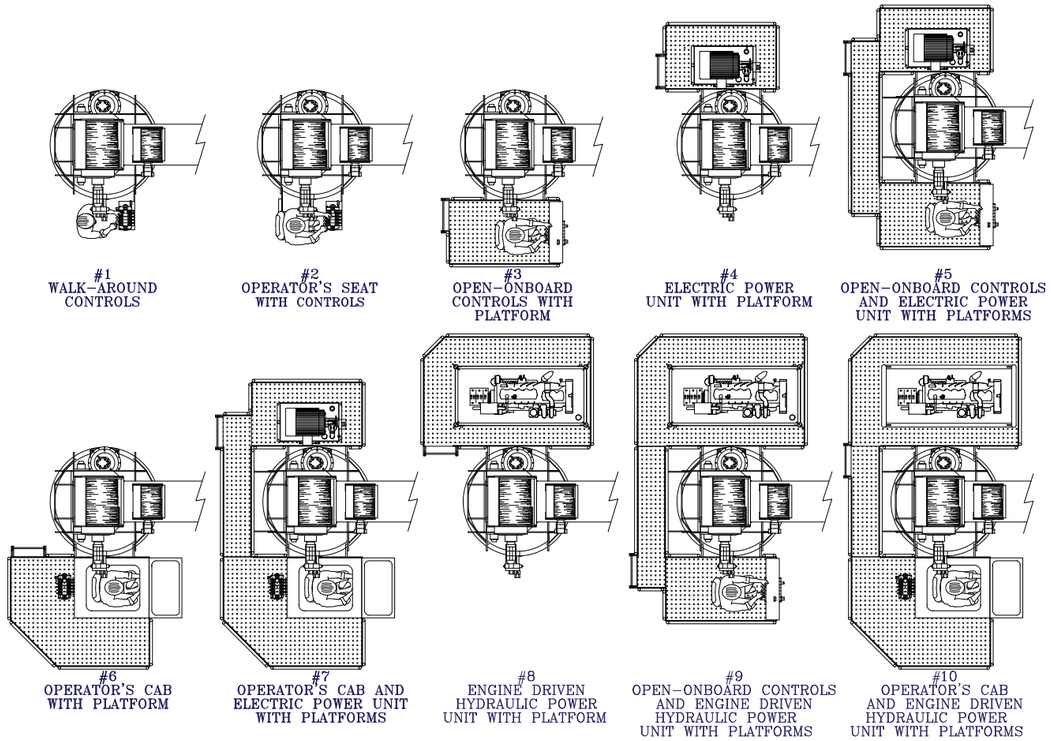
EBI® CRANES

MODEL TC60-43-73 CRANES AVAILABLE CONFIGURATIONS



TAIL SWING CHART @ 0° BOOM ANGLE *

CONFIGURATION	MAXIMUM TAIL SWING	CONFIGURATION	MAXIMUM TAIL SWING	CONFIGURATION	MAXIMUM TAIL SWING	CONFIGURATION	MAXIMUM TAIL SWING
1	4'-10" Radius	4	7'-4" Radius	7	9'-3" Radius	10	9'-8" Radius
2	5'-4" Radius	5	9'-3" Radius	8	9'-8" Radius	*TAIL SWING VALUES MAY BE EXCEEDED DEPENDING UPON WINCH MOUNT OPTIONS	
3	7'-4" Radius	6	9'-8" Radius	9	9'-8" Radius		

CRANE TGB73 GEARBOXES

TC60-34-73 CRANE BOOM

CRANE WALKAROUND CONTROLS

ELEVATING BOATS LLC

Corporate/EBI Liftboats, LLC. - 201 Dean Court - Houma, LA 70363
Phone: (985) 868-9655 Fax: (985) 868-9656

EBI Cranes, LLC. - 900 St. Bernard Pkwy. - Braithwaite, LA 70040
Phone: (504) 682-5245 Fax: (504) 682-5296

EBI Machining, LLC. - 40495 West I-55 Service Road - Ponchatoula, LA 70454
Phone: (985) 386-2053 Fax: (985) 386-2084

Email: postmaster@ebi-inc.com Website: www.ebi-inc.com

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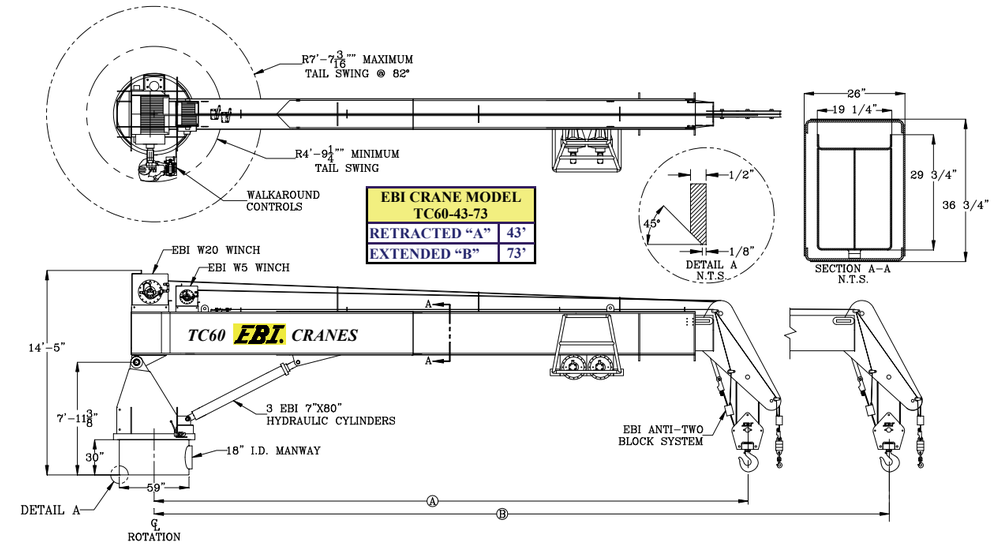
EBI® CRANES

MODEL TC60-43-73 TELESCOPIC BOOM CRANES



STANDARD EQUIPMENT:
EBI CRANES ARE LICENSED MONOGRAM CRANES UNDER API-2C SPECIFICATIONS.
EBI CRANES MEET OSHA REQUIREMENTS.
PLANETARY SWING MECHANISM WITH ADJUSTABLE MOUNT, HIGH TORQUE MOTOR AND AUTOMATIC SPRING APPLIED BRAKES.
DOUBLE HYDRAULIC SWIVEL FOR CONTINUOUS ROTATION.
INDUCTION HARDENED CHROME PLATED CYLINDER RODS.
18" I.D. MANWAY WITH BOLTED COVER.
THREE COLOR, SAFE LOAD INDICATOR GAUGE.
RACK AND PINION TELESCOPIC SYSTEM. THERE ARE NO INTERNAL BOOM CYLINDERS.
LOAD LINE WINCH: 2 SPEED MOTOR.
THREE COAT MARINE PAINT SYSTEM.
ANTI-FRICTION BEARINGS IN THE SHEAVES.
BRONZE BUSHINGS ON ALL PIVOTING POINTS.
LOAD TEST AT TWICE API OFFBOARD LOAD BEFORE SHIPPING.

EBI PRODUCTS AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATIONS.

OPTIONAL EQUIPMENT:
EBI CRANES TO MEET ABS AND OSHA REQUIREMENTS.
CRANE CONTROL LOCATIONS - PEDESTAL MOUNTED WALKAROUND - REMOTELY LOCATED - CAB MOUNTED JOY STICK TYPE - VARIOUS PLATFORM CONFIGURATIONS
SOLAR/BATTERY POWERED BOOM BEACONS.
BOOM LIGHTING.
COMPLETE HYDRAULIC SAFETY SYSTEM DETECTING THE MOMENT INDUCTED BY LOAD ON THE CRANE TO HELP PREVENT OVERLOAD CONDITION.
POWER UNITS CAN BE CRANE MOUNTED OR REMOTELY LOCATED.
POWER UNITS: ELECTRIC MOTOR, AIR MOTOR, OR DIESEL ENGINE (DETROIT DIESEL, CUMMINS, CATERPILLAR, DEUTZ AIR COOLED, ETC.).
DIESEL ENGINE STARTER SYSTEMS: ELECTRIC, AIR OR HYDRAULIC.
AIR/HYDRAULIC OIL HEAT EXCHANGER.
17-4 PH STAINLESS STEEL, HEAT TREATED, CHROME PLATED CYLINDER RODS.
440C STAINLESS STEEL, HEAT TREATED PINS.
FAST LINE WINCH DESIGNED FOR PERSONNEL HANDLING. WINCH CAPACITY IS 5000 LB. LINE PULL. (1000 LB. FOR PERSONNEL)
ANTI-TWO BLOCK SYSTEM.
EMERGENCY LOAD LOWERING SYSTEM.

EBI Cranes, LLC.

Made in U.S.A.

900 St. Bernard Pkwy. Braithwaite, LA 70040
Phone: (504) 682-5245 Fax (985) 386-2084
Email: cranes@ebi-inc.com Website: www.ebi-inc.com
1-800-843-2895

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EBI® CRANES

MODEL TC60-43-73 TELESCOPIC BOOM CRANES

(U.S. CUSTOMARY UNITS)

MODEL TC60-43-73 API LOAD CHART 43 FT. RETRACTED

BASIC CRANE WEIGHT: 37,500 LBS.

REACH (FT.)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (LBS.)	ONBOARD LOAD (LBS.)	REACH (FT.)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (LBS.)	ONBOARD LOAD (LBS.)
10	76	76300	78700	30	45	21200	32450
15	69	47950	72575	35	35	17850	27425
20	62	34300	52100	40	21	15100	23300
25	54	26400	40250	43	1	13800	21350

API PEDESTAL REACTIONS
(REACTIONS @ 3 X OFFBOARD RATED LOAD)
(OTM = OVERTURNING MOMENT)

MAXIMUM OTM = 2,775,888 FT. LBS.
CORRESPONDING AXIAL FORCE = 267,662 LBS.
MAXIMUM AXIAL FORCE = 267,662 LBS.
CORRESPONDING OTM = 2,775,888 FT. LBS.

MODEL TC60-43-73 API LOAD CHART 53 FT. EXTENDED

REACH (FT.)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (LBS.)	ONBOARD LOAD (LBS.)	REACH (FT.)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (LBS.)	ONBOARD LOAD (LBS.)
10	79	55500	78500	35	49	17500	27000
15	73	45500	69000	40	42	15000	23300
20	68	33500	51000	45	32	12800	19900
25	62	26300	40200	50	20	11000	17300
30	56	21000	32300	53	1	10300	16200

API PEDESTAL REACTIONS
(REACTIONS @ 3 X OFFBOARD RATED LOAD)
(OTM = OVERTURNING MOMENT)

MAXIMUM OTM = 2,485,212 FT. LBS.
CORRESPONDING AXIAL FORCE = 71,772 LBS.
MAXIMUM AXIAL FORCE = 207,522 LBS.
CORRESPONDING OTM = 1,995,566 FT. LBS.

MODEL TC60-43-73 API LOAD CHART 65 FT. EXTENDED

REACH (FT.)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (LBS.)	ONBOARD LOAD (LBS.)	REACH (FT.)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (LBS.)	ONBOARD LOAD (LBS.)
10	81	42000	63800	40	51	14800	22900
15	76	33000	50300	45	45	12800	19900
20	71	27000	41300	50	38	11000	17300
25	67	23500	36000	55	30	9800	15400
30	62	20500	31500	60	18	8800	13900
35	56	17300	26700	65	1	7800	12400

API PEDESTAL REACTIONS
(REACTIONS @ 3 X OFFBOARD RATED LOAD)
(OTM = OVERTURNING MOMENT)

MAXIMUM OTM = 2,573,991 FT. LBS.
CORRESPONDING AXIAL FORCE = 67,273 LBS.
MAXIMUM AXIAL FORCE = 167,023 LBS.
CORRESPONDING OTM = 1,538,589 FT. LBS.

MODEL TC60-43-73 API LOAD CHART 73 FT. EXTENDED

REACH (FT.)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (LBS.)	ONBOARD LOAD (LBS.)	REACH (FT.)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (LBS.)	ONBOARD LOAD (LBS.)
10	82	39000	59300	45	52	11800	18400
15	78	28500	43500	50	47	10700	16700
20	74	23500	36000	55	41	9500	15000
25	70	19900	30600	60	35	8800	13900
30	66	17300	26700	65	27	8000	12800
35	61	14800	22900	70	17	7000	11300
40	57	13300	20700	73	1	6800	10900

API PEDESTAL REACTIONS
(REACTIONS @ 3 X OFFBOARD LOAD)
(OTM=OVERTURNING MOMENT)

MAXIMUM OTM = 2,585,854 FT. LBS.
CORRESPONDING AXIAL FORCE = 61,271 LBS.
MAXIMUM AXIAL FORCE = 156,980 LBS.
CORRESPONDING OTM = 1,427,061 FT. LBS.

IN ACCORDANCE WITH API-2C, VALUES SHOWN ARE ACTUAL HOOK LOAD (WEIGHT OF BLOCK AND HOOK EXCLUDED).

LOAD LINE BLOCK WEIGHT IS 1300 LBS.

LOAD LINE (4 PART LINE): 1" 6X25 EIPS IWRC; 100,000 LB. BREAKING STRENGTH; 20,000 LB. WORKING STRENGTH.

FAST LINE BLOCK WEIGHT IS 110 LBS.

FAST LINE (1 PART LINE): 9/16" 19X7 EIPS IWRC; 25,000 LB. BREAKING STRENGTH; 5,000 LB. WORKING STRENGTH.

ONBOARD LOAD = 1.5 X OFFBOARD LOAD.

PEDESTAL REACTIONS ARE BASED ON THREE TIMES THE OFFBOARD LOAD PLUS DEAD LOAD

EBI® CRANES

MODEL TC60-43-73 TELESCOPIC BOOM CRANES

(INTERNATIONAL METRIC UNITS)

MODEL TC60-43-73 API LOAD CHART 13.1 METERS RETRACTED

BASIC CRANE WEIGHT: 17,010 KGS.

REACH (METERS)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (KGS.)	ONBOARD LOAD (KGS.)	REACH (METERS)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (KGS.)	ONBOARD LOAD (KGS.)
3.0	76	34610	35698	9.1	45	9616	14719
4.6	69	21750	32920	10.7	35	8097	12440
6.1	62	15558	23633	12.2	21	6849	10569
7.6	54	11975	18257	13.1	1	6260	9684

API PEDESTAL REACTIONS
(REACTIONS @ 3 X OFFBOARD RATED LOAD)
(OTM = OVERTURNING MOMENT)

MAXIMUM OTM = 384 TON-METERS
CORRESPONDING AXIAL FORCE = 121,411 KGS
MAXIMUM AXIAL FORCE = 121,411 KGS
CORRESPONDING OTM = 384 TON METERS

MODEL TC60-43-73 API LOAD CHART 16.1 METERS EXTENDED

REACH (METERS)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (KGS.)	ONBOARD LOAD (KGS.)	REACH (METERS)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (KGS.)	ONBOARD LOAD (KGS.)
3.0	79	25175	35608	10.7	49	7938	12247
4.6	73	20639	31298	12.2	42	6804	10569
6.1	68	15196	23134	13.7	32	5806	9027
7.6	62	11930	18235	15.2	20	4990	7847
9.1	56	9526	14651	16.2	1	4672	7348

API PEDESTAL REACTIONS
(REACTIONS @ 3 X OFFBOARD RATED LOAD)
(OTM = OVERTURNING MOMENT)

MAXIMUM OTM = 344 TON-METERS
CORRESPONDING AXIAL FORCE = 32,556 KGS
MAXIMUM AXIAL FORCE = 94,132 KGS
CORRESPONDING OTM = 276 TON METERS

MODEL TC60-43-73 API LOAD CHART 19.8 METERS EXTENDED

REACH (METERS)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (KGS.)	ONBOARD LOAD (KGS.)	REACH (METERS)	BOOM ANGLE (DEG.)	ONBOARD LOAD (KGS.)	ONBOARD LOAD (KGS.)
3.0	81	19051	28940	12.2	51	6713	10387
4.6	76	14969	22816	13.7	45	5806	9027
6.1	71	12247	18734	15.2	38	4990	7847
7.6	67	10660	16330	16.8	30	4445	6985
9.1	62	9300	14288	18.3	18	3992	6305
10.7	56	7847	12111	19.8	1	3538	5625

API PEDESTAL REACTIONS
(REACTIONS @ 3 X OFFBOARD RATED LOAD)
(OTM = OVERTURNING MOMENT)

MAXIMUM OTM = 356 TON-METERS
CORRESPONDING AXIAL FORCE = 30,515 KGS
MAXIMUM AXIAL FORCE = 75,762 KGS
CORRESPONDING OTM = 213 TON METERS

MODEL TC60-43-73 API LOAD CHART 22.2 METERS EXTENDED

REACH (METERS)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (KGS.)	ONBOARD LOAD (KGS.)	REACH (METERS)	BOOM ANGLE (DEG.)	OFFBOARD LOAD (KGS.)	ONBOARD LOAD (KGS.)
3.0	82	17690	26898	13.7	52	5352	8346
4.6	78	12928	19732	15.2	47	4854	7575
6.1	74	10660	16330	16.8	41	4309	6804
7.6	70	9027	13880	18.3	35	3992	6305
9.1	66	7847	12111	19.8	27	3629	5806
10.7	61	6713	10387	21.3	17	3175	5126
12.2	57	6033	9390	22.9	1	3084	4944

API PEDESTAL REACTIONS
(REACTIONS @ 3 X OFFBOARD RATED LOAD)
(OTM = OVERTURNING MOMENT)

MAXIMUM OTM = 358 TON-METERS
CORRESPONDING AXIAL FORCE = 27,793 KGS
MAXIMUM AXIAL FORCE = 71,206 KGS
CORRESPONDING OTM = 197 TON METERS

IN ACCORDANCE WITH API-2C, VALUES SHOWN ARE ACTUAL HOOK LOAD (WEIGHT OF BLOCK AND HOOK EXCLUDED).

LOAD LINE BLOCK WEIGHT IS 590 KGS.

LOAD LINE (4 PART LINE): 1" 6X25 EIPS IWRC; 45,359 KGS. BREAKING STRENGTH; 9,072 KGS. WORKING STRENGTH.

FAST LINE BLOCK WEIGHT IS 50 KGS.

FAST LINE (1 PART LINE): 9/16" 19X7 EIPS IWRC; 11,340 KGS. BREAKING STRENGTH; 2,268 KGS. WORKING STRENGTH.

ONBOARD LOAD = 1.5 X OFFBOARD LOAD.

PEDESTAL REACTIONS ARE BASED ON THREE TIMES THE OFFBOARD LOAD PLUS DEAD LOAD