

Catalogue

Fiber Cutting

目录

1. Fibre Laser Source.....	5
1.1 MAX Single Module MFSC Fiber Laser.....	5
1.2 Raycus Single Module CW Fiber Laser.....	5
1.3 IPG Fiber Laser.....	6
1.4 JPT Fiber Laser.....	7
1.5 RECI Single Module Fiber Laser.....	7
1.6 Fiber laser accessories.....	7
1.61 Output Protective Connector.....	7
2. Fiber Cutting Controller.....	8
2.1 Friendess Cutting Control System.....	8
2.2 Au3tech Cutting Control System - MCC3721H.....	10
2.3 WEHONG Cutting Control System.....	10
2.4 Ruida Cutting Control System.....	11
3. Fiber Laser Head.....	11
3.1 Raytools Fiber Cutting Head.....	11
3.2 WSX Fiber Cutting Head.....	12
3.3 Au3Tech Fiber Cutting Head.....	14
3.4Fiber Welding Head.....	15
4. Laser Nozzles.....	16
4.1 Precitec.....	16
4.11 Type A.....	16
4.12 Type B.....	17
4.13 Type C.....	20
4.14 Type D.....	21
4.15 Type E.....	22
4.16 Type 3D.....	22
4.2 Raytools.....	23
4.21 Type A.....	23
4.22 Type B.....	25
4.23 Type C.....	26
4.24 Type D.....	27
4.25 Type E.....	28
4.26 Type F.....	29
4.3 Trumpf.....	30
4.31 Type A.....	30
4.32 Type B.....	30
4.33 Type C.....	30
4.34 Type D.....	31
4.35 Type E.....	31

4.36 Type F.....	31
4.4 Bystronic.....	32
4.41 Type A.....	32
4.42 Type B.....	32
4.43 Type C.....	33
4.44 Type D.....	33
4.45 Type E.....	34
4.5 Amada.....	34
4.51 Type A.....	34
4.52 Type B.....	35
4.53 Type C.....	35
4.6 DNE.....	35
4.61 Type A.....	35
4.62 Type H.....	36
4.7 Mitsubishi.....	37
4.71 Type A.....	37
4.72 Type B.....	38
4.73 Type C.....	38
4.8 Prima.....	39
4.81 Type A.....	39
4.82 Type B.....	40
4.9 Others.....	41
4.91 WSX Nozzle.....	41
4.92 3D Nozzle.....	42
4.93 Penta Nozzle.....	43
4.94 DAZU Nozzle.....	44
4.95 Custom Nozzle.....	45
5. 5. Ceramic Parts.....	46
5.1 Precitec.....	46
5.2 Raytools.....	46
5.3 Bystronic.....	47
5.4 Trumpf.....	47
5.5 Other.....	48
5.5.1 IPG.....	48
5.4.2 HIGHYAG.....	48
5.4.2 WSX.....	49
6. Anti-collision connector.....	49
6.1 Bystronic.....	49
6.2 Precitec.....	49
6.3 Others.....	50
6.3.1 HIGHYAG.....	50
7. 7. Fiber Lens.....	50
7.1 Protective Windows.....	50
7.2 Foucusing Lens and Collimating Lens.....	52

7.3 Fiber Laser Safety Goggles.....	55
7.4 Protective Windows Washer.....	56
7.5 Lens Cleaning Wipe.....	56
7.6 Cotton Swab.....	56
8. Laser Cutting Head Parts.....	57
8.1 QBH Interface.....	57
8.2 Nozzle Connector.....	57
8.2 Lens Insertion Tool.....	57
8.3 Cable Sensor.....	59
9. 9.Industrial Chillers.....	60
9.1 Fiber Laser Chillers.....	60
9.2 Filter Water Purifier.....	60
10. Electro-Pneumatic Regulator.....	61
11. Industrial Computer.....	61
12. Reducer.....	61
12.1 Nidec-Shimpo Reducer.....	62

1. Fibre Laser Source

1.1 MAX Single Module MFSC Fiber Laser

	SKU	Model	Average Output Power	Wavelength	Mode
	FLS01MFS500W	MFSC-500	500W	1080±5nm	CW/Modulate
	FLS01MFS800W	MFSC-800	800W		
	FLS01MFS1500W	MFSC-1500	1500W		
	FLS01MFS2000W	MFSC-2000	2000W		
	FLS01MFS3000W	MFSC-3000	3000W		
	FLS01MFS4000W	MFSC-4000	4000W		
	FLS01MFS1000W	MFSC-1000	1000W	1080±5nm	CW/Modulate
	FLS01MFS3000W	MFSC-3000	3000W	/	/
	FLS01MFS4000W	MFSC-4000	4000W		

1.2 Raycus Single Module CW Fiber Laser

	SKU	Model	Average Output Power	Wavelength	Mode
	FLS01RC500	RFL-C500	500W	1080±5nm	CW/Modulate
	FLS01RC750	RFL-C750	750W		
	FLS01RC1000	RFL-C1000	1000W		
	FLS01RC1500	RFL-C1500S	1500W		
	FLS01RC2000	RFL-C2000S	2000W		
	FLS01RCRFLC3300	RFL-C3300	3300W	1080±5nm	CW/Modulate

	FLS01RCRFLC4000	RFL-C4000	4000W	1080±5nm	CW/Modulate
	FLS01RCRFLC6000	RFL-C6000	6000W	1080±5nm	CW/Modulate

1.3 IPG Fiber Laser

IPG	SKU	Power	Model
	FLS01IPG1000	1000W	YLR-1000-K
	FLS01IPG1500	1500W	YLR-1500-K
	FLS01IPG2000	2000W	YLS-2000
	FLS01IPG2000R	2000W	YLR-2000-MM-WC
	FLS01IPG2500R	2500W	YLR-2500-MM-WC
	FLS01IPG3000	3000W	YLS-3000-K
	FLS01IPG3000R	3000W	YLR-3000-K
	FLS01IPG4000	4000W	YLS-4000-K
	FLS01IPG6000	6000W	YLS-6000-K
	FLS01IPG8000	8000W	YLS-8000-CUT
	FLS01IPG10000	10000W	YLS-10000
	FLS01IPG12000	12000W	YLS-12000-CUT
	FLS01IPG15000	15000W	YLS-15000-CUT

1.4 JPT Fiber Laser

JPT	SKU	Model
	FLS01JPTCW1000	CW1000
	FLS01JPTCW1500	CW1500
	FLS01JPTCW2000	CW2000

1.5 RECI Single Module Fiber Laser

RECI	SKU	Model
	FLS01RECI1000W	FSC1000
	FLS01RECI1500W	FSC1500
	FLS01RECI2000W	FSC2000

1.6 Fiber laser accessories

1.61 Output Protective Connector

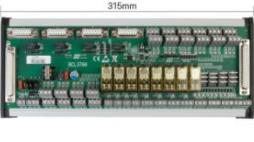
	Model	SKU	Power	Height	diameter	Suitable for
	Raycus	FL214PRAY40	0-4kW	16	12.5	For Raycus Fiber Laser Source 0-4kW
		FL214PMAX15	0-1.5kW	19.5	11.5	For Max Fiber Laser Source 0-1.5kW
	MAX	FL214PMAX60	2-6kW	16	13	For Max Fiber Laser Source 2-6kW

		FL214PMAX602	2-6kW	18.5	12.85	For Max Fiber Laser Source 2-6kW
		FL214PMAX603	2-6kW	18.5	12.85	For Max Fiber Laser Source 2-6kW

2. Fiber Cutting Controller

2.1 Friendess Cutting Control System

	SKU	Name	Model
	LC04FSCUT1000	FSCUT1000A	BMC1603+BCL4562+Preamplifier
	LC04FSCUT2000C	FSCUT2000C	BMCL1604V2 + BCL3766+ FSCUT2000C-WKB+Preamplifier
	LC04FSCUT3000S	FSCUT3000S	BMC1805 + BCL3766+ FSCUT3000S+Preamplifier
	LC04FSCUT4000	FSCUT4000	BMC1214+ BCL3724+ FSCUT4000+Preamplifier

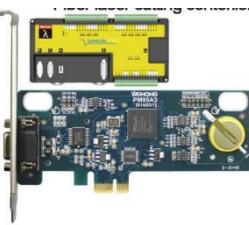
	LC04FSCUT5000A	FSCUT5000	BCS100E+BCL4516E+CypTronic-E +WKB+BCL-AMP
	LC04FSCUT8000AHP	FSCUT8000A (With HypPanel)	HypTronic+ HypPanel+HPL2720E+BCS100E
	LC04BMCL1604V2	Control Card	BMCL1604V2
	LC04BCL4516E	External IO Board	BCL4516E
	LC04BCL3766	External IO Board	BCL3766
	LC04FSCGPA	Preamplifier(OEM)	Preamplifier (Universal)
	LC04BBCS100	BCS100 Live Focus System	Live Focus System+Preamplifier

	LC04FSOEM	Wireless Handle (OEM)	For FSCUT System
---	-----------	-----------------------	------------------

2.2 Au3tech Cutting Control System - MCC3721H

	SKU	Name	Model
	LC04AU3MCC3721H	Au3tech MCC3721H	MCC3721H+Wireless Handle+Preamplifier
	LC04FSCGPB	Preamplifier	Preamplifier for Au3tech

2.3 WEHONG Cutting Control System

	SKU	Name	Model
	LC04WHFC01	WEIHONG Control System	WEIHONG PM95A+Lambda5E

2.4 Ruida Cutting Control System

SKU	Name	Model
LC04RDC6563F	Ruida RDC6563F	RDC6563F

3. Fiber Laser Head

3.1 Raytools Fiber Cutting Head

Raytools	SKU	Model	Power Rating	Clear Aperture	Manual/Auto Focusing
	LH04RBT210S	Raytools BT210S	≤1.5kW	25mm	Manual
	LH04RBT240S	Raytools BT240S	≤2kW	28mm	Manual
	LH04RBT240SJP	BT240S (F200)	3kW	-	Manual
	LH04BM109	Raytools BM109	≤1.5kW	26mm	Auto Focusing
Raytools BM111	LH04RBM111C	125mm	≤3.3kW	28mm	Auto Focusing

	LH04RBM111	155mm	$\leq 3.3\text{KW}$	28mm	Auto Focusing
	LH04RBM111B	200mm	$\leq 3.3\text{KW}$	28mm	Auto Focusing
Raytools BM114 	LH04BM114	F150 (For FSCUT4000/8000)	$\leq 6\text{KW}$	28mm	Auto Focusing
	LH04BM1141	F200 (For FSCUTt4000/8000)	$\leq 6\text{KW}$	28mm	Auto Focusing
	LH04BM114B	F150 (For FSCUT2000/3000)	$\leq 6\text{KW}$	28mm	Auto Focusing
	LH04BM114B1	F200 (For FSCUT2000/3000)	$\leq 6\text{KW}$	28mm	Auto Focusing
	LH04BM114C	F150 (With ETC-F100)	$\leq 6\text{KW}$	28mm	Auto Focusing
	LH04BM114C1	F200 (With ETC-F100)	$\leq 6\text{KW}$	28mm	Auto Focusing

3.2 WSX Fiber Cutting Head

WSX	SKU	Model	Power Rating	Clear Aperture	Manual/Auto Focusing
	LH04WSXMN15S	WSX MN15S	$\leq 1000\text{W}$	20mm	Manual
	LH04WSXMN15	WSX MN15	$\leq 1000\text{W}$	20mm	Manual

	LH04WSXKC13	WSX KC13	≤2000W	25mm	Manual
	LH04WSXKC15	WSX KC15	≤2000W	25mm	Manual
	LH04WSXNC12	WSX NC12	≤1000W	20mm	Auto Focusing
	LH04WSXNC30B	WSX NC30B	≤2000W	25mm	Auto Focusing (Stepper motor)
	LH04WSXNC30	WSX NC30	≤3000W	25mm	Auto Focusing (Servo motor)
	LH04WSXNC60	WSX NC60	≤6000W	32mm	Auto Focusing

3.3 Au3Tech Fiber Cutting Head

Au3Tech	SKU	Model	Power Rating	Clear Aperture	Assist Gas Pressure
	LH233AU3A200E	Au3Tech A200E	≤2000W	27mm	≤25 bar
	LH233AU3A200MS	Au3Tech A200MS	≤2000W	26mm	≤25 bar

3.4 Precitec Fiber Cutting Head

ProCutter	SKU	Model	Power Rating	Focal Length	Assist Gas Pressure
	LH234PP6F150	Precitec Procutter Standard 6kW F150	≤6000W	F150	≤25 bar
	LH234PP6F150ECO	Precitec Procutter Standard 6kW F150 (for FSCUT BCS100)	≤6000W	F150	≤25 bar
	LH234PP6F200	Precitec Procutter Standard 6kW F200	≤6000W	F200	≤25 bar

	LH234PP6F200ECO	Precitec Procutter ECO 6kW F200 (for FSCUT BCS100)	≤6000W	F200	≤25 bar
	LH234PP8F150	Procutter V2.0 8kW F150	≤8000W	F150	≤25 bar
	LH234PP8F200	Procutter V2.0 8kW F200	≤8000W	F200	≤25 bar

3.5 Fiber Welding Head

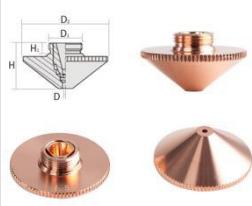
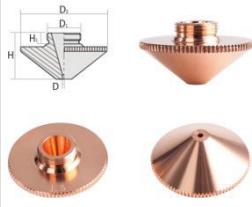
	SKU	Model	Max Power	Collimating Lens	Focusing Length	Weight
	LH04WSXND12	WSX ND12	1000W	100mm/150mm	150mm/200mm	2.3kg
	LH04WSXND18	WSX ND18	1500W	50mm	80mm/120mm	1.36kg

4. Laser Nozzles

4.1 Precitec

4.11 Type A

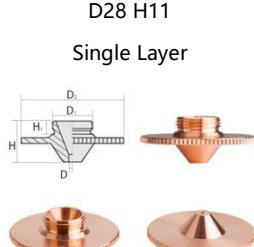
Model		SKU	Outer Diameter	Height	Caliber	Thread	OEM Pin
			mm	mm	mm		
Type A	Single Layer	LN03D28H15S08HD	28	15	0.8	M11	P0591-570-00008
		LN03D28H15S10HD	28	15	1.0	M11	P0591-571-00010
		LN03D28H15S12HD	28	15	1.2	M11	P0591-572-00012
		LN03D28H15S14HD	28	15	1.4	M11	O
		LN03D28H15S15HD	28	15	1.5	M11	P0591-573-00015
		LN03D28H15S18HD	28	15	1.8	M11	P0591-574-00018
		LN03D28H15S20HD	28	15	2.0	M11	P0591-575-00020
		LN03D28H15S25HD	28	15	2.5	M11	P0591-576-00025
		LN03D28H15S30HD	28	15	3.0	M11	O
		LN03D28H15S35HD	28	15	3.5	M11	O
		LN03D28H15S40HD	28	15	4.0	M11	O
		LN03D28H15S45HD	28	15	4.5	M11	O
		LN03D28H15S50HD	28	15	5.0	M11	O
		LN03D28H15S60HD	28	15	6.0	M11	O
	Double Layers	LN03D28H15D08	28	15	0.8	M11	P0591-002-00008
		LN03D28H15D10	28	15	1.0	M11	P0591-002-00010
		LN03D28H15D12	28	15	1.2	M11	P0591-002-00012
		LN03D28H15D14	28	15	1.4	M11	P0591-002-00014
		LN03D28H15D15	28	15	1.5	M11	P0591-002-00015
		LN03D28H15D18	28	15	1.8	M11	P0591-002-00018
		LN03D28H15D20	28	15	2.0	M11	P0591-002-00020
		LN03D28H15D25	28	15	2.5	M11	P0591-002-00025
		LN03D28H15D30	28	15	3.0	M11	P0591-002-00030
		LN03D28H15D35	28	15	3.5	M11	P0591-002-00035
		LN03D28H15D40	28	15	4.0	M11	P0591-002-00040
		LN03D28H15D45	28	15	4.5	M11	O
		LN03D28H15D50	28	15	5.0	M11	P0591-002-00050
		LN03D28H15D60	28	15	6.0	M11	O



Model		SKU	Outer Diameter	Height	Caliber	Thread	OEM Pin
			mm	mm	mm		
Type A	Chrome-plating Single Layer	LN03D28H15SCP08	28	15	0.8	M11	O
		LN03D28H15SCP10	28	15	1.0	M11	O
		LN03D28H15SCP12	28	15	1.2	M11	O
		LN03D28H15SCP14	28	15	1.4	M11	O
		LN03D28H15SCP15	28	15	1.5	M11	O
		LN03D28H15SCP18	28	15	1.8	M11	O
		LN03D28H15SCP20	28	15	2.0	M11	O
		LN03D28H15SCP25	28	15	2.5	M11	O
		LN03D28H15SCP30	28	15	3.0	M11	O
		LN03D28H15SCP35	28	15	3.5	M11	O
		LN03D28H15SCP40	28	15	4.0	M11	O
		LN03D28H15SCP45	28	15	4.5	M11	O
		LN03D28H15SCP50	28	15	5.0	M11	O
		LN03D28H15SCP60	28	15	6.0	M11	O
	Chrome-plating Double Layers	LN03D28H15DCP08	28	15	0.8	M11	P0591-002-00008
		LN03D28H15DCP10	28	15	1.0	M11	P0591-002-00010
		LN03D28H15DCP12	28	15	1.2	M11	P0591-002-00012
		LN03D28H15DCP14	28	15	1.4	M11	P0591-002-00014
		LN03D28H15DCP15	28	15	1.5	M11	P0591-002-00015
		LN03D28H15DCP18	28	15	1.8	M11	P0591-002-00018
		LN03D28H15DCP20	28	15	2.0	M11	P0591-002-00020
		LN03D28H15DCP25	28	15	2.5	M11	P0591-002-00025
		LN03D28H15DCP30	28	15	3.0	M11	P0591-002-00030
		LN03D28H15DCP35	28	15	3.5	M11	P0591-002-00035
		LN03D28H15DCP40	28	15	4.0	M11	P0591-002-00040
		LN03D28H15DCP40	28	15	4.5	M11	O
		LN03D28H15DCP50	28	15	5.0	M11	(P0591-002-00050)
		LN03D28H15DCP60	28	15	6.0	M11	O

4.12 Type B

Model		SKU	Outer Diameter	Height	Caliber	Thread	OEM Pin
			mm	mm	mm		

Type B	 <p>D28 H11 Single Layer</p>	LN03D28H11S08X	28	11	0.8	M11	O
		LN03D28H11S10X	28	11	1	M11	O
		LN03D28H11S12X	28	11	1.2	M11	O
		LN03D28H11S14X	28	11	1.4	M11	O
		LN03D28H11S15X	28	11	1.5	M11	O
		LN03D28H11S18X	28	11	1.8	M11	O
		LN03D28H11S20X	28	11	2	M11	O
		LN03D28H11S25X	28	11	2.5	M11	O
		LN03D28H11S30X	28	11	3	M11	O
		LN03D28H11S35X	28	11	3.5	M11	O
		LN03D28H11S40X	28	11	4	M11	O
		LN03D28H11S50X	28	11	5.0	M11	O
		LN03D28H15S08X	28	15	0.8	M11	P0591-569-00008
Type B	 <p>D28 H15 Single Layer</p>	LN03D28H15S10X	28	15	1	M11	P0591-561-00010
		LN03D28H15S12X	28	15	1.2	M11	P0591-562-00012
		LN03D28H15S14X	28	15	1.4	M11	O
		LN03D28H15S15X	28	15	1.5	M11	P0591-563-00015
		LN03D28H15S18X	28	15	1.8	M11	P0591-564-00018
		LN03D28H15S20X	28	15	2	M11	P0591-565-00020
		LN03D28H15S25X	28	15	2.5	M11	P0591-566-00025
		LN03D28H15S30X	28	15	3	M11	O
		LN03D28H15S35X	28	15	3.5	M11	O
		LN03D28H15S40X	28	15	4	M11	O
		LN03D28H15S50X	28	15	5.0	M11	O
		LN03D28H15S60X	28	15	6.0	M11	O

Model		SKU	Outer Diameter	Height	Caliber	Thread	OEM Pin
			mm	mm	mm		
Type B	 <p>D28 H15 Double Layers</p>	LN03D28H15D08X	28	15	0.8	M11	P0591-002-00008
		LN03D28H15D10X	28	15	1.0	M11	P0591-002-00010
		LN03D28H15D12X	28	15	1.2	M11	P0591-002-00012
		LN03D28H15D14X	28	15	1.4	M11	O
		LN03D28H15D15X	28	15	1.5	M11	P0591-002-00015
		LN03D28H15D18X	28	15	1.8	M11	P0591-002-00018
		LN03D28H15D20X	28	15	2.0	M11	P0591-002-00020
		LN03D28H15D25X	28	15	2.5	M11	P0591-002-00025
		LN03D28H15D30X	28	15	3.0	M11	O
		LN03D28H15D35X	28	15	3.5	M11	O
		LN03D28H15D40X	28	15	4.0	M11	O

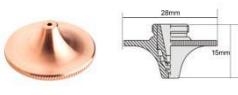
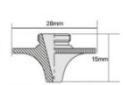
		LN03D28H15D50X	28	15	5.0	M11	O
		LN03D28H15D60X	28	15	6.0	M11	O
D28 H15 Chrome-plating Double Layers 	LN03D28H15DC08X	28	15	0.8	M11	P0591-569-00008	
	LN03D28H15DC10X	28	15	1.0	M11	P0591-569-00010	
	LN03D28H15DC12X	28	15	1.2	M11	P0591-569-00012	
	LN03D28H15DC14X	28	15	1.4	M11	O	
	LN03D28H15DC15X	28	15	1.5	M11	P0591-569-00015	
	LN03D28H15DC18X	28	15	1.8	M11	P0591-569-00018	
	LN03D28H15DC20X	28	15	2.0	M11	P0591-569-00020	
	LN03D28H15DC25X	28	15	2.5	M11	P0591-569-00025	
	LN03D28H15DC30X	28	15	3.0	M11	O	
	LN03D28H15DC35X	28	15	3.5	M11	O	
	LN03D28H15DC40X	28	15	4.0	M11	O	
	LN03D28H15DC50X	28	15	5.0	M11	O	
	LN03D28H15DC60X	28	15	6.0	M11	O	

4.13 Type C

Model		SKU	Outer Diameter	Height	Caliber	Thread	OEM Pin
			mm	mm	mm		
Type C	Single Layer	LN03D28H15S08HDHS	28	15	0.8	M11	O
		LN03D28H15S10HDHS	28	15	1.0	M11	O
		LN03D28H15S12HDHS	28	15	1.2	M11	O
		LN03D28H15S14HDHS	28	15	1.4	M11	O
		LN03D28H15S15HDHS	28	15	1.5	M11	O
		LN03D28H15S18HDHS	28	15	1.8	M11	O
		LN03D28H15S20HDHS	28	15	2.0	M11	O
		LN03D28H15S25HDHS	28	15	2.5	M11	O
		LN03D28H15S30HDHS	28	15	3	M11	O
		LN03D28H15S35HDHS	28	15	3.5	M11	O
		LN03D28H15S40HDHS	28	15	4	M11	O
Type C	Double Layers	LN03D28H15D08HDHS	28	15	0.8	M11	O
		LN03D28H15D10HDHS	28	15	1.0	M11	O
		LN03D28H15D12HDHS	28	15	1.2	M11	O
		LN03D28H15D14HDHS	28	15	1.4	M11	O
		LN03D28H15D15HDHS	28	15	1.5	M11	O
		LN03D28H15D18HDHS	28	15	1.8	M11	O
		LN03D28H15D20HDHS	28	15	2.0	M11	O
		LN03D28H15D25HDHS	28	15	2.5	M11	O
		LN03D28H15D30HDHS	28	15	3	M11	O
		LN03D28H15D35HDHS	28	15	3.5	M11	O
		LN03D28H15D40HDHS	28	15	4.0	M11	O
		LN03D28H15D50HDHS	28	15	5.0	M11	O
		LN03D28H15D60HDHS	28	15	6.0	M11	O



Single Layer



Double Layers

Model		SKU	Outer Diameter	Height	Caliber	Thread	OEM Pin
			mm	mm	mm		
Type C	Chrome-plating Single Layer	LN03D28H15SCP08HS	28	15	0.8	M11	O
		LN03D28H15SCP10HS	28	15	1	M11	O
		LN03D28H15SCP12HS	28	15	1.2	M11	O
		LN03D28H15SCP14HS	28	15	1.4	M11	O
		LN03D28H15SCP15HS	28	15	1.5	M11	O
		LN03D28H15SCP18HS	28	15	1.8	M11	O
		LN03D28H15SCP20HS	28	15	2	M11	O
		LN03D28H15SCP25HS	28	15	2.5	M11	O
		LN03D28H15SCP30HS	28	15	3	M11	O
		LN03D28H15SCP35HS	28	15	3.5	M11	O
		LN03D28H15SCP40HS	28	15	4	M11	O
		LN03D28H15SCP50HS	28	15	5.0	M11	O
		LN03D28H15SCP60HS	28	15	6.0	M11	O
	Chrome-plating Double Layers	LN03D28H15DCP08HS	28	15	0.8	M11	O
		LN03D28H15DCP10HS	28	15	1	M11	O
		LN03D28H15DCP12HS	28	15	1.2	M11	O
		LN03D28H15DCP14HS	28	15	1.4	M11	O
		LN03D28H15DCP15HS	28	15	1.5	M11	O
		LN03D28H15DCP18HS	28	15	1.8	M11	O
		LN03D28H15DCP20HS	28	15	2	M11	O
		LN03D28H15DCP25HS	28	15	2.5	M11	O
		LN03D28H15DCP30HS	28	15	3	M11	O
		LN03D28H15DCP35HS	28	15	3.5	M11	O
		LN03D28H15DCP40HS	28	15	4	M11	O
		LN03D28H15DCP45HS	28	15	4.5	M11	O
		LN03D28H15DCP50HS	28	15	5.0	M11	O
		LN03D28H15DCP60HS	28	15	6.0	M11	O

4.14 Type D

Model		SKU	Outer Diameter	Height	Caliber	Thread
			mm	mm	mm	
Type D	Lengthened Single Layer	LN314DLSC15	28	22.5	1.5	M11
		LN314DLSC20	28	22.5	1.5	M11

4.15 Type E

Model		SKU	Outer Diameter	Height	Caliber	Thread	
Type E (Bodor D28)	Single Layer		mm	mm	mm		
		LN03BSDM1108HD	28	15	0.8	M11	
		LN03BSDM1110HD	28	15	1.0	M11	
		LN03BSDM1112HD	28	15	1.2	M11	
		LN03BSDM1114HD	28	15	1.4	M11	
		LN03BSDM1115HD	28	15	1.5	M11	
		LN03BSDM1118HD	28	15	1.8	M11	
		LN03BSDM1120HD	28	15	2.0	M11	
		LN03BSDM1125HD	28	15	2.5	M11	
		LN03BSDM1130HD	28	15	3.0	M11	
		LN03BSDM1135HD	28	15	3.5	M11	
		LN03BSDM1140HD	28	15	4.0	M11	
Double Layers		LN03BDDM1108HD	28	15	0.8	M11	
		LN03BDDM1110HD	28	15	1.0	M11	
		LN03BDDM1112HD	28	15	1.2	M11	
		LN03BDDM1114HD	28	15	1.4	M11	
		LN03BDDM1115HD	28	15	1.5	M11	
		LN03BDDM1118HD	28	15	1.8	M11	
		LN03BDDM1120HD	28	15	2.0	M11	
		LN03BDDM1125HD	28	15	2.5	M11	
		LN03BDDM1130HD	28	15	3.0	M11	
		LN03BDDM1135HD	28	15	3.5	M11	
		LN03BDDM1140HD	28	15	4.0	M11	

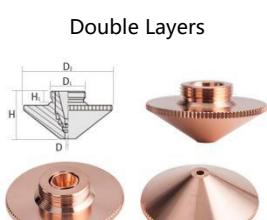
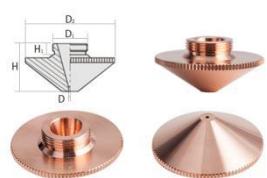
4.16 Type 3D

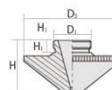
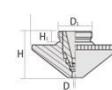
Model		SKU	Outer Diameter	Height	Caliber	Thread
			mm	mm	mm	
3D		LN03SWM9C08	14	15	0.8	M9
		LN03SWM9C10	14	15	1.0	M9
		LN03SWM9C12	14	15	1.2	M9
		LN03SWM9C15	14	15	1.5	M9
		LN03SWM9C20	14	15	2.0	M9

4.2 Raytools

4.21 Type A

Model		SKU	Outer Diameter	Height	Caliber	Thread
			mm	mm	mm	
Type A	Single Layer	LN03D32H15S08HD	32	15	0.8	M14
		LN03D32H15S10HD	32	15	1.0	M14
		LN03D32H15S12HD	32	15	1.2	M14
		LN03D32H15S14HD	32	15	1.4	M14
		LN03D32H15S15HD	32	15	1.5	M14
		LN03D32H15S18HD	32	15	1.8	M14
		LN03D32H15S20HD	32	15	2.0	M14
		LN03D32H15S25HD	32	15	2.5	M14
		LN03D32H15S30HD	32	15	3.0	M14
		LN03D32H15S35HD	32	15	3.5	M14
		LN03D32H15S40HD	32	15	4.0	M14
		LN03D32H15S45HD	32	15	4.5	M14
		LN03D32H15S50HD	32	15	5.0	M14
		LN03D32H15S60HD	32	15	6.0	M14
Type A	Double Layers	LN03D32H15D08	32	15	0.8	M14
		LN03D32H15D10	32	15	1.0	M14
		LN03D32H15D12	32	15	1.2	M14
		LN03D32H15D14	32	15	1.4	M14
		LN03D32H15D15	32	15	1.5	M14
		LN03D32H15D18	32	15	1.8	M14
		LN03D32H15D20	32	15	2.0	M14
		LN03D32H15D25	32	15	2.5	M14
		LN03D32H15D30	32	15	3.0	M14
		LN03D32H15D35	32	15	3.5	M14
		LN03D32H15D40	32	15	4.0	M14
		LN03D32H15D50	32	15	5.0	M14
		LN03D32H15D60	32	15	6.0	M14



Model		SKU	Outer Diameter	Height	Caliber	Thread
Type A	Chrome-plating Single Layer  		mm	mm	mm	
		LN03D32H15DSP08	32	15	0.8	M14
		LN03D32H15DSP10	32	15	1.0	M14
		LN03D32H15DSP12	32	15	1.2	M14
		LN03D32H15DSP14	32	15	1.4	M14
		LN03D32H15DSP15	32	15	1.5	M14
		LN03D32H15DSP18	32	15	1.8	M14
		LN03D32H15DSP20	32	15	2.0	M14
		LN03D32H15DSP25	32	15	2.5	M14
		LN03D32H15DSP30	32	15	3.0	M14
		LN03D32H15DSP35	32	15	3.5	M14
		LN03D32H15DSP40	32	15	4.0	M14
		LN03D32H15DSP45	32	15	5.0	M14
		LN03D32H15DSP50	32	15	6.0	M14
		LN03D32H15DSP60	32	15	0.8	M14
	Chrome-plating Double Layers   	LN03D32H15DCP08	32	15	0.8	M14
		LN03D32H15DCP10	32	15	1.0	M14
		LN03D32H15DCP12	32	15	1.2	M14
		LN03D32H15DCP14	32	15	1.4	M14
		LN03D32H15DCP15	32	15	1.5	M14
		LN03D32H15DCP18	32	15	1.8	M14
		LN03D32H15DCP20	32	15	2.0	M14
		LN03D32H15DCP25	32	15	2.5	M14
		LN03D32H15DCP30	32	15	3.0	M14
		LN03D32H15DCP35	32	15	3.5	M14
		LN03D32H15DCP40	32	15	4.0	M14
		LN03D32H15DCP45	32	15	4.5	M14
		LN03D32H15DCP50	32	15	5.0	M14
		LN03D32H15DCP60	32	15	6.0	M14

4.22 Type B

Model		SKU	Outer Diameter	Height	Caliber	Thread
			mm	mm	mm	
Type B	Single Layer	LN03D32H15D08SJQ	32	15	0.8	M14
		LN03D32H15D10SJQ	32	15	1.0	M14
		LN03D32H15D12SJQ	32	15	1.2	M14
		LN03D32H15D14SJQ	32	15	1.4	M14
		LN03D32H15D15SJQ	32	15	1.5	M14
		LN03D32H15D18SJQ	32	15	1.8	M14
		LN03D32H15D02SJQ	32	15	2.0	M14
		LN03D32H15D25SJQ	32	15	2.5	M14
		LN03D32H15D03SJQ	32	15	3.0	M14
		LN03D32H15D35SJQ	32	15	3.5	M14
		LN03D32H15D04SJQ	32	15	4.0	M14

Model		SKU	Outer Diameter	Height	Caliber	Thread
			mm	mm	mm	
Type B	Chrome-plating Double Layers	LN03D32H15D08DJQ	32	15	0.8	M14
		LN03D32H15D10DJQ	32	15	1.0	M14
		LN03D32H15D12DJQ	32	15	1.2	M14
		LN03D32H15D14DJQ	32	15	1.4	M14
		LN03D32H15D15DJQ	32	15	1.5	M14
		LN03D32H15D18DJQ	32	15	1.8	M14
		LN03D32H15D02DJQ	32	15	2.0	M14
		LN03D32H15D25DJQ	32	15	2.5	M14
		LN03D32H15D03DJQ	32	15	3.0	M14
		LN03D32H15D35DJQ	32	15	3.5	M14
		LN03D32H15D04DJQ	32	15	4.0	M14

4.23 Type C

Model		SKU	Outer Diameter	Height	Caliber
Type C	Single Layer	mm	mm	mm	
		LN03D32H15ST08HD	32	15	0.8
		LN03D32H15ST10HD	32	15	1.0
		LN03D32H15ST12HD	32	15	1.2
		LN03D32H15ST14HD	32	15	1.4
		LN03D32H15ST15HD	32	15	1.5
		LN03D32H15ST18HD	32	15	1.8
		LN03D32H15ST20HD	32	15	2.0
		LN03D32H15ST25HD	32	15	2.5
		LN03D32H15ST30HD	32	15	3.0
		LN03D32H15ST35HD	32	15	3.5
		LN03D32H15ST40HD	32	15	4.0
		LN03D32H15ST50HD	32	15	5.0
Type C	Chrome-plating Single Layer	LN03D32H15SCPT08HD	32	15	0.8
		LN03D32H15SCPT10HD	32	15	1.0
		LN03D32H15SCPT12HD	32	15	1.2
		LN03D32H15SCPT14HD	32	15	1.4
		LN03D32H15SCPT15HD	32	15	1.5
		LN03D32H15SCPT18HD	32	15	1.8
		LN03D32H15SCPT20HD	32	15	2.0
		LN03D32H15SCPT25HD	32	15	2.5
		LN03D32H15SCPT30HD	32	15	3.0
		LN03D32H15SCPT35HD	32	15	3.5
		LN03D32H15SCPT40HD	32	15	4.0
		LN03D32H15SCPT50HD	32	15	5.0
Type C	Chrome-plating Double Layers	LN03D32H15CPT08HD	32	15	0.8
		LN03D32H15CPT10HD	32	15	1.0
		LN03D32H15CPT12HD	32	15	1.2
		LN03D32H15CPT14HD	32	15	1.4
		LN03D32H15CPT15HD	32	15	1.5
		LN03D32H15CPT18HD	32	15	1.8
		LN03D32H15CPT20HD	32	15	2.0
		LN03D32H15CPT25HD	32	15	2.5
		LN03D32H15CPT30HD	32	15	3.0
		LN03D32H15CPT35HD	32	15	3.5
		LN03D32H15CPT40HD	32	15	4.0
		LN03D32H15CPT50HD	32	15	5.0



Single Layer



Chrome-plating Single Layer



Chrome-plating Double Layers

4.24 Type D

Model		SKU	Outer Diameter	Height	Caliber
			mm	mm	mm
Type D	Single Layer	LN03D11H22S08Z	10.7	22.2	0.8
		LN03D11H22S10Z	10.7	22.2	1.0
		LN03D11H22S12Z	10.7	22.2	1.2
		LN03D11H22S14Z	10.7	22.2	1.4
		LN03D11H22S15Z	10.7	22.2	1.5
		LN03D11H22S18Z	10.7	22.2	1.8
		LN03D11H22S20Z	10.7	22.2	2.0
		LN03D11H22S25Z	10.7	22.2	2.5
		LN03D11H22S30Z	10.7	22.2	3.0
		LN03D11H22S35Z	10.7	22.2	3.5
		LN03D11H22S40Z	10.7	22.2	4.0
Type D	Double Layers	LN03D11H22D08Z	10.7	22.2	0.8
		LN03D11H22D10Z	10.7	22.2	1.0
		LN03D11H22D12Z	10.7	22.2	1.2
		LN03D11H22D14Z	10.7	22.2	1.4
		LN03D11H22D15Z	10.7	22.2	1.5
		LN03D11H22D18Z	10.7	22.2	1.8
		LN03D11H22D20Z	10.7	22.2	2.0
		LN03D11H22D25Z	10.7	22.2	2.5
		LN03D11H22D30Z	10.7	22.2	3.0
		LN03D11H22D35Z	10.7	22.2	3.5
Type D	Chrome-plating Single Layer	LN03D11H22SD08Z	10.7	22.2	0.8
		LN03D11H22SD10Z	10.7	22.2	1.0
		LN03D11H22SD12Z	10.7	22.2	1.2
		LN03D11H22SD14Z	10.7	22.2	1.4
		LN03D11H22SD15Z	10.7	22.2	1.5
		LN03D11H22SD18Z	10.7	22.2	1.8
		LN03D11H22SD20Z	10.7	22.2	2.0
		LN03D11H22SD25Z	10.7	22.2	2.5
		LN03D11H22SD30Z	10.7	22.2	3.0
		LN03D11H22SD35Z	10.7	22.2	3.5
		LN03D11H22SD40Z	10.7	22.2	4.0

4.25 Type E

	Model	SKU	Outer Diameter mm	Height mm	Caliber mm	Thread
Type E	E1 Precision Cutting 	LN03PNC05	12	10	0.5	M8
	E2 Precision Cutting 	LN03PNCB08Z	13	10	0.8	M8
		LN03PNCB10Z	13	10	1.0	M8
		LN03PNCB12Z	13	10	1.2	M8
		LN03PNCB14Z	13	10	1.4	M8
		LN03PNCB15Z	13	10	1.5	M8
		LN03PNCB18Z	13	10	1.8	M8
		LN03PNCB20Z	13	10	2.0	M8
		LN03PNCB25Z	13	10	2.5	M8
		LN03PNCB30Z	13	10	3.0	M8

4.26 Type F

Model		SKU	Outer Diameter	Height	Caliber	Thread
Type F (Bodor D32)	Single Layer		mm	mm	mm	
		LN03BDS08HD	32	15	0.8	M14
		LN03BDS10HD	32	15	1.0	M14
		LN03BDS12HD	32	15	1.2	M14
		LN03BDS14HD	32	15	1.4	M14
		LN03BDS15HD	32	15	1.5	M14
		LN03BDS18HD	32	15	1.8	M14
		LN03BDS20HD	32	15	2.0	M14
		LN03BDS25HD	32	15	2.5	M14
		LN03BDS30HD	32	15	3.0	M14
		LN03BDS35HD	32	15	3.5	M14
		LN03BDS40HD	32	15	4.0	M14
		LN03BDS45HD	32	15	4.5	M14
		LN03BDS50HD	32	15	5.0	M14
	Double Layers	LN03BDD08HD	32	15	0.8	M14
		LN03BDD10HD	32	15	1.0	M14
		LN03BDD12HD	32	15	1.2	M14
		LN03BDD14HD	32	15	1.4	M14
		LN03BDD15HD	32	15	1.5	M14
		LN03BDD18HD	32	15	1.8	M14
		LN03BDD20HD	32	15	2.0	M14
		LN03BDD25HD	32	15	2.5	M14
		LN03BDD30HD	32	15	3.0	M14
		LN03BDD35HD	32	15	3.5	M14
		LN03BDD40HD	32	15	4.0	M14
		LN03BDD45HD	32	15	4.5	M14
		LN03BDD50HD	32	15	5.0	M14



4.3 Trumpf

4.31 Type A

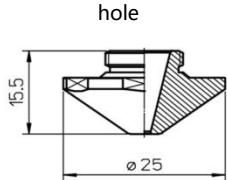
Model	SKU	Outer Diameter	Height	Caliber	Thread
		mm	mm	mm	
Type A Single Layer	LN03M12D08Z	24	10	0.8	M8
	LN03M12D1Z	24	10	1	M8
	LN03M12D12Z	24	10	1.2	M8
	LN03M12D14Z	24	10	1.4	M8
	LN03M12D17Z	24	10	1.7	M8
	LN03M12D23Z	24	10	2.3	M8
	LN03M12D27Z	24	10	2.7	M8
	LN03M12D2Z	24	10	2	M8
	LN03M12D15Z	24	10	1.5	M8
	LN03M12D3Z	24	10	3	M8

4.32 Type B

Model	SKU	Outer Diameter	Height	Caliber	Thread
		mm	mm	mm	
Type B Double Layers	LN03M12DL08Z	24	10	0.8	M8
	LN03M12DL12Z	24	10	1.2	M8
	LN03M12DL14Z	24	10	1.4	M8
	LN03M12DL17Z	24	10	1.7	M8
	LN03M12DL1Z	24	10	1.0	M8
	LN03M12DL23Z	24	10	2.3	M8
	LN03M12DL27Z	24	10	2.7	M8
	LN03M12DL2Z	24	10	2.0	M8

4.33 Type C

Model		SKU	Outer Diameter	Height	Caliber	Thread
			mm	mm	mm	
Type C EAA Single Layer	Single Layer through-hole	LN03MEAA12D08Z	25	15.5	0.8	M12
		LN03MEAA12D12Z	25	15.5	1.2	M12
		LN03MEAA12D14Z	25	15.5	1.4	M12
	Single Layer Oblique	LN03MEAA12D17Z	25	15.5	1.7	M12
		LN03MEAA12D2Z	25	15.5	2.0	M12

	LN03MEAA12D23Z	25	15.5	2.3	M12
	LN03MEAA12D27Z	25	15.5	2.0	M12

4.34 Type D

Model	SKU	Outer Diameter	Height	Caliber	Thread
		mm	mm	mm	
Type D EAU Double Layers 	LN03MEAUC25	20	15	2.5	M10
	LN03MEAUC30	20	15	3.0	M10
	LN03MEAUC40	20	15	4.0	M10
	LN03MEAUC60	20	15	6.0	M10
	LN03MEAUC100	20	15	10.0	M10

4.35 Type E

Model	SKU	Outer Diameter	Height	Caliber	Thread
		mm	mm	mm	
Type E EAK Double Layers 	LN03MEAUKC25	25	15.5	2.5	M12
	LN03MEAUKC30	25	15.5	3.0	M12
	LN03MEAUKC40	25	15.5	4.0	M12

4.36 Type F

Model	SKU	Outer Diameter	Height	Caliber	Thread
		mm	mm	mm	
Type F EAQ Double Layers 	LN03MEAQC62	25	15.5	6.2	M12
	LN03MEAQC75	25	15.5	7.5	M12
	LN03MEAQC95	25	15.5	9.5	M12

4.4 Bystronic

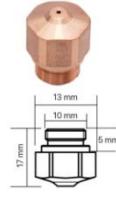
4.41 Type A

Model	SKU	Outer Diameter	Height	Caliber	Thread	OEM Pin
		mm	mm	mm		
Type A K10 Series Single Layer	LN03BYK10C08	13	17	0.80	M10	3-04273
	LN03BYK10C10	13	17	1.00	M10	3-01905
	LN03BYK10C12	13	17	1.25	M10	3-01906
	LN03BYK10C15	13	17	1.50	M10	3-01907
	LN03BYK10C17	13	17	1.75	M10	3-01908
	LN03BYK10C20	13	17	2.00	M10	3-01909
	LN03BYK10C25	13	17	2.50	M10	3-04274
	LN03BYK10C30	13	17	3.00	M10	-



4.42 Type B

Model	SKU	Outer Diameter	Height	Caliber	Thread	OEM Pin
		mm	mm	mm		
Type B HK Series Single Layer	LN03BYHCK08	13	17	0.80	M10	3-04277
	LN03BYHCK10	13	17	1.00	M10	3-01910
	LN03BYHCK12	13	17	1.25	M10	3-01911
	LN03BYHCK15	13	17	1.50	M10	3-01912
	LN03BYHCK17	13	17	1.75	M10	3-01913
	LN03BYHCK20	13	17	2.00	M10	3-01914
	LN03BYHCK25	13	17	2.50	M10	3-03854
	LN03BYHCK30	13	17	3.00	M10	3-06112
	LN03BYHCK35	13	17	3.50	M10	10045748
	LN03BYHCK40	13	17	4.00	M10	-



4.43 Type C

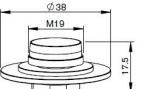
Model		SKU	Outer Diameter	Height	Caliber	Thread	OEM Pin
			mm	mm	mm		
Type C H Series Single Layer		LN03BYH10C08	13	17	0.80	M10	3-04275
		LN03BYH10C10	13	17	1.00	M10	3-01899
		LN03BYH10C12	13	17	1.25	M10	3-01900
		LN03BYH10C15	13	17	1.50	M10	3-01901
		LN03BYH10C17	13	17	1.75	M10	3-01902
		LN03BYH10C20	13	17	2.00	M10	3-01903
		LN03BYH10C25	13	17	2.50	M10	3-04276
		LN03BYH10C30	13	17	3.00	M10	-
Type C H Series Single Layer		LN03BYH10BC08	13	17	0.80	M10	3-04275
		LN03BYH10BC10	13	17	1.00	M10	3-01899
		LN03BYH10BC12	13	17	1.25	M10	3-01900
		LN03BYH10BC15	13	17	1.50	M10	3-01901
		LN03BYH10BC17	13	17	1.75	M10	3-01902
		LN03BYH10BC20	13	17	2.00	M10	3-01903
		LN03BYH10BC25	13	17	2.50	M10	3-04276
		LN03BYH10BC30	13	17	3.00	M10	-

4.44 Type D

Model	SKU	Outer Diameter	Height	Caliber	Thread
		mm	mm	mm	
Type D NK Series Double Layers	LN03BYNKC10	13	17	1.00	M10
	LN03BYNKC12	13	17	1.25	M10
	LN03BYNKC15	13	17	1.26	M10
	LN03BYNKC17	13	17	1.75	M10
	LN03BYNKC20	13	17	2.00	M10
	LN03BYNKC25	13	17	2.50	M10
	LN03BYNKC30	13	17	3.00	M10



4.45 Type E

Model		SKU	Outer Diameter	Height	Thread	PIN
			mm	mm		
Type E Nozzle adapter		LN03BYNB1	38	17.5	M19	10046030
		LN03BYNB2	52	9.5	-	2-08700
		LN03BYNB26	26	30.5	-	10032930
		LN03BYNB28	28	30.5	-	2-08701

4.5 Amada

4.51 Type A

Model	SKU	Outer Diameter	Height	Caliber	Thread
		mm	mm	mm	
Type A Chrome-plating Single Layer (High)	LN03AMSC08	25	20	0.8	M12
	LN03AMSC10	25	20	1.0	M12
	LN03AMSC12	25	20	1.2	M12
	LN03AMSC14	25	20	1.4	M12
	LN03AMSC15	25	20	1.5	M12
	LN03AMSC17	25	20	1.7	M12
	LN03AMSC20	25	20	2.0	M12
	LN03AMSC25	25	20	2.5	M12
	LN03AMSC30	25	20	3.0	M12
	LN03AMSC35	25	20	3.5	M12
	LN03AMSC40	25	20	4.0	M12

4.52 Type B

Model	SKU	Outer Diameter	Height	Caliber	Thread
		mm	mm	mm	
Type B Chrome-plating Double Layers (High)	LN03AMDC12	25	20	1.2	M12
	LN03AMDC14	25	20	1.4	M12
	LN03AMDC17	25	20	1.7	M12
	LN03AMDC20	25	20	2.0	M12
	LN03AMDC25	25	20	2.5	M12
	LN03AMDC30	25	20	3.0	M12
	LN03AMDC40	25	20	4.0	M12
	LN03AMDC50	25	20	5.0	M12

4.53 Type C

Model	SKU	Outer Diameter	Thread	Height	Caliber
		mm	mm	mm	
Type C Chrome-plating Double Layers (short)	LN03AMDAC40		-		4.0
	LN03AMDAC50		-		5.0
	LN03AMDAC60		-		6.0

4.6 DNE

4.61 Type A

Model	SKU	Outer Diameter	Height	Caliber	Thread
		mm	mm	mm	
Type A Cutting Nozzles Chrome-plating	End Connector	LN03DNCQQ90	39.6	17.6	-
		LN03DNCQQ90A	39.6	12.3	-
	Single	LN03DND28H22S14	28	22	1.4
		LN03DND28H22S40	28	22	4
	Double	LN03DND28H22C14	28	22	1.4
		LN03DND28H22C40	28	22	4

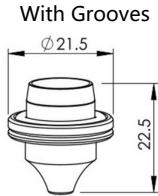
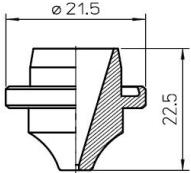
4.62 Type H

Model		SKU	Outer Diameter	Height	Caliber	Thread
Type H	Chrome-plating Single Layer		mm	mm	mm	
		LN03DNHTSP08	15	15	0.8	M12
		LN03DNHTSP10	15	15	1.0	M12
		LN03DNHTSP12	15	15	1.2	M12
		LN03DNHTSP14	15	15	1.4	M12
		LN03DNHTSP15	15	15	1.5	M12
		LN03DNHTSP18	15	15	1.8	M12
		LN03DNHTSP20	15	15	2.0	M12
		LN03DNHTSP25	15	15	2.5	M12
		LN03DNHTSP30	15	15	3.0	M12
	Chrome-plating Double Layers	LN03DNHTSP35	15	15	3.5	M12
		LN03DNHTSP40	15	15	4.0	M12
		LN03DNHTDP08	15	15	0.8	M12
		LN03DNHTDP10	15	15	1.0	M12
		LN03DNHTDP12	15	15	1.2	M12
		LN03DNHTDP14	15	15	1.4	M12
		LN03DNHTDP15	15	15	1.5	M12
		LN03DNHTDP18	15	15	1.8	M12
		LN03DNHTDP20	15	15	2.0	M12
		LN03DNHTDP25	15	15	2.5	M12
		LN03DNHTDP30	15	15	3.0	M12
		LN03DNHTDP35	15	15	3.5	M12
		LN03DNHTDP40	15	15	4.0	M12



4.7 Mitsubishi

4.71 Type A

Model		SKU	Outer Diameter	Height	Caliber
			mm	mm	mm
Type A	 <p>With Grooves</p>	LN03DNCM1	22	22.5	1.0
		LN03DNCM12	22	22.5	1.2
		LN03DNCM14	22	22.5	1.4
		LN03DNCM15	22	22.5	1.5
		LN03DNCM18	22	22.5	1.7
		LN03DNCM20	22	22.5	2.0
		LN03DNCM25	22	22.5	2.5
		LN03DNCM30	22	22.5	3.0
		LN03DNCM35	22	22.5	3.5
		LN03DNWCM1	22	22.5	1.0
	 <p>Without Grooves</p>	LN03DNWCM12	22	22.5	1.2
		LN03DNWCM14	22	22.5	1.4
		LN03DNWCM15	22	22.5	1.5
		LN03DNWCM18	22	22.5	1.7
		LN03DNWCM20	22	22.5	2.0
		LN03DNWCM25	22	22.5	2.5
		LN03DNWCM30	22	22.5	3.0
		LN03DNWCM35	22	22.5	3.5

4.72 Type B

Model		SKU	Outer Diameter	Height	Caliber
			mm	mm	mm
Type B	With Grooves 	LN03DOCM1	22	23	1.0
		LN03DOCM12	22	23	1.2
		LN03DOCM14	22	23	1.4
		LN03DOCM15	22	23	1.5
		LN03DOCM18	22	23	1.7
		LN03DOCM20	22	23	2.0
		LN03DOCM25	22	23	2.5
		LN03DOCM30	22	23	3.0
		LN03DOCM35	22	23	3.5
		LN03DOWCM1	22	23	1.0
	Without Grooves 	LN03DOWCM12	22	23	1.2
		LN03DOWCM14	22	23	1.4
		LN03DOWCM15	22	23	1.5
		LN03DOWCM18	22	23	1.7
		LN03DOWCM20	22	23	2.0
		LN03DOWCM25	22	23	2.5
		LN03DOWCM30	22	23	3.0
		LN03DOWCM35	22	23	3.5

4.73 Type C

Model		SKU	Outer Diameter	Height	Caliber
			mm	mm	mm
Type C	Pressure	LN03MIPD10	-	-	1.0
		LN03MIPD12	-	-	1.2
		LN03MIPD14	-	-	1.4
		LN03MIPD15	-	-	1.5
		LN03MIPD17	-	-	1.7
		LN03MIPD20	-	-	2.0
		LN03MIPD25	-	-	2.5
		LN03MIPD30	-	-	3.0
		LN03MIPD35	-	-	3.5
		LN03MIPD40	-	-	4.0
		LN03MIPD50	-	-	5.0

4.8 Prima

4.81 Type A

Model		SKU	Outer Diameter	Height	Caliber	Thread
			mm	mm	mm	
Type A	Chrome-plating Double Layers	LN03PRYD10	28	20	1	M12
		LN03PRYD12	28	20	1.2	M12
		LN03PRYD14	28	20	1.4	M12
		LN03PRYD15	28	20	1.5	M12
		LN03PRYD18	28	20	1.8	M12
		LN03PRYD20	28	20	2	M12
		LN03PRYD25	28	20	2.5	M12
		LN03PRYD30	28	20	3	M12
	Chrome-plating Single Layer	LN03PRYD10	28	20	1	M12
		LN03PRYD12	28	20	1.2	M12
		LN03PRYD14	28	20	1.4	M12
		LN03PRYD15	28	20	1.5	M12
		LN03PRYD18	28	20	1.8	M12
		LN03PRYD20	28	20	2	M12
		LN03PRYD25	28	20	2.5	M12
		LN03PRYD30	28	20	3	M12



4.82 Type B

Model		SKU	Outer Diameter	Height	Caliber	Thread
			mm	mm	mm	
Type B	Chrome-plating Double Layers	LN03PRSYD10	24	20	1	M12
		LN03PRSYD12	24	20	1.2	M12
		LN03PRSYD14	24	20	1.4	M12
		LN03PRSYD15	24	20	1.5	M12
		LN03PRSYD18	24	20	1.8	M12
		LN03PRSYD20	24	20	2	M12
		LN03PRSYD25	24	20	2.5	M12
		LN03PRSYD30	24	20	3	M12
	Single Layer Cylindrical	LN03PRYDY10	24	20	1	M12
		LN03PRYDY12	24	20	1.2	M12
		LN03PRYDY14	24	20	1.4	M12
		LN03PRYDY15	24	20	1.5	M12
		LN03PRYDY18	24	20	1.8	M12
		LN03PRYDY20	24	20	2	M12
		LN03PRYDY25	24	20	2.5	M12
		LN03PRYDY30	24	20	3	M12
	Single Layer Round Head	LN03PRYDT10	24	20	1	M12
		LN03PRYDT12	24	20	1.2	M12
		LN03PRYDT14	24	20	1.4	M12
		LN03PRYDT15	24	20	1.5	M12
		LN03PRYDT18	24	20	1.8	M12
		LN03PRYDT20	24	20	2	M12
		LN03PRYDT25	24	20	2.5	M12
		LN03PRYDT30	24	20	3	M12

4.9 Others

4.91 WSX Nozzle

Model	SKU	Outer Diameter	Height	Caliber	Thread
		mm	mm	mm	
WSX Double Layers	LN03WSXM12S08	25	16	0.8	M12
	LN03WSXM12S10	25	16	1.0	M12
	LN03WSXM12S12	25	16	1.2	M12
	LN03WSXM12S14	25	16	1.4	M12
	LN03WSXM12S15	25	16	1.5	M12
	LN03WSXM12S18	25	16	1.8	M12
	LN03WSXM12S20	25	16	2.0	M12

Model	SKU	Outer Diameter	Height	Caliber	Thread
		mm	mm	mm	
WSX Single Layer	LN03WSXNSC08	28	15	0.8	M11
	LN03WSXNSC10	28	15	1.0	M11
	LN03WSXNSC12	28	15	1.2	M11
	LN03WSXNSC14	28	15	1.4	M11
	LN03WSXNSC15	28	15	1.5	M11
	LN03WSXNSC18	28	15	1.8	M11
	LN03WSXNSC20	28	15	2.0	M11
	LN03WSXNSC25	28	15	2.5	M11
	LN03WSXNSC30	28	15	3.0	M11
WSX Double Layers	LN03WSXNDC08	28	15	0.8	M11
	LN03WSXNDC10	28	15	1.0	M11
	LN03WSXNDC12	28	15	1.2	M11
	LN03WSXNDC14	28	15	1.4	M11
	LN03WSXNDC15	28	15	1.5	M11
	LN03WSXNDC18	28	15	1.8	M11
	LN03WSXNDC20	28	15	2.0	M11
	LN03WSXNDC25	28	15	2.5	M11
	LN03WSXNDC30	28	15	3.0	M11

4.92 3D Nozzle

Model		SKU	Outer Diameter	Height	Caliber (mm)	Thread
Chrome-plating M8 Double Layers	LN03M8S08	-	-	0.8	M8	
	LN03M8S10	-	-	1.0	M8	
	LN03M8S12	-	-	1.2	M8	
	LN03M8S14	-	-	1.4	M8	
	LN03M8S15	-	-	1.5	M8	
	LN03M8S18	-	-	1.8	M8	
	LN03M8S20	-	-	2.0	M8	
	LN03M8S25	-	-	2.5	M8	
	LN03M8S30	-	-	3.0	M8	
	LN03M8S08	-	-	0.8	M8	
Type D Single Layer	LN03M8S10	-	-	1.0	M8	
	LN03M8S12	-	-	1.2	M8	
	LN03M8S14	-	-	1.4	M8	
	LN03M8S15	-	-	1.5	M8	
	LN03M8S18	-	-	1.8	M8	
M6	LN03SWM6C10	11.5	15.5	1	M6	
	LN03SWM6C12	11.5	15.5	1.2	M6	
	LN03SWM6C15	11.5	15.5	1.5	M6	
	LN03SWM6C18	11.5	15.5	1.8	M6	
	LN03SWM6C20	11.5	15.5	2.0	M6	
Precitec M9	LN03SWM6C10B	-	-	1.0	M6	
	LN03SWM6C12B	-	-	1.2	M6	
	LN03SWM6C15B	-	-	1.5	M6	
	LN03SWM6C18B	-	-	1.8	M6	
	LN03SWM6C20B	-	-	2.0	M6	
Mazak M5	LN03SWM9C08	-	-	0.8	M9	
	LN03SWM9C10	-	-	1.0	M9	
	LN03SWM9C12	-	-	1.2	M9	
	LN03SWM9C15	-	-	1.5	M9	
	LN03SWM9C20	-	-	2.0	M9	
	LN03SWM5C10	-	-	1.0	M5	
	LN03SWM5C12	-	-	1.2	M5	
	LN03SWM5C15	-	-	1.5	M5	
	LN03SWM5C18	-	-	1.8	M5	
	LN03SWM5C20	-	-	2.0	M5	

4.93 Penta Nozzle

Model		SKU	Outer Diameter	Height	Caliber	Thread
			mm	mm	mm	
Penta B (High-Power)	Single Layer	LN03PTHDS35	28	15	3.5	M11
		LN03PTHDS40	28	15	4.0	M11
		LN03PTHDS45	28	15	4.5	M11
		LN03PTHDS50	28	15	5.0	M11
		LN03PTHDS60	28	15	6.0	M11
Penta A (Sonic)	Chrome-plating Double Layers	LN03PTSDC12	28	15	1.2	M11
		LN03PTSDC14	28	15	1.4	M11
		LN03PTSDC16	28	15	1.6	M11



Single Layer



Chrome-plating Double Layers

4.94 DAZU Nozzle

Model		SKU	Caliber	Height	Outer Diameter	Thread
			mm	mm	mm	
DZ	KS Type A Flat Head Single Layer	LN03DZP10	1.0	-	-	-
		LN03DZP12	1.2	-	-	-
		LN03DZP14	1.4	-	-	-
		LN03DZP15	1.5	-	-	-
		LN03DZP18	1.8	-	-	-
		LN03DZP20	2.0	-	-	-
		LN03DZP25	2.5	-	-	-
		LN03DZP30	3.0	-	-	-
DZ	KS Type B Pointed Single Layer	LN03DZJ10	1.0	-	-	-
		LN03DZJ12	1.2	-	-	-
		LN03DZJ14	1.4	-	-	-
		LN03DZJ15	1.5	-	-	-
		LN03DZJ18	1.8	-	-	-
		LN03DZJ20	2.0	-	-	-
		LN03DZJ25	2.5	-	-	-
		LN03DZJ30	3.0	-	-	-
		LN03DZJ10	1.0	-	-	-
SP	Single Layer for Hans Laser 	LN03DZSPS16	1.6	15	28	M11
		LN03DZSPS18	1.8	15	28	M11

4.95 Custom Nozzle

Model	SKU	model	Caliber
HK			mm
	LN610HKMX0329	S3 NP	1.0
	LN610HKMX0330	S3 NP	1.2
	LN610HKMX0331	S3 NP	1.5
	LN610HKMX0332	S3 NP	1.7
	LN610HKMX0333	S3 NP	2.0
	LN610HKMX0334	S3 NP	2.5
	LN610HKMX0335	S3 NP	3.0
	LN610HKMX0860	S3 NP	1.0
	LN610HKMX0861	S3 NP	1.2
	LN610HKMX0862	S3 NP	1.5
	LN610HKMX0863	S3 NP	1.8
	LN610HKMX0864	S3 NP	2.0
	LN610HKMX0865	S3 NP	2.5
	LN610HKMX0866	S3 NP	3.0
	LN610HKPHH03019	S3 TP	1.5
	LN610HKPHH03021	S3 TP	1.8
	LN610HKPHH03014	S3 TP	2.0
	LN610HKPHH03017	S3 TP	2.5
	LN610HKPHH03023	S3 TP	3.0
S5	LN610HKCHTP1515	S5 TP	1.5
	LN610HKCHTP1518	S5 TP	1.8
	LN610HKCHTP1520	S5 TP	2.0
	LN610HKCHTP1525	S5 TP	2.5
	LN610HKCHTP2030	S5 TP	3.0
	LN610HKMX0989	S5 NP	1.0
	LN610HKMX0990	S5 NP	1.2
	LN610HKMX0991	S5 NP	1.5
	LN610HKMX0992	S5 NP	1.8
	LN610HKMX0993	S5 NP	2.0
	LN610HKMX0994	S5 NP	2.5
	LN610HKMX0995	S5 NP	3.0
	LN610HKMX1087	S5 NP	4.0
	LN610HKMX1088	S5 NP	5.0

5.5. Ceramic Parts

5.1 Precitec

	Model	SKU	Height	Thread	OEM Pin
			mm		
	3D	LC03WSX00	10	M5	O
	OEM Precitec Ceramic	LC03D28PT1051	11.7	M11	P0571-1051-00001
	OEM Precitec Ceramic 5Pcs	LC03D28PT1051Q5P	11.7	M11	P0571-1051-00001
	OEM Precitec Ceramic (260 old)	LC03D28PT260	11.7	M11	P0571-260-00001
	OEM Precitec Ceramic (Gold)	LC03D28PT1051G	11.7	M11	P0571-1051-00001

5.2 Raytools

	Model	SKU	Height	Diameter	Thread	OEM Pin
	OEM Raytools Laser Ceramic (D32mm)	LC03D32R01	11.7mm	32mm	M14	O
	OEM Raytools Laser Ceramic (D32mm) 5Pcs	LC03D32R015	11.7mm	32mm	M14	O

	Original Made	LC03D32R010	12mm	32mm	M14	O
	BT240S RC Series	LC03D19BT240 3D	12.5	19.5	M8	O

5.3 Bystronic

	SKU	Height	Outer Diameter	Inner Diameter	OEM Pin
	LC03B9010	6.5	28	22	4-09010
	LC03B10032838	11.5	26	21	10032838
	LC03B1642	4	26	17.5	4-01642/4-00569
	LC03B1959	10.9	26/22	21/17	4-01959

5.4 Trumpf

	SKU	Height	Thread	OEM Pin
		mm		
	LC03TK01	17.5	5.3mm	936678-913966

Type B 	LC03TK02	32	7.3mm	254493-260432
Type C 	LC03TK03	33.5	M11	(1755673)
Type D 	LC03TK04	33.5	M12	O

5.5 Other

5.5.1 IPG

	SKU	Height mm	Thread	OEM Pin
	LC039OIPGC1	10.5	M11	O

5.4.2 HIGHYAG

	SKU	diameter mm	Thread	OEM Pin
	LC03PT01A	35	M11	O
	LC03PT02B	24.5	M11-M15	O

Type C 	LC03PT03C	35	26mm	O
---	-----------	----	------	---

5.4.2 WSX

Model	SKU	Height	Thread	OEM Pin
WSX Mini	LC03WSX00	-	-	-
WSX 01	LC03WSX01	-	-	-
WSX 02	LC03WSX02	-	-	-
WSX 03 WTC-01A	LC03WSX03	-	-	-

6. Anti-collision connector

6.1 Bystronic

	SKU	Height	Diameter	Thread	OEM Pin
	LC04BM10M15	24 mm	- mm	M10-M15	10064099

6.2 Precitec

	SKU	Height	Thread	OEM Pin
	LC314PREM11	19 mm	M11-M11	O

6.3 Others

6.3.1 HIGHYAG

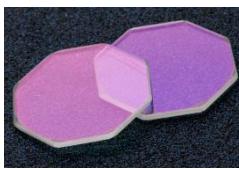
	SKU	Height	Thread	OEM Pin
		mm		
	LC395HIM15	23.5	M11-M15	O

7.7 Fiber Lens

7.1 Protective Windows

	SKU	Diameter	Edge Thickness	Material
		mm	mm	
Protective Windows 	PW02FS20X2	20	2	Fused Silica JGS1
	PW02FS20X3	20	3	
	PW02FS20X5	20	5	
	PW02FS2235X4	22.35	4	
	PW02FS25X2	25	2	
	PW02FS25X3	25	3	
	PW02FS254X3	25.4	3	
	PW02FS254X4	25.4	4	
	PW02FS254X5	25.4	5	
	PW02FS265X5	26.5	5	
	PW02FS27X4	27	4	
	PW02FS28X4	28	4.0	
	PW02FS30X15	30	1.5	
	PW02FS30X2	30	2	
	PW02FS30X3	30	3	
	PW02FS30X5	30	5	
	PW02FS32X4	32	4	
	PW02FS34X3	34	3	
	PW02FS34X5	34	5	
	PW02FS35X15	35	2	
	PW02FS35X4	35	4	
	PW02FS35X5	35	5	

	PW02FS36X5	36	5	
	PW02FS37X7	37	7	
	PW02FS38X15	38	2	
	PW02FS38X2	38	2	
	PW02FS38X6	38.1	6	

	SKU	Diameter	Edge Thickness	Material
Protective Windows 	PW02FS38X10	mm 38	mm 10	Fused Silica JGS1
	PW02FS40X3	40	3	
	PW02FS42X3	42	3	
	PW02FS42X9	42	9	
	PW02FS48X3	48	3	
	PW02FS50X2	50	2	
	PW02FS55X15	55	1.5	
	PW02FS60X3	60	3	
	PW02FS76X3	76	3	
	PW02FS80X17	80	1.7	
Octagonal protective lens 	PW02FSLGE33	35	1.7	

7.2 Foucusing Lens and Collimating Lens

Model	SKU	Diameter	Focal Length	Shape	Material
1PCS 		mm	mm	Plane-Convex	High Purity Fused Silica
	FCFL02S254X100	25.4	100		
	FCFL02S254X125	25.4	125		
	FCFL02S254X150	25.4	150		
	FCFL02S28X75	28	75		
	FCFL02S28X100	28	100		
	FCFL02S28X125	28	125		
	FCFL02S28X150	28	150		
	FCFL02S38X100	38.1	100		
	FCFL02S38X125	38.1	125		
	FCFL02S38X150	38.1	150		
	FCFL02S38X200	38.1	200		
	FCFL02S38X300A	38.1	300		
	FCFL02S38X300B	38.1	300		
	FCFL02S42X80	42	80	Plane-Convex	K9
	FCFL02S42X100	42	100		High Purity Fused Silica
	FCFL02S42X120	42	120		

	FCFL02S42X150	42	150		
	FCFL02S50X80	50	80		
	FCFL02S50X120	50	120		
	FCFL02S50X150	50	150		

Model	SKU	Diameter	Focal Length	Shape	Material
2PCS 	FCFL02D28X75P	28	75	1st:Double-Convex 2nd:Meniscus	High Purity Fused Silica
	FCFL02D28X125P	28	125		
	FCFL02D30X75P	30	75		
	FCFL02D30X100P	30	100		
	FCFL02D30X125P	30	125		
	FCFL02D30X150P	30	150		
	FCFL02D37X75P	37	75		
	FCFL02D37X100P	37	100		
	FCFL02D37X125P	37	125		
	FCFL02D37X150P	37	150		
	FCFL02D37X200P	37	200		

	Model	SKU	Diameter	Focal Length	Applied Power	Material
	Raytools		mm	mm	W	High Purity Fused Silica
	BT210/S Collimating Lens (Lens Tube)	FCFL02D28F100	28	100	0-3000	
	BT210/S Focusing Lens (Lens Tube)	FCFL02D28F125	28	125	0-3000	
	BT240/S Collimating Lens (Lens Tube)	FCFL02D30F100B	30	100	0-3000	
	BT240/S Focusing Lens (Lens Tube)	FCFL02D30F125B	30	125	0-3000	
	BM109 Collimating Lens (Lens Tube)	FCFL02BM9D28F100	28	100	0-1500	

	BM109 Focusing Lens (Lens Tube)	FCFL02BM9D28F125	28	125	0-1500	
	BM111 Collimating Lens (Lens Tube)	FCFL02BM1D30F100	30	100	0-3000	
	BM111 Focusing Lens (Lens Tube)	FCFL02BM1D30F125	30	125	0-3000	
		FCFL02BM1D30F200A	30	200	0-3000	
	BM111 Focusing Lens (Original Lens)	FCFL02BM1D30F155	30	155	0-3000	
		FCFL02BM1D30F200B	30	200	0-3000	
	BM114 Focusing Lens (Without lens barrel)	FCFL02BM4D37F155B	37	155	0-6000	
	BM114 Focusing Lens (With lens barrel)	FCFL02BM4D37F155	37	155	0-6000	
		FCFL02BM4D38F200	38.1	200	0-6000	
	BM114 Collimating Lens (Without lens barrel)	FCFL02BM4D37F100B	37	100	0-6000	
	BM114 Collimating Lens (With lens barrel)	FCFL02BM4D37F100	37	100	0-6000	

	Model	SKU	Diameter	Focal Length	Applied Power	Material
	WSX		mm	mm	W	High Purity Fused Silica
	Collimating Lens (Lens Tube)	FCFL02D30F100D	30	100	0-400	
	Focusing Lens (Lens T ube)	FCFL02D30F125D	30	125	0-150	

Model	Model	SKU	Diameter	Focal Length	Applied Power	Material
	Precitec		mm	mm	W	
	Collimator Lens	FCFL02D37F100P D	37	100	0-8000	High Purity Fused Silica
		FCFL02D37F100P B	37	100	8000-10000	
		FCFL02D37F100P C	37	100	12000-15000	
	Focusing Lens	FCFL02D37F150P D	37	150	0-8000	High Purity Fused Silica
		FCFL02D37F200P	37	200	8000-10000	
		FCFL02D37F200P B	37	200	12000-15000	
	Collimator Lens	FCFL02D30F100P	30	100	0-4000	
	Focusing Lens	FCFL02D30F125P	30	125	0-4000	

7.3 Fiber Laser Safety Goggles

Style	SKU	Typical Wavelength
Style A 	SG13FBM2	1064nm
Style B 	SG13FBM3	1064nm
Style C 	SG13FBM4	1064nm

Style D 	SG13FBM5	1064nm
--	----------	--------

7.4 Protective Windows Washer

	SKU	Size(mm)(Outer×Inter)	Diameter		Application
			Outer	Inner	
	PWW322X24	Φ32.2×24	32	24	For Raytools 27.9*4.1
	PWW294X20	Φ29.4×20	29.4	20	For Raytools 24.9*1.5
	PWW415X34	Φ41.5×34	41.5	34	For Raytools 37*7
	PWW266X18	Φ26.6×18	26.6	18	For WSX 22.35*4.1
	PWW256X19	Φ25.6×19	25.6	19	For WSX 25.4*4
	PWW298X23	Φ29.8×23	29.8	23	For WSX 30*5
	PWW375X29	Φ37.5×29	37.5	29	For WSX 37*7
	PWW032X25	Φ40.3×33	40.3	33	For Precitec 37*7
	PWW403X33	Φ31.5×24	31.5	24	For OSPRI/Precitec 30*5
	PWW315X24	Φ32×25	32	25	For ACEMIT 29.7*4.7
	PWW545X447	Φ54.5×44.7	54.5	44.7	For Precitec D37 Focusing Holder
	PWW556X485	Φ55.6×48.5	55.6	48.5	

7.5 Lens Cleaning Wipe

	SKU	Packing	Cleaning Wipe
		mm	mm
	CP04A10X10	60×80	90×100

7.6 Cotton Swab

	SKU	Size	Length
	CS04M100	M	100mm
	CS04L100	L	160mm

	CS04XL100	XL	125mm
--	-----------	----	-------

8. Laser Cutting Head Parts

8.1 QBH Interface

	SKU	Brand	Name
	LH04RBT240QBH	Raytools	QBH Interface

8.2 Nozzle Connector

8.21 Raytools Nozzle Connector

Name		SKU	Brand	Model
Raytools Nozzle Connector		LH04RBT210A1	Raytools	For BT210
		LH04RBT210S	Raytools	For BT210S
		LH04RBT240A1	Raytools	For BT240
		LH04RBT240SA1	Raytools	For BT240S
		LH04BM109A1	Raytools	For BM109
		LH04BM111TRA	Raytools	For BM111TRA
		LH04BM114TRA	Raytools	For BM114/114S
Locking Ring		LH04RBT240A2	Raytools	For BT240

8.22 Precitec Nozzle Connector

Name		SKU	Brand	Model
Precitec Nozzle Connector		LH04PPTERF150	Precitec	ProCutter F150 (0-6kW)
		LH04PPTERF200	Precitec	ProCutter F200 (0-6kW)
		LH04PPTERF200B	Precitec	ProCutter F200 (0-12kW)
		LH04PPTERF200C	Precitec	ProCutter F200 (0-15kW)
		LH26WCCP200	Precitec	ProCutter F200 Water Cooling
		LH04LRP001	Precitec	For Precitec Laser Head

8.23 WSX Nozzle Connector

Name		SKU	Brand	Model
WSX Nozzle Connector		LH04WSX1	WSX	For WSX Nozzle Connector

8.24 Lasermech Nozzle Connector

Name		SKU	Brand	Model
Lasermech Nozzle Connector		LH04LMA1	Lasermech	For Lasermech Nozzle Connector

8.3 Lens Insertion Tool

	Brand	SKU	Model	For laser head
	Raytools	LH026LITBT210	D28	For Raytools BT210
		LH026LITBT240	D30	For Raytools BT240, BT240S, BM111

		LH026LITBM114S	D37	For Raytools BM114S
	WSX	LH026LITWSXF	D30	For WSX Focusing Lens
		LH026LITWSXC	D30	For WSX Collimating Lens
			D37	For WSX Head

8.3 Cable Sensor

	SKU	Model	Length
	CS04A1C20	SMA-KFD-1	2+0mm
	CS04A2C235	SMA-KFD-2	2+0mm
	CS04A3C33	SMA-KFD-3	3+3mm
	CS04A4C315	SMA-KFD-4	3+15mm
	CS04A2C265	SMA-KFD-5	2.6+5mm
	CS04DWL180	A	180mm
	CS04AWL185	B	185mm
	CS04BWL265	C	265mm
	CS04CWL280	D	280mm

9.9.Industrial Chillers

9.1 Fiber Laser Chillers

	SKU	Model	Voltage	Frequency
	IC13CWFL500AN	CWFL-500AN	AC 1P 220V	50Hz
	IC13CWFL500BN	CWFL-500BN	AC 1P 220V	60Hz
	IC13CWFL500DN	CWFL-500DN	AC 1P 110V	60Hz
	IC13CWFL800AN	CWFL-800AN	AC 1P 220V	50Hz
	IC13CWFL800BN	CWFL-800BN	AC 1P 220V	60Hz
	IC13CWFL1000AN	CWFL-1000AN	AC 1P 220V	50Hz
	IC13CWFL1000BN	CWFL-1000BN	AC 1P 220V	60Hz
	IC13CWFL1500AN	CWFL-1500AN	AC 1P 220V	50Hz
	IC13CWFL1500BN	CWFL-1500BN	AC 1P 220V	60Hz
	IC13CWFL2000EN	CWFL-2000EN	AC 3P 380V	50Hz
	IC13CWFL2000AN	CWFL-2000AN	AC 1P 220V	50Hz
	IC13CWFL2000BN	CWFL-2000BN	AC 1P 220V	60Hz
	IC13CWFL3000ET	CWFL-3000ET	AC 3P 380V	50Hz
	IC13CWFL3000BT	CWFL-3000BT	AC 1P 220V	60Hz
	IC13CWFL4000ET	CWFL-4000ET	AC 3P 380V	50Hz
	IC13CWFL4000FT	CWFL-4000FT	AC 3P 380V	60Hz
	IC13CWFL6000ET	CWFL-6000ET	AC 3P 380V	50Hz
	IC13CWFL8000ET	CWFL-8000ET	AC 3P 380V	50Hz

9.2 Filter Water Purifier

	SKU	Model	Height
	FC272TA5	Filter Cartridge Type A	5 inch
	FC272TA10	Filter Cartridge Type A	10 inch
	FC272TB5	Filter Cartridge Type B	5 inch
	FC272TB10	Filter Cartridge Type B	10 inch
	FC272YC5	Filter Cartridge Yellow Case	5 inch
	FC272BC10	Filter Cartridge Blue Case	10 inch

10. Electro-Pneumatic Regulator

	SKU	Model	Specifications
	LC29SMCITV2050312L	ITV2050-312L	19×16×9mm
	LC29SMCITV1050312L	ITV1050-312L	/

11. Industrial Computer

	SKU	Model	Control System	Specifications
	FC210I5N4	IPC-610-L	I5-2400/4G/500G/2x Network Port/6x Serial Port/1x PCI	482×480×177mm
	FC210I5N8	IPC-610-L	I5-2400/8G/500G/2x Network Port/6x Serial Port/1x PCI	482×480×177mm
	FC210I7N4	IPC-610-L	I7-2600/4G/500G/2x Network Port/6x Serial Port/1x PCI	482×480×177mm
	FC210I7N8	IPC-610-L	I7-2600/8G/500G/2x Network Port/6x Serial Port/1x PCI	482×480×177mm

12. Servo & Motor

12.1 Yaskawa

12.1.1 7J Series

	SKU	Model	Power	Application
	SM10SGM7J400W	SGM7J-04AFC6E+SGD7 S-2R8A00A002	400W	Z axis
	SM10SGM7J750W	SGM7J-08AFC6ESGD7S -5R5A00A002	750W	Z axis

12.12 7G Series

	SKU	Model	Power	Application
	SM10SGM7G850W	SGM7G-09AFC61 + SGD7S-7R6A00A002	850W	XY axis
	SM10SGM7G850WB	SGM7J-08AFC6ESGD7S -5R5A00A002	850W	XY axis (With Break)
	SM10SGM7G13KW	SGM7G-13AFC61 + SGD7S-120A00A002	1.3kW	XY axis
	SM10SGM7G18KW	SGM7G-20AFC61 + SGD7S-180A00A002	1.8kW	XY axis

13. Reducer

13.1 Nidec-Shimpo Reducer

	SKU	Model	Ratio
	LC28VRT090C5	VRT-090C-5	5

LC28VRT090C7A	VRT-090C-7-F3-19HB19	7
LC28VRT090C7B	VRT-090C-7-F3-28HB22	7
LC28VRT090C7C	VRT-090C-7-F3-28HB24	7