

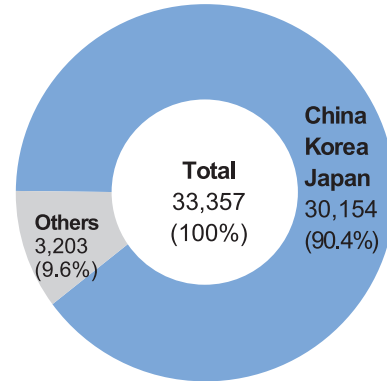
## ● Global Periscope by Country & Region

### Big 3 Account for 90.4% of Global Ship Completions in 2016

Three Northeast Asian countries -- Korea, China and Japan -- scored a combined 30.15 million CGT in shipbuilding completions in 2016, accounting for 90.4% of the global total.

The annual global tonnage of completions was up 820,000 CGT compared with the preceding year. China's shipbuilding completions reached 11.585 million CGT in 2016, narrowly outpacing Korea's 11.584 million CGT, according to data from KOSHIPA, which quoted World Shipbuilding Statistics (IHS-Fairplay) as its source.

Unit: 1,000 CGT



(Unit: 1,000 CGT)

Country	2011	2012	2013	2014	2015	2016
Korea	15,797	13,391	11,395	10,120	11,033	11,584
China	19,198	19,331	11,784	10,193	11,558	11,585
Japan	9,160	8,350	6,828	6,585	6,591	6,984
Denmark	63					
France	6	152	199	2	332	197
Germany	393	471	366	391		436
Greece	14		0		252	
Italy	443	366	177	294	54	492
Netherlands	187	137	53	6		221
U.K.						
Finland	42	71	48	109	109	137
Sweden						
Spain	251					120
Portugal	2					
Poland	116	150	77	75	41	157
Romania	364	328	205	112	179	521
Norway	29					
Croatia	258	125	55	57	46	58
U.S.A.	84	205	47	71	179	377
Brazil	117	179	49	60	143	225
Taiwan	395	440	262	303	430	263
World	51,004	47,918	38,349	37,747	32,537	33,357

Source: Lloyd's World Shipbuilding Statistics (IHS-Fairplay), KOSHIPA

# Shipbuilding Completions

## ● Korean Performance by Year

### Exports Account for 95% of Total Shipbuilding Performance

Korean shipbuilding completions reached 9.9 million CGT in 2016, breaking down to 9.44 million CGT for export and 459,506 CGT for domestic delivery, according to KOSHIPA. The 2016 total figure accounted for thin 7% of the record-high 13.6 million registered in 2011.

Year	Category	Domestic		Overseas			Total			
		Ships	GT	CGT	Ships	GT	CGT	Ships	GT	CGT
'01		1	990	4,950	206	11,793,289	6,441,664	207	11,794,279	6,446,614
'02		1	15,900	18,285	209	12,971,808	6,805,870	210	12,987,708	6,824,155
'03					223	13,602,868	7,264,881	223	13,602,868	7,264,881
'04		1	8,813	10,576	259	15,134,164	8,716,096	260	15,142,977	8,726,672
'05		4	35,122	38,100	281	17,319,759	10,171,085	285	17,354,881	10,209,185
'06		1	9,522	8,570	314	17,773,668	11,096,597	315	17,783,190	11,105,167
'07					340	18,954,943	10,294,146	340	18,954,943	10,294,146
'08		8	370,350	305,123	368	22,749,019	12,160,870	376	23,119,369	12,465,993
'09		8	381,700	157,584	382	24,421,085	12,103,400	390	24,802,785	12,260,984
'10		15	1,124,172	465,649	361	25,272,842	12,233,448	376	26,397,014	12,677,603
'11		20	1,550,670	591,072	406	28,313,470	12,968,020	426	29,864,140	13,559,092
'12		13	698,647	294,709	363	27,253,162	11,429,278	376	27,951,809	11,723,986
'13		19	1,188,366	495,703	282	20,036,208	9,541,069	301	21,224,574	10,036,772
'14		41	1,895,576	924,059	236	18,493,664	9,371,710	277	20,389,921	10,295,769
'15		16	1,050,543	424,600	267	18,947,722	9,652,041	283	19,998,265	10,076,641
'16		24	1,016,232	469,506	267	20,918,504	9,438,008	291	21,934,736	9,907,514

Source: KOSHIPA



## ● Korean Performance by Shipyard

### Top 3 Shipyards Account for 58.4% of Shipbuilding Completions

Korea's top 3 shipyards -- Hyundai H.I., Daewoo, and Samsung -- scored a combined 5.79 million CGT in shipbuilding completions, which accounted for 58.4% of the national total. The rate was a slight 1.8 percentage points higher than the preceding year's 56.6%.

2014

Company	Category	Domestic		Overseas		Total	
		Ships	CGT	Ships	CGT	Ships	CGT
Hyundai Heavy Industries Co., Ltd.		3	99,079	51	2,419,560	54	2,518,639
Daewoo Shipbuilding & Marine Engineering Co., Ltd.		4	241,845	41	2,342,390	45	2,584,235
Samsung Heavy Industries Co., Ltd.		1	27,729	33	1,655,698	34	1,683,427
Hyundai Samho Heavy Industries Co., Ltd.		6	221,742	24	1,149,900	30	1,371,642
Hyundai Mipo Dockyard Co., Ltd.		19	294,305	57	1,036,506	76	1,330,811
STX Offshore & Shipbuilding Co., Ltd.		2	6,612	18	562,455	20	569,067
ShinaSB Yard Co., Ltd.				1	16,872	1	16,872
Dae Sun Shipbuilding & Engineering Co., Ltd.		2	19,807	9	125,950	11	145,757
Sungdong Shipbuilding & Marine Engineering Co., Ltd.		4	12,940	2	62,378	6	75,318
<b>Total</b>		<b>41</b>	<b>924,059</b>	<b>236</b>	<b>9,371,709</b>	<b>277</b>	<b>10,295,768</b>

2015

Company	Category	Domestic		Overseas		Total	
		Ships	CGT	Ships	CGT	Ships	CGT
Hyundai Heavy Industries Co., Ltd.		1	41,939	51	2,342,142	52	2,384,081
Daewoo Shipbuilding & Marine Engineering Co., Ltd.				34	1,606,355	34	1,606,355
Samsung Heavy Industries Co., Ltd.				32	1,708,518	32	1,708,518
Hyundai Samho Heavy Industries Co., Ltd.		6	218,586	25	1,134,131	31	1,352,718
Hanjin Heavy Industries & Construction Co., Ltd.		1	28,398	2	62,667	3	91,064
Hyundai Mipo Dockyard Co., Ltd.		8	135,677	71	1,266,074	79	1,401,752
STX Offshore & Shipbuilding Co., Ltd.				33	1,048,421	33	1,048,421
Dae Sun Shipbuilding & Engineering Co., Ltd.				2	43,129	2	43,129
Sungdong Shipbuilding & Marine Engineering Co., Ltd.				17	440,604	17	440,603
<b>Total</b>		<b>16</b>	<b>424,600</b>	<b>267</b>	<b>9,652,041</b>	<b>283</b>	<b>10,076,641</b>

2016

Company	Category	Domestic		Overseas		Total	
		Ships	CGT	Ships	CGT	Ships	CGT
Hyundai Heavy Industries Co., Ltd.		2	70,638	56	2,330,704	58	2,401,342
Daewoo Shipbuilding & Marine Engineering Co., Ltd.				40	1,940,596	40	1,940,596
Samsung Heavy Industries Co., Ltd.				25	1,446,750	25	1,446,750
Hyundai Samho Heavy Industries Co., Ltd.		5	150,742	38	1,705,872	43	1,856,614
Hanjin Heavy Industries & Construction Co., Ltd.		4	113,439	5	131,186	9	244,624
Hyundai Mipo Dockyard Co., Ltd.		2	17,218	65	1,052,525	67	1,069,743
Dae Sun Shipbuilding & Engineering Co., Ltd.		10	88,726	3	22,676	13	111,402
Sungdong Shipbuilding & Marine Engineering Co., Ltd.		1	28,743	35	807,700	36	836,443
<b>Total</b>		<b>24</b>	<b>469,506</b>	<b>267</b>	<b>9,438,008</b>	<b>291</b>	<b>9,907,514</b>

# Shipbuilding Completions

## ● Korean Performance by Ship Type

### Containerships Register Most Shipbuilding Completion in 2016

Containerships brought the most biggest omlpletions of Korean shipyards in 2015 with a combined tonnage of 3.48 million CGT, according to KOSHIPA tally on 2015 Korean shipbuildings completion, performance by shipyard followed by LNG carriers with 1.84 million CGT and product carier with 1.7 million CGT.

2014

Ship Type	Category	Domestic		Overseas		Total	
		Ships	CGT	Ships	CGT	Ships	CGT
Tanker		1	44,642	19	553,843	20	598,485
Product Carrier		14	238,181	51	935,160	65	1,173,341
Chemical Tanker							
Bulk Carrier		2	74,992	16	367,843	18	442,835
Containership		12	345,504	63	3,684,502	75	4,030,006
LNG Carrier				26	2,128,660	26	2,128,660
LPG Carrier		1	28,699	12	288,228	13	316,927
Car Carrier				9	285,010	9	285,010
Drillship				20	646,931	20	646,931
Others		11	192,041	20	481,532	31	673,574
Total		41	924,059	236	9,371,709	277	10,295,769

2015

Ship Type	Category	Domestic		Overseas		Total	
		Ships	CGT	Ships	CGT	Ships	CGT
Tanker		2	89,285	17	431,648	19	520,932
Product Carrier		7	119,303	86	1,569,921	93	1,689,224
Chemical Tanker							
Bulk Carrier		3	100,225	16	501,063	19	601,289
Containership		1	16,374	62	3,468,395	63	3,484,769
LNG Carrier				22	1,837,404	22	1,837,404
LPG Carrier				36	887,774	36	887,774
Car Carrier		3	99,413	3	69,133	6	168,546
Drillship				9	355,664	9	355,664
Others				16	531,039	16	531,039
Total		16	424,600	267	9,652,041	283	10,076,641

2016

Ship Type	Category	Domestic		Overseas		Total	
		Ships	CGT	Ships	CGT	Ships	CGT
Tanker		4	57,545	55	1,919,202	59	1,976,747
Product Carrier		3	53238	70	1,169,430	73	1,222,668
Chemical Tanker		1	6,474			1	6,474
Bulk Carrier		5	142,182	18	535,769	23	677,950
Containership		6	74,061	40	2,227,806	46	2,301,867
LNG Carrier				22	1,920,756	22	1,920,756
LPG Carrier		1	28,699	46	1,217,252	47	1,245,951
Car Carrier		3	104,803	4	151,110	7	255,913
Drillship				1		1	
Others		1	2,504	11	296,683	12	299,188
Total		24	469,506	267	9,438,008	291	9,907,514

Source: KOSHIPA