

HEARTLAND FABRICATION
1800 Paul Thomas Boulevard
Brownsville, PA 15417



April 16, 2026

Customer: BKM Marine
 Barge Names: (HBM 3196-3225) (Hulls 2231-2260)
 Barge Design: B-161
 Barge Length - ft: 200.00
 Barge Width - ft: 35.00
 Barge Depth - ft: 13.00
 Coaming height - ft 4.00

Rake Hopper Barge

SHORT TONS CARGO													
FEET →	1	2	3	4	5	6	7	8	9	10	11	12	13
INCHES ↓													
0	-	87	288	492	698	906	1,115	1,326	1,539	1,753	1,968	2,184	2,402
1	-	103	305	509	715	923	1,133	1,344	1,557	1,770	1,986	2,203	-
2	-	120	322	526	733	941	1,150	1,362	1,574	1,788	2,004	2,221	-
3	-	137	339	543	750	958	1,168	1,379	1,592	1,806	2,022	2,239	-
4	-	154	356	561	767	976	1,186	1,397	1,610	1,824	2,040	2,257	-
5	-	171	373	578	785	993	1,203	1,415	1,628	1,842	2,058	2,275	-
6	-	187	390	595	802	1,011	1,221	1,432	1,646	1,860	2,076	2,293	-
7	4	204	407	612	819	1,028	1,238	1,450	1,663	1,878	2,094	2,311	-
8	21	221	424	629	836	1,045	1,256	1,468	1,681	1,896	2,112	2,330	-
9	37	238	441	646	854	1,063	1,274	1,486	1,699	1,914	2,130	2,348	-
10	54	254	458	664	871	1,080	1,291	1,503	1,717	1,932	2,148	2,366	-
11	70	271	475	681	888	1,098	1,309	1,521	1,735	1,950	2,166	2,384	-

Table for average reading with barge afloat on even keel, FRESH water = 302.33 SHORT TONS barge weight
 Cargo Hopper Volume = 77,391 Cu. Ft. (Struck)

B-161 Rake Hopper without Covers

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SHORT TONS CARGO													
FEET →	1	2	3	4	5	6	7	8	9	10	11	12	13
INCHES ↓													
0	-	77	278	482	688	896	1,105	1,316	1,529	1,743	1,958	2,174	2,392
1	-	93	295	499	705	913	1,123	1,334	1,547	1,760	1,976	2,193	-
2	-	110	312	516	723	931	1,140	1,352	1,564	1,778	1,994	2,211	-
3	-	127	329	533	740	948	1,158	1,369	1,582	1,796	2,012	2,229	-
4	-	144	346	551	757	966	1,176	1,387	1,600	1,814	2,030	2,247	-
5	-	161	363	568	775	983	1,193	1,405	1,618	1,832	2,048	2,265	-
6	-	177	380	585	792	1,001	1,211	1,422	1,636	1,850	2,066	2,283	-
7	-	194	397	602	809	1,018	1,228	1,440	1,653	1,868	2,084	2,301	-
8	11	211	414	619	826	1,035	1,246	1,458	1,671	1,886	2,102	2,320	-
9	27	228	431	636	844	1,053	1,264	1,476	1,689	1,904	2,120	2,338	-
10	44	244	448	654	861	1,070	1,281	1,493	1,707	1,922	2,138	2,356	-
11	60	261	465	671	878	1,088	1,299	1,511	1,725	1,940	2,156	2,374	-

Table for average reading with barge afloat on even keel, FRESH water = 312.33 SHORT TONS = barge weight plus 10 tons for fiberglass covers
 Cargo Hopper Volume = 77,391 Cu. Ft. (Struck)

B-161 Rake Hopper with Covers