

Integrated Filling System

DF600



Features

- Integrated design, one controller can control 4 groups (total 16) filling units.
- It can support the production filling line, store 60 commonly used filling modes.
- Each filling unit can independently receive stop filling signal when bottle absent.

Model Number

DF600, DF600II, DF600 Plus, DF600 PlusII

Typical Application

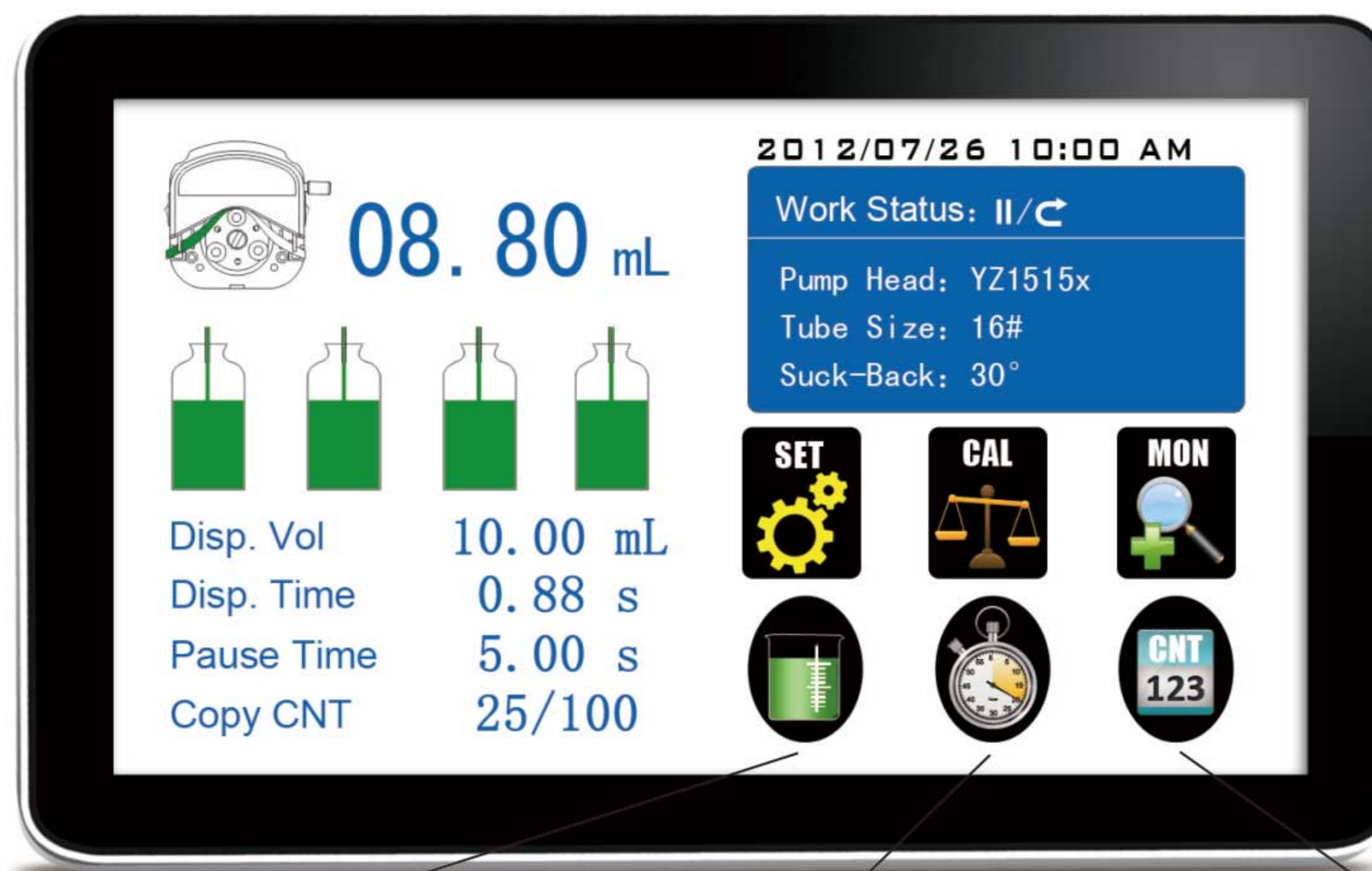
- Pharmaceutical, health product filling, diagnostic reagent dispensing.
- Food, beverage filling.
- Cosmetic filling.

DF600 Plus

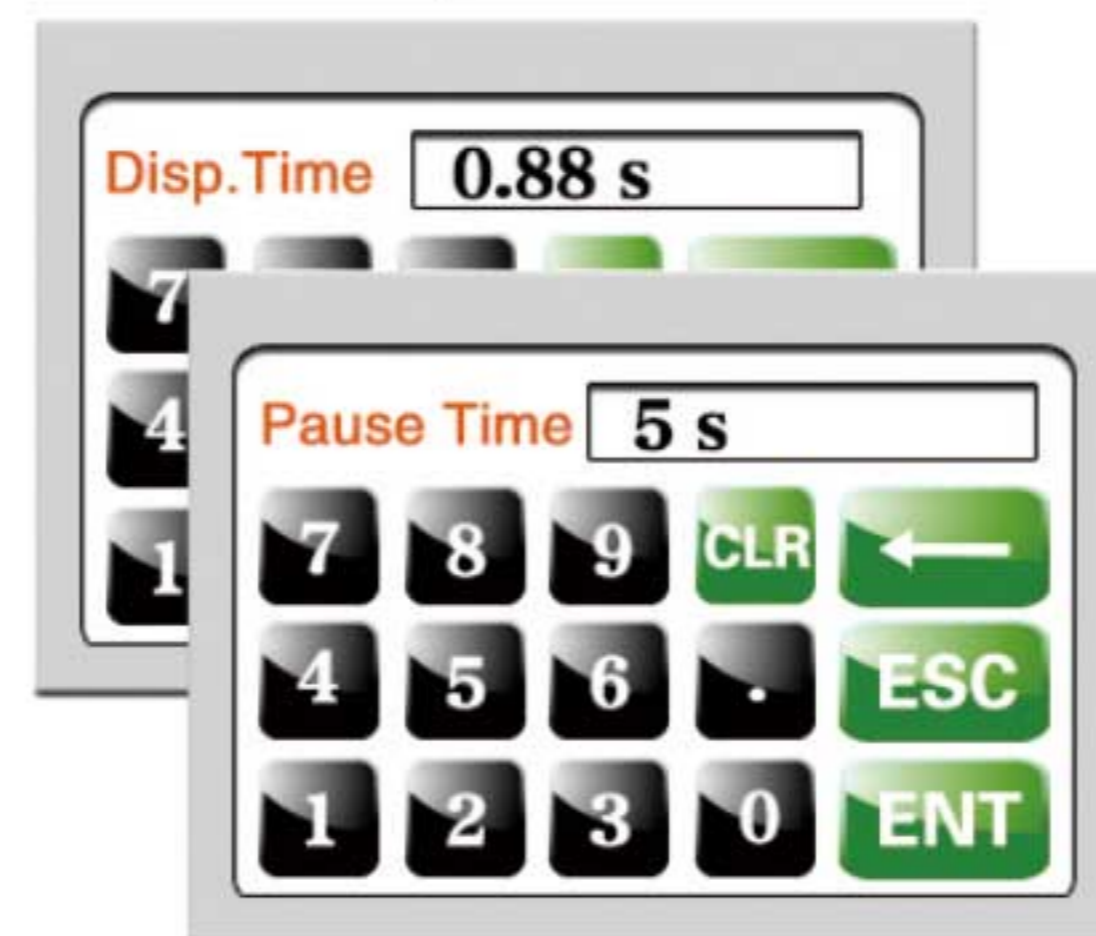


Features

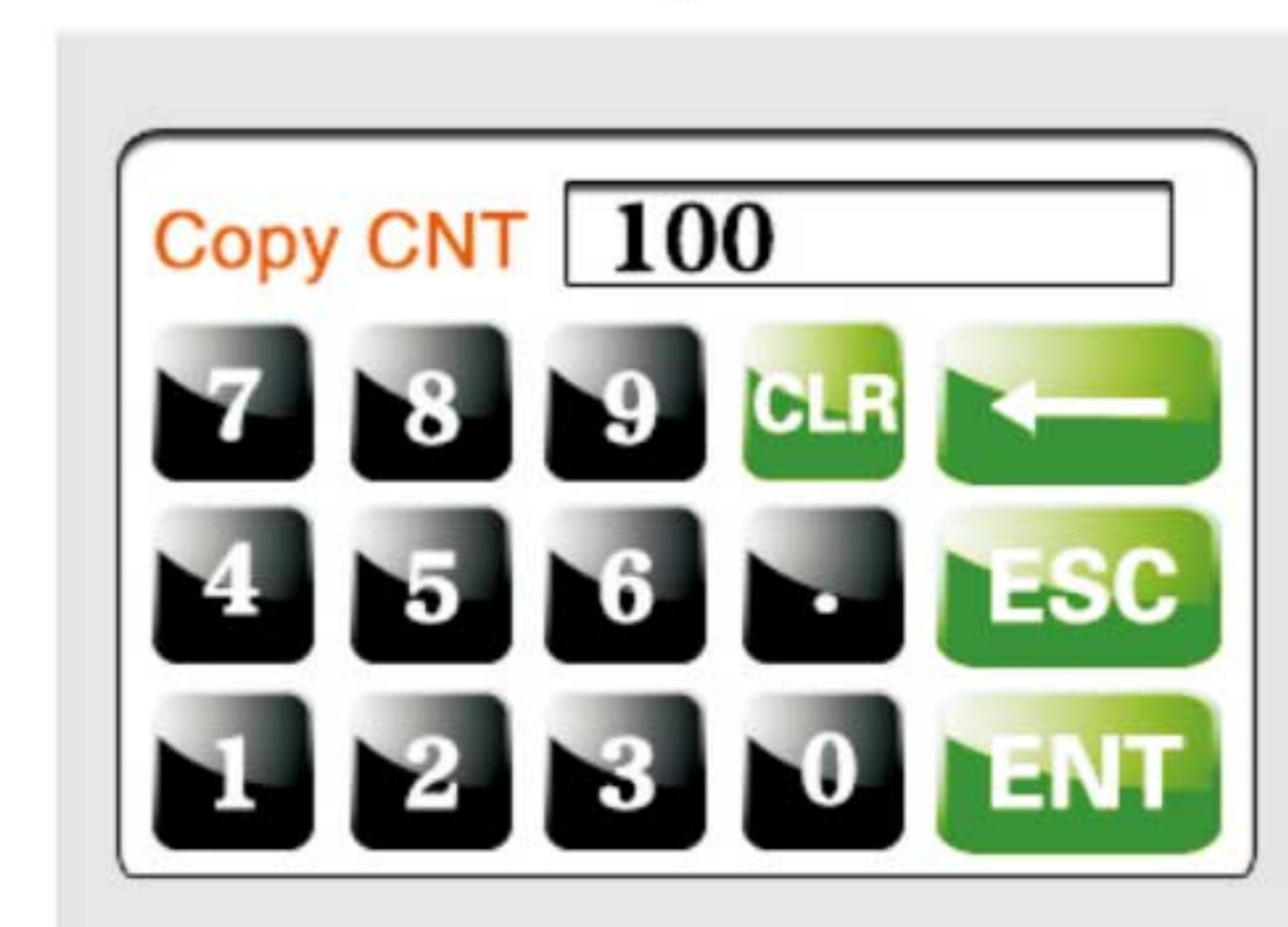
Connected with HMI, PLC etc, industrial control system, one controller can control 8 groups (total 32) filling units. It can display the details of 16 filling units in the HMI, widely used in industrial control application.



Dispensing volume interface



Dispensing time and pause time interface



Copy numbers interface



Technical Specifications				
Speed range	CF350/DF350	1-350 rpm	Display	4.3" industrial grade true color LCD screen
	CF350 Plus/DF350 Plus	1-350 rpm	Control method	Touch screen and mechanical keypad
	CF600 Series	1-600 rpm	Keypad lifetime	300,000 times
	DF600 Series	1-600 rpm	Start/stop, direction signal	Passive switch signal, such as foot pedal switch Active switch signal: 5V, 12V, 24V for option
Filling volume range	0.1-9999.99 mL		Output interface	Output motor working status (Open-Collector output)
Filling time range	0.5-9999.99 s/ DF600 Plus 0.1-9999.99 s			
Pause time range	0.5-9999.99 s/ DF600 Plus 0.1-9999.99 s		Power supply	AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional)
Filling volume resolution	0.01 mL			
Time resolution	0.01 s		Condition temperature	0-40°C
Copy numbers	1-9999,'0' means unlimited		Relative humidity	< 80%
Back suction angle	0-360°		IP rate	IP31
Filling accuracy	<±0.5%			

Product Composition and Flow Rate Range						
Drive	Pump Head	Pump Head Material	Tube Clamp Material	Tubing		(Motor Speed 1~600rpm) Flow Rate mL/min
				Tubing Size	ID×Wall Thickness	
DF600 CF600 DF600 Plus CF600 Plus	YZ1515x	PSF PPS	————	13 [#]	0.8×1.6 (mm)	0.07~42
				14 [#]	1.6×1.6 (mm)	0.27~162
				19 [#]	2.4×1.6 (mm)	0.55~330
				16 [#]	3.1×1.6 (mm)	0.82~492
	YZ2515x	PSF PPS	————	25 [#]	4.8×1.6 (mm)	1.7~1020
				17 [#]	6.4×1.6 (mm)	2.9~1740
				18 [#]	7.9×1.6 (mm)	3.8~2280
				15 [#]	4.8×2.4 (mm)	1.7~1020
DF600II CF600II DF600 PlusII CF600PlusII	DZ25-3L	Aluminum alloy/PPS	PP	24 [#]	6.4×2.4 (mm)	3.85~2310
				35 [#]	7.9×2.4 (mm)	5.08~3050
				36 [#]	9.6×2.4 (mm)	6~3600
				15 [#]	4.8×2.4 (mm)	2.11~1264
DF600III CF600III DF600 PlusIII CF600 PlusIII	DZ25-6L	Aluminum alloy/PPS	PP	24 [#]	6.4×2.4 (mm)	5.5~3300
				35 [#]	7.9×2.4 (mm)	8~4800
				36 [#]	9.6×2.4 (mm)	10~6000
				15 [#]	4.8×2.4 (mm)	3~1800
DF600IV CF600IV DF600 PlusIV CF600 PlusIV	YZ35-PPS	PPS	PP	26 [#]	6.4×3.3 (mm)	6.9~4200
				73 [#]	9.6×3.3 (mm)	12.3~7400
				82 [#]	12.7×3.3 (mm)	20~12000
Drive	Pump Head	Pump Head Material	Tube Clamp Material	Tubing		(Motor Speed 1~350rpm) Flow Rate mL/min
				Tubing Size	ID×Wall Thickness	
DF350 CF350 DF350 Plus CF350 Plus	DY15	Aluminum alloy	PP	13 [#]	0.8×1.6 (mm)	0.1~48
				14 [#]	1.6×1.6 (mm)	0.6~223
				19 [#]	2.4×1.6 (mm)	1.3~448
				16 [#]	3.1×1.6 (mm)	2~723
				25 [#]	4.8×1.6 (mm)	4.7~1626
				17 [#]	6.4×1.6 (mm)	6.4~2230
	DY25	Aluminum alloy	PP	18 [#]	7.9×1.6 (mm)	9.5~3337
				15 [#]	4.8×2.4 (mm)	4.2~1480
				24 [#]	6.4×2.4 (mm)	7.6~2670
				35 [#]	7.9×2.4 (mm)	10~3600
				36 [#]	9.6×2.4 (mm)	12.4~4340



Filling Volume Reference (Media is water)							
Drive	Pump Head	Tubing	Filling Volume (mL)	Filling Time (s)	Accuracy (±%)	Output (pcs/min)	Motor Speed (rpm)
DF600 CF600 DF600 Plus CF600 Plus	YZ1515x YZ2515x	13 [#]	0.1	0.5	±5ul	40	204.083
		13 [#]	0.3	0.7	1.5	35	426.251
		13 [#]	0.5	1	0.8	30	516.081
		13 [#]	1	2	0.5	20	517.152
		14 [#]	2	1	1	30	446.724
		14 [#]	3	1.5	0.8	24	446.479
		19 [#]	5	1.2	1	27	454.919
		16 [#]	7	1	0.5	30	457.705
		25 [#] /15 [#]	10	1	1	30	303.426
		25 [#] /15 [#]	15	1	0.8	30	461.273
		25 [#] /15 [#]	20	1.2	0.5	27	518.945
		17 [#] /24 [#]	30	1.2	0.8	27	462.725
		17 [#] /24 [#]	50	2	0.5	20	461.595
		18 [#]	80	2.5	0.5	17	427.274
		18 [#]	100	3	0.5	15	446.583
DF600II CF600II DF600 PlusII CF600PlusII	DZ25-3L	15 [#]	16	1	0.5	30	454.976
		24 [#]	30	1.2	0.5	27	389.610
		35 [#]	150	4	0.5	12	442.913
		36 [#]	200	4	0.5	12	500.000
DF350 CF350 DF350 Plus CF350 Plus	DY15	14 [#]	0.5	0.5	0.3	60	94.1915
		14 [#]	1	1	0.4	30	94.1915
		14 [#]	2	1	0.6	30	188.383
		19 [#]	3	1	0.3	30	140.625
		16 [#]	5	1	0.5	30	145.278
		25 [#]	10	1	0.3	30	129.143
		25 [#]	15	1	0.4	30	193.715
		17 [#]	30	1	0.4	30	282.530
	DY25	18 [#]	100	2.5	0.3	17	251.730
		15 [#]	10	1	0.3	30	141.911
		24 [#]	30	1	0.5	30	235.972
		35 [#]	70	1.2	0.4	27	340.466
		36 [#]	100	2	0.2	20	241.935
		15 [#]	80	4	0.4	12	400.000
DF600III CF600III DF600 PlusIII CF600 PlusIII	DZ25-6L	24 [#]	150	4	0.4	12	409.090
		35 [#]	200	3.2	0.5	14	468.750
		36 [#]	300	3.5	0.5	13	514.285
		26 [#]	150	3	0.5	15	428.570
DF600IV CF600IV DF600 PlusIV CF600 PlusIV	YZ35-PPS	73 [#]	300	3	0.5	15	486.499
		82 [#]	500	3	0.5	15	500.000

