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**JFY INTERNATIONAL**  
*YOUR GLOBAL PARTNER IN*  
*SHEET METAL TECHNOLOGY*

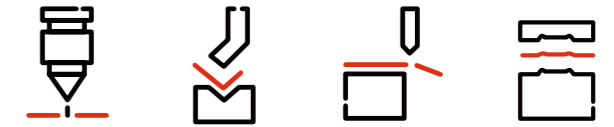
**JFY**  
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Member of the TRUMPF Group

# Product Overview

*Our product portfolio*



**CNC laser cutting machines**



**High-speed CNC shearing machines**



**High-speed laser tube cutting machines**



**High-speed hydraulic CNC bending machines**



**Loading and unloading systems**



**CNC bus bar punching machines**



**High-speed hydraulic and servo motor NC turret punch machines**



**Storage and automation solutions**

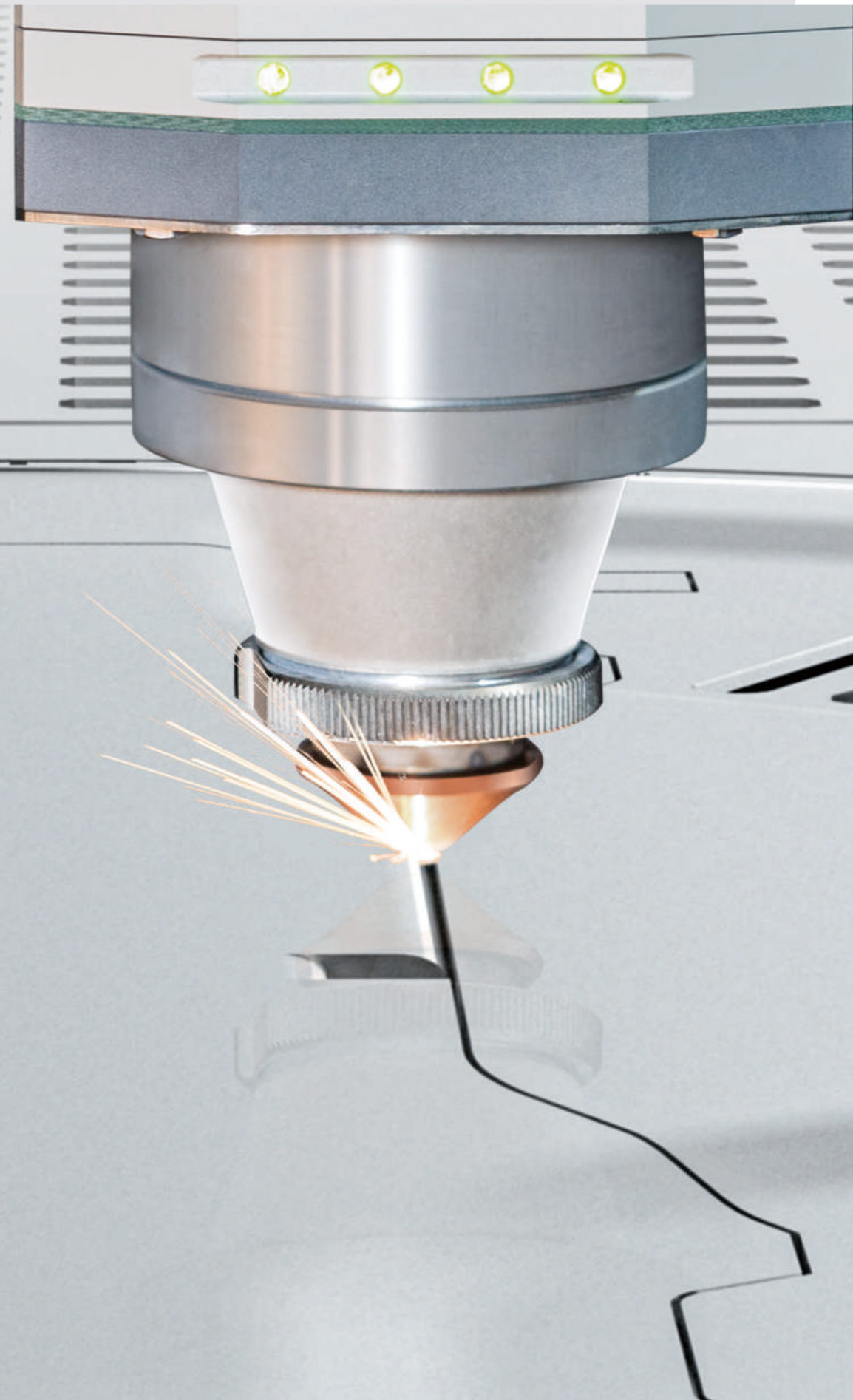


# Laser Technology

## Cost effective cutting solutions for your applications

Customers around the world place their trust in JFY as one of the leading suppliers of laser cutting machines. Laser technology from JFY gives you the security of knowing you have chosen a highly flexible and extremely productive machine for your processing needs. We will support you every step of the way, from developing your application to choosing the right technology, components and software.

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# BFC Laser Cutting Machine

A high-performance laser machine which opens a broad spectrum of cutting applications for various industries.



## High Safety Standard

Fully enclosed machine with certified components to avoid laser radiation hazards

## Global service support

Professional local and remote service support to ensure fast response

## Reliable optics and cutting quality

Good optics and cutting quality with JFY fiber laser and Raytool cutting unit

## Easy to operate

Ergonomic design and operation with extra-large screen and online monitoring of cutting performance

## Optimized price performance ratio

Reliable machine with higher cost effectiveness and professional manufacturing process

# Standard Configuration

## CNC Control

FSCUT is a laser cutting control system that is specifically designed for the sheet metal industry. With the integrated HMI from JFY, its high performance and design ensure maximum productivity and ergonomic operation.

### Special Features:

- User-friendly interface for easy setup and operation.
- Support of various piercing functions [e.g. multiple stage piercing process, segmented and stepping patterns].
- Support of various cutting technologies [e.g. fly cut, frog-leap, kerf compensation and lead-in cutting functions].
- Support of various file formats to import designs directly into the system.



## Laser Source

The new generation of single module fiber lasers from JFY offer the perfect blend of superior beam quality, compact size, and high light conversion efficiency. It is suitable for remote processing, high-frequency laser cutting and clean surface cutting.



## Cutting Head

The BFC is equipped with the Raytool Auto Focus Laser Cutting Head. The optimized optical and water-cooling design enables the laser head to work continuously stable at high power for a long time.



# Technical Parameter

Technical Data				
		BFC3015	BFC4020	BFC6020
<b>Maximum format size that can be processed</b>				
X-axis	mm	3050	4050	6050
Y-axis	mm	1545	2050	2050
Z-axis	mm	260	260	260
<b>Workpiece</b>				
Max. weight (up to 6KW)	kg	900	1600	2350
<b>Max. speed</b>				
Simultaneous	m/min			
Max. acceleration	g	1.7	1.7	1.7
Max. positioning speed	m/min	140	140	140
<b>Accuracy</b>				
Positioning deviation	mm	±0.03	±0.03	±0.03
Average positioning	mm	±0.03	±0.03	±0.03
Cutting accuracy	mm	±0.1	±0.1	±0.1
<b>Machine performance</b>				
CNC control		FSCUT 2000	FSCUT 2000	FSCUT 2000
Time of table exchange	sec	10	13	16
Machine net weight	kg	8000	10000	13000

Laser Data				
		JFY 3KW	JFY 6KW	
Max. power	W	3000	6000	
Cutting head		Raytool BM110	Raytool BM06K	
Wavelength	um	1080±10	1080±10	
Output type		QBH	QBH	
Output fiber optic diameter	um	100	100	
<b>Max. sheet thickness</b>				
Mild steel	mm	22	25	
Stainless steel	mm	16	25	
Aluminum	mm	12	20	
Copper	mm	-	-	
Brass	mm	10	20	

# BFC Plus Laser Cutting Machine

The BFC Plus sets a new standard for productivity and cost-effectiveness. Equipped with a TruFiber Laser of TRUMPF the machine is extremely flexible and reliable. The best combination of price and quality.

**NEW**  
Generation  
with TruFiber



## High Safety Standard

Fully enclosed machine with certified components to avoid laser radiation hazards

## Global service support

Professional local and remote service support to ensure fast response

## Proven optics and cutting quality

Excellent optics and cutting quality through TRUMPF fiber laser and premium cutting unit

## Convenient to use

Upgraded control system with convenient extra-large screen to enable online programming

## Optimized price performance ratio

Reliable machine with higher cost-effectiveness and professional manufacturing process

# Standard Configuration

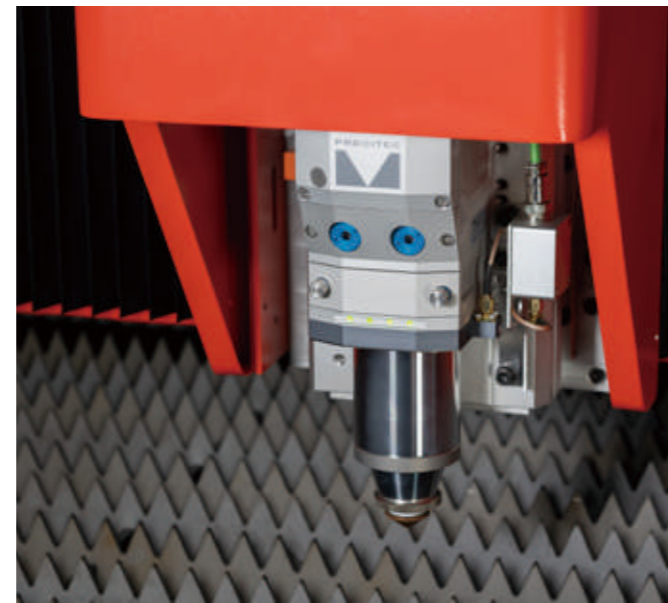
## The new generation of TruFiber

- TruFiber is the ultimate fiber laser solution for all your cutting needs.
- In fact, TruFiber delivers excellent process stability and consistent process results.
- Furthermore, the technology requires a minimum of maintenance.



## Cutting Head

- Precitec cutting unit with outstanding performance.
- High cutting speed due to low weight.
- Stable processing of thick materials.
- Easy and quick maintenance.



## CNC Control

FSCUT4000 is a widely used and proven laser cutting control system that is designed for high speed and precision applications. Advanced functions [e.g. automatic edge detection, break-point memory, and power ramping] ensure high cutting quality and efficiency. Overall, the FSCUT4000 provides a versatile and efficient solution for laser cutting operations, improving productivity and reducing material waste.



# Technical Parameter

Technical Data				
		BFC3015+	BFC4020+	BFC6020+
<b>Maximum format size that can be processed</b>				
X-axis	mm	3050	4050	6050
Y-axis	mm	1545	2050	2050
Z-axis	mm	260	260	260
<b>Workpiece</b>				
Max. weight (up to 6KW)	kg	900	1600	2350
<b>Max. speed</b>				
Simultaneous	m/min			
Max. acceleration	g	1.7	1.7	1.7
Max. positioning speed	m/min	140	140	140
<b>Accuracy</b>				
Positioning deviation	mm/m	±0.03	±0.03	±0.03
Average positioning	mm	±0.03	±0.03	±0.03
Cutting accuracy	mm/m	±0.1	±0.1	±0.1
<b>Machine performance</b>				
CNC control		FSCUT 4000	FSCUT 4000	FSCUT 4000
Time of table exchange	sec	10	13	16
Machine net weight	kg	8000	10000	13000

Laser Data				
		TruFiber 3KW	TruFiber 4KW	TruFiber 6KW
Max. power	W	3000	4000	6000
Cutting head		Precitec LM	Precitec LM	Precitec PC
Wavelength	um	1071±2	1071±2	1071±2
Output type		QBH	QBH	QBH
Output fiber optic diameter	um	100	100	100
<b>Max. sheet thickness</b>				
Mild steel	mm	22	22	25
Stainless steel	mm	16	20	25
Aluminum	mm	12	20	20
Copper	mm	-	-	20
Brass	mm	10	10	20