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**Dedication With Service**



**(224) 322-8100**

**[www.dws-mc.com](http://www.dws-mc.com)**

**[sales@dws-machineco.com](mailto:sales@dws-machineco.com)**

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## **DWS Machine Company**

**DWS Machine Company offers a wide variety of solutions to help assist with all of your company's spring making needs. We are a one stop shop for the spring company, we offer everything a spring company needs to thrive. Coilers, formers, ovens, grinders, precision measuring equipment, custom builds, tooling, new spare parts and we can even bring your old machine back to life with a new computer system. We are not your average machinery dealer, we are your manufacturing partner.**

**We are happy to help where we can and look forward to serving your needs. In our industry service is the key to success and DWS Machine has you covered. Please visit our website for equipment not in this catalog.**



**Email: [sales@dws-machineco.com](mailto:sales@dws-machineco.com)**

**Website: [www.dws-mc.com](http://www.dws-mc.com)**

**Phone: (224) 322-8100**

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# DWS X Series - 6 Axis Coilers

## Dedication With Service



Custom colors available

Model	DWS-608 X	DWS-620 X	DWS-630 X	DWS-660 X	DWS-680 X
Number of Axes	6	6	6	6	6
Wire Diameter	0.1-0.8mm	0.5-2.0mm	1.0-3.0mm	2.5-6.0mm	3.0-8.0mm
Max OD	20mm	50mm	60mm	100mm	120mm
Spring Index	3	3	3	3	3
Feed Roller Shafts	1	2	2	3	4
Feed Servo Motor	0.75kw	2.7kw	4.5kw	15.0kw	30.0kw
OD Servo Motor	0.4kw	0.75kw	1.5kw	2.7kw * 2	5.5kw * 2
Pitch Servo Motor	0.4kw	0.75kw	0.75kw	2.7kw	4.5kw
Cutter Servo Motor * 2	0.4kw * 2	0.75kw * 2	1.5kw * 2	4.5 * 2	7.0kw * 2
In/Out Arbor Servo Motor	0.4kw	0.75kw	0.75kw	Air	Air
Storage Capacity	1000	1000	1000	1000	1000
Dimensions	1000*700*350mm	1100*900*1600mm	1400*1100*1700mm	2000*1600*2000mm	2000*1650*2100mm
Weight	550kg	1000kg	1200kg	4500kg	6000kg

The DWS X Series 6 axis coilers offer a good combination of speed and precision consisting of six servo motors. The X Series adopts the Taiwanese Hust control system and Japanese Yaskawa servo motors. This style machine increases production output while reducing the difficulty of manual setup and operation. These 6 axis machines are great for coiling all types of springs & are easy for anyone to use.





# DWS X & K Series - 8 & 9 Axis Coilers

Dedication With Service



Custom colors available



Model	DWS-808 X	DWS-820 X	DWS-830 X	DWS-960 K	DWS-990 K
Number of Axes	8	8	8	9	9
Wire Diameter	0.1-0.8mm	0.5-2.0mm	1.0-3.0mm	1.5-6mm	3.0-9.0mm
Max OD	20mm	50mm	60mm	90mm	120mm
Spring Index	3	3	3	3	3
Feed Roller Shafts	1	2	2	4	5
Feed Servo Motor	0.75kw	2.7kw	4.5kw	15kw	30kw
OD Servo Motor	0.4kw * 2	1.0kw * 2	1.5kw * 2	2kw * 4	3.8kw * 4
Pitch Servo Motor	0.4kw	1.0kw	1.0kw	2kw	3.8kw
Cutter Servo Motor * 2	0.4kw * 2	1.0kw * 2	0.75kw * 2	3.8kw * 2	7kw * 2
Vertical Arbor Servo Motor	0.4kw	0.4kw	0.75kw	1.5kw	2kw
In/Out Arbor Servo Motor	0.4kw	0.4kw	0.75kw	Air	Air
Storage Capacity	1000 Programs	1000 Programs	1000 Programs	1000 Programs	1000 Programs
Dimensions	1000*700*1350mm	1100*700*1350mm	1400*1100*1700mm	2200*1285*2350mm	1880*2650*9800mm
Weight	580kg	1000kg	1300kg	3600kg	9800kg

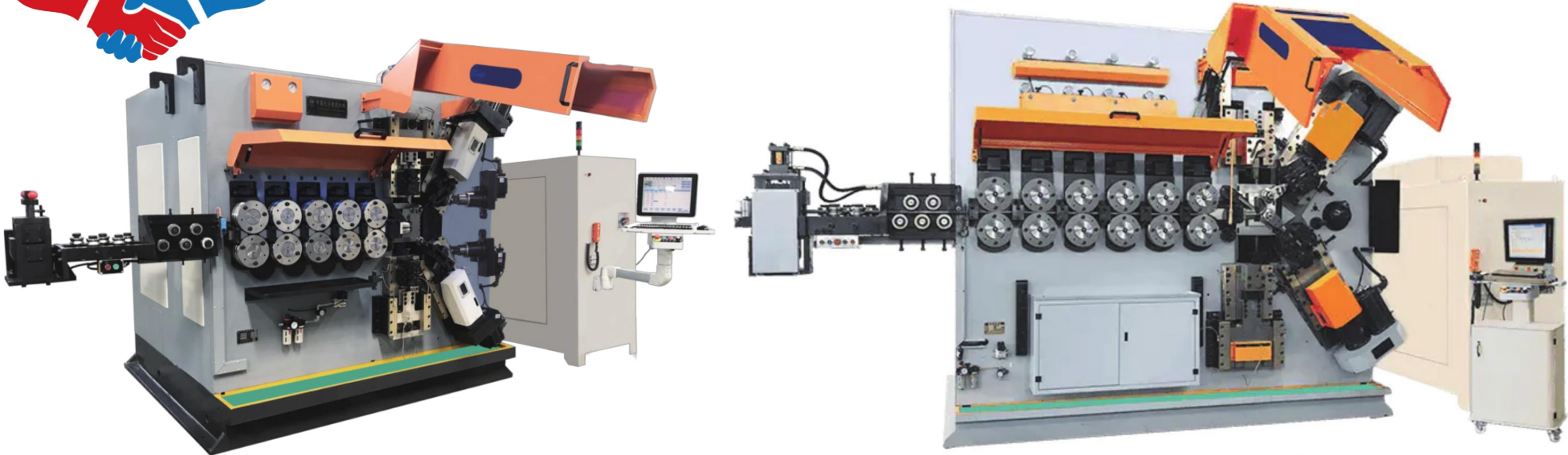
The DWS X & K Series coilers are models of efficiency. The main concept of these machines is the ease of setup & operation increasing the production output while reducing the difficulty of manual setup and operation. Most of the setup process is accomplished through the machine's auto edit function. These machines are great for coiling all types of springs & are very easy for anyone to use. The DWS K Series utilizes advanced 3D software while the X Series adopts the Taiwanese Hust control system and Japanese Yaskawa servo motors.





# DWS K Series - 8 & 11 Axis Coilers

Dedication With Service



Model	DWS-8120 K	DWS-8160 K	DWS-1118 K	DWS-11200 K	DWS-11250 K
Number of Axes	8	8	11	11	11
Wire Diameter	6.0-12.0mm	8.0-16.0mm	8.0-18.0mm	10.0-20.0mm	10.0-25.0mm
Max OD	150mm	210mm	250mm	250mm	280mm
Spring Index	3	3	3	3	3
Feed Roller Shafts	5 Sets	5 Sets	6 Sets	6 Sets	6 Sets
Feed Servo Motor	30kw	37kw	15kw * 6	15kw * 6	15kw * 6
OD Servo Motor	4.5kw * 2	1.0kw * 2	5.5kw * 2	7kw * 2	15kw * 2
Mid OD Servo Motor	2.7kw * 2	5.5kw * 2	-	-	-
Pitch Servo Motor	4.4kw	5.5kw	5.5kw	5.5kw	7kw
Cutter Servo Motor * 2	15kw * 2	25kw * 2	25kw * 2	30kw * 2	30kw * 2
In/Out Arbor Movement	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Storage Capacity	1000 Programs	1000 Programs	1000 Programs	1000 Programs	1000 Programs
Dimensions	3200*2600*2250mm	3800*2800*2450mm	4450*2950*2550mm	4600*3000*2600mm	4650*3360*3000mm
Weight	15000kg	22000kg	30000kg	32000kg	37800kg



The DWS K Series is great for coiling all types of springs, equipped with user friendly 3D software, auto edit function, slip control on the feed rollers & remote service access. This machine controls all dimensions of the spring from the computer program without any mechanical adjustment.





## DWS X & Z Series Formers

Dedication With Service

Custom colors available



**DWS - X Series**



**DWS - Z Series**



Model	DWS-CNC20 X	DWS-CNC35 X	DWS-1020 X+	DWS-0520 Z	DWS-0535 Z
Number of Axes	3 (5 MAX)	3 (5 MAX)	10 (17 MAX)	5 (7 MAX)	5 (7 MAX)
Wire Diameter	0.2 - 2.3mm	1.5 - 4.0mm	0.2 - 2.3mm	0.3 - 2.3mm	1.2-4.0mm
Max Wire Feed Speed	120m/min	100m/min	150m/min	120m/min	100m/min
Max Production Rate	60pcs/min	60pcs/min	100pcs/min	60pcs/min	60pcs/min
Feed Roller Shafts	2 sets	3 sets	2 sets	2 sets	3 sets
Feed Servo Motor	2.7kw	5.5kw	2.7kw	2.9kw	4.5kw
Quill Servo Motor	0.75kw	1.0kw	1.0kw	1.0kw	1.8kw
Wire Rotation Servo Motor	-	-	-	2.9kw	4.5kw
Cam Servo Motor	2.7kw	5.5kw	-	1.8kw	2.7kw
Forming Servo Motor	-	-	1.0kw (X1-X8)	-	-
Spinner Servo Motor	0.4kw (optional)	1.0kw (optional)	0.4kw (optional)	0.4kw (optional)	1.0kw (optional)
Quill Setting Value	Z: +/- 0.1° - 359.9°	Z: +/- 0.1° - 359.9°	Z: +/- 0.1° - 359.9°	Z: +/- 0.1° - 359.9°	Z: +/- 0.1° - 359.9°
Cam Setting Value	X: +/- 0.1° - 359.9°	X: +/- 0.1° - 359.9°	-	X: +/- 0.1° - 359.9°	X: +/- 0.1° - 359.9°
Storage Capacity	1000 Programs	1000 Programs	2000 Programs	1,000 Programs	1,000 Programs
Dimensions	1500*1100*1700mm	1750*1300*1850mm	1500*1100*1700mm	1450*1250*1900mm	2400*1700*1900mm
Weight	900kg	1300kg	950kg	1500kg	2500kg

The DWS X & Z Series formers are great for all types of springs. These machines are composed of the Taiwanese Hust computer system & Japanese Yaskawa servo motors. Set up techs are able to change over to different jobs very easily. Full servo is a great choice. Instead of timing cams, you just program the slides to move as needed. This allows for reduced setup times, more efficient production rates & are a lot easier for new/inexperienced people to learn. Cam style machines are a great choice too because they offer good cost savings & are a great choice for dedicating to long running jobs.





# DWS Z Series Formers

Dedication With Service



**With DWS your are able to completely customize your machine by picking the color, adding an extra set of rollers to get an even tighter index on your springs or add a extra axis or two to make the most difficult parts complete. The DWS - X & Z Series Formers are great for complicated torsion springs with multiple bends, wire forms, extension springs, double torsion springs, compression springs with legs, battery springs, magazine springs, wave springs, constant force springs, clock springs, spiral torsion springs, rings & you can even add a small die or punching device for strip material that would normally be run on a four slide, multi slide or punch press.**

Model	DWS-1220 Z	DWS-1225 Z	DWS-1245 Z	DWS-1260 Z	DWS-1280 Z
Number of Axes	12 (18 max)	12 (18 max)	12 (18 max)	12 (18 max)	12 (18 max)
Wire Diameter	0.3-2.0mm	0.6-2.5mm	1.2mm 4.5mm	2.0-6.0mm	3.0-8.0mm
Spring Index	3	3	3	3	3
Max Wire Feed Speed	150m/min	150m/min	130m/min	120m/min	105m/min
Max Production Rate	60pcs/min	60pcs/min	100pcs/min	60pcs/min	60pcs/min
Feed Roller Shafts	2 sets	3 sets	3 sets	4 sets	4 sets
Feed Servo Motor	2.9kw	2.9kw	4.4kw	7.5kw	15kw
Quill Servo Motor	1.0kw	1.0kw	1.8kw	1.8kw	1.8kw
Wire Rotation Servo Motor	2.9kw	2.9kw	4.4kw	5.5kw	7.5kw
Forming Servo Motor	0.85kw(X1-X8)	0.85kw(X1-X8)	1.8kw (X1-X8)	4.4kw (X1-X8)	4.4kw (X1-X8)
Spinner Servo Motor	0.4kw	0.4kw	1.0kw	1.3kw	1.8kw
Quill Setting Value	Z: +/- 0.1° - 359.9°	Z: +/- 0.1° - 359.9°	Z: +/- 0.1° - 359.9°	Z: +/- 0.1° - 359.9°	Z: +/- 0.1° - 359.9°
Storage Capacity	2000 Programs	2000 Programs	2000 Programs	2000 Programs	2000 Programs
Dimensions	1600*1160*1750mm	1600*1160*1850mm	2700*2000*1900mm	3800*2000*2200mm	5000*2300*2800mm
Weight	1500kg	1700kg	5000kg	8000kg	12000kg





# In line Ovens

# Dedication With Service



PLC PANEL



### Performances & Features:

- Equipped with PID intelligent temperature controller and integrated auto-control system.
- Touch screen PLC with user freindly software.
- All ovens can be set up to 500° Celsius
- Tolerance of +/- 3° (c) is standandard on all inline ovens
- Equipped with specially designed fans to ensure a balanced & precise hearth temperature.
- Stainless steel belts & stepless speed regulation allows for the increase of productivity
- Brand-new structure, with all-fiber furnace lining which allows for faster heat up times, the reduction of electricity consumption and a better energy-savings. The electricity consumption is less than 50% of the rated voltage when the oven has reached a constant temperature.

Model	Temp. (c°)	Hearth LxWxH (mm)	Outside LxWxH (mm)	Capacity (kg/h)	Power (kw)	Weight of Oven
DWS-206	500° (c°)	600 x 200 x 60	1600 x 750 x 1300	10 - 20	6	200
DWS-210	500° (c°)	1000 x 200 x 90	2000 x 750 x 1300	18 - 25	8	250
DWS-215	500° (c°)	1500 x 200 x 90	2600 x 750 x 1300	25 - 35	12	350
DWS-315	500° (c°)	1500 x 300 x 90	2600 x 850 x 1320	35 - 50	16	750
DWS-320	500° (c°)	2000 x 300 x 90	3300 x 850 x 1400	50 - 70	20	950
DWS-420	500° (c°)	2000 x 400 x 90	3300 x 950 x 1400	60 - 80	26	1000
DWS-425	500° (c°)	2500 x 400 x 100	3900 x 950 x 1400	70 - 90	30	1200
DWS-430	500° (c°)	3000 x 400 x 100	4400 x 950 x 1500	80 - 120	35	1300
DWS-440	500° (c°)	4000 x 400 x 120	6100 x 1050 x 1600	130 - 180	52	2200
DWS-520	500° (c°)	2000 x 500 x 100	4100 x 1100 x 1800	80 - 100	35	1400
DWS-530	500° (c°)	3000 x 500 x 120	5100 x 1100 x 1950	150 - 180	45	1800
DWS-540	500° (c°)	4000 x 500 x 120	6100 x 1100 x 1950	200 - 250	60	2400
DWS-550	500° (c°)	5000 x 500 x 130	7100 x 1100 x 1950	250 - 300	75	2800
DWS-560	500° (c°)	6000 x 500 x 150	8100 x 1100 x 1950	300 - 500	90	3600
DWS-590	500° (c°)	9000 x 500 x 200	11200 x 1100 x 1950	800 - 1000	135	5000
DWS-630	500° (c°)	3000 x 600 x 120	5100 x 1200 x 1950	160 - 200	57	2200
DWS-640	500° (c°)	4000 x 600 x 130	6100 x 1200 x 1950	200 - 300	75	2600
DWS-650	500° (c°)	5000 x 600 x 130	7100 x 1200 x 1950	300 - 400	90	3200
DWS-660	500° (c°)	6000 x 600 x 150	8100 x 1200 x 1950	360 - 500	110	3800
DWS-680	500° (c°)	8000 x 600 x 200	10100 x 1200 x 2000	700 - 1100	135	5000
DWS-690	500° (c°)	9000 x 600 x 220	11200 x 1200 x 2000	800 - 1200	150	5500
DWS-730	500° (c°)	3000 x 700 x 120	5100 x 1300 x 2000	180 - 220	65	2500
DWS-740	500° (c°)	4000 x 700 x 180	6100 x 1300 x 2000	250 - 350	85	3200
DWS-750	500° (c°)	5000 x 700 x 200	7100 x 1300 x 2000	320 - 450	105	3500
DWS-760	500° (c°)	6000 x 700 x 220	8100 x 1300 x 2000	400 - 600	120	4300
DWS-840	500° (c°)	4000 x 800 x 180	6100 x 1400 x 2000	280 - 400	90	4000
DWS-850	500° (c°)	5000 x 800 x 220	7100 x 1400 x 2000	400 - 600	106	4600
DWS-860	500° (c°)	6000 x 800 x 260	8100 x 1400 x 2000	550 - 800	130	5200





# Batch Ovens & Air Cleaners

## Dedication With Service



Help protect the health of your employees and the environment by adding an air cleaner to your equipment. We keep many sizes and types in stock and ready to ship from the factory. The DWS electrostatic air cleaners are designed to help provide clean air in the work environment by removing contaminants. The air cleaner will remove 99% of smoke, oil mist & fumes from the air. The active carbon filter will help to reduce odors.

Model	Max Flow (m3/h)	Duct (mm)	Dims (mm) LxWxH	Pressure (Pa)
DWS-750-200	1200 - 1600	200	1300 X 720 X 1050	200
DWS-1100-200	2000 - 2400	200	1950 x 720 x 1150	200
DWS-2200-300	2800 - 3200	300	2450 x 950 x 1150	200
DWS-2200-300+	3200 - 3600	300	2450 x 950 x 1150	200



- Equipped with PID intelligent temperature controller and integrated auto-control system.
- All ovens can be set up to 500° Celsius
- Tolerance of +/- 3° (c) is standard on all batch ovens
- Equipped with specially designed fans to ensure a balanced & precise hearth temperature.
- Brand-new structure, with all-fiber furnace lining which allows for faster heat up times, the reduction of electricity consumption and a better energy-savings. The electricity consumption is less than 50% of the rated voltage when the oven has reached a constant temperature.

Model	Temp. (c°)	Heat Zone (mm)	Outside Dims (mm)	Power (kw)
DWS-3	500° (c°)	450 x 450 x 350	850 x 910 x 640	3
DWS-4.5	500° (c°)	550 x 550 x 450	970 x 1010 x 760	4.5
DWS-6	500° (c°)	750 x 600 x 500	1140 x 1060 x 760	6
DWS-18	500° (c°)	1000 x 800 x 800	1450 x 1320 x 1110	18
DWS-24	500° (c°)	1000 x 1000 x 1000	2000 x 2050 x 1750	24
DWS-30	500° (c°)	1200 x 1200 x 1000	2200 x 2250 x 1750	30
DWS-36	500° (c°)	1500 x 1200 x 1000	2500 x 2250 x 1750	36
DWS-42	500° (c°)	1500 x 1500 x 1200	2500 x 2550 x 1950	42



# RX-39 Series High Temp. Ovens

## Dedication With Service



- Equipped with PID intelligent temperature controller and integrated auto-control system.
- All ovens can be set up to 900° Celsius
- Tolerance of +/- 5° (c) is standard on all batch ovens
- Equipped with specially designed fans to ensure a balanced & precise hearth temperature.
- Brand-new structure, with all-fiber furnace lining which allows for faster heat up times, the reduction of electricity consumption and a better energy-savings. The electricity consumption is less than 50% of the rated voltage when the oven has reached a constant temperature.

Model	Temp. (c°)	+/- Tolerance	Heat Zone (mm)	Power (kw)
DWS-15-RX	900° (c°)	+/- 5° Celcius	650 x 300 x 250	15
DWS-30-RX	900° (c°)	+/- 5° Celcius	950 x 450 x 350	30
DWS-45-RX	900° (c°)	+/- 5° Celcius	1200 x 600 x 400	45
DWS-60-RX	900° (c°)	+/- 5° Celcius	1500 x 750 x 450	60
DWS-75-RX	900° (c°)	+/- 5° Celcius	1800 x 900 x 550	75
DWS-35 Custom	800° (c°)	+/- 5° Celcius	500 x 500 x 500	35





## DWS CNC Grinders

Dedication With Service

### Features:

- High efficiency production
- Easy to operate programming
- Use of man-machine dialogue
- Single or dual feeding plates
- Automatic height compensation
- Adjustable speed of plate & wheels
- High resolution touch screen display



Model (-S dual plate)	Grinding Wheel Dims OD x T x ID	Plate Size	Wire Size	OD	Height
DWS-180-6B	400 x 55 x 203 mm	580 mm	0.8 - 6.0 mm	8.0 - 80 mm	10 - 180 mm
DWS-180-6B-S	400 x 55 x 203	420	0.8 - 6.0	8.0 - 80	10 - 180
DWS-250-9B	450 x 65 x 150	740	1.0 - 9.0	10 - 100	20 - 250
DWS-250-9B-S	450 x 65 x 150	580	1.0 - 9.0	10 - 100	20 - 250
DWS-400-9B	450 x 65 x 150	740	1.0 - 9.0	10 - 100	20 - 400
DWS-400-9B-S	450 x 65 x 150	580	1.0 - 9.0	10 - 100	20 - 400
DWS-600-9B	450 x 65 x 150	740	1.0 - 10.0	10 - 100	300 - 600
DWS-250-12B	660 x 100 x 170	740	3.0 - 12.0	20 - 130	20 - 250
DWS-250-12B-S	660 x 100 x 170	580	3.0 - 12.0	20 - 130	20 - 250
DWS-400-12B	660 x 100 x 170	740	3.0 - 12.0	20 - 130	150-400
DWS-400-12B-S	660 x 100 x 170	580	3.0 - 12.0	20 - 130	20 - 250
DWS-400-12A	660 x 100 x 170	740	3.0 - 12.0	20 - 130	150-400
DWS-400-12A-S	660 x 100 x 170	580	3.0 - 12.0	20 - 130	20 - 400

The DWS CNC down feed grinders are great for all your grinding needs. Our grinders are available in single plate models & also with dual feeding plates to increase production efficiency. The speed of the feeding plate, upper & lower wheels are all adjustable. The feeding plates can be programmed for continuous feeding or step feeding to get multiple passes per batch of springs with the top wheel coming down to automatically compensate for spring height.





## DWS Precision Measuring Equipment

## Dedication With Service

Model	<b>DWS-500N</b>
Units	N, kg, g, lbs
Load Capacities	0.01N - 500N
Stroke	300mm



The DWS-500N is equipped with an internal microcomputer and a PMI touch panel, very user friendly and precise. The DWS-500N can accurately measure spring constants, forces, loads, rates, free lengths, compressed lengths and more. With the convenience of an internal printer, the measured test results can be instantly printed out.



Model	DWS-2010A	DWS-3020A	DWS-4030A	DWS-5040A
Table size (mm)	350 x 250	450 x 350	560 x 460	660 x 560
Glass size (mm)	245 x 145	340 x 240	440 x 340	540 x 440
X & Y stroke (mm)	200 x 100	300 x 200	400 x 300	500 x 400
Z stroke (mm)	200	200	200	200

The DWS Image Measurement System utilizes independently developed user friendly ZK3D-M measurement software, precision HD color camera and laser indicator to automatically measure the specified positions of the work piece. The DWS-IMS has programmable light sources to optimize illumination of the work piece.

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