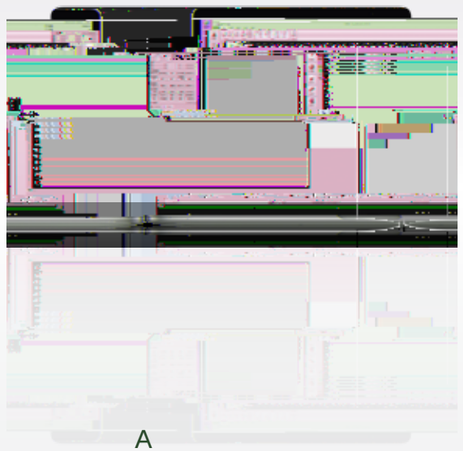
RAYTOOLS

# BT

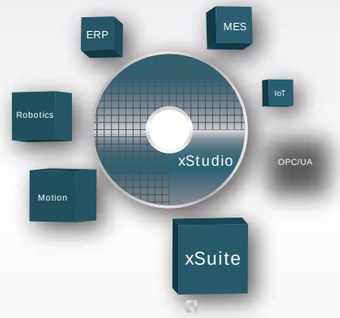
## Smart xBeam Delivery——BeamCut



A



B




C

Empower Technologies (Shanghai) Co., Ltd.

8
400-670-1510
sales@empower.cn
www.empower.cn

305 B2
13917215193

0755- 26903927 ö

@202509

Empower 2009 ´

3D RayTools

A+B) + RayKits K+N + RayService C+S +

51laser

xEOS

RayPlus Ray

xEOS xAPP Ai

Founded in 2009, Shanghai Empower Technologies Co.,Ltd. is empowering an open platform of smart laser manufacturing solutions based on xEOS new edge approach. With the core concept of Doing Good Deeds (xEOS+xAPP open-minded ecosystem), we developed xAutomation and xBeamgo SW/HW combo kits for laser cutting, drilling, welding, cladding, hardening, surface treatment, micromachining, 3D printing, marking and additive manufacturing etc applications. Accordingly we provide RayTools (A+B) software + laser head xStudio subsystem, RayKits (K+N) xSuite solutions, RayService (C+S) accessories 51LASER spare parts worry-free xSmart service.

Based on the independent and controllable xEOS edge operating system digital transformation base, starting with the mission of "C la hi o a e Sm w n tr S ' o n l a e a @ wn tur

**使命**
**Mission**

Open-Minded Machinery and Automations

**愿景**
**Vision**

Empower Openlaser Systems

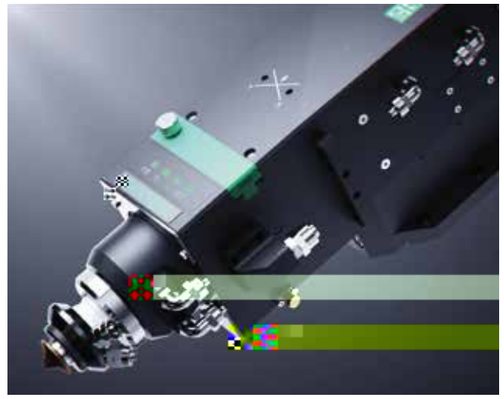
**价值观**
**Value**

Doing Good Deeds

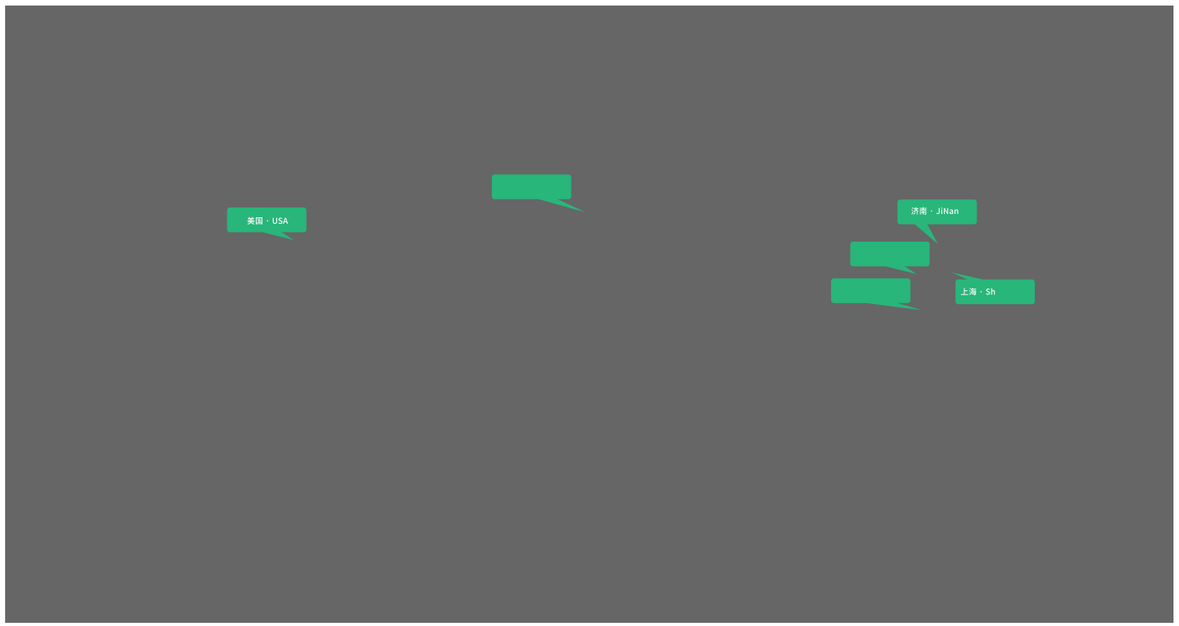
## Empower Openlaser Systems

### xMotion

### xLaser



### xConnect




## ShangHai

8

: sales@empower.cn

www.empower.cn

400-670-1510

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021 6760-1511

## Suzhou

:

305 B2

# CONTENT


- BT

01 BT210S 3.3kW

03 BT220 3.3kW

05 BT240S 4kW

07 FM220 0.5kW/1.5kW

/ BS

15 BS03K-CAT 4kW

17 BS06K-CAT 6kW/8kW

19 BS12K-CAT 12kW

23 BS20K-CAT 20kW

25 BS30K-CAT 30kW

27 BS40K-CAT 40kW

29 BS60K-CAT 60kW

43 BS06K-CAT-3D 6kW/8kW

45 BS12K-CAT-3D 12kW

21 BS12K-CAT-3D 12kW

47 BS20K-CAT-3D 20kW

49 BS30K-CAT-3D 30kW

51 BS40K-CAT-3D 40kW

/ BM

09 BM110E 4kW

11 BM111 4kW

13 BM06K 6kW

-

31 BT220-3D 2kW

33 BT06K 6kW

35 BD04K/BD08K 4kW/8kW

37 BD08K-90° 8kW

39 BM06K-3D 6kW

41 BS03K-CAT-3D 4kW

- GF

53 GF101 3D 4kW

54 GF101F 3D 4kW

55 GF102

56 GF402 6kW

57 GF403

58 GF501 3kW

59 GF502 AB

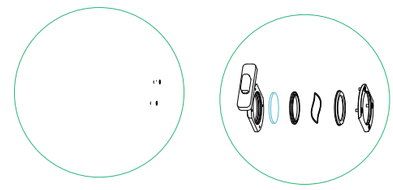
60 GF503

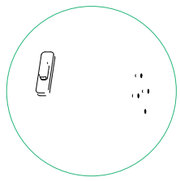
-QBH
-QCS

RAT

# BS06K-CAT

6kW/8kW





# BT06K

## 6kW

D24.9×1.5mm

-QBH
-G5

-F100mm

-F155mm
-F200mm

-

TRA (3D)

D27.9×4.1mm

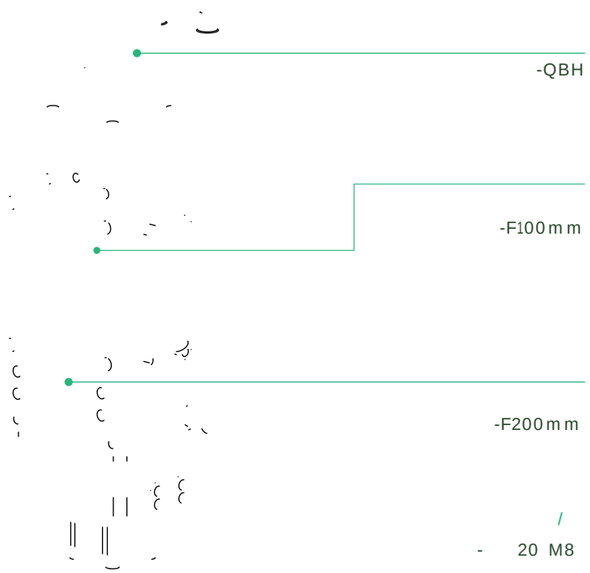
TRA(3D)

| | |
|---|---|
| 6000W | 28mm |
| | 1.0mm 1.2mm 1.5mm 2.0mm 2.5mm 3.0mm 3.5mm 4.0mm 4.5mm 5.0mm |
| ≤25bar | ~3.0kg |

# BD04K/BD08K

## 4kW/8kW

D24.9×1.5mm



-QBH

-F100mm

D27.9×4.1mm

-F200mm

32.1×24×3.6mm

- 20 M8

- TRA (3D)

- M8 H19m

4000W/8000W 100/200

±1.5mm

-32mm~+32mm ~4.4kg

QBH

BC.BD04G.0001(F200mm)

-F100mm
-F200mm

*

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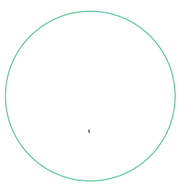
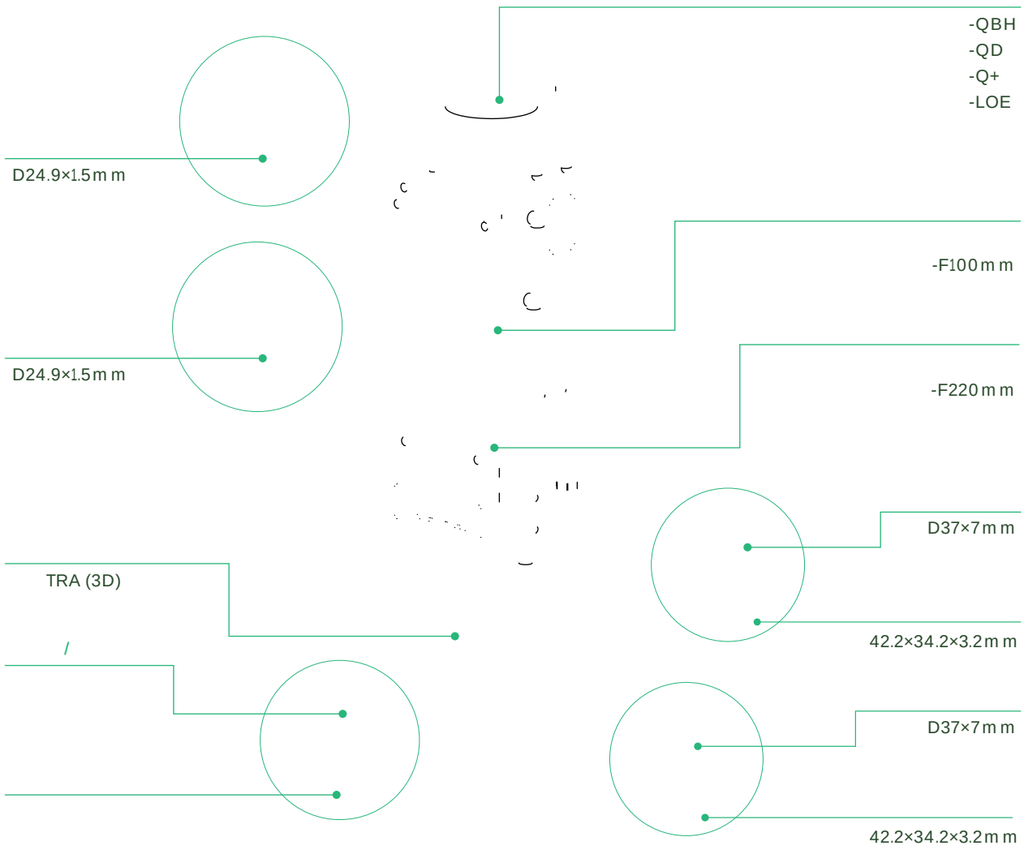


# BS12K-CAT-3D

## 12kW




4

/ EtherCAT

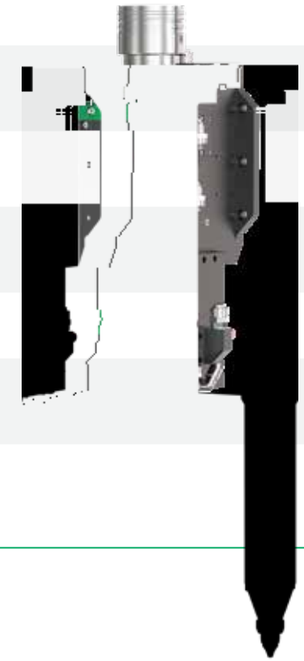
-

BS

-

/

-



BC.BS12E.1044

-F100mm
-F220mm *

# GF101

3D 4kW

# GF102

1mm

±0.1mm

128

I/O

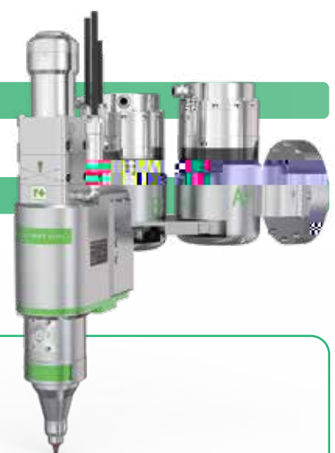
GF101

| | | | |
|---|---|---|---|
| 4000W | 28mm | Φ24.9mm×5mm | Φ27.9mm×1mm |

| | | |
|---|---|---|
| -9mm ~ +7mm | 20mm | ≤25bar |

| | | |
|---|---|---|
| 45mm | 75r/min | 137rad/s² |

| | | |
|---|---|---|
| ±0.02mm | ±0.01mm | ~11.0kg |



BG.GF102.0001

GF102 45mm

*

# GF402

6kW

±20mm

±17.5mm

+

| | | | |
|---|---|---|---|
| 6000W | ±135° | ±17.5mm | ±20mm |

| | | |
|---|---|---|
| 2rev/s | 125rad/s² | 2g |

| | |
|---|---|
| ±0.005° | ±0.005° |

~17.5kg

BG.GF402.0001/BG.GF402.0002

QBH 100:150 6000W H

QBH 100:200 6000W H

*

# GF403

QBH

±45°

| | |
|---|---|
| | ±45° |
| 2rev/s | 125rad/s² |
| 0.005° | ~9.5kg |

# GF501

3kW

| | |
|---|---|
| AO | ±10mm |
| TRA | |
| H | ±18.5mm |

X-Y

A

| | | A | C | H |
|---|---|---|---|---|
| 3000W | 36mm | ±135° | ±540° | |

# GF502

## AB

A B ±55°

# GF503

A C H DD

3g

AB

| | | |
|---|---|---|
| ±55° | 90r/min | 137rad/s² |
| 0.5arcmin | ~6.5kg | |

| A | C | H |
|---|---|---|
| ±135° | ±220° | ±15mm |

| A C | A C | H |
|---|---|---|
| 1rev/s | 50rad/s² | 3g |

| A C | A C |
|---|---|
| ±0.01° | ±0.01° |

BG.GF502.0002

±45°

±45° Siemens

C 360°