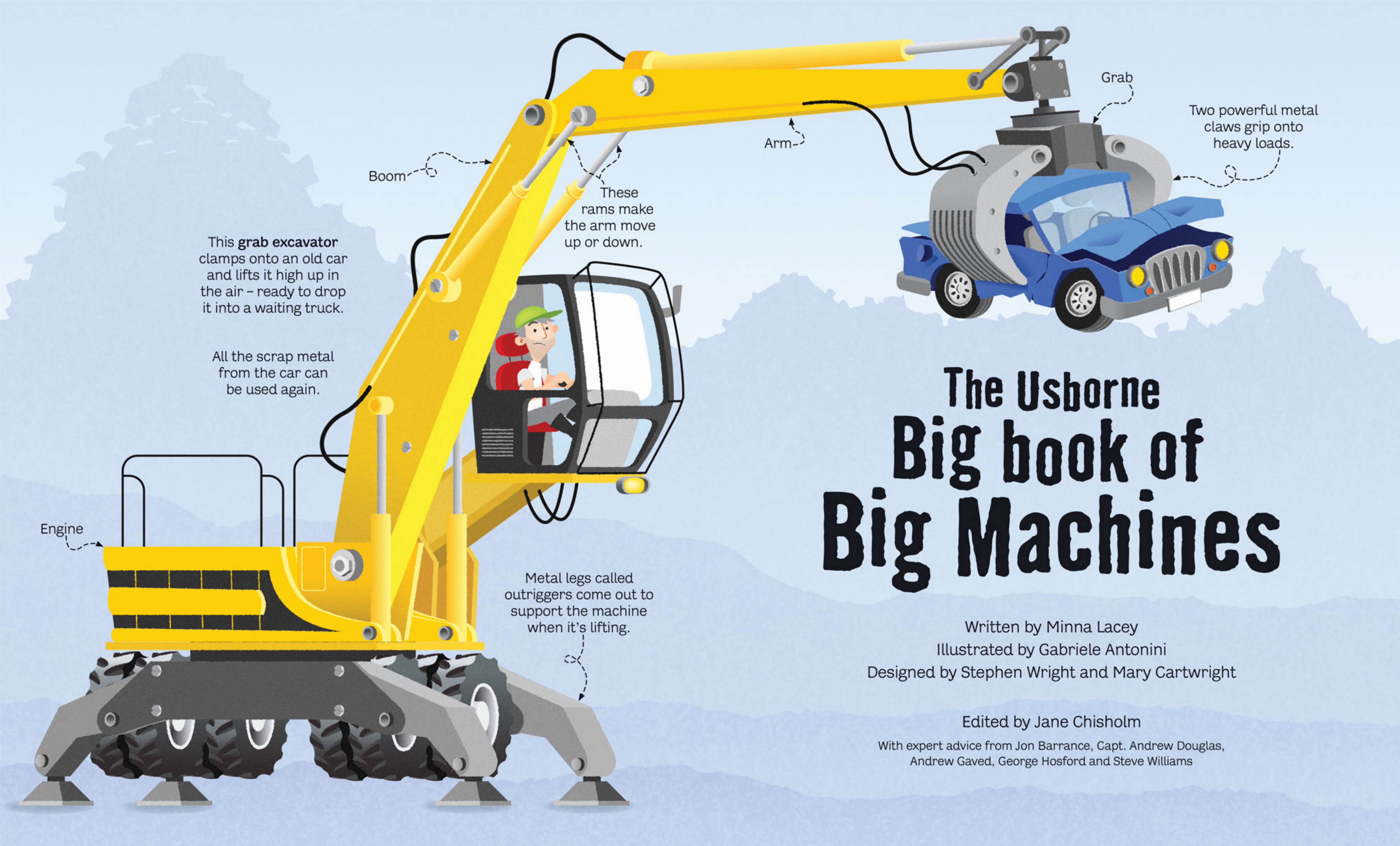
Opening extract from
**Big Book of Big
Machines**

Written by
Minna Lacey

Published by
Usborne Publishing Ltd

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This grab excavator clamps onto an old car and lifts it high up in the air – ready to drop it into a waiting truck.

All the scrap metal from the car can be used again.

Boom

These rams make the arm move up or down.

Arm

Grab

Two powerful metal claws grip onto heavy loads.

Engine

Metal legs called outriggers come out to support the machine when it's lifting.

The Usborne Big book of Big Machines

Written by Minna Lacey

Illustrated by Gabriele Antonini

Designed by Stephen Wright and Mary Cartwright

Edited by Jane Chisholm

With expert advice from Jon Barrance, Capt. Andrew Douglas,
Andrew Gaved, George Hosford and Steve Williams

Flying machines

The Antonov An-225 is a MASSIVE cargo plane - the biggest aircraft in the world. It can carry 250,000 kg (550,000 lb) of cargo - that's twice as much as a big passenger plane.

In Russia this plane is called Mriya, which means dream.

Spraying the plane with de-icing fluid to remove snow and ice.

A de-icing vehicle has a long arm - so it can reach the top of a plane.

There are three SUPER powerful engines below each wing.

The main landing gear has 28 wheels, 14 on each side.

This plane is 84 m (275 ft) long.

Four nose wheels

The nose opens up to let heavy cargo in.

The Mil Mi-26 is an amazingly powerful helicopter. It can carry a load of 20,000 kg (44,000 lb).

Its body is 34 m (110 ft) long.

The An-225 can carry a space shuttle on top.

This helicopter is so big, it can fit 100 passengers inside.

Driving up the ramp to enter the plane

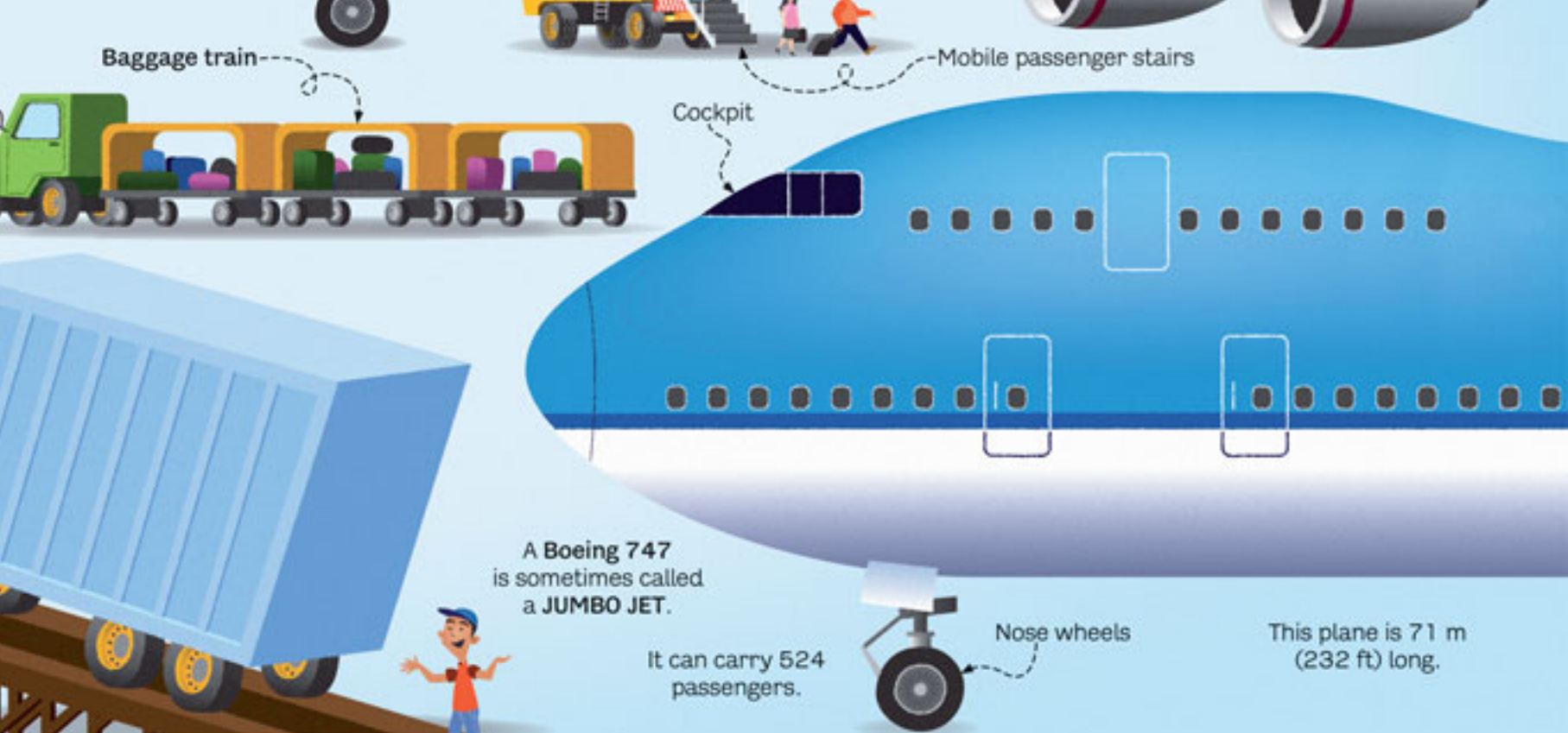
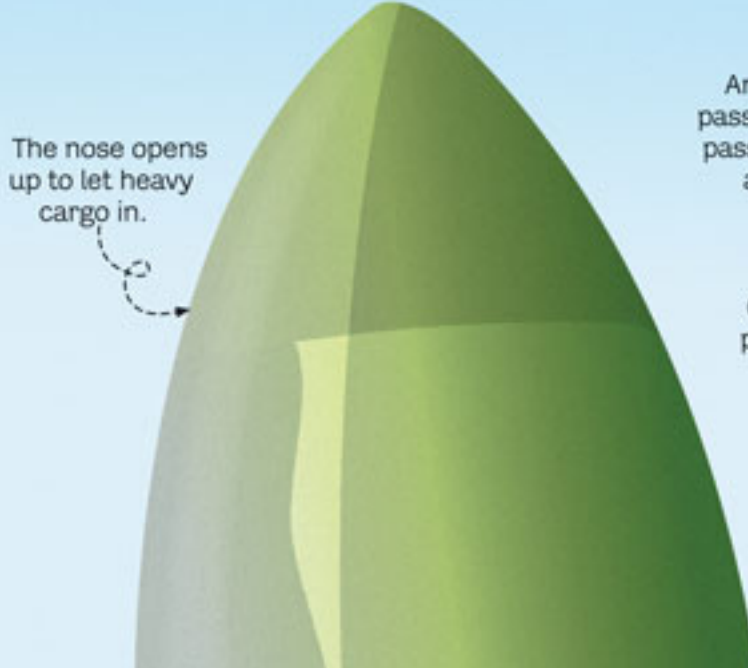
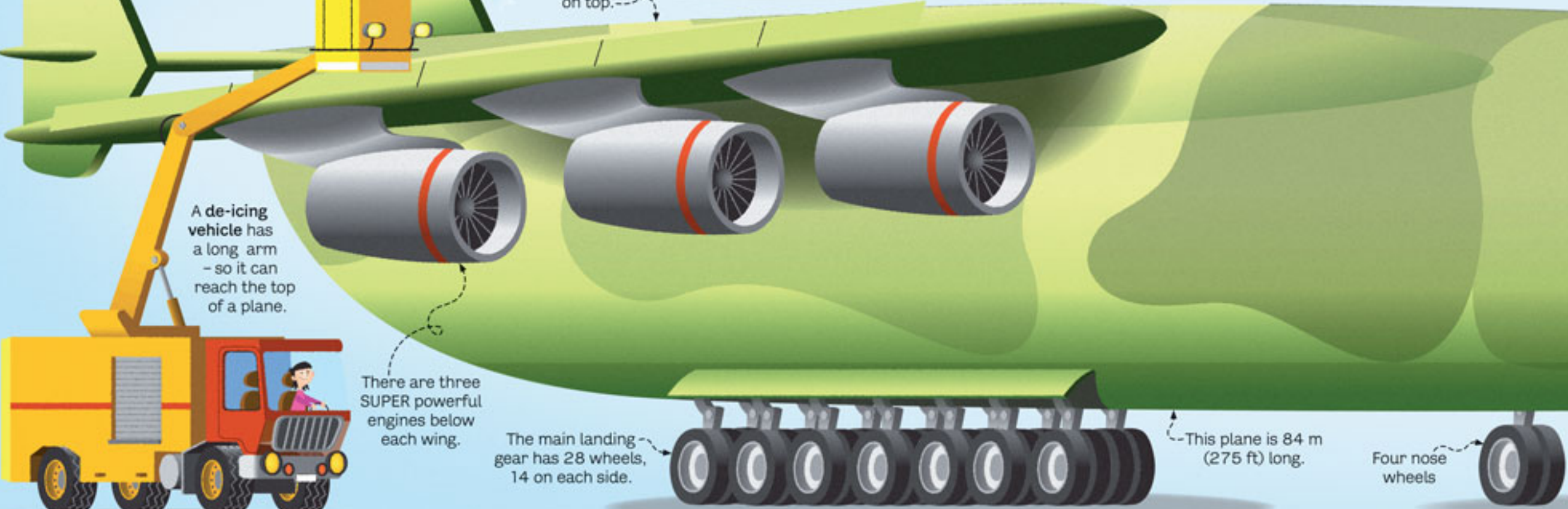
It can carry 524 passengers.

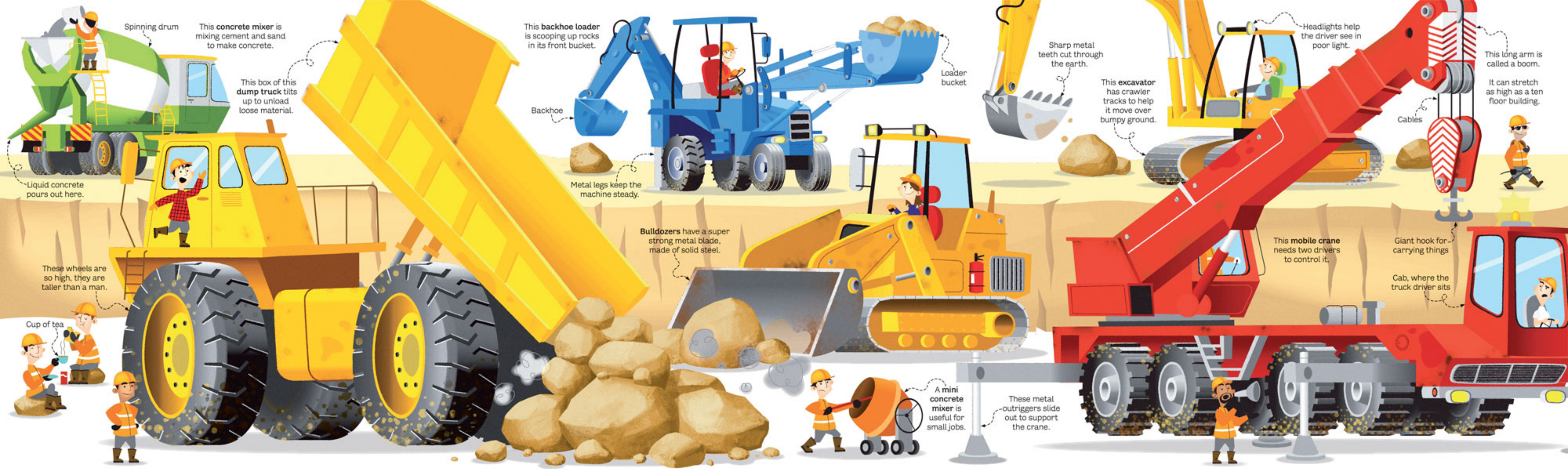
This plane is 71 m (232 ft) long.

Upper deck

Main deck

Length - 73m (240 ft)





Spinning drum

This concrete mixer is mixing cement and sand to make concrete.

This box of this dump truck tilts up to unload loose material.

This backhoe loader is scooping up rocks in its front bucket.

Sharp metal teeth cut through the earth.

This excavator has crawler tracks to help it move over bumpy ground.

Headlights help the driver see in poor light.

This long arm is called a boom.

It can stretch as high as a ten floor building.

Liquid concrete pours out here.

Backhoe

Loader bucket

Cables

These wheels are so high, they are taller than a man.

Metal legs keep the machine steady.

Bulldozers have a super strong metal blade, made of solid steel.

This mobile crane needs two drivers to control it.

Giant hook for carrying things

Cup of tea

Cab, where the truck driver sits

A mini concrete mixer is useful for small jobs.

These metal outriggers slide out to support the crane.