DEZAW Technical Information

- 1. DEZAW is the registered trademark. Please avoid buying the counterfeit goods that are from unknown sources to protect your rights.
- 2. Actual products may be different from the specifications and photos in this catalog and the differences in appearances or specifications may be caused by, among other things, product improvements.
- 3. DEZAW will not sell or export those techniques and products restricted under the "Foreign Trade Act" and relevant regulations. Any export of restricted products should be approved by competent authorities in accordance with relevant laws, and shall not be used to manufacture or develop the nuclear, biochemical, missile, and other military weapons.







ABOUT US

Dezaw focuses on the development of CNC system, servo motor and driver, stepper motor and driver, closed loop stepper motor and driver, spindle, inverter design, products and sales.

Above products are widely used in various of industrial automation fields, such as: CNC lathe machine, CNC milling machine, packing machine, drilling machine, grinding machine, gear hobbing machine, embroidery machine, bag making machine, dispenser and other machine tool numerical control transformation and supporting.

Dezaw upholds "customer first, credit-oriented", to create the most practical and ideal products, to serve various fields of society with the business approach of "quality products, excellent service".





VFD / Variable Frequency Drive

VFDs are used to control the speed of an electric motor by varying its input voltage. DEZAW focused on the development of working of machine motors with the help of specialized VFD according to the specific applications. DEZAW has following series of VFDs.



DV001 / Series VFDs



DEZAW DV001 series inverter is a new generation of adaptive vector inverter independently developed by our company. DV001 is a widely used VFD and has the compact structure, convenient and flexible installation, reasonable heat dissipation design to ensure product reliability.

Used on application: Wood Carving, Stone Carving, Cranes, Material Elevators, Bridge Cranes, Textile Machinery, Metal Processing, Municipal water supply, Transfer pump.

DV201 / Series VFDs



DEZAW DV201 series inverter is a VFD for high-frequency wooden, stone, and diamond carving spindle motors. It's a compact structure, with excellent performance and rich functions, simple and easy to use. Its frequency range from 0-1000HZ

Used for applications: Widely used in woodworking machinery, stone and diamond carving, machinery, plastic, and other various normal applications.

DV202 / Series VFDs



DEZAW DV202 VDF is a general-purpose open loop and compact drive. DV202 is a saving space, reducing step-up and wiring time all included in the series with drive size reduced up to 40% because of a compact design as it can be installed using a standard DIN Rail

Used for applications: Packaging machinery, simple conveyor machines, printing machinery, paper tissue machinery, disposal machinery, and food machinery.

DV203 / Series VFDs



DV203 series VDF is a high-performance and cost-effective product based on the main control chip with strong processing capacity and high stability hardware platform. This series VDF is a VDF for Asynchronous motor and Synchronous Motor and all other different types of load

Used for applications: Rolling mills load, Cement Factory, Chemical, mining, Cross Travelling, Long Travelling, Gantry Cranes, Tower Cranes, Metal Processing.

DV30L / Series VFDs



This Series DV30L is a open loop elevator drive and user friendly. We developed DV30L on inverter highly specialized in lift applications. It provides versatile, flexible, and smooth operations for providing passengers a safe and comfortable ride. It supports both asynchronous and synchronous motors.

Used for applications: Passenger elevatory, Material elevatory, Cranes, Electronic hoists, Bridges, Cranes, and Cross Travelling.

AES / Series VFDs



DEZGW AES series VFD specially developed for solar panel applications Dezaw is committed to provide smart products and services to develop cliean energy based on the original solarpump cfd products, which optimizes the usability and performace and extends applicable voltage levels and power range of the product built-in self-adaptive high accuracy maximum power point tracking (MPPT) algorithm of VSR ensures maximum water flow output.

Used for applications: It is mainly used for solar water pump and some other applications like Atta chaki machine.



SERVO / Drivers



DSD500/DSD510 SERVO DRIVE

2S series 16A-14A single phase 220V
2T series 16A-20A single phase 220V
4T series 8.5A-20A three phase 380V
DSD510: 1.6A-6.0A single/three phase 220v
Control mode: Position control, speed control torque control, internal speed control, internal position control. Etc.

Communication protocol: 485 communication



DSD550 SERVO DRIVE

2S series 16A-14A single phase 220V
2T series 16A-20A single phase 220V
4T series 8.5A-20A three phase 380V
Control mode: Position control, speed control torque control, internal speed control, internal position control. Etc.

Communication protocol: 485 communication



SERVO / Motor



Application Area

Quilting and Embroidery Machine

The uilting and embroidery machine, which is also known as quilting and embroidery AIQ, is a new indestrial sweing equipement that integates the quilting and embroidery function, It has integrated and optimized the quinting function of uilting machine and the embroidery function of computer embroidery machine with wide range of application, it applies to the fields such as home textiles, clothes, bags and suitcases, embroidery craft works and crystal plate decoration. It can realie circular processing of shell fabrics, seemless splicing. High output, improve the processing efficincy and reduce the labour cost.

Cutting Machine

The cutting machine can continiously cut large numbers of non-metal colled materials of the same specification thorough the cutting die. It applies to the industried such as upper of shoes, insole, football, volley ball, tennis, abrasive paper and medicne.

Auto Widing machine of edge band.

As the auxiliary machine for the production uipment of plastic edge band the auto winding machine of edge band can collect and coil the product edge bands based on the set length and transfer them to the nex process. It mainly applies to the industry of woodworking. Such as door sheet and furniture.



Stepper / Drivers



Stepper Drivers are secifically designed to drive stepper motors, which are capable of continious rotation with precise position control. Our stepper motor driver's offer adjustable current control and multiple step resolutions. We offer a diverse range of popula stepper drivers such as:

DM556

DM860

2D68MM

2HSS86H



Stepper / Motor



Stepper Motors are capable of highly precise and reliable operations without the use of position detectors. Motor operation is controlled directly through pluse signals. These are available in

NEMA17

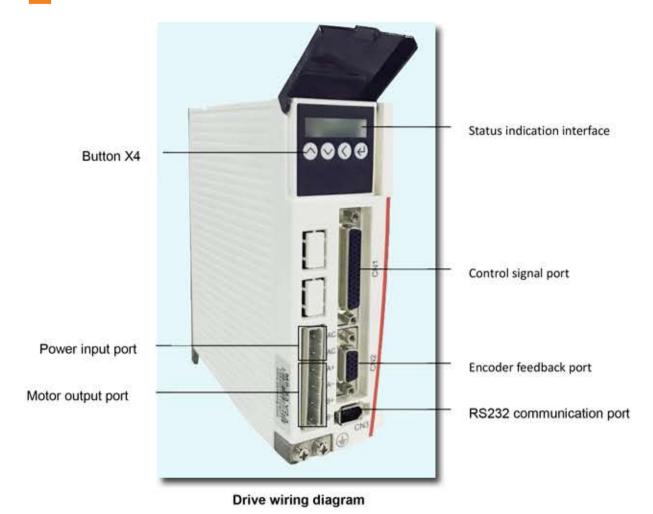
NEMA23

NEMA34

NEMA42

NEMA24

EASY SERVO / Driver



4.2 Port definition

4.2.1 Power input port and motor output port

(a)	No.	Symbol	Name	Definition		
® AC	1	AC	B	Connect 30V ~ 80V AC		
@ A+	2	AC	Power input port			
@ A-	3	A+		Connect motor red line		
@ A-	4	A-	Motor power port	Connect motor blue line		
1	5	B+		Connect motor green line		
(©) B-	6	B-	1	Connect motor black line		

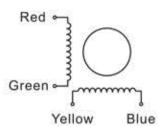




EASY SERVO / Motor



Wire Diagram



Product indicators

Closed loop stepper motor has the advantage of high precision, high output torque, low noise, superior dynamic performance and other characteristics and advantages. Hybrid servo motor are widely applied in woodworking machinery, 3D printer, automation equipment of medical instrument, laboratory, packing machine and electronics, and other occasions which need accurate linear positioning.

Specifications

Model	Step Angle	Current	Resistance	Inductance	Holding Torque	Length
57HSM2N-D25	1.8*	4.2A	0.5±10%Ω	1.8±20%mH	2.0N.m	76mm
60HSM3N-D25	1.8*	5.0A	0.45±10%Ω	1.8±20%mH	3.0N.m	88mm
86HSM4N-BC38	1.8°	6.0A	0.45±10%Ω	3.7±20%mH	4.5N.m	82mm
86HSM8N-BC38	1.8*	6.0A	0.44±10%Ω	3.7±20%mH	8.0N.m	118mm
86HSM12N-BC38	1.8°	6.0A	0.45±10%Ω	5.2±20%mH	12.0N.m	156mm

PLC / Programable Logic Controller



32bit High performance CPU

Multi-layer encryption protection

Fast Instruction Execution

Easy to Install and Program

Small Installation Size

External Clock Chip

Large Storage Capacity

Easy to Download and Debug





HMI / Software summary



Based on Android 4.0.3; more user-friendly; richer in content; bringing better user experience; having more functions; more stable; supporting Android gesture dragging and zooming and special effects (transparent, left-right, top-bottom, diagonal, fade-in, fade-out, etc); efficient security mechanism to protect your development efforts.





/ DZ990 (999) TDb/TDc



Features:

- 2-4 Axis economic type lathe and turning CNC system
- 800*600 8 Inch real color LCD displayer
- Support electric Turret & Binary code turret
- 2ms interpolation cycle, precision of 0.1um
- Max rapid speed 30m/min, feed speed is 15m/min
- G71 command supports the cycle cutting of groove shape outline
- Supports the programming of macro command in senstence type and the calling of macro program with parameter
- Support programming in metric system/inch system, with function of auto tool-setting, etc.
- With USB interface, it support file operation flash dis, system configuration and software upgrade
- One channel for hardwheel, supporting external MPG
- Common input in 24 points/common output in 24 points
- Tdc series support absolute encode servo motor.

/ DZ990MDb/MDc



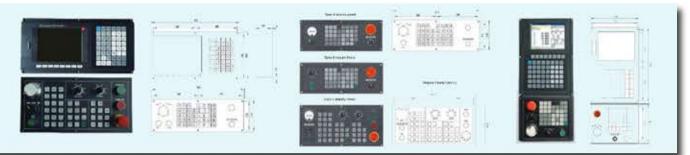
Features:

- 3-4 Axis economic type milling cnc system
- 800*600 8 inch real color LCD display
- Support electric turret & Binary code turret
- 2ms interpolation cycle, precision of 0.1um
- Max rapid speed 30m/min, feed speed is 15m/min
- Upto 10000 short lines pre-Ireading capacity, powerful pre-processing function
- Supports the programming of macro command in sentence type and the calling of macro program with parameter
- Support programming in metric system/inch system increase/absolute program
- With USB interface, it support file operation flask disk, system configuration and software upgrade.
- One channel for hardwheel, supporting external MPG
- Common input in 24 points/common output in 24 points
- Mdc series support absolute encoder servo motor.





/ DZ1000TDb/TDc(-v)



Features:

2-5 Axis economic type milling cnc system
Support electric turret & Binary code turret
Max rapid speed 30m/min, feed speed is 15m/min

Supports the programming of macro command in sentence type and the calling of macro program with parameter

With USB interface, it support file operation flask disk, system configuration and software upgrade.

Common input in 24 points/common output in 24 points

800*600 8 inch real color LCD display

2ms interpolation cycle, precision of 0.1um

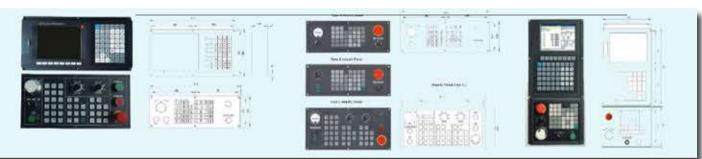
Upto 10000 short lines pre-lreading capacity, powerful pre-processing function

Support programming in metric system/inch system in crease/absolute program

One channel for hardwheel, supporting external MPG

Mdc series support absolute encoder servo motor.

/ DZ1000MDb/MDc



Features:

3-5 Axis economic type milling cnc system
Support electric turret & Binary code turret
Max rapid speed 30m/min, feed speed is 15m/min

Supports the programming of macro command in sentence type and the calling of macro program with parameter

With USB interface, it support file operation flask disk, system configuration and software upgrade.

Common input in 56 points/common output in 32 points

800*600 8 inch real color LCD display

2ms interpolation cycle, precision of 0.1um

Upto 10000 short lines pre-lreading capacity, powerful pre-processing function

Support programming in metric system/inch system in crease/absolute program

One channel for hardwheel, supporting external MPG

Mdc series support absolute encoder servo motor.





AC SERVO SPINDLE MOTOR

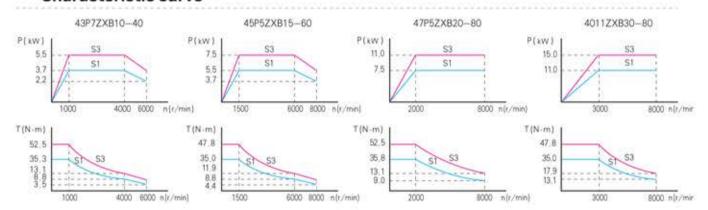


Electricity parameter

Voltage class:400V connecting method:Y Fan power:75W Fan voltage:380V

Motor model	Rated power (Kw)	Rated current (A)	Rated torque (N.m)	Rated voltage (V)	Pole number (P)	Rated frequeny (Hz)	Rated rotate speed (r/min)	Constant power Highest retate speed (r/min)	Highest rotate speed (r/min)	Rotational inertia (kg.m2)
43P7ZXB10-XXXP	3.7	7.8/8.8/9.9	35.3	380/345/305	4	35.7	1000	2000/3000/4000	6000	0.0186
45P5ZXB15-XXXP	5.5	11.2/12.3/14.0	35.0	380/350/305	4	52.3	1500	3000/4500/6000	8000	0.0186
47P5ZXB20-XXXP	7.5	15.0/16.6/18.8	35.8	380/345/305	4	69.0	2000	4000/6000/8000	8000	0.0186
4011ZXB30-XXXP	11	21.4/23.2	35.0	380/350	4	102.5	3000	6000/8000	8000	0.0186

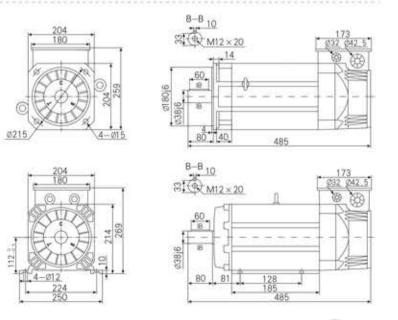
Characteristic curve



Performance index

Name	Index					
	CE9-1024 (incremental)					
20.00	CE9-2500 (incremental)					
(Can choose)	CE9-17B (absolute value)					
(Out) Signately	RZ12-1024 (rotating transformer)					
	SC-2048 (Sin-Cos)					
Shaft extension	G:oprical axis					
structure	J:key slot					
Installation method	83 85 835					
Weight/gross weight	59(66)kg					
Protection class	IP55					
Insulation class	Ficlass					
Rated temperature rise	90 K					
Vibration class	S					
Noise	<=700b					
Temperature	-15~45°C					
Environment humidity	<=95%RH					

Shape and installation size







AC SERVO SPINDLE MOTOR

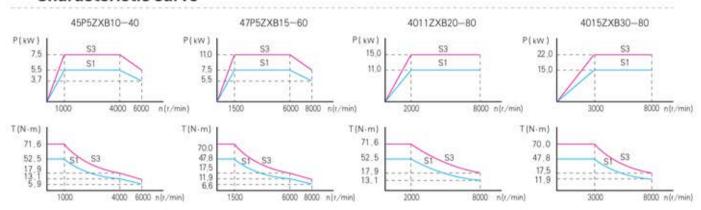


Electricity parameter

Voltage class:400V connecting method:Y Fan power:75W Fan voltage:380V

Motor model	Rated power (Kw)	Rated current (A)	Rated torque (N.m)	Rated voltage (V)	Pole number (P)	Rated frequeny (Hz)	Rated rotate speed (r/min)	Constant power Highest retate speed (r/min)	Highest rotate speed (r/min)	Rotational inertia (kg.m2)
45P5ZXB15-XXXP	5.5	11.6/13.0/14.2	52.5	380/340/310	4	35.7	1000	2000/3000/4000	6000	0.0233
47P5ZXB15-XXXP	7.5	15.2/16.0/18.2	47.8	380/360/315	4	52.3	1500	3000/4500/6000	8000	0.0233
4011ZXB20-XXXP	11	22.0/23.8/25.9	52.5	380/360/315	4	69.0	2000	4000/6000/8000	8000	0.0233
4015ZXB30-XXXP	15	29.0/31.9	47.8	380/350	4	102.1	3000	6000/8000	8000	0.0233

Characteristic curve



Performance index

Name	Index					
	CE9-1024 (incremental)					
20000	CE9-2500 (incremental)					
Encoder (Can choose)	CE9-17B (absolute value)					
(Carl Allanday)	RZ12-1024 (rotating transformer)					
	SC-2048 (Sin-Cos)					
Shaft extension	G:oprical axis					
structure	J:key slot					
Installation method	B3 B5 B35					
Weight/gross weight	59(66)kg					
Protection class	IP55					
Insulation class	F class					
Rated temperature rise	90 K					
Vibration class	\$					
Noise	<=700b					
Temperature	-15-45°C					
Environment humidity	<=95%RH					

Shape and installation size

