

WOLFSPEED OVERVIEW



WOLFSPEED AT A GLANCE

Company Overview



241.3M
FY23 Q1 Revenue



World's First, Largest &
Only 200mm Silicon
Carbide Fab



\$1.3B Materials
Capacity Expansion



Partnership with
Mercedes-Benz

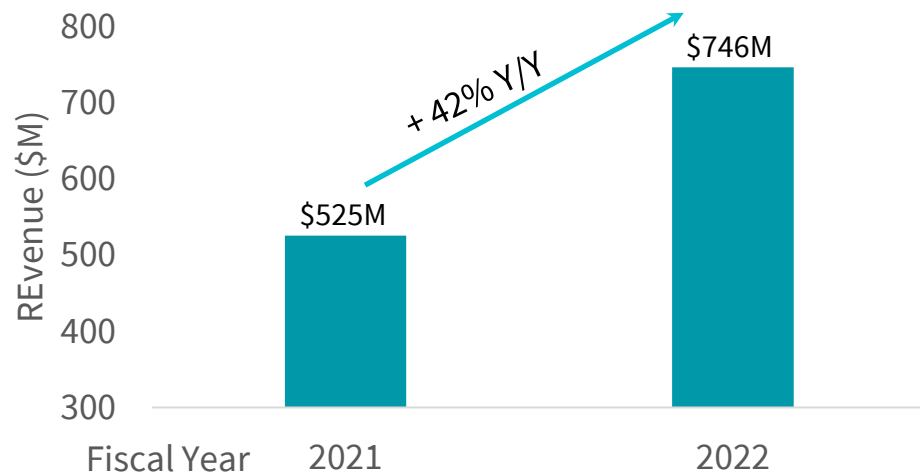


Borg Warner \$500M
Investment



Partnership with
Jaguar Land Rover

Wolfspeed Annual Revenue (M)



By the Numbers

#1

Producer of
Silicon Carbide
substrates

>60%

Wolfspeed makes more than
60% of the worlds Silicon
Carbide today

>90%

Wolfspeed manufactured
>90% of the Silicon Carbide
ever produced

1st

First commercially available fully
qualified Silicon Carbide MOSFET

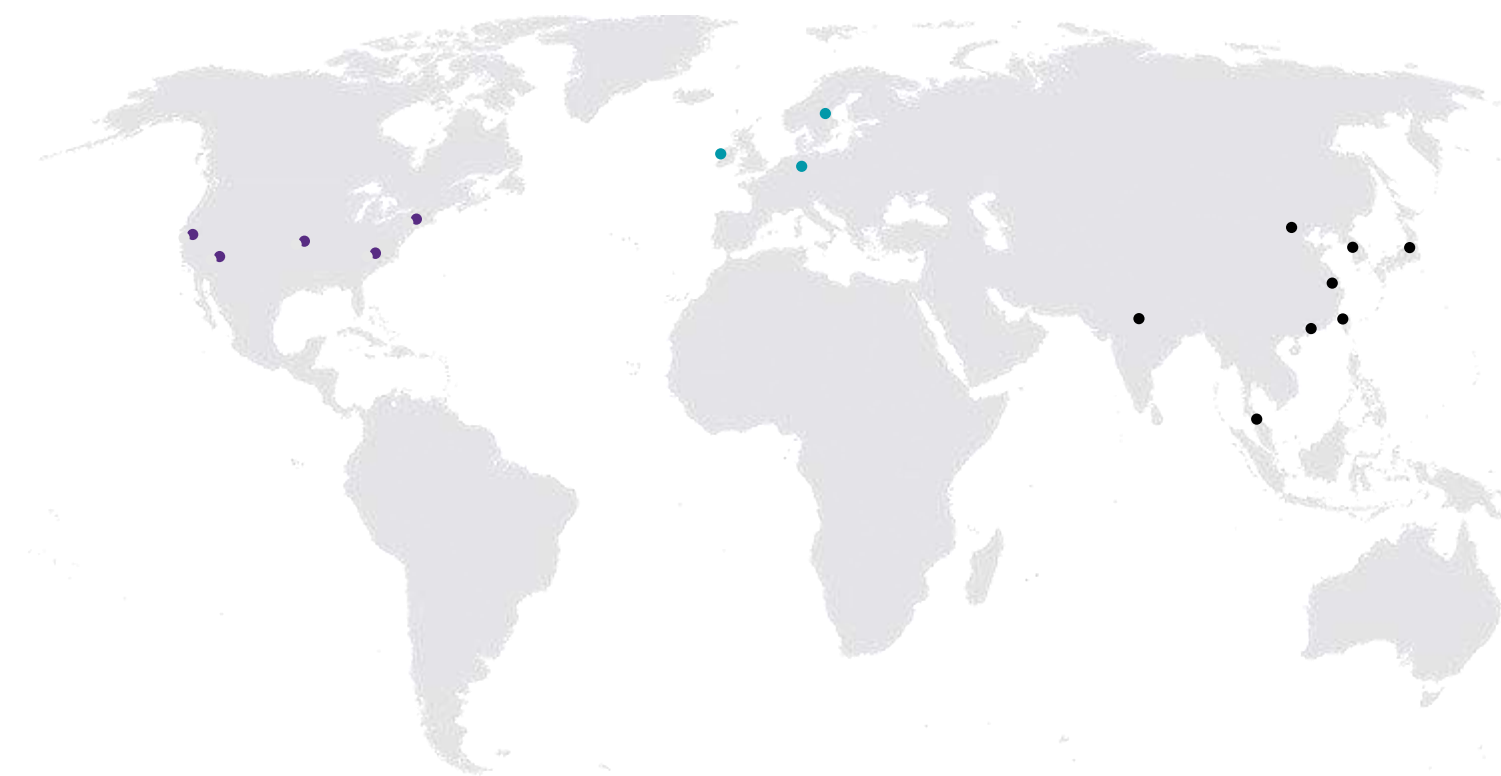
35+ years

Wolfspeed has been vertically
integrated making Silicon Carbide
semiconductors

7+ trillion

Silicon Carbide device field hours

WOLFSPEED LOCATIONS



☆ HEADQUARTERS
⚙️ MANUFACTURING
🧪 LABORATORY
👤 SALES/SUPPORT

NORTH AMERICA

RTP / Durham, NC	☆ ⚙️ 🧪 👤
Fayetteville, AR	⚙️ 🧪
Mesa, AZ	🧪
Morgan Hill, CA	⚙️ 🧪 👤
Marcy, NY	⚙️ 🧪

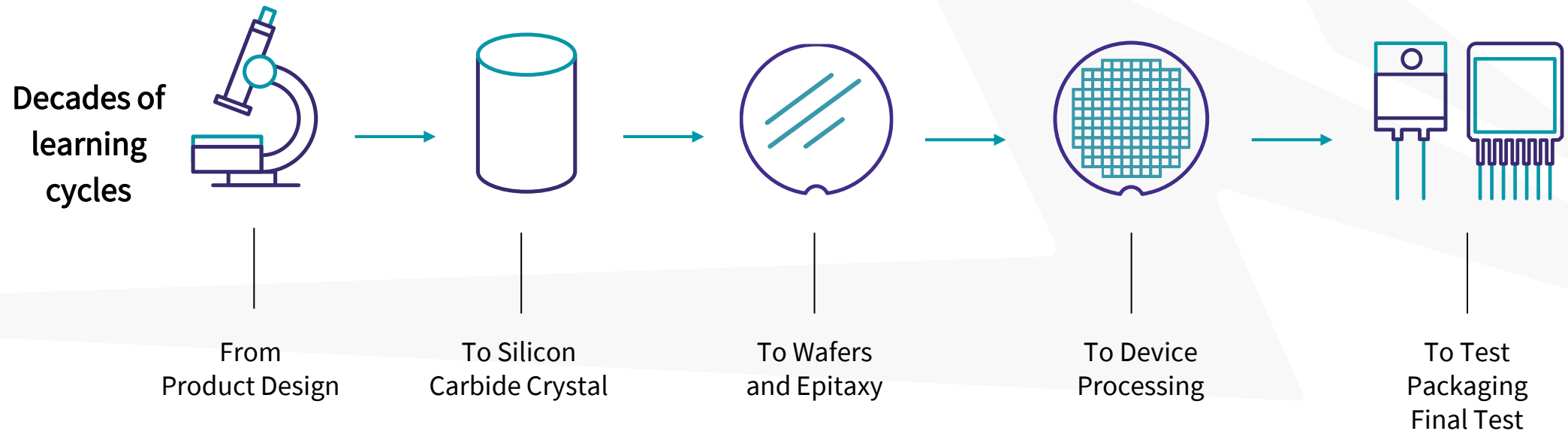
EUROPE

Munich, Germany	👤 🧪
Kista, Sweden	👤 🧪
Belfast, Northern Ireland	👤

ASIA

Hong Kong	👤
India	👤
Tokyo	👤 🧪
South Korea	👤 🧪
Malaysia	👤
Shanghai	👤 🧪
Shenzhen	👤 🧪
Taipei	👤 🧪

35+ YEARS OF VERTICAL INTEGRATION BUILDS BETTER PRODUCTS



INCREASING CAPACITY TO ADDRESS STEEPENING DEMAND

LEADING THE INDUSTRY TODAY

- Wolfspeed currently produces ~ 60 % of the world's supply of Silicon Carbide.
- We are the first vertically integrated Silicon Carbide manufacturer.

PREPARING FOR AN ELECTRIC-POWERED TOMORROW

- As of FY22 Q4 earnings call, Wolfspeed has a **2:1 CapEx to revenue** ratio.
- We are investing ~\$1 billion to support a significant increase in our production capacity.
- Additional investments will increase our materials capacity by 10x.



RECENTLY ANNOUNCED: SILER CITY FACTORY

This state-of-the-art Silicon Carbide wafer facility will:

- Increase Wolfspeed's Materials capacity by **more than 10x**
- Span **1.8 km²**(445 acres)
- Be highly-automated
- Create **1,800** new jobs by 2030
- Cover more than **92,903 m²** (1 million ft²)
- Supply our current and future fabs
- Focus on **200 mm wafers**



Current Durham Materials
facility footprint overlaid on
Siler City Factory footprint

Architectural rendering of the new Siler City Factory

FIRST, LARGEST, ONLY 200mm SILICON CARBIDE FAB

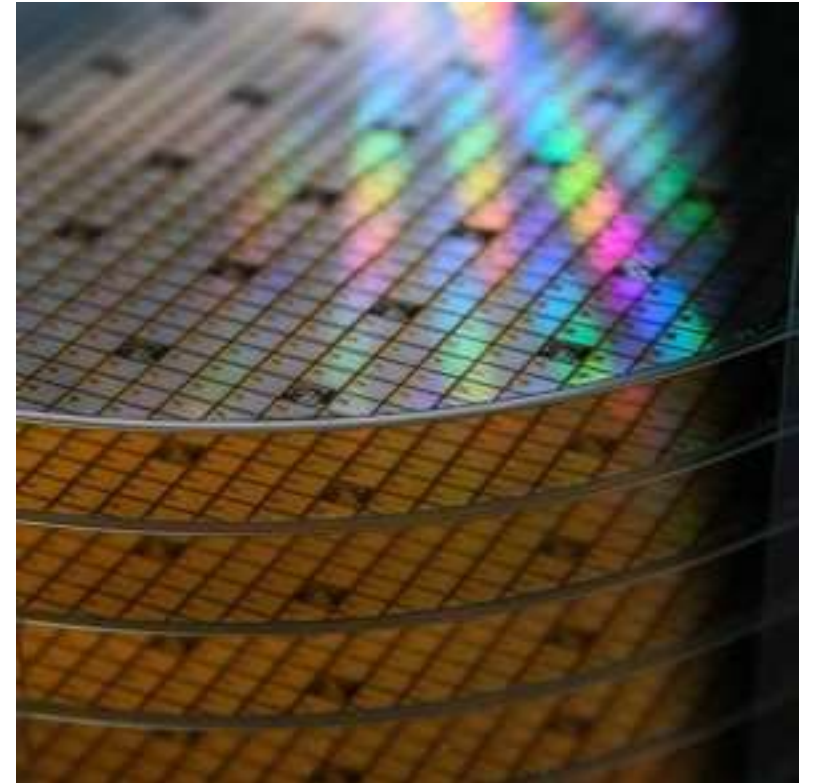
- In April 2022 we opened the doors to our Mohawk Valley wafer fab (MVF), with significant volume shipping beginning in 2023
- Qualification lots are currently in production
- Mohawk Valley is a “lights out” fab
- Automotive quality systems designed-in
- IATF certified out of the gate



A Lucid Air® powered by Wolfspeed XM3 power modules cut the ribbon at the opening ceremony.

WOLFSPEED'S MVF 200mm PROCESS IS STATE OF THE ART

- MVF is the first to adopt the overhead transport system and automated load ports in 200 mm Silicon Carbide manufacturing.
- Manufacturing systems supporting “big data” environment.
- MVF is fully automated and:
 - Reduces production touches from 10,000 to zero mitigating yield losses.
 - The Fab operates 24/7, even in the event of severe weather.
- There are few operators in the clean room; the 600 employees at MVF are tool technicians or engineers.
- The Fab has redundant power and water feeds for backup.



KEEPING THE ENVIRONMENT AT THE FOREFRONT

Changing the World

FINALIST

for the most respected public semiconductor company award, 2021 Global Semiconductor Alliance

Energy Savings

113 MWh

will be saved by the power and RF devices we sold in 2021 over their estimated lifetimes

Emissions Reduction

50%

reduction goal of scope 1 and 2 greenhouse gas emissions by 2030

Water Savings

1,892,705 liters

of annual water savings are built into the design of the Mohawk Valley Fab

Water Recycling

174,128,942 liters

of water were recycled across our sites in 2021

EV Charging

45,359 kgs

of CO2 emissions are reduced annually with EV charging infrastructure at MVF

DIVERSITY, EQUITY & INCLUSION IN ACTION

Employee Resource Groups

At Wolfspeed we believe diversity, equity and inclusion drive better business results. We celebrate our employees' differences and authenticity and are building an environment where inclusivity is real and active, rather than theoretical and static.



WOLFSPEED SILICON CARBIDE POWER PRODUCTS AT A GLANCE

Schottky Diodes and MOSFETS

- Up to 1700 V rating
 - Diodes: 600 V to 1700 V
 - MOSFETs: 650 V to 1700 V
- Up to 120 A current rating (package limited)
- AEC-Q101 automotive qualified products

Power Modules

- Up to 1700 V rating
- Up to 760 A current rating
- AQG 324 automotive qualified modules

Bare Die Schottky Diodes and MOSFETs

- Up to 1700 V rating
- Up to 194 A current rating
- AEC-Q101 automotive qualified products

STANDARD PACKAGE TYPES

SCHOTTKY DIODES &
MOSFETS



POWER MODULES



WOLFSPEED GAN ON SILICON CARBIDE RF PRODUCT LINES

A&D: Aerospace and Defense / Foundry

Components/Custom Foundry



- Full line of discrete GaN HEMTs & MMIC Power Amplifiers
- 20 MHz to 40 GHz operation
- 1W to 3000 W Peak Power applications
- Compact & high efficiency solutions

CIFR: Communication Infrastructure

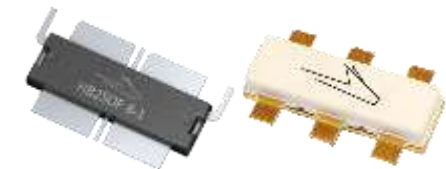
mMIMO



- Full portfolio of GaN on SiC and LDMOS power transistors

- 2.6 to 6 GHz
- 4 W-15 W Avg Power
- 32/64 Ch-Tx Systems

Macro



- 0.6 to 6 GHz
- 20-120W Avg Power
- 2 - 64 Ch-Tx Systems



We harness the power of Silicon Carbide
to change the world for the better

