## **PharmaBlock**



# A Global CRDMO Focused on Innovative Chemistry and Low Carbon Technologies

#### www.pharmablock.com product.pharmablock.com

# **Pharma Block**

### Innovative chemistry for a better future

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#### PharmaBlock Pharmaceuticals (Shandong) Co., Ltd.

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# Our Global Footprint

#### With operation sites in China and US for global markets



## Sunnyvale, CA

**Customer Service** 





# Hatfield, PA

BB & CRO Customer Service



# West Chester, PA

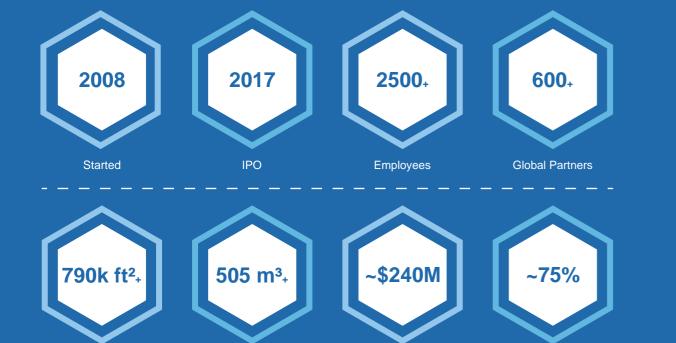
CDMO PRD (DS) **GMP Kilo-lab** 

**R&D Facility** 



US/EU/Japan Market





2022 Revenue

Total Reactor Vol.

## A Fully Integrated CRDMO Company



#### With capabilities enhanced by innovative chemistry and technology

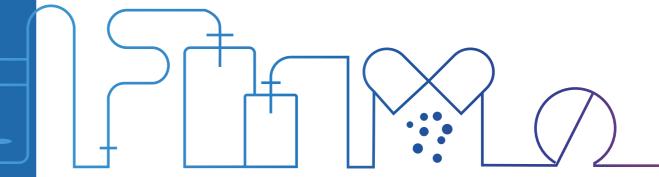
Discovery	clinical Phase I – III Commercial		
Research	Development & Manufacturing		
Building Blocks for Discovery	Building Blocks for Development and Manufacturing		
DELT/FBDD/AIDD and H2L, LO	End-to-end CMC Including RSM, Intermediate, DS and DP		
Innovation and Enabling Technologies Throughout Product Lifecycle Including flow chemistry, micropacked bed technology, chemo-/bio-catalysis and equipment R&D			



PharmaBlock (Stock Code: 300725.300725) is a global, fully integrated CRDMO in the pharmaceutical R&D and manufacturing industry. Its core businesses include a collection of rationally designed building blocks, supplying from discovery to development and commercialization; building block-enhanced hit generation and hit-to-lead optimization services and solutions; and development and manufacturing of RSMs, intermediates, APIs, and drug products for drug development and commercialization.

Throughout the product lifecycle, PharmaBlock integrates innovative and enabling technologies, such as flow chemistry, micropacked bed technology, chemo-catalysis, bio-catalysis, and equipment R&D, to proactively explore greener, safer, and more intelligent manufacturing and service models in the biopharmaceutical field, and promote the sustainable development of the industry.

Officially operated in 2008, PharmaBlock has partnered with almost all of the top 20 pharmaceutical companies, as well as hundreds of small to medium-sized biotech companies around the world. Its mission is to provide better products and services through innovation of chemistry and low-carbon technology in R&D and manufacturing, and help partners improve the efficiency of new drug discovery and development, and accelerate the project launch process at full speed.



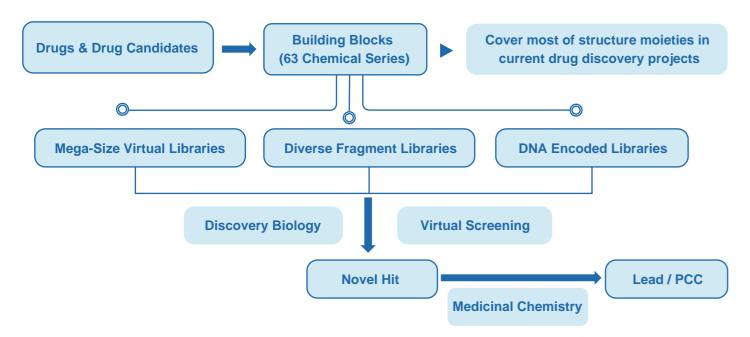


## Research Services



## To inspire and accelerate the drug discovery process

- Supply of diverse and novel building blocks to inspire drug discovery
- Hit generation, H2L & lead optimization services: fee for service (FFS) or fee for results (FFR)



## **Development & Manufacturing Services**

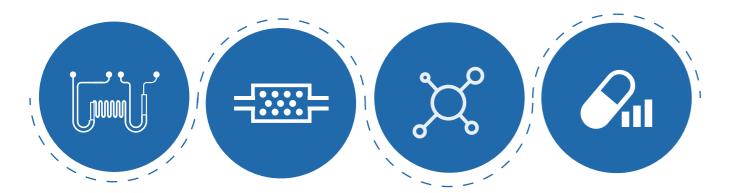


To accelerate drug development and commercialization with fully integrated capabilities

	Preclinical	Phase I – III	Commercial	
RSM & Intermediate & Drug Substance	Process R&D, Process Validation, Solid State Research RSM, Intermediate and Drug Substance Manufacturing			
Drug Product	Preformulation, Formulation-Process R&D and Process Validation Drug Product Manufacturing			
Analytical R&D		Analytical R&D, QC, Stability S	itudies	
Regulatory Affairs	Globa	al Regulatory CMC Filing Suppor	rt (IND/NDA)	

## **Enabling Technologies**

To provide better services through innovation of low carbon technologies



Flow Chemistry

400+ projects

45+ reaction types

kilo to
hundred-kilo
scale GMP
projects

Mircropacked Bed Technology

450+ projects

kilo to MT scale

commercial and GMP projects

Catalysis

500+
heterogeneous
catalysts

400+
biocatalysis
projects

kilo to hundred-kilo scale Solid State & Crystal Engr.

750+ projects

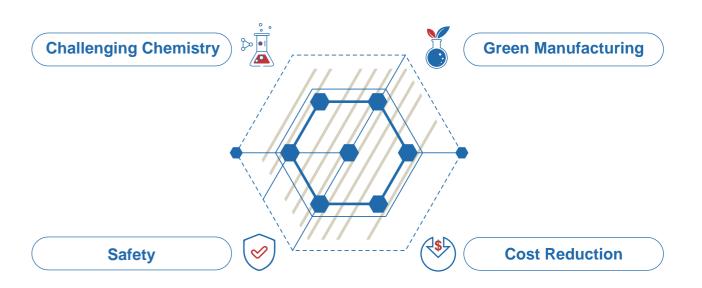
20+
commercial
projects

kilo to
hundred-kilo
scale GMP
projects



## Technology Enhanced CRDMO

Technology innovation for efficient, green, safer and cost-effective production



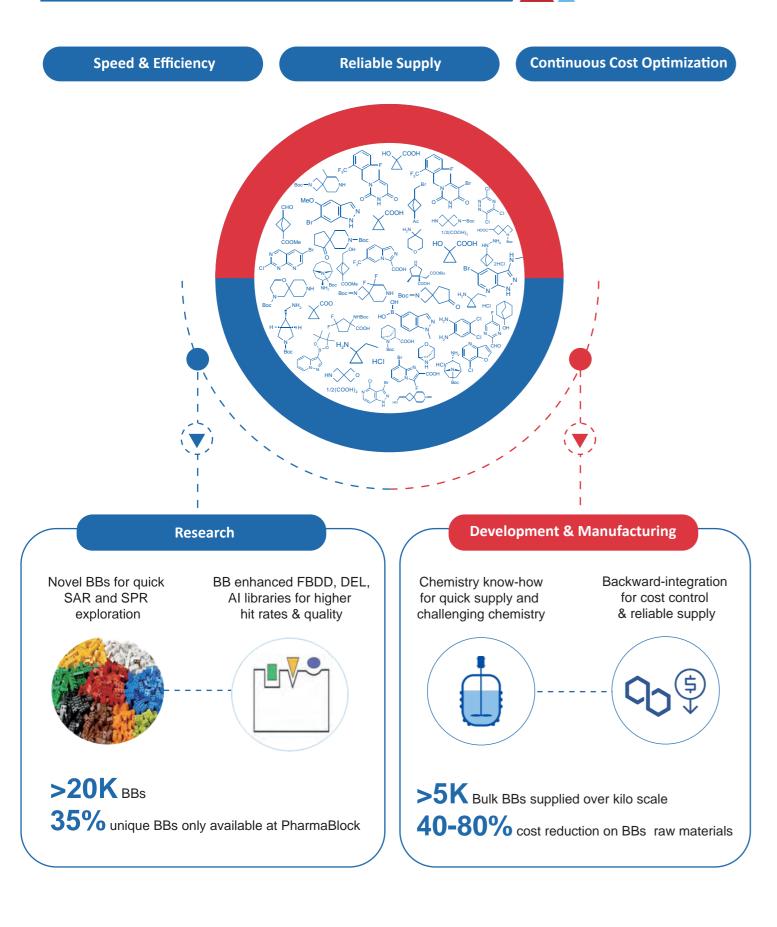


Continuous Manufacturing GMP Workshop at PharmaBlock Zhejiang

## **Enabling Technologies**

Implemented in ~35% of development & commercial projects, including GMP projects

# Building Block Enhanced CRDMO



# Our Commitment

#### **EHS**

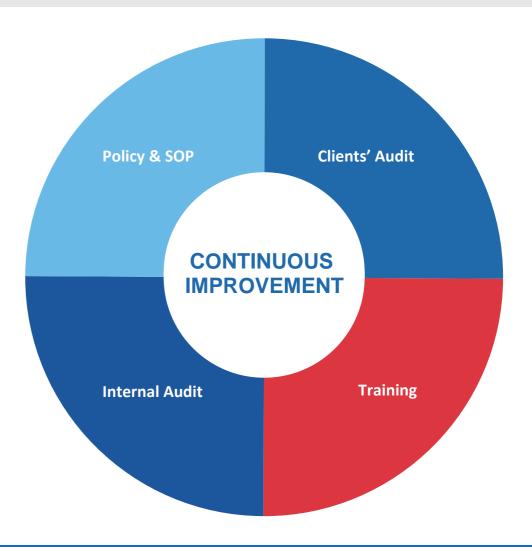
- Certified: ISO 14001, ISO 45001, CNAS, report available in PSCI
- Management philosophy: source design, process control, and end treatment

### Quality

- Certified: FDA/NMPA (PAI), >70 client GMP inspections (US, Japan, EU, China)
- Management philosophy: consistent, robust, phase-appropriate, and compliant

#### **IP**

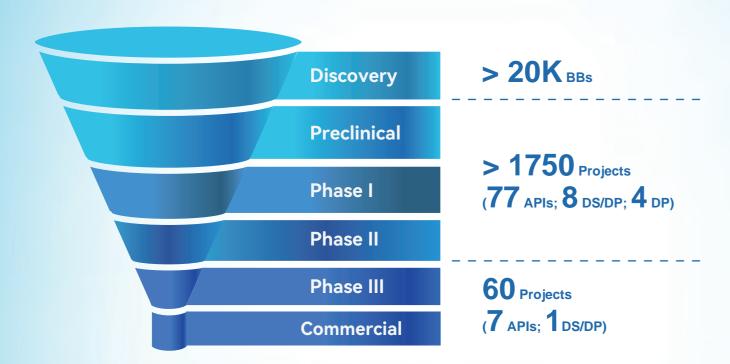
- Certified: ISO27001, GB/T 29490-2013 implemented
- Management philosophy: integrity, partnership, and commitment



## **Project Experience**



**Increasing Project Pipeline (2022)** 





#### **Global Footprint**

US & China

#### **Quality, Speed, Cost**

Maximized by extensive BB experience and technology platform

#### **Track Record**

- > 120 GMP projects
- > 80 RSMs/APIs in Phase III to commercial

#### **Social Responsibility Focus**

Low carbon technologies Sustainability practice Community support





## Mission

Innovative chemistry for a better future

- Chemistry innovation provides better (more effective, safer, easier to use, more accessible) products and services for the future
- Chemistry innovation addresses safety, environmental, and quality challenges in R&D and manufacturing processes



## **Vision**

To provide better products and services through innovation of chemistry and low carbon technology in R&D and manufacturing



Equality

Enterprising

Innovation

Cooperation

