

# ZDMT2518

## INDUSTRIAL ROBOT

Robot model		ZDMT2518
Freedom		4
Position		Ground installation
Maximum operating speed	J1 Axis	145° /sec
	J2 Axis	115° /sec
	J3 Axis	144° /sec
	J4 Axis	380° /sec
	J5 Axis	/
	J6 Axis	/
Maximum operating range	J1 Axis	± 180°
	J2 Axis	-90° ~+46°
	J3 Axis	-78° ~+90°
	J4 Axis	± 360°
	J5 Axis	/
	J6 Axis	/
Maximum activity radius		1910mm
Maximum end load		25KG
Body weight		About 191kg
Allowable torque	J4	32N · m
	J5	/
	J6	/
Allowable moment of inertia	J4	1.20kg·m <sup>2</sup>
	J5	/
	J6	/
Repeatability		± 0.08mm
Robot base size		300x420mm
Ambient temperature		0~45°C
Relative humidity		20~80%RH
Atmospheric pressure		89KPa~106KPa(Altitude below 1000m)
Vibration, impact, collision		≤0.5G
Protection grade		IP54

● Reducer parameters

Model	100C	250BX	42D	120BX
Reducer reduction ratio	36.75	111	105	79
Comprehensive reduction ratio	102.9	111	104	79
Rated output speed(r/min)	15	15	15	30
Rated torque(N · m)	980	1078	412	58
Permissible torque for starting and stopping(N · m)	2450	2695	1029	117
Instantaneous maximum torque(N · m)	4900	5390	2058	294
Moment rigidity(N · m)	2450	2940	1660	196
Instantaneous maximum torque(N · m)	4900	5880	3320	392

● Motor parameters

Joint	J1	J2	J3	J4
Motor model	130	180	130	60
Rated power(kW)	2	3	1.5	0.4
Rated voltage(V)	220			
Rated current(A)	10	18	7	2.6
Rated torque(N · m)	6.36	14.3	4.77	1.27
Rated speed(r/min)	3000	2000	3000	3000
Maximum speed(r/min)	3000	2200	3100	4500
Rotor inertia(*10e-4kgm <sup>2</sup> )	16.5	51	9	0.4
Line back electromotive force coefficient(V/Krpm)	50.5	52.8	48	33
Number of pole pairs	5			
Encoder	17 bit multi turn insulation value Tamagawa agreement			