

# ISC Series Stacker Crane Buffers

## IZMAC Hydraulic & Oil Stacker Crane Buffer

### DESCRIPTION

ISC model max energy capacity is upto 915kJ, and it's longest stroke is 1,200mm and it is mainly applied for automatic logistic warehouse system(AS/RS). Engineered to maintain rather Low Peak figures & Low Recoil Force figures. Therefore it can be operated by lowest rebounding force and decelerate softly in emergency stop conditions.

### FEATURES

- 1 Custom orifice
- 2 Piston rod : Hardened, hard chrome plated
- 3 Cylinder : Zinc plated
- 4 Operation temperature : -10 ~ 80°C • Special : -40 ~ 120°C
- 5 Fullfilled international standards : OSHA, AIST, CMAA, DIN, FEM etc.
- 6 Option : Urethane cap, Safety cable, Mounting plates

### APPLICATION

Automatic warehouse system(AS/RS), Theme park, Stacker crane, Automobile assembly line, Overhead crane



### ISC SERIES ORDERING INFORMATION

ISC - 90 - 250 - FM - BC

- B : Bellows
- C : Safety Cable
- UC : Urethane Cap

- RS : Rear Flange Style Mount
- FM : Front & Rear Foot Mount
- FF : Front & Rear Mount Flange
- FS : Front Flange Style Mount

Stroke(mm)

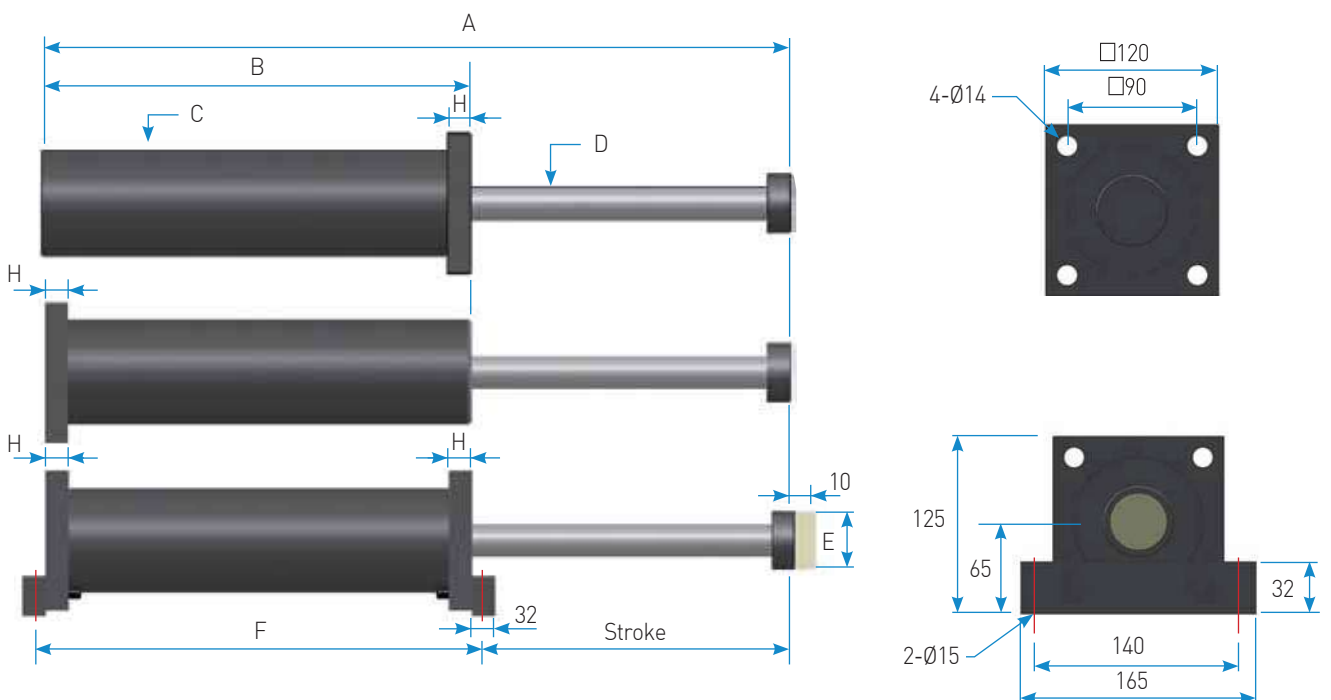
Body Thread Size

I : Izmec Hydraulic & Oil  
S : Stacker  
C : Crane Buffer



## ■ Engineering Data & Dimensions

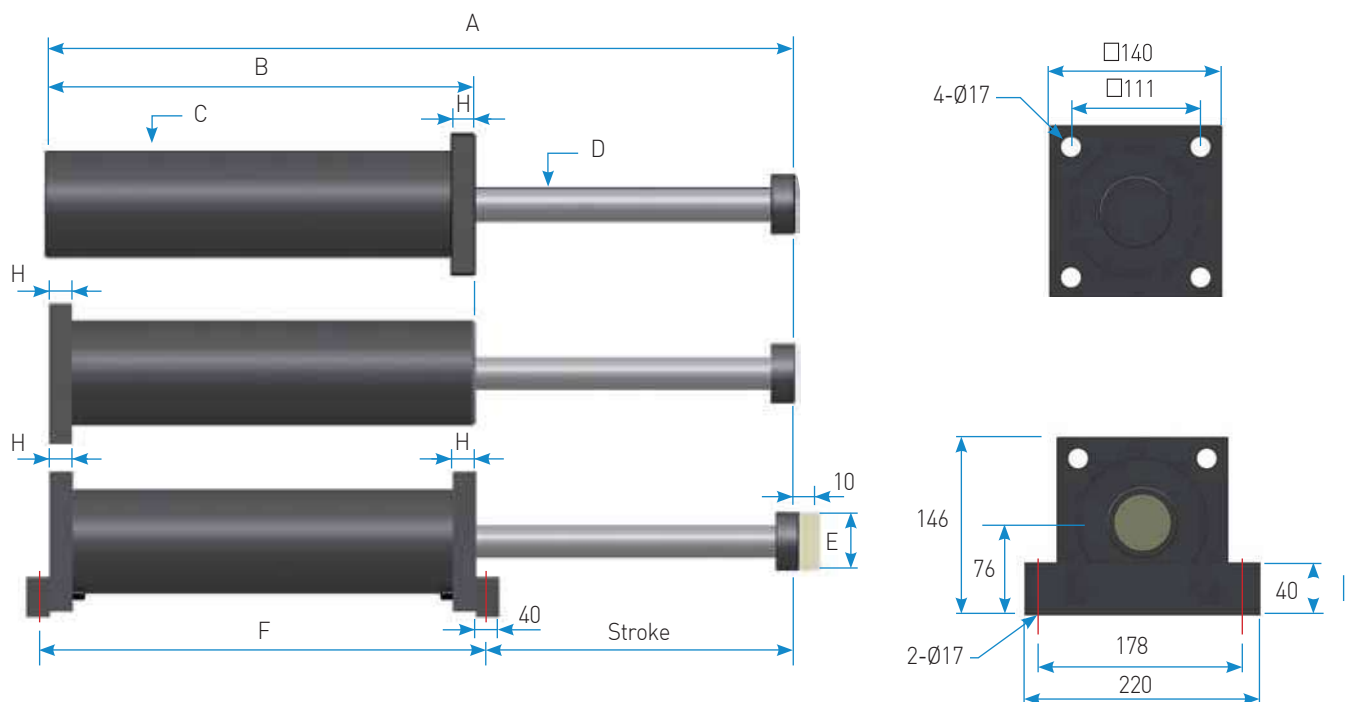
Model	Stroke (mm)	Max. Energy / Cycle(kJ) $E_T$	Max. Energy / Hour(kJ/hr) $E_{T,C}$	Max.Buffer Force(kN) $F_s$	Dimension [unit:mm]							
					A	B	C	D	E	F	G	H
ISC90 - 50	50	4	190	75	310	208	90	30	50	240	86	20
- 100	100	7	390	75	410	258	90	30	50	290	136	20
- 150	150	10	580	75	510	308	90	30	50	340	186	20
- 200	200	13	780	75	613	360	90	30	50	392	237	20
- 250	250	16	830	75	715	411	90	30	50	443	288	20
- 300	300	20	940	75	817	462	90	30	50	496	339	20
- 350	350	23	1,260	75	918	512	90	30	50	544	390	20
- 400	400	21	1,150	67	1,019	563	90	30	50	595	440	20
- 450	450	20	1,090	55	1,121	614	90	30	50	646	491	20
- 500	500	19	1,060	47	1,223	665	90	30	50	697	542	20
- 600	600	15	880	31	1,427	767	90	30	50	799	644	20
- 700	700	13	610	24	1,668	910	90	30	50	956	742	20
- 800	800	12	530	19	1,888	1,030	90	30	50	1,076	842	20



# ISC110 Series

## ■ Engineering Data & Dimensions

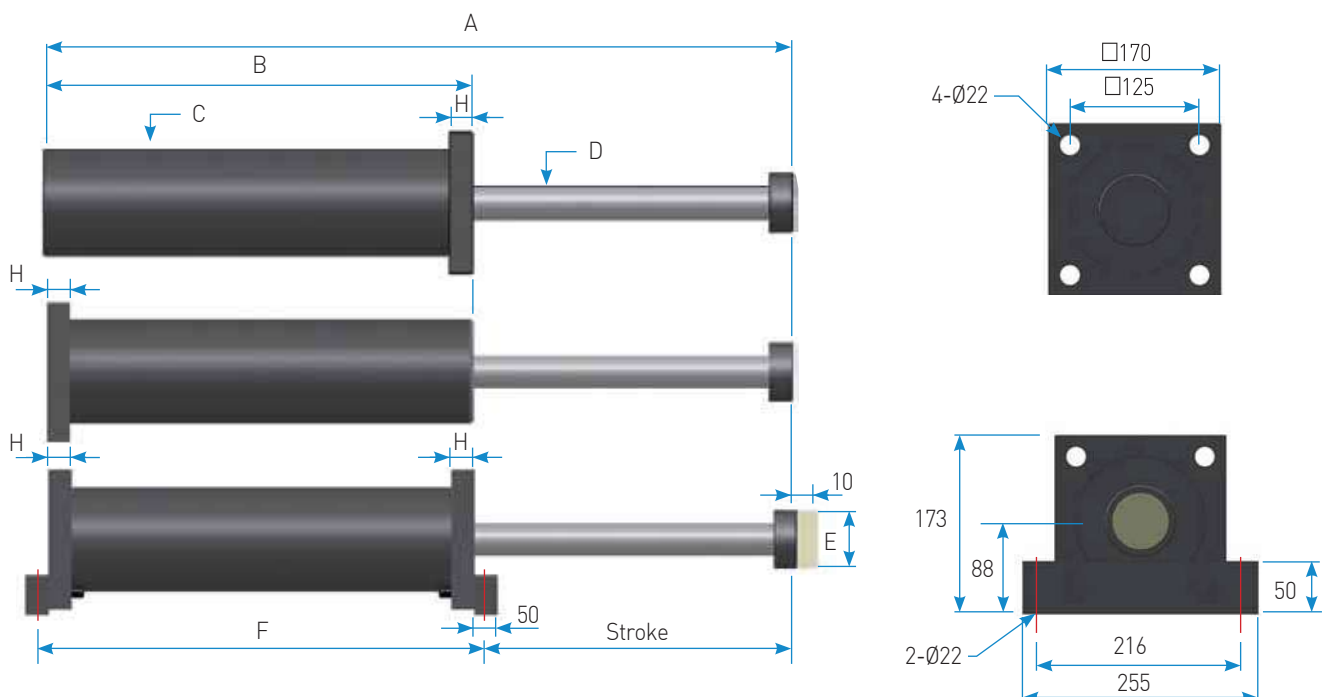
Model	Stroke (mm)	Max. Energy / Cycle (kJ) $E_T$	Max. Energy / Hour (kJ/hr) $E_{T,C}$	Max. Buffer Force (kN) $F_S$	Dimension [unit:mm]							
					A	B	C	D	E	F	G	H
ISC110-50	50	5	290	115	370	203	Ø110	40	60	270	120	25
-100	100	10	560	115	470	280	Ø110	40	60	320	170	25
-150	150	15	880	115	553	339	Ø110	40	60	379	194	25
-200	200	20	930	115	655	390	Ø110	40	60	430	245	25
-250	250	25	1,050	115	757	441	Ø110	40	60	481	296	25
-300	300	29	1,180	115	859	492	Ø110	40	60	532	347	25
-350	350	34	1,350	115	960	543	Ø110	40	60	583	397	25
-400	400	39	1,510	115	1,062	594	Ø110	40	60	634	448	25
-450	450	44	1,680	115	1,164	645	Ø110	40	60	685	499	25
-500	500	49	1,840	115	1,265	695	Ø110	40	60	735	550	25
-600	600	59	2,160	115	1,469	797	Ø110	40	60	837	652	25
-700	700	69	2,480	115	1,672	899	Ø110	40	60	937	753	25
-800	800	79	2,800	115	1,953	1,079	Ø110	40	60	1,119	854	25
-900	900	88	3,130	115	2,151	1,179	Ø110	40	60	1,219	952	25
-1000	1000	73	3,480	92	2,351	1,279	Ø110	40	60	1,319	1,052	25
-1200	1200	60	2,750	63	2,751	1,479	Ø110	40	60	1,519	1,252	25
-1400	1400	41	1,910	37	3,171	1,689	Ø110	40	60	1,729	1,462	25





## Engineering Data & Dimensions

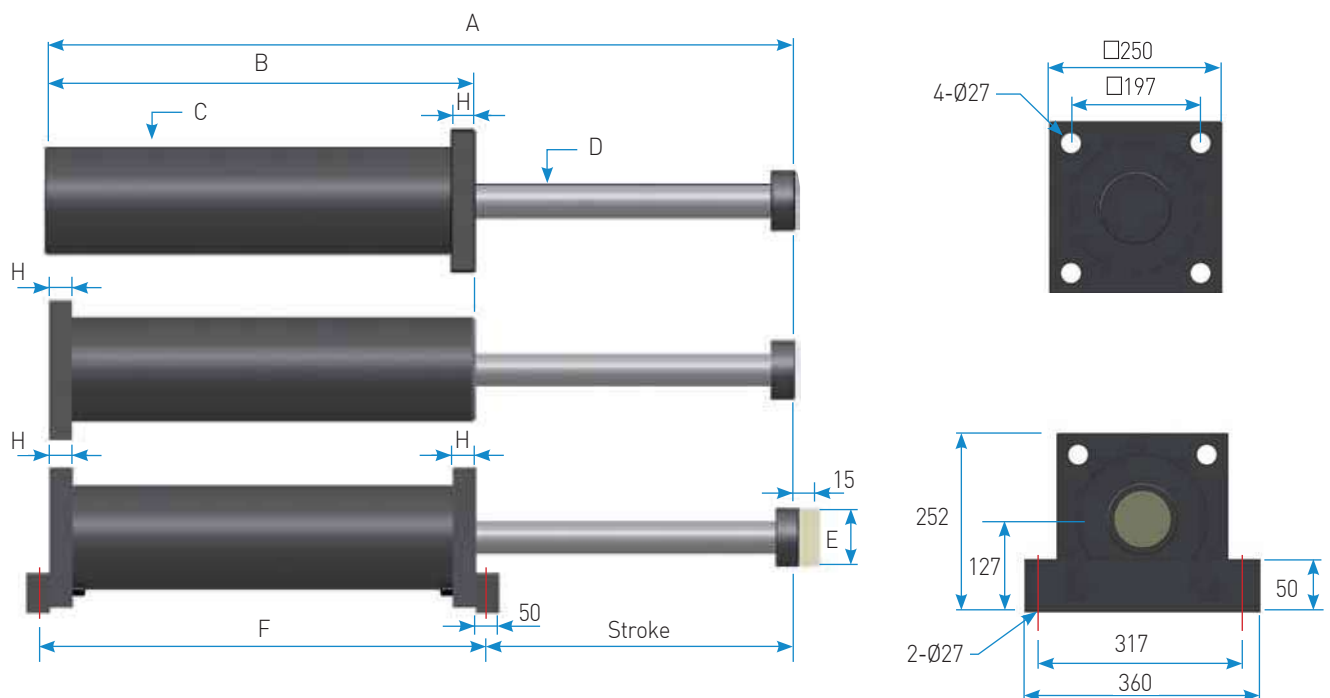
Model	Stroke (mm)	Max. Energy / Cycle (kJ) $E_T$	Max. Energy / Hour (kJ/hr) $E_{T,C}$	Max. Buffer Force (kN) $F_s$	Dimension [unit:mm]							
					A	B	C	D	E	F	G	H
ISC130 - 50	50	10	590	245	336	260	138	45	70	310	112	25
-75	75	15	650	245	387	285	138	45	70	335	137	25
-125	125	25	810	245	489	335	138	45	70	385	187	25
-200	200	39	1,110	245	640	410	138	45	70	460	262	25
-250	250	49	1,310	245	742	460	138	45	70	510	312	25
-300	300	58	1,510	245	844	511	138	45	70	561	362	25
-350	350	68	1,730	245	995	558	138	45	70	608	412	25
-400	400	78	1,930	245	1,097	609	138	45	70	659	463	25
-450	450	88	2,130	245	1,199	660	138	45	70	710	514	25
-500	500	97	2,320	245	1,301	711	138	45	70	761	565	25
-600	600	116	2,710	245	1,504	812	138	45	70	862	667	25
-700	700	136	3,100	245	1,707	914	138	45	70	964	768	25
-800	800	155	3,480	215	1,910	1,015	138	45	70	1,065	870	25
-900	900	167	3,780	181	2,156	1,164	138	45	70	1,214	967	25
-1000	1,000	117	3,820	147	2,356	1,264	138	45	70	1,314	1,067	25
-1200	1,200	103	4,720	107	2,756	1,464	138	45	70	1,514	1,267	25
-1400	1,400	73	2,850	66	3,156	1,664	138	45	70	1,714	1,467	25
-1500	1,500	66	2,430	55	3,384	1,778	138	45	70	1,828	1,581	25



# ISC200 Series

## ■ Engineering Data & Dimensions

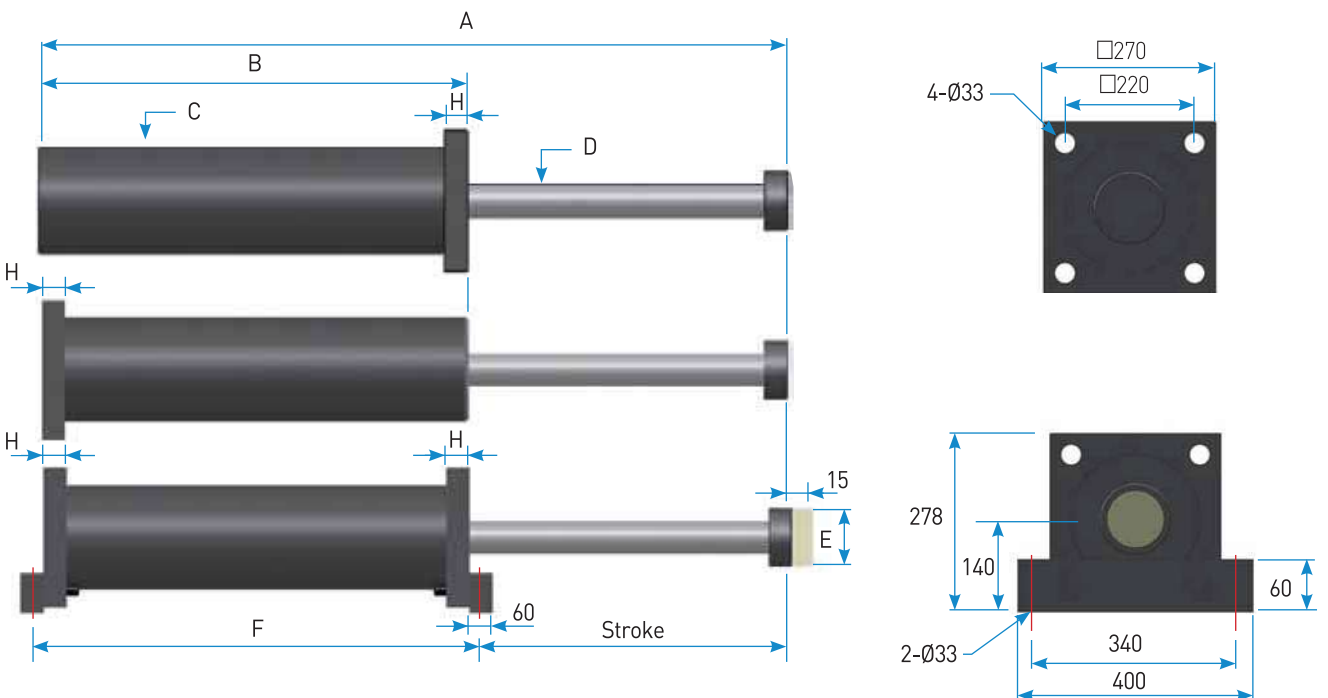
Model	Stroke (mm)	Max. Energy / Cycle (kJ) $E_T$	Max. Energy / Hour (kJ/hr) $E_{T,C}$	Max. Buffer Force (kN) $F_S$	Dimension [unit:mm]							
					A	B	C	D	E	F	G	H
ISC200 - 50	50	16	940	370	430	394	200	65	100	444	115	40
- 100	100	31	1,530	370	532	445	200	65	100	495	164	40
- 150	150	47	1,750	370	632	495	200	65	100	545	215	40
- 200	200	63	1,980	370	735	547	200	65	100	597	263	40
- 250	250	79	2,210	370	836	597	200	65	100	647	314	40
- 300	300	93	2,850	370	1,032	642	200	65	100	692	365	40
- 400	400	126	3,300	370	1,234	743	200	65	100	793	466	40
- 500	500	157	3,750	370	1,438	845	200	65	100	895	568	40
- 600	600	188	4,210	370	1,642	947	200	65	100	997	670	40
- 700	700	220	4,660	370	1,844	1,048	200	65	100	1,098	771	40
- 800	800	251	5,110	370	2,048	1,150	200	65	100	1,200	873	40
- 900	900	283	5,560	370	2,252	1,252	200	65	100	1,302	975	40
- 1000	1,000	240	6,110	300	2,454	1,353	200	65	100	1,403	1,076	40
- 1200	1,200	210	4,920	200	2,854	1,553	200	65	100	1,603	1,276	40





## Engineering Data & Dimensions

Model	Stroke (mm)	Max. Energy / Cycle (kJ) $E_T$	Max. Energy / Hour (kJ/hr) $E_{T,C}$	Max. Buffer Force (kN) $F_s$	Dimension [unit:mm]							
					A	B	C	D	E	F	G	H
ISC215 - 100	100	48	1,800	560	591	375	215	80	125	435	186	40
- 150	150	72	2,050	560	693	426	215	80	125	486	237	40
- 200	200	96	2,290	560	795	477	215	80	125	537	288	40
- 250	250	120	2,530	560	895	527	215	80	125	587	338	40
- 300	300	143	2,750	560	997	578	215	80	125	638	389	40
- 400	400	191	3,260	560	1,201	680	215	80	125	740	491	40
- 500	500	239	4,230	560	1,504	882	215	80	125	942	592	40
- 600	600	287	4,740	560	1,708	984	215	80	125	1,044	694	40
- 700	700	334	5,200	560	1,910	1,085	215	80	125	1,145	795	40
- 800	800	382	5,690	560	2,114	1,187	215	80	125	1,247	897	40
- 1000	1,000	478	6,680	560	2,520	1,390	215	80	125	1,450	1,100	40
- 1200	1,200	417	6,250	435	2,920	1,590	215	80	125	1,650	1,300	40



# ISC275 Series

## ■ Engineering Data & Dimensions

Model	Stroke (mm)	Max. Energy / Cycle (kJ) $E_T$	Max. Energy / Hour (kJ/hr) $E_{TC}$	Max. Buffer Force (kN) $F_S$	Dimension [unit:mm]							
					A	B	C	D	E	F	G	H
ISC275 - 100	100	78	2,440	915	637	391	275	100	160	461	211	50
- 150	150	117	2,760	915	737	441	275	100	160	511	261	50
- 200	200	156	3,050	915	839	492	275	100	160	562	312	50
- 250	250	194	3,370	915	941	543	275	100	160	613	363	50
- 300	300	233	3,760	915	1,043	594	275	100	160	664	414	50
- 400	400	311	4,300	915	1,246	696	275	100	160	766	515	50
- 500	500	389	4,930	915	1,450	798	275	100	160	868	617	50
- 600	600	467	6,180	915	1,769	1,015	275	100	160	1,085	719	50
- 750	750	583	7,110	915	2,073	1,167	275	100	160	1,237	871	50
- 900	900	700	8,040	915	2,379	1,320	275	100	160	1,390	1,024	50
- 1050	1,050	816	8,970	915	2,683	1,472	275	100	160	1,542	1,176	50
- 1200	1,200	790	8,060	827	2,989	1,625	275	100	160	1,695	1,329	50

