



Spindle Specifications			
SPEED	12000	24000	r/min
POWER	12	12	kW
Voltage	261	380	V
current	32.5	26.5	A
frequency	400	800	Hz
torque	9.6	4.8	Nm
Voltage constant	19.2		Vrpm/krpm
motor type	synchronous motor		
lubricant	Grease	Front seal	Air seal, 1-1.5bar
Tool interface	BT30 MAS403, Pull force 3500N		
ATC	air cylinder, 5bar		
encoder	optional, Z=128, m=0.4, 1Vpp output		
spindle coolant	Water, 5L/min@25°C		

Power Connector				ATC&Temperature Connector			
1	phase U	A	---	1	bearing PT100	7	10-30VDC
2	phase V	B	---	2	bearing PT100	8	Clamp without tool
3	phase W	C	---	3	---	9	0V
	GND	D	---	4	10-30VDC	10	10-30VDC
				5	Unclamp tool	11	Clamp tool
				6	0V	12	0V

Label discription			
No.	function	interface	description
1	Front seal	G1/8	quick connection, hose Ø6X4, for bearing
2	unclamping tool	G1/8	Air pressure: 0.5MPa
3	clamping tool	G1/8	Air pressure: 0.5MPa
4	coolant outlet	G1/8	quick connection, hose Ø8X6, for motor cooling
5	coolant inlet	G1/8	quick connection, hose Ø8X6, for motor cooling
6	air inlet	G1/8	Cone cleaning, 5bar
7	ATC&Temperature	M23	17 pin connection, PNP type Proximity switch with 3 wire, 3 position, including motor temperature and front bearing temperature.
8	Power connector	M23	8PIN

未注尺寸公差	00	主轴外形图		1				
注: 孔取(+), 轴取(-)	件号	名称	数量	材料	硬度	备注		
尺寸/mm								
大于	至	公差						
-	6	±0.05	<div style="display: flex; justify-content: space-between; align-items: center;"> LYJSD 120XDJ24G12 </div>					
6	30	±0.10						
30	120	±0.15						
120	250	±0.25						
250	500	±0.35						
500	1000	±0.45						
1000	1600	±0.55	设计		比例		质量(kg)	
1600	2000	±0.65	校对		1:3		27	
更改号		签字	日期	审核				
		批	准					