

GREEN LOGISTICS LEADER

COUNTER BALANCE FORKLIFT SERIES



The man-machine engineering

The machine good use of ergonomics design concept, reducing operator fatigue strength from multiaspect, improving the ride comfort of operators, which embody the people-oriented design concept.



300 mm in the use of small diameter of the wheel, which greatly reducing the left arm fatigue strength,



lowing torque hydraulic steering gear steering precision, small resistance, no hydraulic recoil, increasing operator comfort, more suitable for operation personnel for a long time.



The larger space design, which reducing the homework to legs constraints; Using low, wide, getting on the vehicle pedal design is convenient for operation personnel and vehicles.



Steering wheel Angle is adjustable up to 15 degrees, seat before and after the 150 mm mobile distance, adjustable backrest 45 degrees, the operator to adjust according to need, which is suitable for people of all shapes and sizes.



High elastic rubber tires,steering axle, Suspension bridge,high elastic suspension seat, such as multiple damping effect, which ensure the driver comfort from all directions.



Wide view mast and overhead guard ensure operators have excellent vision.

EFFICIENCY · ENERGY CONSERVATION



Multi-function meter moment shows all information and operation, in perfect condition operation personnel in a timely manner to the whole vehicle information have a detailed understanding.



Vehicle configuration button emergency switch, which avoids emergency security problems.



The right operation handle can be relaxed, safe vehicle operation, at the same time reduce the fatigue strength in her right arm.

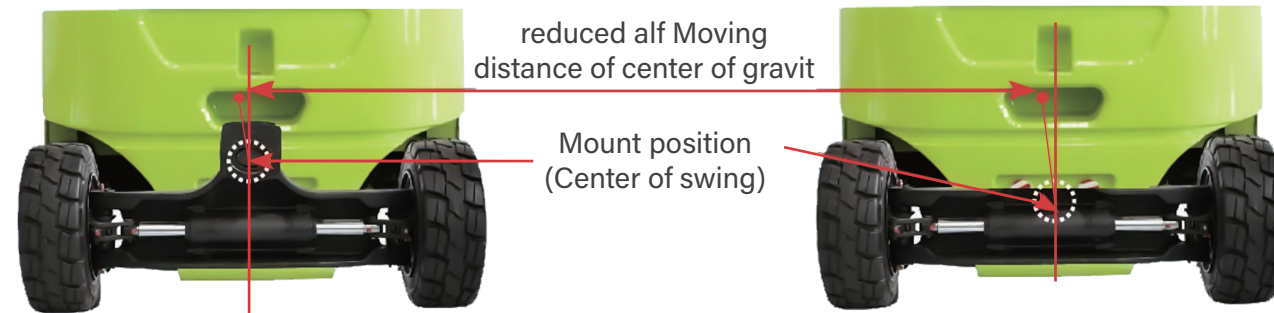


High standard configuration safety seat for the operator more comfortable and more comfortable working environment, even if he long time operation will not feel tired.



Security stabilization

The vehicle design always is the basic of higher security and higher stability, every detail is to improve the stability of the vehicle, or to improve the vehicle's safety coefficient.

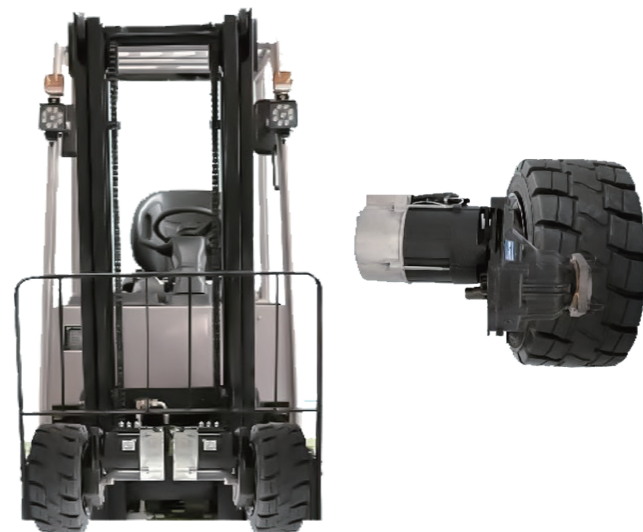


High pivot steering axle design, narrow the distance between steering and vehicle center of gravity, which reduce the oscillation amplitude when turning body, and achieve higher vehicle stability

Vehicle used for turning speed control system in high speed turning automatically reduce the speed, avoiding because of the high speed turning the vehicle rollover accident, which achieving more excellent stability.

Hydraulic and electrical parts are set the overload protection to eliminate unsafe factors in the use of.

Vehicle design center of gravity low, increasing vehicle wheel track and wheelbase, which not only greatly improving the stability of the vehicle, but also improving residual loading capacity of vehicles.



Operators in the perceptual system, which completely avoid the driver is not in the vehicle and unsafe accidents occur when wrong operation.

Double drive and steering Angle relationship between precise calculation, using the electronic automatic differential each round of pure rolling operation, which is to avoid due to the differential problems of power consumption and tyre wear.

High efficiency environmental protection * energy saving

High efficiency, environmental protection, energy saving is the guiding ideology of vehicle design, every effort along the guiding ideology for divergent thinking.



- ◆ Drive motor rating adopts a new generation of high efficiency three-phase ac motor, with high speed, good acceleration and reliable driving performance and gradeability greatly improve production efficiency and productivity
- ◆ Lift motor rating also uses a new generation of high efficiency three-phase ac motor, gear pump with high efficiency low noise, as well as lifting, lowering high speed setting, which greatly improving the working efficiency.
- ◆ Design of 720 ah large capacity battery, which avoid the shift of midway replacement battery.
- ◆ Adopts gear pump with high efficiency double modulus low noise and high precision gear reducer, the vehicle noise below 65 decibels.
- ◆ Whole vehicle which is using high efficiency and energy saving LED lamps and lanterns, collection of long life, high efficiency and energy saving and a series of advantages
- ◆ When stopping acceleration, and the reversing driving, braking and ramp is the start of regenerative braking functions, make the battery recycling energy, extend battery life. At the same time reduce the wear of mechanical friction plate, reduce maintenance costs more effectively.

Intelligent Control

Whole vehicle intelligent control is to realize the man-machine engineering vehicles, security, stability, high efficiency, environmental protection and energy saving.



Various operation modes are to choose suitable for different conditions.

Accurate calculation of control is to ensure the vehicle stability.

Compact size of the ac drive motor and the perfect combination of efficient frequency converter.

Large size LED LCD control panel state real-time monitoring vehicles

Added a number of optional features, implemented a number of speed control, operation control, function display, etc.

Timing charging function, is to avoid the peak, letting use cost is lower.

Intelligent Control

Maintenance free, easy to maintenance cost greatly reducing vehicle use, which is truly satisfy customer finally.

- ◆ Fully enclosed wet-type brake disc, which is more truly no wear and tear
- ◆ Whole vehicle maintenance free three-phase ac motor, high protection grade, no parts, which reduce the cost of maintenance.
- ◆ CAN bus control technology is to achieve reliable data transmission and fault diagnosis.

COUNTER BALANCE FORKLIFT SPECIFICATIONS

Model		FB15T	FB20T	FB25T	FB30T	FB35T
Characteristic	Rated lifting weight	1500kg	2000kg	2500kg	3000kg	3000kg
	Load center distance	500mm	500mm	500mm	500mm	500mm
	Overhang	340mm	300mm	300mm	350mm	350mm
	Front overhang	434mm	465mm	465mm	465mm	465mm
	Wheelbase	1400mm	1500mm	1500mm	1700mm	1700mm
	Total weight (With battery)	3380kg	3920kg	3080kg	4940kg	5100kg
Size	Total length (To vertical surface of fork)	2174mm	2265mm	2265mm	2485mm	2485mm
	Total width	1080mm	1170mm	1170mm	1240mm	1240mm
	Height of overhead guard	2027mm	2085mm	2085mm	2120mm	2120mm
	Standard mast height that does not rise	1990mm	1990mm	1990mm	2050mm	2010mm
	Standard mast Maximum stretch height	4060mm	4060mm	4060mm	4080mm	4080mm
	Standard mast inclination (Lean forward/Reclining)	6/9deg	6/9deg	6/9deg	6/9deg	6/9deg
	Ground clearance of frame	115mm	115mm	115mm	120mm	130/128mm
	Ground clearance of standard mast	100mm	100mm	100mm	120mm	110/95mm
	Standard mast Free lifting height	120mm	125mm	125mm	140mm	140mm
	Turning radius (Smallest outside)	1900mm	1065mm	2065mm	2230mm	2230mm
	Maximum fork height (Rated lifting weight)	3000mm	3000mm	3000mm	3300mm	3300mm
	Minimum theoretical width of right-angle channel	2065mm	2065mm	2065mm	2340mm	2340mm
	Minimum theoretical width of right-angle stacking channel	3330mm	3530mm	3530mm	3280mm	4280mm
	The smallest x The largest	100x1040mm	240x1040mm	100x1040mm	250x1100mm	250x1100mm
performance	Maximum travel speed (No load)	15km/h	15km/h	15km/h	16/14km/h	16/14km/h
	Lifting speed (fully loaded/No load)	340\420km/s	350\420km/s	350\420km/s	340\420km/s	230\420km/s
	speed of decent (fully loaded/No load)	500\500km/s	500\500km/s	500\500km/s	500\500km/s	500\500km/s
	Largest traction (fully loaded/No load)	10600\11060N	12900\12390N	12300\12000N	17600\16350N	16800\16350N
	Maximum grade (fully loaded)	15%	20%	15%	20%	15%
Tires	Front wheel	21x8-9	21x8-9	21x8-9	21x8-9	23x9-10
	Rear wheel	16x6-8	16x6-8	16x6-8	16x6-8	18x7-8
power system	Battery Voltage	48v	48v	80v	80v	80v
	(Optional lithium Capacity battery) (Optional range)	300~720ah	300~720ah	400~830ah	400~830ah	400~830ah
	Travel power of walking motor	8Kw/rpm	11Kw/rpm	11Kw/rpm	15Kw/rpm	15Kw/rpm
	Lifting motor rated power	11Kw/rpm	11Kw/rpm	11Kw/rpm	13.5Kw/rpm	13.5Kw/rpm
	Controller form	AC	AC	AC	AC	AC

● COUNTER BALANCE FORKLIFT SPECIFICATIONS

Model		FB415	FB420	FB430	FB435	FB450	
Characteristic	Rated lifting weight	1500kg	2000kg	3000kg	3500kg	5000kg	
	Load center distance	500mm	500mm	500mm	500mm	500mm	
	Overhang	250mm	250mm	350mm	350mm	409mm	
	Front overhang	355mm	355mm	494.5mm	495.5mm	565mm	
	Wheelbase	1500mm	1500mm	1800mm	1800mm	2000mm	
Size	total weight (No load With battery)	3250kg	3550kg	5150kg	5350kg	8000kg	
	Total length (To vertical surface of fork)	2090mm	2095mm	2595mm	2595mm	2975mm	
	Total width	1080mm	1140mm	1274mm	1274mm	1496mm	
	Height of overhead guard	2040mm	2040mm	2140mm	2140mm	2300mm	
	Standard mast height that does not rise	2010mm	2010mm	2120mm	2120mm	2300mm	
	Standard mast Maximum stretch height	4080mm	4080mm	4080mm	4080mm	4110mm	
	Maximum fork height (Rated lifting weight)	3000mm	3000mm	3000mm	3000mm	3000mm	
	Standard mast inclination(Lean forward/Reclining)	7/7deg	7/7deg	7/7deg	7/7deg	6/6deg	
	Ground clearance of frame	100mm	100mm	130mm	130mm	140mm	
	Standard mast Free lifting height	80mm	80mm	140mm	140mm	170mm	
	Turning radius (Smallest outside)	140mm	140mm	145mm	145mm	150mm	
	Minimum theoretical width of right-angle channel	1970mm	1970mm	2280mm	2280mm	2650mm	
	Minimum theoretical width of right-angle stacking channel	2170mm	2170mm	2340mm	2340mm	2650mm	
	Fork pitch range	3725mm	3725mm	4280mm	4280mm	4750mm	
	performance	The smallest x The largest	200x970mm	200x970mm	250x1100mm	250x1100mm	300x1350mm
Maximum travel speed (No load)		18/17.5Km/h	18/17.5Km/h	19/17.5Km/h	19/17.5Km/h	18/16Km/h	
Lifting speed (fully loaded/No load)		450/550Mm/s	380/550Mm/s	450/550Mm/s	450/550Mm/s	400/500Mm/s	
speed of decent(fully loaded/No load)		500/500Mm/s	500/500Mm/s	500/500Mm/s	500/500Mm/s	450/450Mm/s	
Largest traction(fully loaded/No load)		12500\12300N	12100\12000N	17760\16800N	17650\16500N	257200\23950N	
Maximum grade (fully loaded)		25%	22%	20%	20%	20%	
Tires	Front wheel	20x5-10	20x5-10	23x9-10	23x9-10	28x12.5-15	
	Rear wheel	18x7-8	18x7-8	18x7-8	18x7-8	21x8-9	
power system	Battery (lithium optional)	Voltage	48V	48V	80V	80V	80V
		Capacitance	300 ~ 630ah	300 ~ 720ah	400 ~ 720ah	400 ~ 720ah	400 ~ 830ah
	Rated power of walking motor	4.8X2Kw/rpm	4.8X2Kw/rpm	2X7.5Kw/rpm	2X7.5Kw/rpm	2X12Kw/rpm	
	Rated power of lifting motor	11Kw/rpm	11Kw/rpm	23.5Kw/rpm	23.5Kw/rpm	25.5Kw/rpm	
	Controller form	AC	AC	AC	AC	AC	



Mast type	Mast code	lifting height(mm)	Rated load capacity kg		Tilt angle (°)	Mast height			Free lifting height	
			Load distance 500 mm			lowered mm	Lifting mm		Without carrier mm	With carrier mm
			FB415/FB15T	FB420/FB20T/FB425/FB25T			Without carrier	With carrier		
Duplex wide vision mast	2WV200	2000	1500	2000	7\7	1530	2530	3080	150	150
	2WV250	2500	1500	2000	7\7	1780	3030	3580	150	150
	2WV270	2700	1500	2000	7\7	1880	3230	3780	150	150
	2WV300	3000	1500	2000	7\7	2030	3530	4080	150	150
	2WV330	3300	1500	2000	7\7	2180	3830	4380	150	150
	2WV350	3500	1500	2000	7\7	2280	4030	4580	150	150
	2WV360	3600	1500	2000	7\7	2330	4130	4680	150	150
	2WV370	3700	1500	2000	7\7	2380	4230	4780	150	150
	2WV400	4000	1500	2000	7\7	2580	4530	5080	150	150
	2WV425	4250	1475	1960	7\5	2715	4780	5330	150	150
	2WV450	4500	1475	1905	7\5	2830	5030	5580	150	150
	2WV480	4800	1470	1860	7\5	2980	5330	5880	150	150
	2WV500	5000	1440	1810	7\5	3080	5530	6080	150	150
	2WV550	5500	1370	1620	7\5	3380	6030	6580	150	150
	2WV600	6000	1120	1400	7\5	3630	6530	7080	150	150
Duplex free mast	2WVF200	2000	1500	2000	7\7	1530	2530	3080	810	450
	2WVF250	2500	1500	2000	7\7	1780	3030	3580	1060	700
	2WVF270	2700	1500	2000	7\7	1880	3230	3780	1160	800
	2WVF300	3000	1500	2000	7\7	2030	3530	4080	1310	950
	2WVF330	3300	1500	2000	7\7	2180	3830	4380	1460	1100
	2WVF350	3500	1500	2000	7\7	2280	4030	4580	1560	1200
	2WVF360	3600	1500	2000	7\7	2330	4130	4680	1610	1250
	2WVF370	3700	1500	2000	7\7	2380	4230	4780	1660	1300
	2WVF400	4000	1500	2000	7\7	2580	4530	5080	1860	1500
	2WVF425	4250	•	•	7\5	2715	4780	5330	1995	1635
	2WVF450	4500	•	•	7\5	2830	5030	5580	2110	1750
	2WVF480	4800	•	•	7\5	2980	5330	5880	2260	1900
	2WVF500	5000	•	•	7\5	3080	5530	6080	2360	2000
	2WVF550	5500	•	•	7\5	3380	6030	6580	2660	2300
	2WVF600	6000	•	•	7\5	3630	6530	7080	2910	2550
Triplex free mast	3WVF375	3750	1500	2000	7\7	1780	4280	4830	1060	700
	3WVF390	3900	1500	2000	7\7	1830	4430	4980	1110	750
	3WVF400	4000	1500	2000	7\7	1865	4530	5080	1145	785
	3WVF420	4200	1500	2000	7\7	1930	4730	5280	1210	850
	3WVF435	4350	1550	1950	7\7	1980	4880	5430	1260	900
	3WVF450	4500	1490	1890	7\5	2030	5030	5580	1310	950
	3WVF480	4800	1450	1800	7\5	2130	5330	5880	1410	1050
	3WVF500	5000	1420	1710	7\5	2195	5530	6080	1475	1115
	3WVF550	5500	1270	1520	7\5	2360	6030	6580	1640	1280
	3WVF600	6000	1080	1360	7\5	2580	6530	7080	1860	1500
	3WVF650	6500	900	1095	7\5	2745	7030	7580	2025	1665
	3WVF700	7000	•	•	7\5	2960	7530	8080	2240	1880

Mast type	Mast code	lifting height(mm)	Rated load capacity kg		Tilt angle (°)	Mast height			Free lifting height	
			Load distance 500 mm			lowered mm	Lifting mm		Without carrier mm	With carrier mm
			FB430/FB330	FB435/FB335			Without carrier	With carrier		
Duplex wide vision mast	2WV200	2000	3000	3500	7/7	1620	2720	3080	145	145
	2WV250	2500	3000	3500	7/7	1870	3220	3580	145	145
	2WV270	2700	3000	3500	7/7	1970	3420	3780	145	145
	2WV300	3000	3000	3500	7/7	2120	3720	4080	145	145
	2WV330	3300	3000	3500	7/7	2270	4020	4380	145	145
	2WV350	3500	3000	3500	7/7	2370	4220	4580	145	145
	2WV370	3700	3000	3500	7/7	2470	4420	4780	145	145
	2WV380	3800	3000	3500	7/7	2520	4520	4880	145	145
	2WV400	4000	3000	3500	7/7	2670	4720	5080	145	145
	2WV425	4250	2900	3350	6/6	2795	4970	5330	145	145
	2WV450	4500	2800	3210	6/6	2920	5220	5580	145	145
	2WV480	4800	2700	2900	6/6	3070	5520	5880	145	145
	2WV500	5000	2550	2700	3/6	3170	5720	6080	145	145
	2WV550	5500	*2400	•	3/6	3470	6220	6580	145	145
	2WV600	6000	*2000	•	3/6	3720	6720	7080	145	145
Duplex free mast	2WVF200	2000	3000	3500	7/7	1620	2720	3080	900	540
	2WVF250	2500	3000	3500	7/7	1870	3220	3580	1150	790
	2WVF270	2700	3000	3500	7/7	1970	3420	3780	1250	890
	2WVF300	3000	3000	3500	7/7	2120	3720	4080	1400	1040
	2WVF330	3300	3000	3500	7/7	2270	4020	4380	1550	1190
	2WVF350	3500	3000	3500	7/7	2370	4220	4580	1650	1290
	2WVF370	3700	3000	3500	7/7	2470	4420	4780	1750	1390
	2WVF380	3800	3000	3500	7/7	2520	4520	4880	1800	1440
	2WVF400	4000	3000	3500	7/7	2670	4720	5080	1950	1590
	2WVF425	4250	2900	3350	6/6	2795	4970	5330	2075	1715
	2WVF450	4500	2800	3210	6/6	2920	5220	5580	2200	1840
	2WVF480	4800	2700	2900	6/6	3070	5520	5880	2350	1990
	2WVF500	5000	2550	2700	3/6	3170	5720	6080	2450	2090
	2WVF550	5500	*2400	•	3/6	3470	6220	6580	2750	2390
	2WVF600	6000	*2000	•	3/6	3720	6720	7080	3000	2640
Triplex free mast	3WVF375	3750	3000	3500	6/6	1870	4470	4830	1150	790
	3WVF390	3900	3000	3500	6/6	1920	4620	4980	1200	840
	3WVF400	4000	3000	3500	6/6	1955	4720	5080	1235	875
	3WVF420	4200	2900	3400	6/6	2020	4920	5280	1300	940
	3WVF435	4350	2850	3300	6/6	2070	5070	5430	1350	990
	3WVF450	4500	2800	3210	3/6	2120	5220	5580	1400	1040
	3WVF480	4800	2600	2850	3/6	2220	5520	5880	1500	1140
	3WVF500	5000	2400	2650	3/6	2285	5720	6080	1565	1205
	3WVF550	5500	1900	2100	3/6	2430	6220	6580	1710	1350
	3WVF600	6000	1400	1700	3/6	2670	6720	7080	1950	1590
	3WVF650	6500	*1700	•	3/6	2835	7220	7580	2115	1755
3WVF700	7000	*1350	•	3/6	3050	7720	8080	2330	1970	

Mast type	Mast code	lifting height(mm)	Rated load capacity kg		Tilt angle (°)	Mast height		Free lifting height		
			Load distance 500 mm			lowered mm	Lifting mm		Without carrier mm	With carrier mm
			FB450				Without carrier	With carrier		
Duplex wide vision mast	2WV200	2000	5000	5000	6/6	1800	2640	3106	145	145
	2WV250	2500	5000	5000	6/6	2050	3140	3606	145	145
	2WV270	2700	5000	5000	6/6	2150	3340	3806	145	145
	2WV300	3000	5000	5000	6/6	2300	3640	4106	145	145
	2WV330	3300	5000	5000	6/6	2450	3940	4406	145	145
	2WV350	3500	5000	5000	6/6	2550	4140	4606	145	145
	2WV370	3700	5000	5000	6/6	2650	4340	4806	145	145
	2WV380	3800	5000	5000	6/6	2700	4440	4906	145	145
	2WV400	4000	5000	5000	6/6	2800	4640	5106	145	145
	2WV425	4250	4850	4850	3/6	2925	4890	5356	145	145
	2WV450	4500	4700	4700	3/6	3050	5140	5606	145	145
	2WV480	4800	4390	4390	3/6	3200	5440	5906	145	145
	2WV500	5000	4190	4190	3/3	3300	5640	6106	145	145
	2WV550	5500	•	•	3/3	3550	6140	6606	145	145
	2WV600	6000	•	•	3/3	3800	6640	7106	145	145
Duplex free mast	2WVF200	2000	5000	5000	6/6	1620	2720	3080	900	540
	2WVF250	2500	5000	5000	6/6	1870	3220	3580	1150	790
	2WVF270	2700	5000	5000	6/6	1970	3420	3780	1250	890
	2WVF300	3000	5000	5000	6/6	2120	3720	4080	1400	1040
	2WVF330	3300	5000	5000	6/6	2270	4020	4380	1550	1190
	2WVF350	3500	5000	5000	6/6	2370	4220	4580	1650	1290
	2WVF370	3700	5000	5000	6/6	2470	4420	4780	1750	1390
	2WVF380	3800	5000	5000	6/6	2520	4520	4880	1800	1440
	2WVF400	4000	5000	5000	6/6	2670	4720	5080	1950	1590
	2WVF425	4250	4850	4850	3/6	2795	4970	5330	2075	1715
	2WVF450	4500	4700	4700	3/6	2920	5220	5580	2200	1840
	2WVF480	4800	4390	4390	3/6	3070	5520	5880	2350	1990
	2WVF500	5000	4190	4190	3/3	3170	5720	6080	2450	2090
	2WVF550	5500	•	•	3/3	3470	6220	6580	2750	2390
	2WVF600	6000	•	•	3/3	3720	6720	7080	3000	2640
Triplex free mast	3WVF375	3750	5000	5000	3/6	2050	4390	4856	1180	935
	3WVF390	3900	5000	5000	3/6	2100	4540	5006	1230	985
	3WVF400	4000	5000	5000	3/6	2135	4640	5106	1265	1020
	3WVF420	4200	4800	4800	3/6	2200	4840	5306	1330	1085
	3WVF435	4350	4650	4650	3/6	2250	4990	5456	1380	1135
	3WVF450	4500	4500	4500	3/3	2300	5140	5606	1430	1185
	3WVF480	4800	4350	4350	3/3	2400	5440	5906	1530	1285
	3WVF500	5000	4150	4150	3/3	2465	5640	6106	1595	1350
	3WVF550	5500	3600	3600	3/3	2610	6140	6606	1740	1495
	3WVF600	6000	3000	3000	3/3	2850	6640	7106	1980	1735
	3WVF650	6500	•	•	3/3	3015	7140	7606	2145	1900
3WVF700	7000	•	•	3/3	3230	7640	8106	2360	2115	