

MAIN CONTENTS

Page

1

ORANGE PEEL GRABS

ELECTRO-HYDRAULIC

P-0,7	2
P-1,8	3
PR8-1,8	4
P-3N	5
PR8-3	6
P-3,5	7

HYDRAULIC

PNA-0,7	8
PNA-1,8	9
PNA-3	10

MECHANICAL

PM4-0,7	11
PM4-1,8	12
PM4-3	13

14

UNDERWATER GRABS

ELECTRO-HYDRAULIC

C2A-2,8	15
C2AE-2,8	16
C2A-P	17
PEA-1	18

19

CLAMSHELL GRABS

ELECTRO-HYDRAULIC

C2-1,1	20
C2H-1,1	21
CV2-1,1	22
C4-1,1	23
C2-1,8	24
C2H-1,8	25
CV2-1,8	26
C4-1,8	27
C2-2,8	28
C2H-2,8	29
CV2-2,8	30
C4-2,8	31

HYDRAULIC

CNAH-2,8	32
----------	----

MECHANICAL

CM1-1,8	33
CM1R-1,8	34
CM2-1,8	35
CM4-0,8	36
CM4G-0,8	37
CM4-1,1	38
CM4G-1,1	39
CM4-1,8	40
CM4-2,8	41
CM4-3,2	42

43

TONGS AND GRAPPLES

ELECTRO-HYDRAULIC

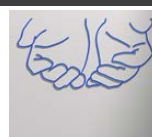
PEH-100	44
PEH-101	45
PEH-102	46
GG-103	47
PEH-104	48

ELECTRO-MECHANICAL

PEB-200	49
PED-201	50

MECHANICAL

PMB-300	51
GC-301	52
PMS-302	53
GL-303	54





BLUG

YOUR SMART HANDLING SOLUTIONS

p. 1

ORANGE PEEL
GRABS



UNDERWATER
GRABS



CLAMSHELL GRABS



TONGS AND
GRAPPLES



JAW CLOSING OPTIONS



OPENED

Recommended for
big size materials
like :

- Rocks
- Baled scrap
- Big stones
- Trunks...



HALF-OPENED
STRUCTURE

Recommended for
medium size
materials like :

- Urban solid
waste
- Medium size and
fragmented scrap
- Cast-iron...



CLOSED STRUCTURE

Recommended for
low size materials like
:

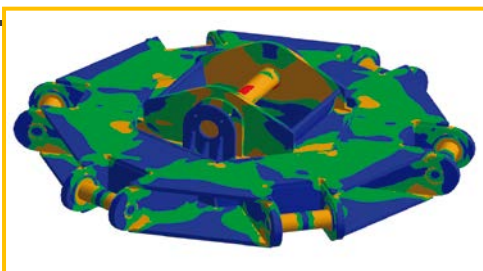
- Shaving
- Crushed tires
- Batteries
- Small ingots...

- Depending on the material to be handled there is a **recommended jaw closing degree**.
- The weight shown in the technical sheets is defined for half-opened structure.

DESIGN AND SIMULATION

- Our design office develops each design according to **F.E.M. 1001 Section I:1998, UNE-58132 and UNE-EN 13155** using the latest 3D and CAD/CAM tools.

- Each new design is validated and optimised using **Finite Elements Analysis technique** in the way to analyse fatigue effects and warranty **2.000.000 cycles** for components' and machines' working life.



ELECTRO-HYDRAULIC SYSTEM FUNCTIONING

Parker
Hydraulics

MOTOR REVERSAL		ELECTRICALLY OPERATED VALVE	
Wire quantity:	4	Wire quantity:	7
Pump type:	Piston pump (fix flow)	Pump type:	Gear pump (fix flow)
			Piston pump (fix flow)
			Piston pump (variable flow)

VARIABLE FLOW HYDRAULIC UNITS

- Electrically operated valve hydraulic units that use **variable flow piston pumps** warranty hydraulic components' working life increase **in more than 300%** in comparison with fix flow pump's functioning.
- This system **avoids oils overheating (4 times minor than with fix flow pumps)** due to Load-Sensing control. This way pumps' plate is continuously adapting its inclination in the way to **optimise the penetration force and minimise power demand (40% minor than fix flow pumps)** and increase grab's overall efficiency.

MATERIALS

- Structure manufactured in **S355 J2G3** rolled **steel** (elastic yield 510-610 N/mm²).
- **Penetration teeth in anti-wear manganese steel** (360-440 HB).
- For grabs in contact with **abrasive materials** we normally recommend to manufacture jaw shells in **wear resistant steel** (hardness up to 475 HBW).
- For grabs in contact with **corrosive materials** we recommend using **stainless steel jaw shells**.



CERTIFICATION

- Possibility to certify any model in **ATEX 1/21 or 2/22 zones for explosive atmospheres**.



More information:
www.blug.es/eng/productos/



MACHINE TYPE
ORANGE PEEL GRAB
WORKING SYSTEM
ELECTRO-HYDRAULIC
MATERIAL TO BE HANDLED



REFERENCE

P-0,7

p. 2

RELATED PRODUCTS



PNA-0,7



PEA-1,1

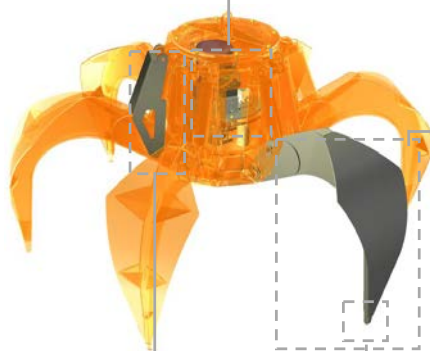


PM4-0,7

RUBBISH, URBAN SOLID WASTE, TURNINGS DOMESTIC AND LIGHT INDUSTRIAL REFUSES, CUT TIRES...



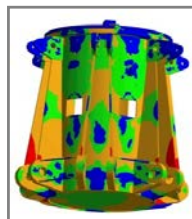
Hydraulic unit equipped with self-regulated piston variable flow pump



Full protected hydraulic cylinders

Special penetration teeth built in wear resistant manganese steel

Complete load through maximum penetration force applied with special profile jaws designed for the product



Structure validated by Finite Elements Analysis

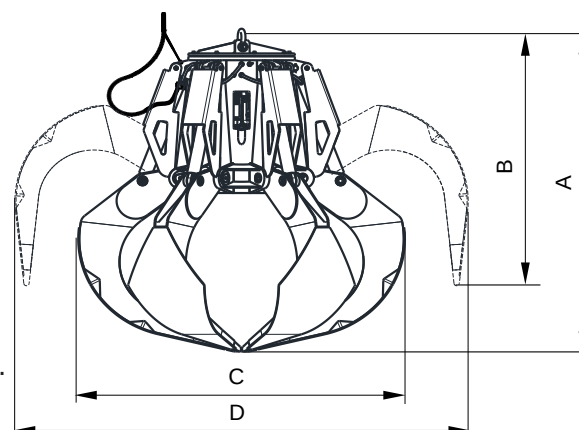


Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Jaw quantity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time (1)	Opening time	Crane SWL	Weight	Dimensions mm			
	m ³		kW	A	bar	s	s	t	kg	A	B	C	D
P5-500-0,7	0,5	5	7,3	14,5	75	10	6	1,6	825	1615	1465	1290	1780
P5-750-0,7	0,75	5	7,3	14,5	90	10	6	1,6	865	1700	1480	1445	1950
P5-1000-0,7	1	5	7,3	14,5	110	10	6	1,6	945	1875	1525	1480	2290
P5-1250-0,7	1,25	5	7,3	14,5	115	8	5	2,5	1490	2020	1770	1600	2505
P5-1500-0,7	1,5	5	7,3	14,5	140	8	5	3,2	1540	2080	1790	1700	2630
P5-2000-0,7	2	5	10	20	170	8	5	3,2	1685	2210	1835	1850	2890
P5-2500-0,7	2,5	5	10	20	200	8	5	4	1840	2300	1865	2000	3075
P5-3000-0,7	3	5	10	20	230	10	6	4	2000	2420	1940	2160	3270
P6-4000-0,7	4	6	20,5	39	170	9	5	6,3	2825	2660	2200	2350	3465
P6-5000-0,7	5	6	20,5	39	210	10	6	8	3040	2860	2240	2470	3850
P6-6000-0,7	6	6	25,5	48,5	160	10,5	6	10	4280	3015	2490	2780	3915
P6-8000-0,7	8	6	31,5	61	200	10,5	6	10	4360	3215	2560	3070	4255
P7-10000-0,7	10	7	31,5	61	200	15	8	12,5	4900	3430	2600	3350	4700
P7-12000-0,7	12	7	51	94	200	13,5	7,5	16	7000	3675	3220	3485	4960
P7-15000-0,7	15	7	51	94	210	17	9	18	7500	3925	3345	3630	5415

SUBJECT TO CHANGE WITHOUT NOTICE.

(1) THE LOAD APREHENSION TIME IS CONSIDERED AT 85% OF THE SHELLS STROKE.

More information:

www.blug.es/eng/productos/



MACHINE TYPE

ORANGE PEEL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

P-1,8

p. 3

RELATED PRODUCTS



PR8-1,8



P-3N

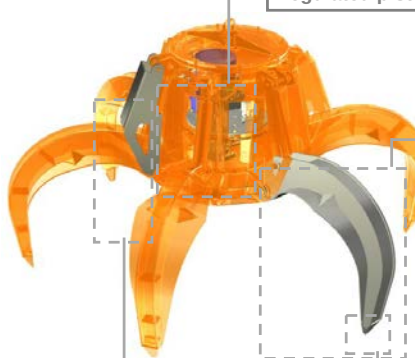


PM4-1,8

MIXED SCRAP, BALED SCRAP WOOD, FRAG SCRAP, INDUSTRIAL REFUSE, MISCELLANEOUS SCRAP, SCRAP 1-2...



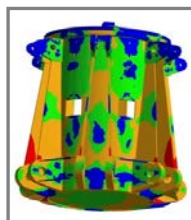
Hydraulic unit equipped with self-regulated piston variable flow pump



Full protected hydraulic cylinders

Special penetration teeth built in wear resistant manganese steel

Complete load through maximum penetration force applied with special profile jaws designed for the product



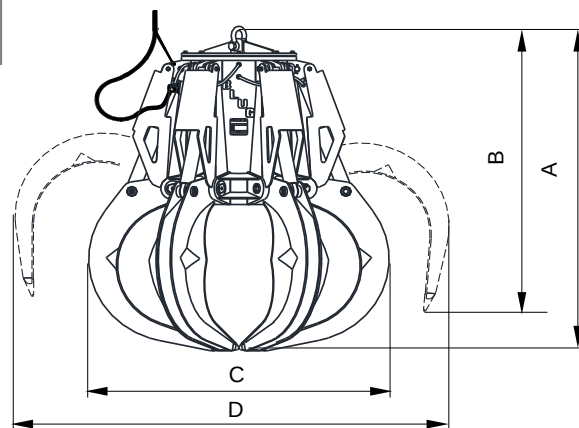
Structure validated by Finite Elements Analysis

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Jaw quantity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time (1)	Opening time	Crane SWL	Weight	Dimensions mm			
	m ³		kW	A	bar	s	s	t	kg	A	B	C	D
P5-500-1,8	0,5	5	7,3	14,5	140	10	7	2,5	875	1815	1530	1490	2285
P5-750-1,8	0,75	5	7,3	14,5	160	10	7	2,5	1000	1785	1510	1605	2215
P5-1000-1,8	1	5	10	20	165	8	5	4	1560	2100	1820	1850	2705
P5-1250-1,8	1,25	5	10	20	210	8	5	4	1650	2200	1850	1950	2900
P6-1600-1,8	1,6	6	14,5	28	130	9	5	6,3	2620	2410	2110	2260	3070
P6-2000-1,8	2	6	20,5	39	170	9	5	6,3	2710	2510	2145	2375	3270
P6-2500-1,8	2,5	6	20,5	39	210	10	6	8	2810	2660	2195	2475	3550
P6-3200-1,8	3,2	6	31,5	61	185	10,5	6	10	3940	2985	2480	2615	3895
P6-4000-1,8	4	6	31,5	61	200	12	7	12,5	4250	3135	2535	2805	4190
P6-5000-1,8	5	6	40	74,5	160	14,5	8	18	6600	3375	3020	3090	4480
P7-6300-1,8	6,3	7	51	94	190	17	9	20	7800	3575	3115	3245	4845
P7-8000-1,8	8	7	51	94	210	17	9	25	8000	3775	3205	3470	5220
P7-10000-1,8	10	7	70	129	210	15	8	30	9600	4160	3485	3805	5870
P7-12000-1,8	12	7	91	170	240	20	12	35	12200	4710	3960	4070	6090

SUBJECT TO CHANGE WITHOUT NOTICE.

(1) THE LOAD APPREHENSION TIME IS CONSIDERED AT 85% OF THE SHELLS STROKE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE
ORANGE PEEL GRAB
WORKING SYSTEM
ELECTRO-HYDRAULIC
MATERIAL TO BE HANDLED



REFERENCE

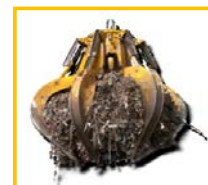
PR8-1,8

p. 4

RELATED PRODUCTS



PR8-3



P-1,8



PM4-1,8

MAXIMUM MATERIAL DENSITY

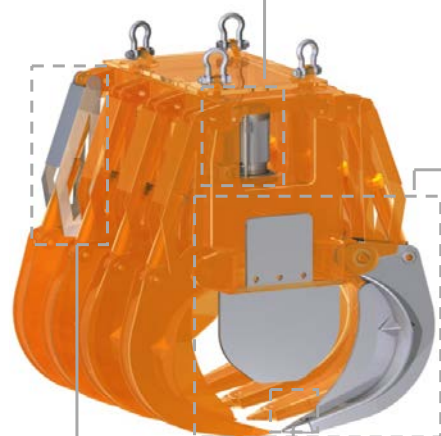
1,8 T/M³

STRUCTURE
RECTANGULAR

MIXED SCRAP, BALED SCRAP WOOD, FRAG SCRAP, INDUSTRIAL REFUSE,
MISCELANEOUS SCRAP, SCRAP 1-2...



Hydraulic unit equipped with self-regulated piston variable flow pump

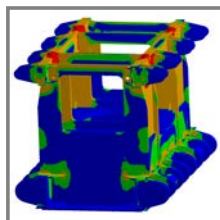


Full protected hydraulic cylinders

Complete load through maximum penetration force applied with special profile jaws designed for the product with side closing plates



Special penetration teeth built in wear resistant manganese steel



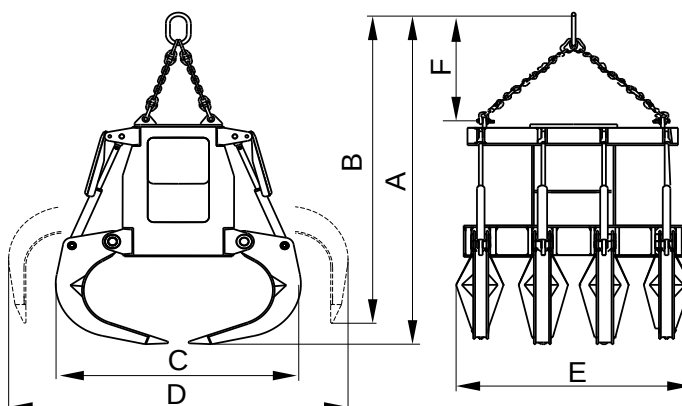
Structure validated by Finite Elements Analysis

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time (1)	Opening time	Crane SWL	Weight	Dimensions mm					
	m ³	kW	A	bar	s	s	t	kg	A	B	C	D	E	F
PR8-1500-1,8	1,5	20,5	39	130	10	6	8	4100	2950	2750	1820	2730	2000	800
PR8-2000-1,8	2	25,5	48,5	170	10	6	8	4400	3020	2820	2040	2840	2000	800
PR8-2500-1,8	2,5	31,5	61	140	12	7	10	5500	3780	3320	2190	3560	2000	900
PR8-3000-1,8	3	31,5	61	170	12	7	12,5	6300	3840	3350	2290	3620	2000	900
PR8-3500-1,8	3,5	51	94	130	13	8	16	8100	4090	3770	2320	3630	2300	1200
PR8-4000-1,8	4	51	94	140	13	8	16	8500	4170	3850	2460	3750	2300	1200
PR8-5000-1,8	5	62,5	117	175	13	8	20	9200	4320	3990	2730	4000	2300	1200

SUBJECT TO CHANGE WITHOUT NOTICE.

(1) THE LOAD APREHENSION TIME IS CONSIDERED AT 85% OF THE SHELLS STROKE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



MACHINE TYPE

ORANGE PEEL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED

CORE SCRAP, PIG-IRON, PELLETS, OA SCRAP, PELLETS, FERRO ALLOYS,
INDUSTRIAL HEAVY WASTES, SMALL PACKAGES OF SCRAP...

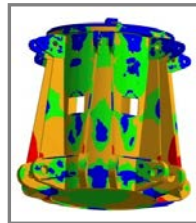


Hydraulic unit equipped with self-regulated piston variable flow pump

Complete load through maximum penetration force applied with special profile jaws designed for the product

Full protected hydraulic cylinders

Special penetration teeth built in wear resistant manganese steel



Structure validated by Finite Elements Analysis

REFERENCE

P-3N

p. 5

RELATED PRODUCTS



PR8-3



P-3,5



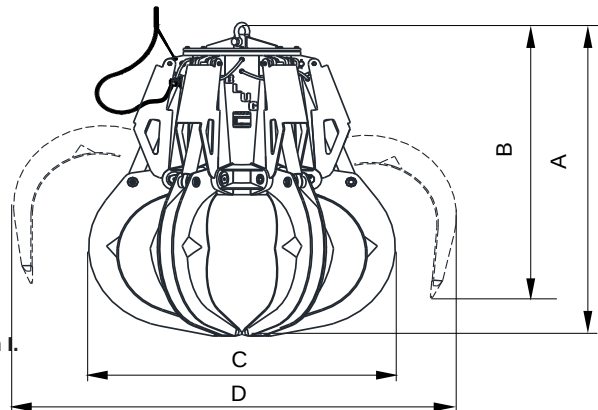
PM4-3

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Jaw quantity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time (1)	Opening time	Crane SWL	Weight	Dimensions mm			
	m ³		kW	A	bar	s	s	t	kg	A	B	C	D
P5-500-3N	0,5	5	10	20	125	8	5	3,2	1560	1890	1720	1540	2295
P5-750-3N	0,75	5	10	20	185	8	5	4	1650	1980	1780	1650	2455
P6-1000-3N	1	6	14,5	28	120	9	5	6,3	2800	2265	2050	1950	2745
P6-1250-3N	1,25	6	20,5	39	150	9	5	6,3	2950	2360	2090	2040	2930
P6-1500-3N	1,5	6	20,5	39	180	9	5	8	3100	2730	2400	2260	3400
P6-2000-3N	2	6	25,5	48,5	160	10,5	6	10	3900	2740	2410	2375	3450
P6-2500-3N	2,5	6	31,5	61	190	10,5	6	12,5	4100	2885	2450	2500	3710
P6-3200-3N	3,2	6	31,5	61	210	12	7	14	4400	2985	2480	2615	3895
P6-4000-3N	4	6	40	74,5	170	14	8	18	6600	3320	2980	2750	4360
P6-5000-3N	5	6	51	94	215	14	8	20	7200	3375	3020	3090	4480
P7-6300-3N	6,3	7	62,5	117	180	15	8	25	9100	3650	3300	3250	4800
P7-7000-3N	7	7	62,5	117	210	17	10	30	10300	3850	3450	3425	5000
P8-10000-3N	10	8	70	129	210	20	12	40	13000	4550	3900	3800	5800
P8-12000-3N	12	8	91	170	240	20	12	45	14000	4700	4050	3990	5990

SUBJECT TO CHANGE WITHOUT NOTICE.

(1) THE LOAD APREHENSION TIME IS CONSIDERED AT 85% OF THE SHELLS STROKE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/

REFERENCE

PR8-3

p. 6



MACHINE TYPE

ORANGE PEEL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

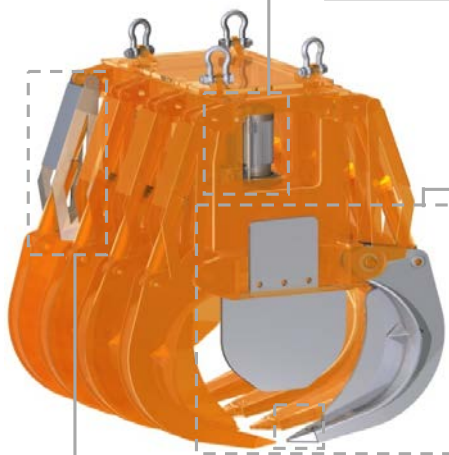
MATERIAL TO BE HANDLED

CORE SCRAP, PIG-IRON, PELLETS, OA SCRAP, PELLETS, FERRO ALLOYS,
 INDUSTRIAL HEAVY WASTES, SMALL PACKAGES OF SCRAP...



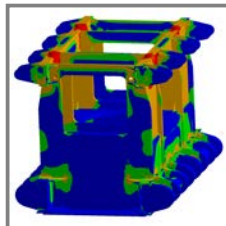
Hydraulic unit equipped with self-regulated piston variable flow pump

Complete load through maximum penetration force applied with special profile jaws designed for the product with side closing plates



Full protected hydraulic cylinders

Special penetration teeth built in wear resistant manganese steel



Structure validated by Finite Elements Analysis



REFERENCE

PR8-3

MAXIMUM MATERIAL DENSITY

3 T/M³

STRUCTURE

RECTANGULAR

RELATED PRODUCTS



PR8-1,8



P-3N



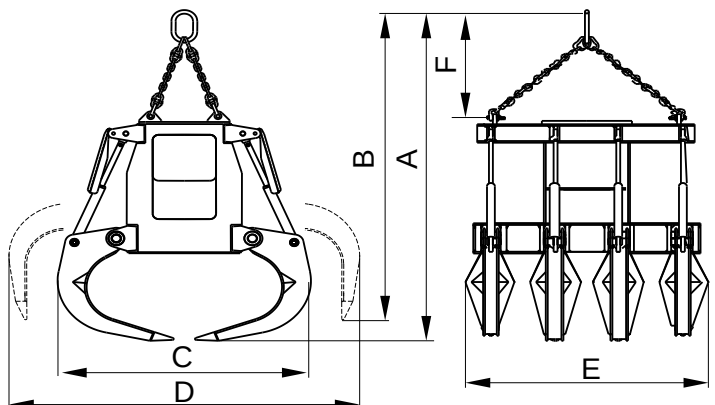
PM4-3

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time (1)	Opening time	Crane SWL	Weight	Dimensions mm					
	m ³	kW	A	bar	s	s	t	kg	A	B	C	D	E	F
PR8-1000-3	1	20,5	39	130	10	6	8	4300	2820	2720	1620	2510	2000	800
PR8-1500-3	1,5	25,5	48,5	125	12	7	10	5500	3450	2320	1940	2760	2000	900
PR8-2000-3	2	31,5	61	160	12	7	12,5	6400	3600	2370	2050	3050	2000	900
PR8-2500-3	2,5	51	94	130	13	8	16	8500	3900	3660	2050	3250	2300	1200
PR8-3000-3	3	62,5	117	160	13	8	20	9300	4000	3720	2180	3440	2300	1200

SUBJET TO CHANGE WITHOUT NOTICE.

(1) THE LOAD APREHENSION TIME IS CONSIDERED AT 85% OF THE SHELLS STROKE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE

ORANGE PEEL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED

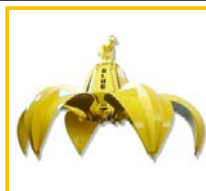
CORE SCRAP, BLAST FURNACE, PIG-IRON, OA SCRAP, GREEN PELLETS, INDUSTRIAL HEAVY WASTES, BALED SCRAP, STONES ...

REFERENCE

P-3,5

p. 7

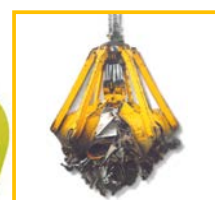
RELATED PRODUCTS



PNA-3



P-3N



PM4-3



MAXIMUM MATERIAL DENSITY

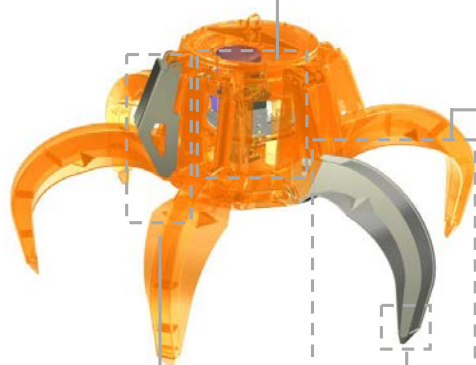
3,5 T/M³

STRUCTURE

ROUND



Hydraulic unit equipped with self-regulated piston variable flow pump



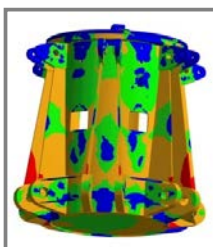
Full protected hydraulic cylinders

Special penetration teeth built in wear resistant manganese steel

Complete load through maximum penetration force applied with special profile jaws designed for the product



Structure validated by Finite Elements Analysis

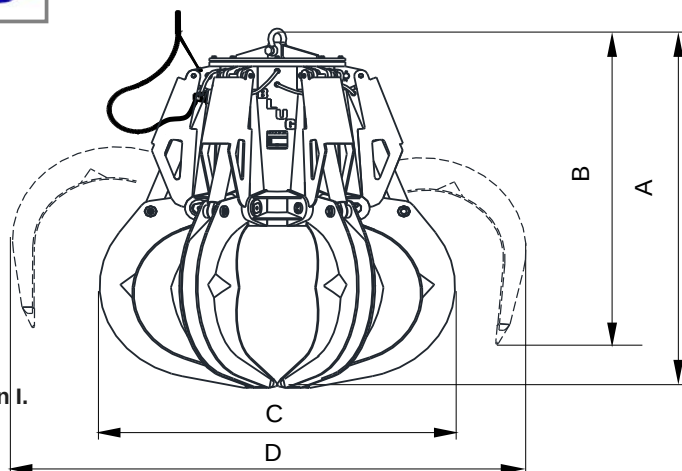


Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Jaw quantity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time (1)	Opening time	Crane SWL	Weight	Dimensions mm			
	m ³		kW	A	bar	s	s	t	kg	A	B	C	D
P6-1500-3,5	1,5	6	31,5	61	180	10	6	10	4100	2730	2400	2260	3400
P6-2500-3,5	2,5	6	31,5	61	210	10	6	12,5	5000	2885	2450	2500	3710
P6-3200-3,5	3,2	6	40	74,5	170	14	8	18	6800	3035	2865	2700	3845
P6-4000-3,5	4	6	51	94	215	14	8	20	7200	3320	2980	2750	4360
P7-5000-3,5	5	7	62,5	117	170	15	9	30	10500	3605	3240	3020	4790
P8-6300-3,5	6,3	8	70	129	200	17	10	30	11000	3875	3360	3175	5265
P8-8000-3,5	8	8	91	170	240	17	10	40	11600	4060	3440	3460	5640

SUBJECT TO CHANGE WITHOUT NOTICE.

(1) THE LOAD APREHENSION TIME IS CONSIDERED AT 85% OF THE SHELLS STROKE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE
ORANGE PEEL GRAB
WORKING SYSTEM
HYDRAULIC
MATERIAL TO BE HANDLED



REFERENCE
PNA-0,7

p. 8

RELATED PRODUCTS



PNA-1,8

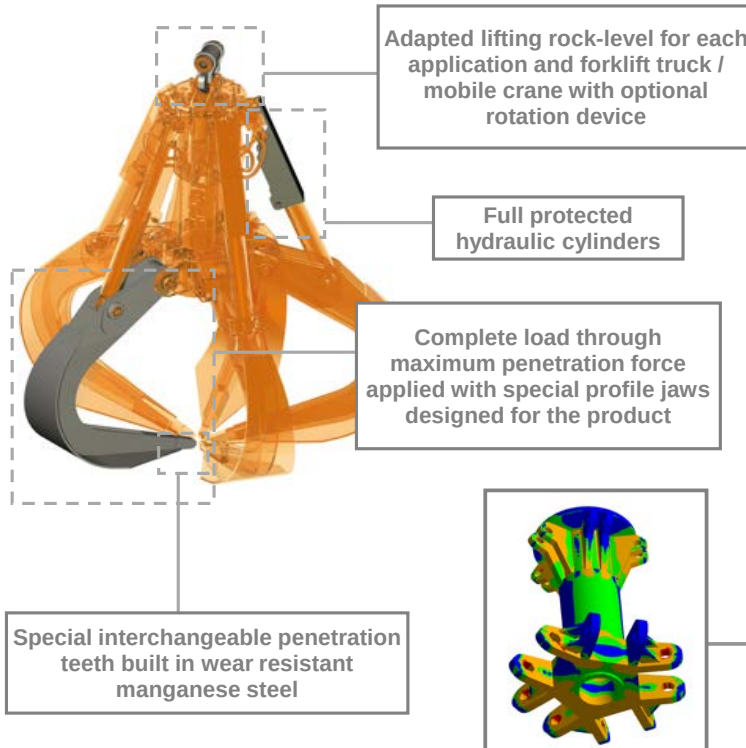


P-0,7



PM4-0,7

RUBBISH, URBAN SOLID WASTE, TURNINGS DOMESTIC AND LIGHT INDUSTRIAL REFUSES, CUT TIRES...



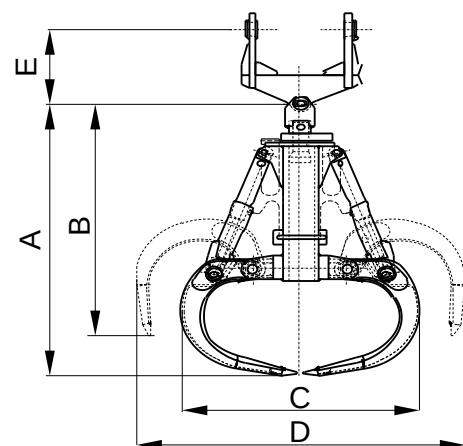
Structure validated by Finite Elements Analysis

Equipment needed

- Attachment from forklift truck / mobile crane.
- Hydraulic supply from external system.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Mechanical (120°) or hydraulic (360°) rotation device.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Jaw quantity	Working pressure	Crane SWL	Weight	Dimensions mm				
	m ³		bar	t	kg	A	B	C	D	E
PNA-2000-0,7	2	5	250	2,7	1250	2260	1845	1945	2610	Depending on forklift truck / mobile crane's suspension
PNA-2500-0,7	2,5	5	250	3,1	1380	2370	1855	1990	2780	
PNA-3000-0,7	3	5	250	3,7	1550	2525	1870	2200	3100	
PNA-4000-0,7	4	5	250	5,1	2300	3110	2520	2330	3500	
PNA-5000-0,7	5	5	250	6	2530	3265	2530	2500	3800	
PNA-6000-0,7	6	6	250	7,6	3360	3480	2600	2520	4140	
PNA-7000-0,7	7	6	250	8,4	3520	3600	2630	2650	4400	
PNA-8000-0,7	8	6	250	9,3	3670	3710	2660	2760	4600	

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE

ORANGE PEEL GRAB

WORKING SYSTEM

HYDRAULIC

MATERIAL TO BE HANDLED

MIXED SCRAP, BALED SCRAP WOOD, INDUSTRIAL REFUSE, MISCELLANEOUS SCRAP, SCRAP 1-2 HANDLING...



REFERENCE

PNA-1,8

MAXIMUM MATERIAL DENSITY

1,8 T/M³

STRUCTURE

ROUND

p. 9

RELATED PRODUCTS



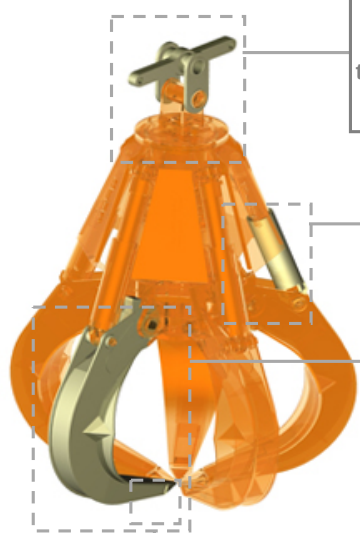
PNA-3



P-1,8



PM4-1,8

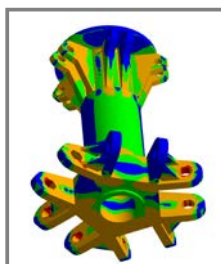


Adapted lifting rock-level for each application and forklift truck / mobile crane with optional rotation device

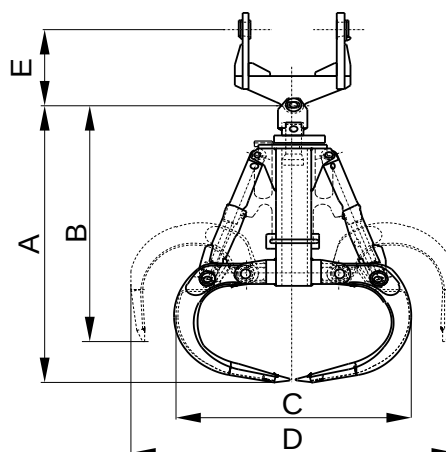
Full protected hydraulic cylinders

Complete load through maximum penetration force applied with special profile jaws designed for the product

Special interchangeable penetration teeth built in wear resistant manganese steel



Structure validated by Finite Elements Analysis



Equipment needed

- Attachment from forklift truck / mobile crane.
- Hydraulic supply from external system.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Mechanical (120°) or hydraulic (360°) rotation device.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.

Reference	Capacity	Jaw quantity	Working pressure	Crane SWL	Weight	Dimensions mm				
	m ³		bar	t	kg	A	B	C	D	E
PNA-1000-1,8	1	5	250	3,2	1350	2250	1980	1920	2600	Depending on forklift truck / mobile crane's suspension
PNA-1500-1,8	1,5	5	250	4,2	1480	2440	2000	1970	2980	
PNA-2000-1,8	2	5	250	6,1	2450	3060	2500	2400	3625	
PNA-2500-1,8	2,5	5	250	7,2	2680	3210	2550	2540	3880	
PNA-3000-1,8	3	6	250	8,9	3540	3400	2660	2500	4200	
PNA-4000-1,8	4	6	250	10,9	3700	3500	2675	2600	4475	
PNA-5000-1,8	5	6	250	12,9	3890	3620	2690	2940	4655	

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/

REFERENCE

PNA-3

p. 10



MAXIMUM MATERIAL DENSITY

3 T/M³

STRUCTURE

ROUND

RELATED
PRODUCTS



PNA-1,8



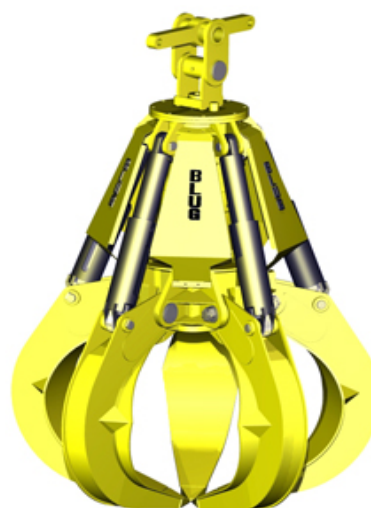
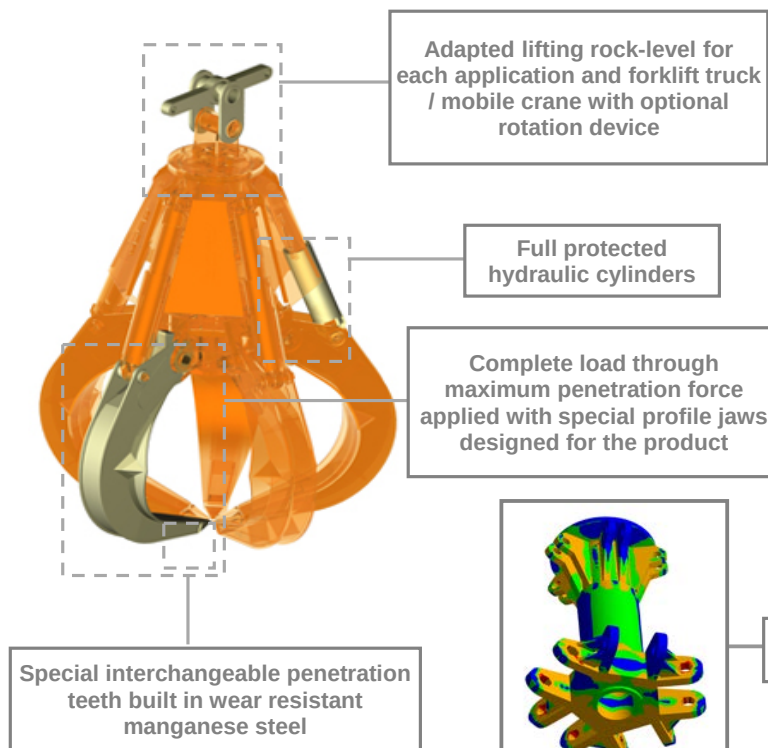
P-3N



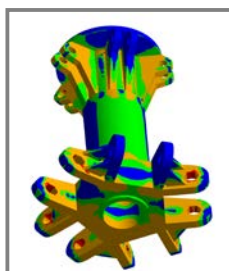
PM4-3

MACHINE TYPE
ORANGE PEEL GRAB
WORKING SYSTEM
HYDRAULIC
MATERIAL TO BE HANDLED

ALL TYPE OF SCRAP, STONES, TRUCKS, BRIQUETTES, PIG-IRON...



Structure validated by Finite
Elements Analysis

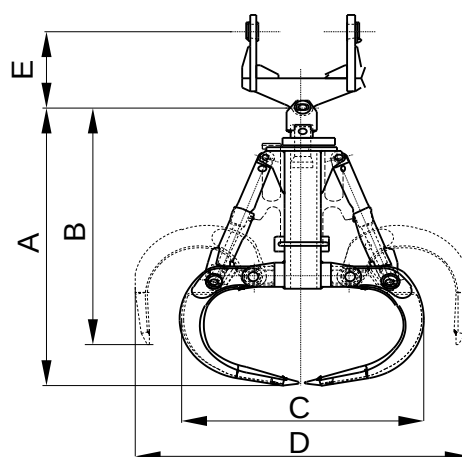


Equipment needed

- Attachment from forklift truck / mobile crane.
- Hydraulic supply from external system.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Mechanical (120°) or hydraulic (360°) rotation device.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Jaw quantity	Working pressure	Crane SWL	Weight	Dimensions mm				
	m ³		bar	t	kg	A	B	C	D	E
PNA-1000-3	1	5	250	4,4	1860	2250	1980	1920	2600	Depending on forklift truck / mobile crane's suspension
PNA-1500-3	1,5	5	250	6	2100	2440	2000	1970	2980	
PNA-2000-3	2	5	250	8	3000	3060	2500	2400	3625	
PNA-2500-3	2,5	5	250	9,5	3250	3210	2550	2540	3880	
PNA-3000-3	3	6	250	12	4350	3400	2660	2500	4200	
PNA-4000-3	4	6	250	14,6	4560	3500	2675	2600	4475	
PNA-5000-3	5	6	250	17,3	4800	3620	2690	2940	4655	

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



MACHINE TYPE
ORANGE PEEL GRAB

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED

**RUBBISH, URBAN SOLID WASTE, TURNINGS, DOMESTIC AND LIGHT INDUSTRIAL
REFUSES, CUT TIRES...**

REFERENCE

PM4-0,7

p. 11



MAXIMUM MATERIAL DENSITY

0,7 T/M³

CABLE QUANTITY

4

**RELATED
PRODUCTS**



PM4-1,8



P-0,7



CV2-1,1

Complete load through maximum penetration force applied
with special profile jaws designed for the product

Pulleys block with tempered
contact surfaces and mounted
on cushions / rollings

Rotating spudding beam to
compensate cable's
position when working in
sloping position

Special penetration teeth built in
wear resistant manganese steel

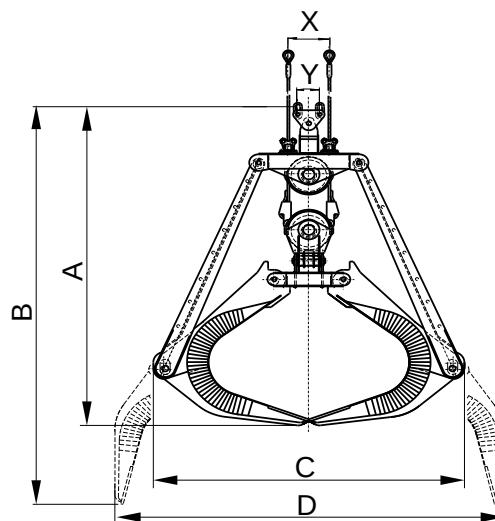
Structure validated by Finite
Elements Analysis

Equipment needed

- 2 lifting cables.
- 2 opening / closing cables.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Jaw quantity	Withdrawn rope	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm					
	m ³		mm	mm	mm	t	kg	A	B	C	D	X	Y
PM4-1500-0,7	1,5	5	4750	250	12	3,2	1890	2180	2260	2030	3070	265	100
PM4-2000-0,7	2	5	5250	280	12	4	2280	2320	2420	2130	3400	300	120
PM4-2500-0,7	2,5	5	5750	280	14	5	2750	2420	2500	2270	3600	300	120
PM4-3200-0,7	3,2	6	6500	315	16	6,3	3400	2720	2820	2500	3980	340	140
PM4-4000-0,7	4	6	6850	355	18	8	4240	2910	3030	2700	4260	380	160
PM4-5000-0,7	5	6	7050	400	20	10	5100	3170	3360	2940	4600	430	180
PM4-6300-0,7	6,3	6	7950	450	22	12,5	6200	3420	3600	3130	4920	480	220
PM4-8000-0,7	8	6	8400	500	24	14	7650	3730	3890	3380	5350	530	240
PM4-10000-0,7	10	6	9200	560	26	18	8500	4000	4200	3650	5660	595	280
PM4-12500-0,7	12,5	7	9550	630	28	25	11000	4370	4620	4050	6120	670	320
PM4-16000-0,7	16	8	10950	630	32	30	13000	4600	4920	4400	6650	670	350

SUBJECT TO CHANGE WITHOUT NOTICE.

Reeving system 1:4 / 1:5

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



MACHINE TYPE

ORANGE PEEL GRAB

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED



REFERENCE

PM4-1,8

p. 12

RELATED PRODUCTS



PM4-3



P-1,8



PNA-1,8

MIXED SCRAP, WOOD, FRAG SCRAP, MISCELANEOUS SCRAP, SCRAP 1-2...

Complete load through maximum penetration force applied with special profile jaws designed for the product

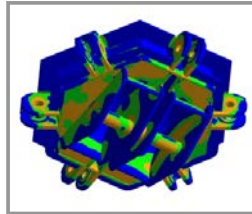
Pulleys block with tempered contact surfaces and mounted on cushions / rollings

Rotating spudding beam to compensate cable's position when working in sloping position



Structure validated by Finite Elements Analysis

Special penetration teeth built in wear resistant manganese steel

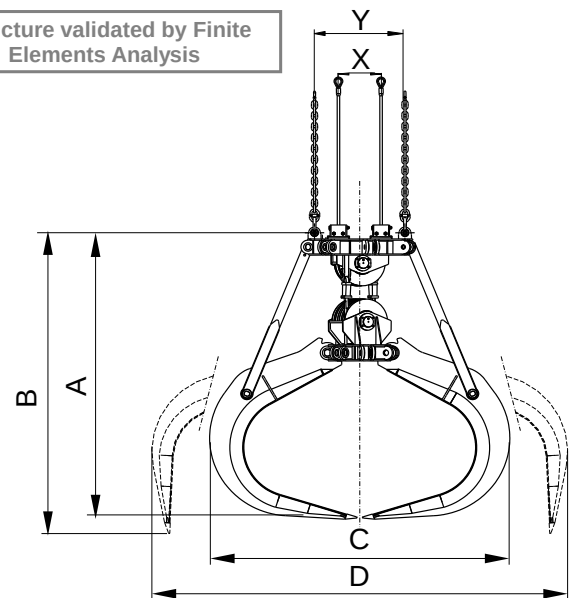


Equipment needed

- 2 lifting cables.
- 2 opening / closing cables.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Jaw quantity	Withdrawn rope	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm					
	m³		mm	mm	mm	t	kg	A	B	C	D	X	Y
PM4-2000-1,8	2	6	6.250	355	18	8	3100	2400	2850	2450	3360	380	800
PM4-2500-1,8	2,5	6	7.000	400	20	10	3800	2720	3230	2760	3800	430	900
PM4-3200-1,8	3,2	6	7.550	450	22	12,5	4500	2940	3470	2900	4050	480	1000
PM4-4000-1,8	4	6	8.250	500	24	14	5600	3200	3770	3150	4420	530	1100
PM4-5000-1,8	5	6	8.650	560	26	18	7100	3430	4060	3370	4650	595	1200
PM4-6300-1,8	6,3	6	9.750	630	28	25	8200	3810	4610	3830	5120	670	1400
PM4-7000-1,8	7	7	9.900	630	32	25	9500	3900	4680	3890	5200	670	1400
PM4-8000-1,8	8	7	10.350	630	32	30	11500	3990	4730	4000	5480	670	1400
PM4-10000-1,8	10	8	11.600	630	32	35	13500	4990	5300	4350	5950	670	1400
PM4-12500-1,8	12,5	8	12.450	710	34	40	15500	5000	5850	4710	6500	750	1600

SUBJECT TO CHANGE WITHOUT NOTICE.

Reeving system 1:4 / 1:5

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



MACHINE TYPE

ORANGE PEEL GRAB

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED

CORE SCRAP, PIG-IRON, STONES, SLAG, OA SCRAP, GREEN PELLETS, BLAST FURNACE...

REFERENCE

PM4-3

p. 13

RELATED PRODUCTS



PM4-1,8



P-3,5



PNA-3



MAXIMUM MATERIAL DENSITY

3 T/M³

CABLE QUANTITY

4

Complete load through maximum penetration force applied with special profile jaws designed for the product

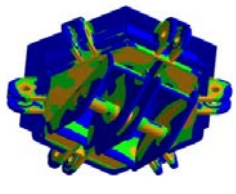
Pulleys block with tempered contact surfaces and mounted on cushions / rollings

Rotating spudding beam to compensate cable's position when working in sloping position



Structure validated by Finite Elements Analysis

Special penetration teeth built in wear resistant manganese steel

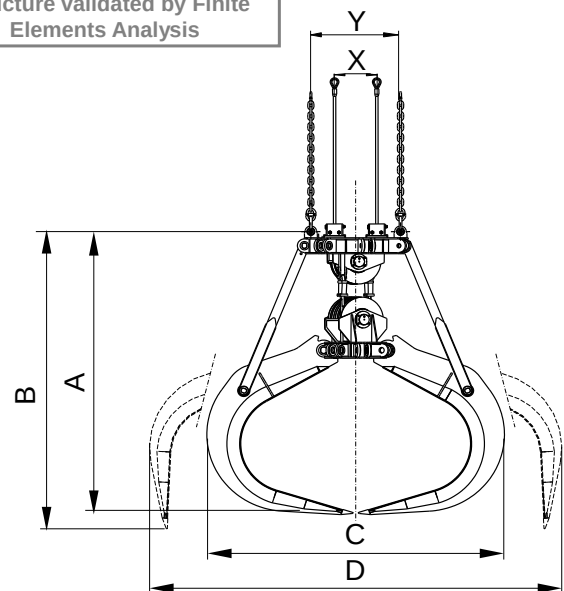


Equipment needed

- 2 lifting cables.
- 2 opening / closing cables.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Jaw quantity	Withdrawn rope	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm					
	m ³		mm	mm	mm	t	kg	A	B	C	D	X	Y
PM4-2000-3	2	6	8000	400	18	12,5	4800	2650	3200	2620	3470	430	900
PM4-2500-3	2,5	6	9000	400	18	16	5890	2860	3480	2820	3700	430	900
PM4-3200-3	3,2	6	10000	450	20	18	6900	3150	3770	3100	4100	480	1000
PM4-4000-3	4	6	11000	450	20	25	7500	3800	4500	3600	4600	480	1000
PM4-5000-3	5	6	12410	450	20	30	9200	4570	5670	3950	4920	480	1000
PM4-6300-3	6,3	6	13275	500	24	32	11300	4885	6065	4225	5265	530	1000
PM4-8000-3	8	8	14375	500	24	40	12800	5295	6565	4580	5700	530	1100
PM4-10000-3	10	8	16080	560	26	50	14100	5720	7100	4915	6160	595	1200
PM4-12500-3	12,5	8	16725	630	28	60	16800	6150	7635	5320	6628	670	1400
PM4-15000-3	15	8	17700	630	28	70	18600	6520	8090	5635	7020	670	1400
PM4-17500-3	17,5	8	18705	630	28	80	20800	6920	8200	5835	7170	835	1700

SUBJET TO CHANGE WITHOUT NOTICE.

Reeving system: 1:5

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



ORANGE PEEL GRABS



UNDERWATER GRABS



CLAMSHELL GRABS



TONGS AND GRAPPLES



COMPLETE SUPPLY

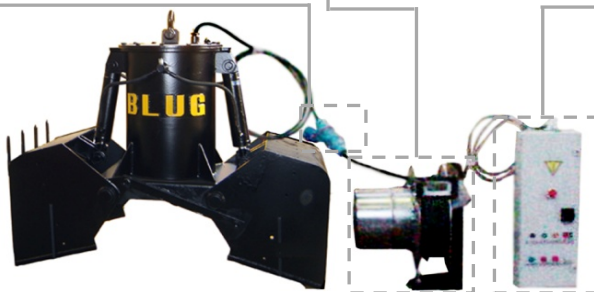
For projects that need a **complete handling solution**, Credeblug offers complementary material to its underwater machine range:

Underwater electric plug

Cable reel

Control panel

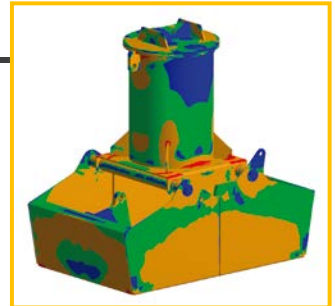
Chain hoist



- Underwater plug: for a fast and **simple connection between grab and cable reel** (IP 67).
- Electric cable reel: synchronization between the machine and winding velocities with a **constant torque applied to the necessary cable length** in every case.
- Control panel: it incorporates all the **indicators and necessary safety elements** for grab's control and operation.
- Chain hoist: **single rail**, with double speed components in its movements and **variable speed drive** incorporated for the longitudinal and transversal travelling movements.

DESIGN AND SIMULATION

- Our design office develops each design according to **F.E.M. 1001 Section I:1998, UNE-58132 and UNE-EN 13155** using the latest 3D and CAD/CAM tools.
- Each new design is validated and optimised using **Finite Elements Analysis** technique in the way to analyse fatigue effects and warranty **2.000.000 cycles** for components' and machines' working life.

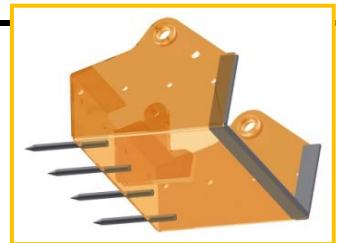


ELECTRO-HYDRAULIC SYSTEM FUNCTIONING

MOTOR REVERSAL		ELECTRICALLY OPERATED VALVE		
Wire quantity:	4	Wire quantity:	7	
Pump type:	Piston pump (fix flow)	Pump type:	Gear pump (fix flow)	
		Piston pump (fix flow)		

MATERIALS

- Structure manufactured in **S355 J2G3** rolled steel (elastic yield 510-610 N/mm²).
- All the models are supplied completely prepared for their immediate running including the **electrical installation and complete internal wiring**.
- In addition to the **cleaning combs and draining holes (included)**, it is possible to install **interchangeable manganese wear resistant teeth** (up to 500 HB) into grab's valves in the way to **improve machine's penetration into the material**.



ANTICORROSIVE TREATMENT

- The whole underwater BLUG range is **protected from the corrosion through the application of 2 EPOXI RUSTPREVENTIVE - ZINC PHOSPHATE 50 microns priming coats** cured with polyamide and **3 coats' finish of PAINTING TAR-EPOXI** in black colour, cured with 2 components' polyamide and a thickness of 50 microns/each.

CERTIFICATION

- Possibility to certify any model in **ATEX 1/21 or 2/22 zones for explosive atmospheres**.



More information:

www.blug.es/eng/productos/



MACHINE TYPE

UNDERWATER GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

C2A-2,8



MAXIMUM MATERIAL DENSITY

2,8 T/M³

APPLICATION

STEEL WORKS

p. 15

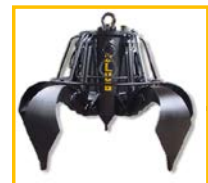
RELATED PRODUCTS



C2AE-2,8

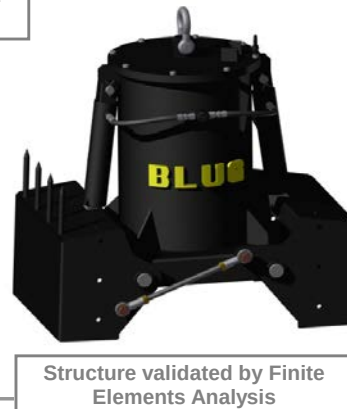
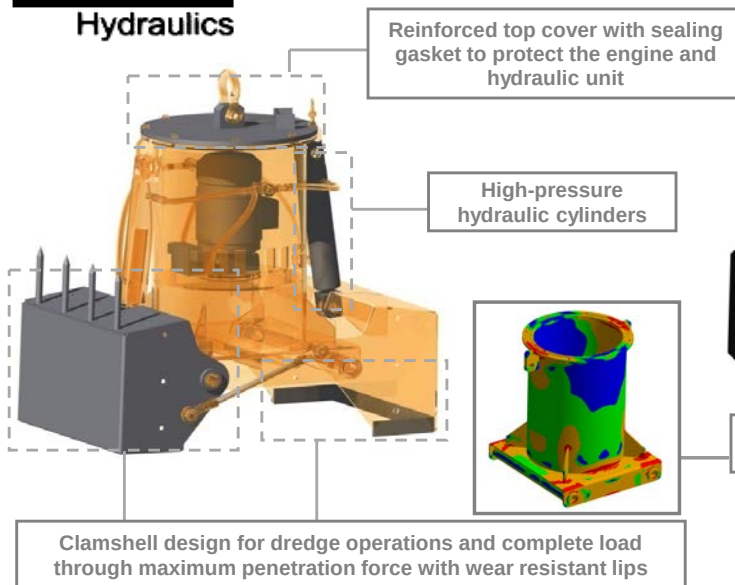


C2AP-1,8



PEA-1,1

SUMERGED MATERIALS, SLIMES, SANDS, STONES...

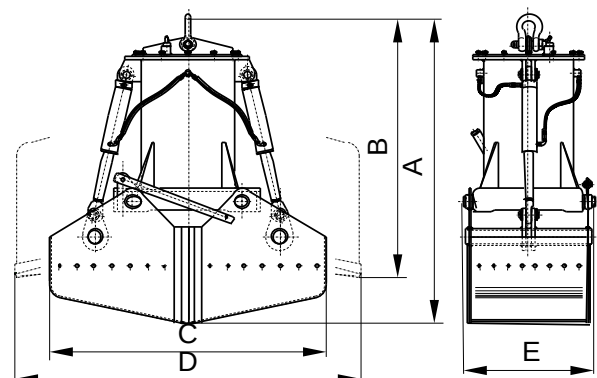


Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Leak-proof pressurized oil deposit.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Anticorrosive and anti-oxidant surface treatment with EPOXI-TAR.
- Draining holes and/or cleaning gombs included.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions mm				
	m ³	kW	A	bar	s	s	t	kg	A	B	C	D	E
C2A-100-2,8	0,1	3	6,7	100	5	3	1	390	1265	1210	835	1060	605
C2A-150-2,8	0,15	3	6,7	100	5	3	1	420	1350	1230	835	1215	605
C2A-250-2,8	0,25	4	8,95	120	6	4	1,25	460	1525	1260	1165	1550	605
C2A-300-2,8	0,3	4	8,95	120	6	4	1,6	480	1550	1280	1190	1575	605
C2A-500-2,8	0,5	4	8,95	120	9	5	2,5	650	1700	1485	1310	1770	770
C2A-750-2,8	0,75	5,5	11,5	130	9	5	3,2	750	1840	1525	1580	2035	770
C2A-1000-2,8	1	7,5	15,5	160	9	5	4	860	2060	1580	1890	2450	770
C2A-1250-2,8	1,25	11	22	160	10	5	5	1400	2330	1970	1980	2470	940
C2A-1500-2,8	1,5	11	22	170	10	5	6,3	1520	2360	1975	2240	2525	940
C2A-1750-2,8	1,75	11	22	180	10	5	8	1790	2380	1980	2270	2585	1200
C2A-2000-2,8	2	11	22	190	10	5	8	1850	2400	1980	2300	2610	1200

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



MACHINE TYPE

UNDERWATER GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

C2AE



MAXIMUM MATERIAL DENSITY

2,2 T/M³

APPLICATION

W.W.T.P.

p. 16

RELATED
PRODUCTS



C2A-2,8



C2AP-1,8



PEA-1,1

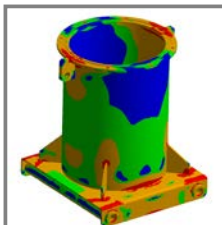


Reinforced top cover with sealing gasket to protect the engine and hydraulic unit

High-pressure hydraulic cylinders



Structure validated by Finite Elements Analysis



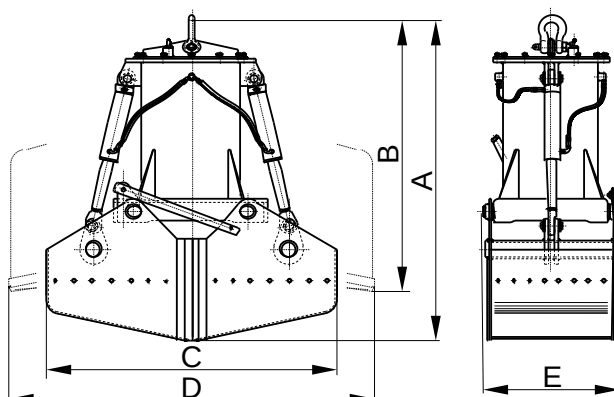
Clamshell design for dredge operations and complete load through maximum penetration force with wear resistant lips

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Leak-proof pressurized oil deposit.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Anticorrosive and anti-oxidant surface treatment with EPOXI-TAR.
- Draining holes and/or cleaning gombs included.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions mm				
	m ³	kW	A	bar	s	s	t	kg	A	B	C	D	E
C2AE-50	0,05	2,2	5,15	70	7,5	5,5	1	340	1150	1100	850	980	635
C2AE-100	0,1	2,2	5,15	70	7,5	5,5	1	370	1190	1100	950	1080	635
C2AE-150	0,15	2,2	5,15	70	7,5	5,5	1	380	1230	1100	995	1125	635
C2AE-250	0,25	2,2	5,15	70	7,5	5,5	1,25	460	1350	1100	1340	1420	635
C2AE-300	0,3	2,2	5,15	70	7,5	5,5	2	470	1385	1100	1375	1465	635
C2AE-500	0,5	3	6,7	95	7,5	5,5	2	560	1410	1100	1510	1500	885

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE

UNDERWATER GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

C2AP-1,8



MAXIMUM MATERIAL DENSITY

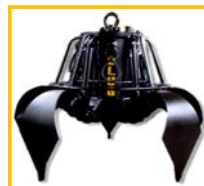
1,8 T/M³

TYPE

BUTTERFLY

p. 17

RELATED PRODUCTS



PEA-1,1

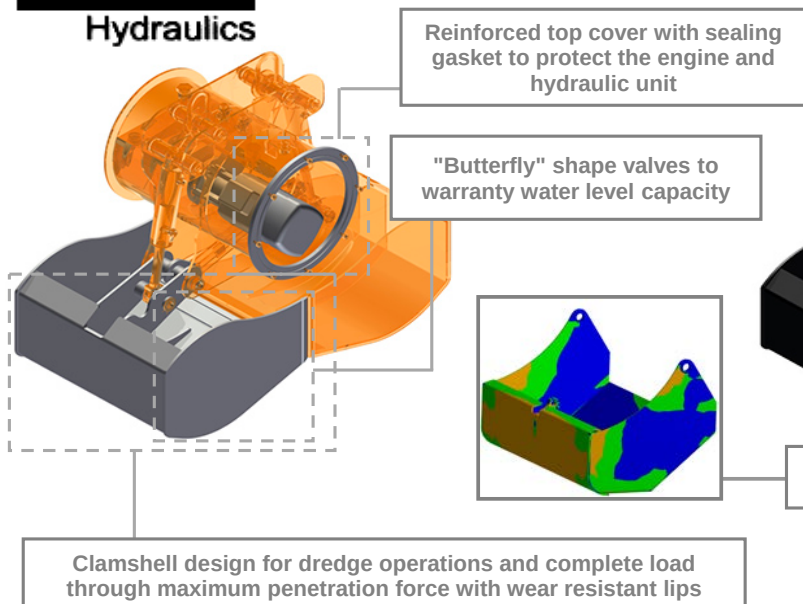


C2A-2,8



C2AE-2,8

LIQUIDS, SUMERGED MATERIALS, MUD, SLIME, SANDS...

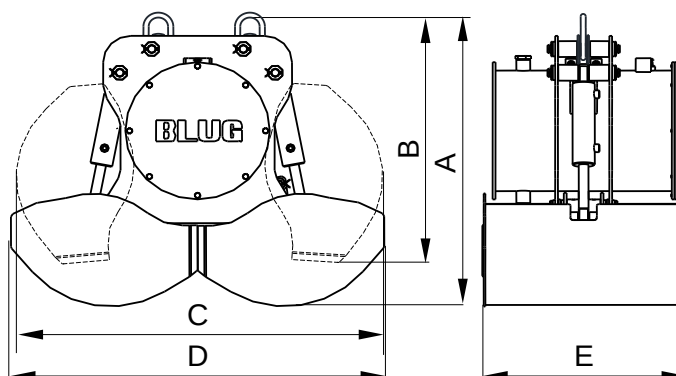


Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Leak-proof pressurized oil deposit.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Draining holes and / or cleaning gombs included.
- Anticorrosive and anti-oxidant surface treatment with EPOXI-TAR.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Water level capacity	Engine	Intensity	Working	Closing	Opening	Crane	Weight	Dimensions				
	m ³	kW	400 V	pressure	time	time	SWL	kg	A	B	C	D	E
C2AP-150-1,8	0,15	3	6,7	80	7	5	1	440	1050	1015	1230	1160	730
C2AP-200-1,8	0,2	3	6,7	90	7	5	1	485	1090	1020	1310	1225	730
C2AP-300-1,8	0,3	3	6,7	110	7	5	1,5	550	1090	1035	1460	1225	730
C2AP-400-1,8	0,4	4	8,95	130	7	5	1,5	630	1240	1040	1605	1380	730
C2AP-500-1,8	0,5	4	8,95	150	7	5	2	720	1360	1050	1410	1780	730

SUBJET TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



MACHINE TYPE

UNDERWATER GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

PEA-1,1



MAXIMUM MATERIAL DENSITY

1,1 T/M³

STRUCTURE

ROUND

p. 18

RELATED PRODUCTS



P-0,7

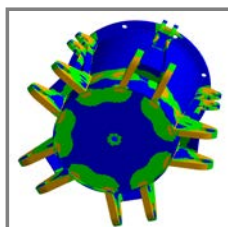
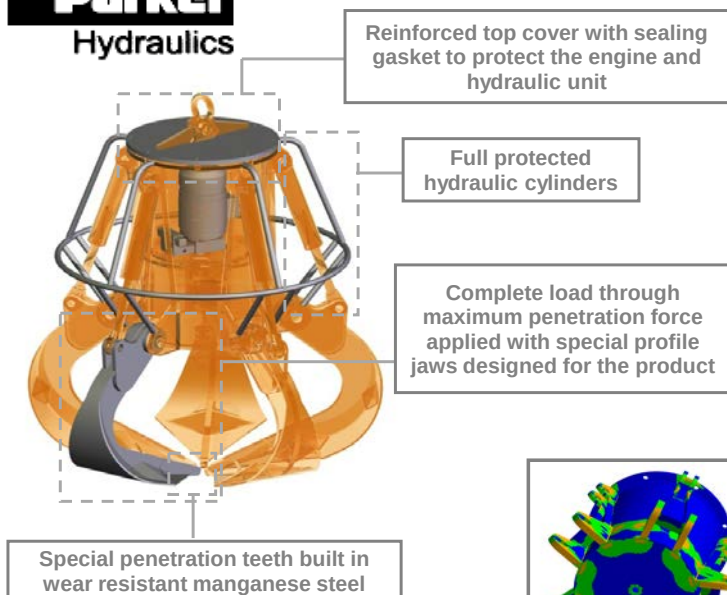


C2A-2,8



C2AE-2,8

WOODS, STONES, BRANCHES, TREES, MUDUS, FLOATING RESIDUES...



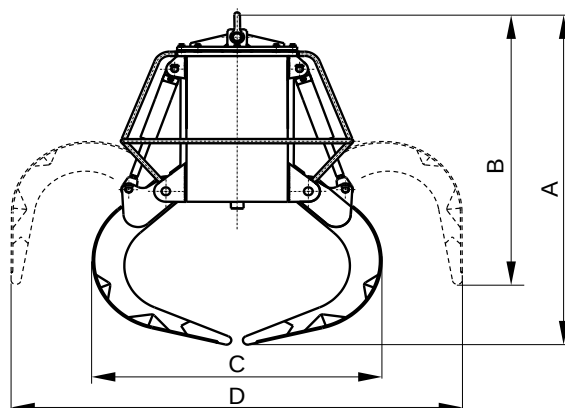
Structure validated by Finite Elements Analysis

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Leak-proof pressurized oil deposit.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Anticorrosive and anti-oxidant surface treatment with EPOXI-TAR.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Jaw quantity	Engine	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions mm			
	m ³		kW	A	bar	s	s	t	kg	A	B	C	D
PEA-150-1,1	0,15	4	3	6,7	100	4,5	2,2	1	420	1433	1347	940	1460
PEA-250-1,1	0,25	4	3	6,7	120	4,5	2,2	1	450	1520	1365	1050	1640
PEA-500-1,1	0,5	5	4	9,2	75	12	8	1,6	830	1615	1465	1290	1780
PEA-750-1,1	0,75	5	4	9,2	100	12	8	2,5	865	1690	1475	1445	1965
PEA-1000-1,1	1	5	5,5	11,5	140	12	8	2,5	960	1875	1525	1480	2290
PEA-1250-1,1	1,25	5	5,5	11,5	140	10	5	3,2	1500	2020	1770	1600	2505
PEA-1500-1,1	1,5	5	5,5	11,5	140	10	5	4	1580	2145	1855	1700	2630
PEA-2000-1,1	2	5	7,5	15	180	10	5	5	1685	2210	1835	1850	2890
PEA-2500-1,1	2,5	5	7,5	15	190	10	5	5	1800	2360	1925	2000	3075
PEA-3000-1,1	3	6	15	28,5	130	11	5,5	6,3	2630	2485	2140	2190	3130
PEA-4000-1,1	4	6	15	28,5	170	11	5,5	8	2850	2660	2200	2350	3465
PEA-5000-1,1	5	6	15	28,5	210	12	6	10	3000	2860	2240	2470	3850

SUBJET TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



ORANGE PEEL
GRABS



UNDERWATER
GRABS



CLAMSHELL GRABS



TONGS AND
GRAPPLES



ECOLOGICALLY FRIENDLY GRABS

Opened valve example:
material dropping
during grab's
transport



Closed valve
example:
ecologically
friendly grab

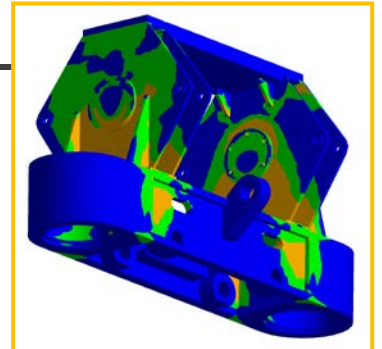


- The ecologically friendly models **avoid any risk of material dropping** during their transport.
- **Double elastic closing** between the lips of the valves for **materials in powder**.

DESIGN AND SIMULATION

• Our design office develops each design according to **F.E.M. 1001 Section I:1998**, **UNE-58132** and **UNE-EN 13155** using the latest 3D and CAD/CAM tools.

• Each new design is validated and optimised using **Finite Elements Analysis technique** in the way to analyse fatigue effects and warranty **2.000.000 cycles** for components' and machines' working life.



ELECTRO-HYDRAULIC SYSTEM FUNCTIONING

MOTOR REVERSAL		ELECTRICALLY OPERATED VALVE		
Wire quantity:	4	Wire quantity:	7	
Pump type:	Piston pump (fix flow)	Pump type:	Gear pump (fix flow)	
			Piston pump (fix flow)	
			Piston pump (variable flow)	

VARIABLE FLOW HYDRAULIC UNITS

- Electrically operated valve hydraulic units that use **variable flow piston pumps** warranty hydraulic components' working life increase in **more than 300%** in comparison with fix flow pump's functioning.
- This system **avoids oils overheating (4 times minor than with fix flow pumps)** due to Load-Sensing control. This way pumps' plate is continuously adapting its inclination in the way to **optimise the penetration force and minimise power demand (40% minor than fix flow pumps)** and increase grab's overall efficiency.

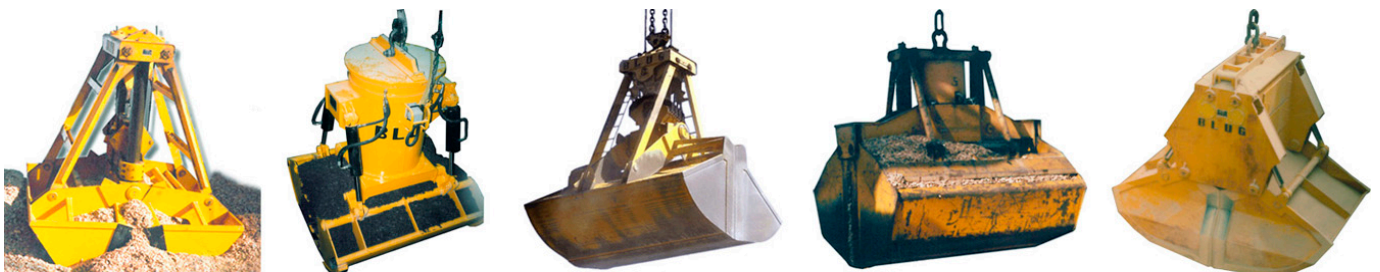
MATERIALS

- Structure manufactured in **S355 J2G3** rolled steel (elastic yield 510-610 N/mm²).
- It is possible to **install interchangeable manganese wear resistant teeth** (up to 500 HB) into grab's valves in the way to **improve machine's penetration** into the material.
- For grabs in contact with **abrasive materials** we normally recommend to manufacture valves plates in **wear resistant steel** (hardness up to 475 HBW).



CERTIFICATION

- Possibility to certify any model in **ATEX 1/21** or **2/22** zones for explosive atmospheres.



More information:
www.blug.es/eng/productos/

REFERENCE

C2-1,1

p. 20



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



MAXIMUM MATERIAL DENSITY

1,1 T/M³

CYLINDER QUANTITY

2

RELATED
PRODUCTS



C2H-1,1



PEA-1,1



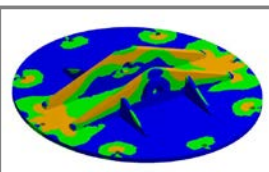
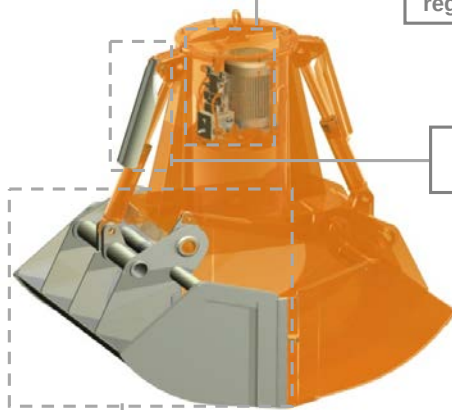
CM4-1,1

PILED AND BULK MATERIAL UP TO 1,1 t/m³ DENSITY



Hydraulic unit equipped with self-regulated piston variable flow pump

Full protected hydraulic cylinders



Structure validated by Finite Elements Analysis



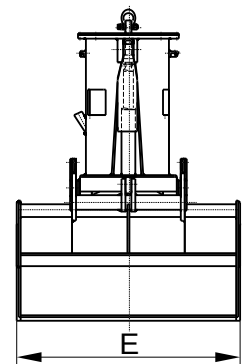
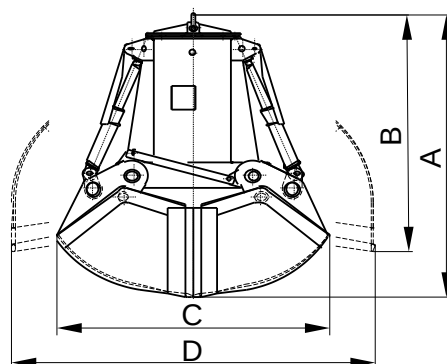
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions mm				
	m ³	kW	A	bar	s	s	t	kg	A	B	C	D	E
C2-1250-1,1	1,25	7,3	14,5	100	8	4	3,2	1370	2130	1830	1750	2330	1400
C2-1500-1,1	1,5	7,3	14,5	120	8	4	3,2	1420	2190	1840	1850	2445	1500
C2-2000-1,1	2	7,3	14,5	150	8	4	4	1520	2280	1855	2000	2625	1680
C2-2500-1,1	2,5	10	20	200	8	4	5	1610	2350	1865	2150	2760	1850
C2-3000-1,1	3	10	20	150	11	6	6,3	2380	2540	2120	2250	3010	2000
C2-3500-1,1	3,5	10	20	180	11	6	8	2470	2610	2130	2350	3150	2100
C2-4000-1,1	4	10	20	200	13	7	8	2570	2670	2145	2450	3270	2200

SUBJET TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

C2H-1,1

MAXIMUM MATERIAL DENSITY

1,1 T/M³

TYPE

LOW HEIGHT

RELATED PRODUCTS



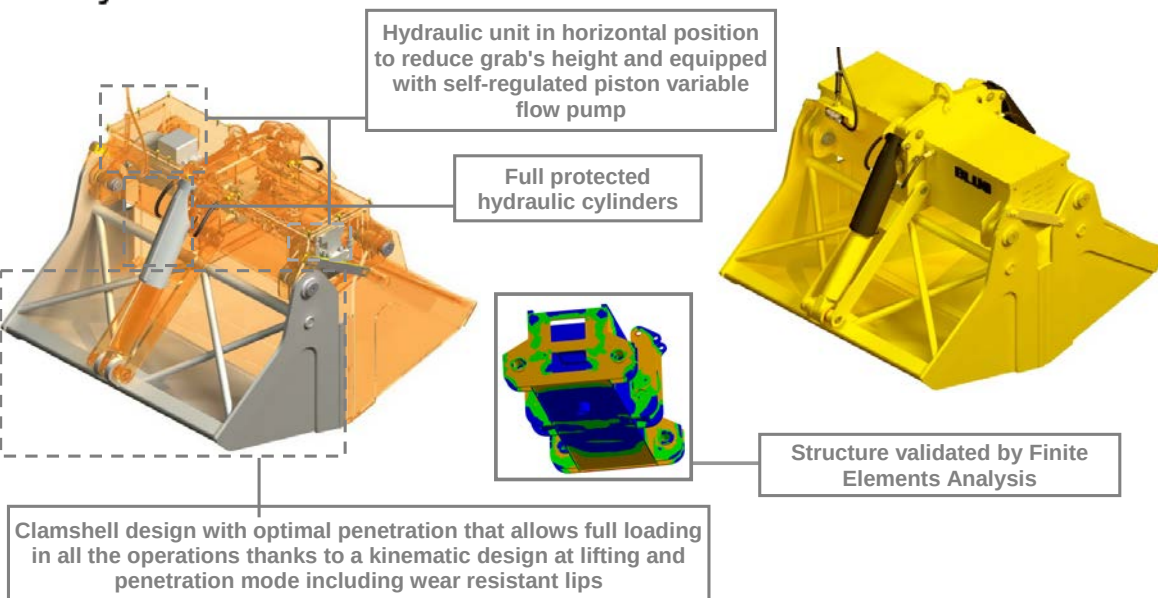
C2-1,1



PEA-1,1



C4-1,1

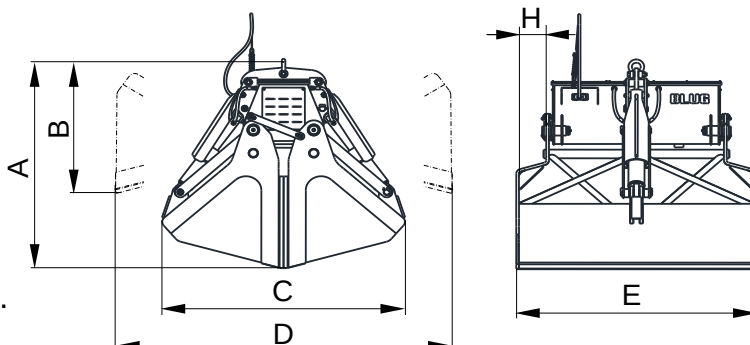


Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions mm					
	m³	kW	A	bar	s	s	t	kg	A	B	C	D	E	H
C2H-1500-1,1	1,5	7,3	14,5	150	9,5	5	3,2	1490	1720	1130	1840	2540	1700	120
C2H-2000-1,1	2	10	20	200	9,5	5	4	1680	1825	1160	1970	2735	1950	245
C2H-3000-1,1	3	10	20	170	14	7	6	2625	2065	1500	2485	3220	1800	0
C2H-4000-1,1	4	14,5	28	220	14	7	8	2930	2190	1355	2695	3465	2100	150
C2H-5000-1,1	5	14,5	28	180	13	6	10	3400	2335	1430	2870	3725	2305	205
C2H-6000-1,1	6	20,5	39	220	13	6	12	3900	2465	1465	3060	3965	2305	205
C2H-7000-1,1	7	25,5	48,5	190	13	6	14	4730	2580	1540	3225	4125	2500	255
C2H-8000-1,1	8	25,5	48,5	220	13	6	16	5020	2630	1555	3295	4225	2700	355

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



MACHINE TYPE
CLAMSHELL GRAB
WORKING SYSTEM
ELECTRO-HYDRAULIC
MATERIAL TO BE HANDLED



REFERENCE
CV2-1,1

MAXIMUM MATERIAL DENSITY
1,1 T/M³
CYLINDER QUANTITY
2

p. 22

RELATED PRODUCTS



C4-1,1



C2H-1,1



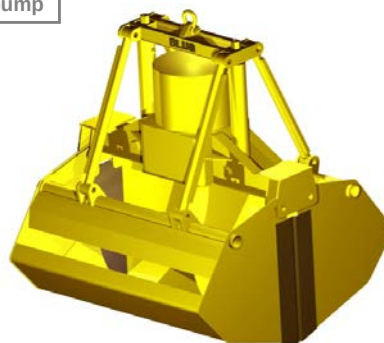
CM4-1,1

PILED AND BULK MATERIAL UP TO 1,1 t/m³ DENSITY



Hydraulic unit equipped with self-regulated piston variable flow pump

Full protected hydraulic cylinders



Structure validated by Finite Elements Analysis

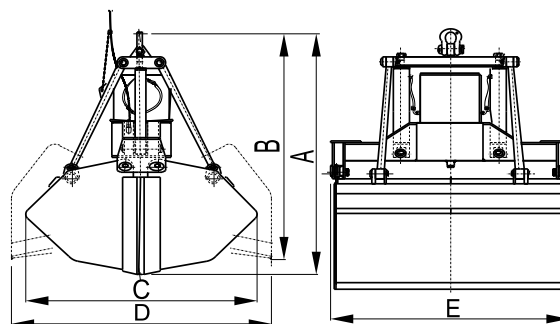
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity	Working	Closing	Opening	Crane	Weight	Dimensions				
	m ³	40% ED	400 V	pressure	time	time	SWL	kg	mm				
		kW	A	bar	s	s	t		A	B	C	D	E
CV2-3000-1,1	3	14,5	28	125	10	7	6,3	2790	2600	2670	2080	2365	2330
CV2-3500-1,1	3,5	20,5	39	150	10	7	8	2860	2700	2700	2150	2555	2330
CV2-4000-1,1	4	20,5	39	160	10	7	8	2880	2800	2730	2250	2745	2330
CV2-4500-1,1	4,5	20,5	39	170	10	7	10	3070	2850	2745	2500	2840	2330
CV2-5000-1,1	5	20,5	39	190	10	7	10	3200	2900	2760	2700	2935	2330
CV2-6000-1,1	6	31,5	61	170	12	8	12,5	4270	3300	3200	2700	3220	2520
CV2-7000-1,1	7	31,5	61	190	12	8	12,5	4450	3420	3240	2900	3450	2520
CV2-8000-1,1	8	31,5	61	210	12	8	14	4700	3560	3285	3240	3680	2520
CV2-9000-1,1	9	40	74,5	150	14	10	18	6750	3640	3500	3100	3550	3050
CV2-10000-1,1	10	40	74,5	160	14	10	18	6920	3740	3530	3200	3740	3050
CV2-11000-1,1	11	40	74,5	170	14	10	20	7100	3850	3565	3300	3950	3050
CV2-12000-1,1	12	40	74,5	180	16	11	22	7300	3965	3600	3380	4140	3050
CV2-13000-1,1	13	40	74,5	190	16	11	22	7580	4060	3635	3500	4320	3050
CV2-14000-1,1	14	40	74,5	200	16	11	25	7810	4125	3655	3610	4455	3050
CV2-16000-1,1	16	62,5	117	160	14	10	28	9785	4200	3825	3680	4350	3590
CV2-18000-1,1	18	62,5	117	170	14	10	30	10100	4340	3870	3880	4650	3590

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

C4-1,1

MAXIMUM MATERIAL DENSITY

1,1 T/M³

CYLINDER QUANTITY

4

RELATED PRODUCTS



CV2-1,1



C2H-1,1



CM4-1,1

PILED AND BULK MATERIAL UP TO 1,1 t/m³ DENSITY

Hydraulic unit equipped with self-regulated piston variable flow pump

Full protected hydraulic cylinders

Structure validated by Finite Elements Analysis

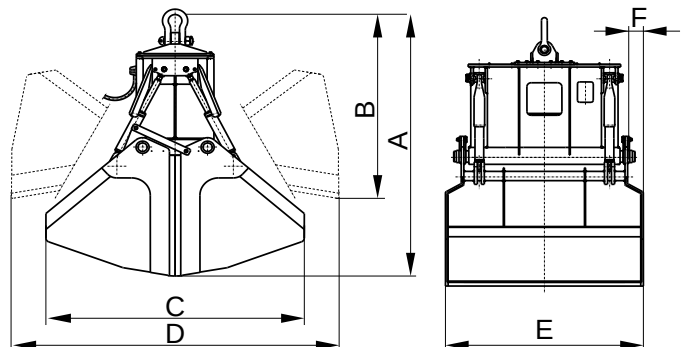
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity	Working	Closing	Opening	Crane	Weight	Dimensions					
	m ³	40% ED	400 V	pressure	time	time	SWL	kg	mm					
		kW	A	bar	s	s	t		A	B	C	D	E	F
C4-5000-1,1	5	20,5	39	140	12	6	12,5	4200	3135	2180	2950	3770	2260	0
C4-6000-1,1	6	20,5	39	150	12	6	12,5	4500	3135	2180	2950	3770	2260	200
C4-7000-1,1	7	20,5	39	165	12	6	14	5000	3140	2190	3010	3790	2620	350
C4-8000-1,1	8	25,5	48,5	150	14	7	16	6900	3715	2480	3725	4390	2360	0
C4-9000-1,1	9	25,5	48,5	170	14	7	18	7200	3720	2500	3740	4410	2420	125
C4-10000-1,1	10	31,5	61	180	14	7	20	7400	3730	2510	3750	4430	2680	250
C4-11000-1,1	11	31,5	61	200	14	7	20	7600	3740	2520	3770	4450	2950	400
C4-12000-1,1	12	40	74,5	170	14	7	25	9400	4250	2840	4280	4960	2700	0
C4-13000-1,1	13	40	74,5	190	14	7	25	9600	4260	2850	4300	4980	2950	125
C4-14000-1,1	14	40	74,5	200	14	7	30	9850	4280	2860	4320	5000	3350	200
C4-15000-1,1	15	40	74,5	210	14	7	30	10100	4290	2880	4340	5020	3950	300

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

C2-1,8

MAXIMUM MATERIAL DENSITY

1,8 T/M³

CYLINDER QUANTITY

2

p. 24

RELATED
PRODUCTS



C2H-1,8

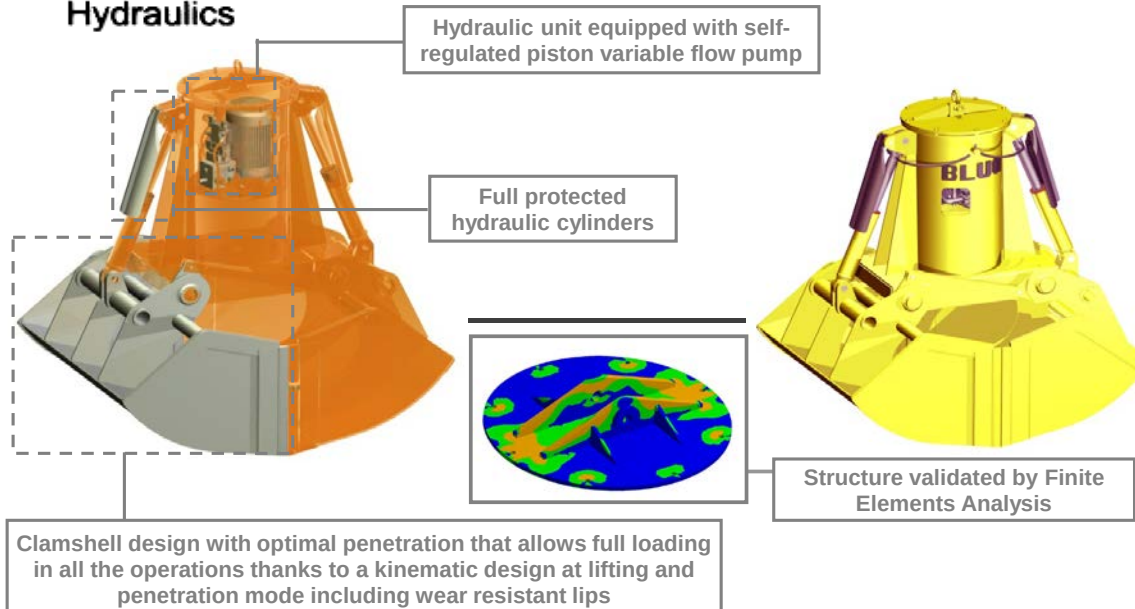


C2AP-1,8



CM4-1,8

PILED AND BULK MATERIAL UP TO 1,8 t/m³ DENSITY

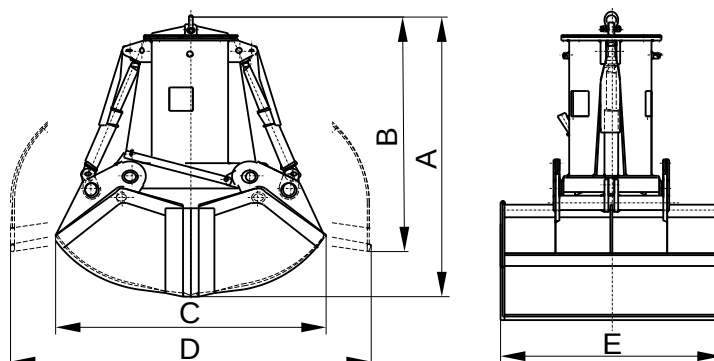


Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions mm				
	m ³	kW	A	bar	s	s	t	kg	A	B	C	D	E
C2-1000-1,8	1	7,3	14,5	120	7	4	4	1430	2080	1820	1750	2230	1250
C2-1250-1,8	1,25	10	20	160	7	4	4	1500	2170	1835	1850	2410	1300
C2-1500-1,8	1,5	10	20	180	8	4	5	1560	2230	1845	1950	2525	1400
C2-2000-1,8	2	10	20	160	11	6	6,3	2330	2430	2100	2150	2800	1600
C2-2500-1,8	2,5	10	20	200	13	7	8	2450	2530	2120	2250	2995	1700
C2-3000-1,8	3	20,5	39	150	11	5	10	3230	2930	2510	2450	3220	1800
C2-3500-1,8	3,5	20,5	39	180	11	5	10	3360	2990	2520	2550	3335	1900

SUBJET TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

C2H-1,8

MAXIMUM MATERIAL DENSITY

1,8 T/M³

TYPE

LOW HEIGHT

p. 25

RELATED PRODUCTS



C2-1,8



CV2-1,8



CM4-1,8

PILED AND BULK MATERIAL UP TO 1,8 t/m³ DENSITY



Hydraulic unit in horizontal position to reduce grab's height and equipped with self-regulated piston variable flow pump

Full protected hydraulic cylinders



Structure validated by Finite Elements Analysis

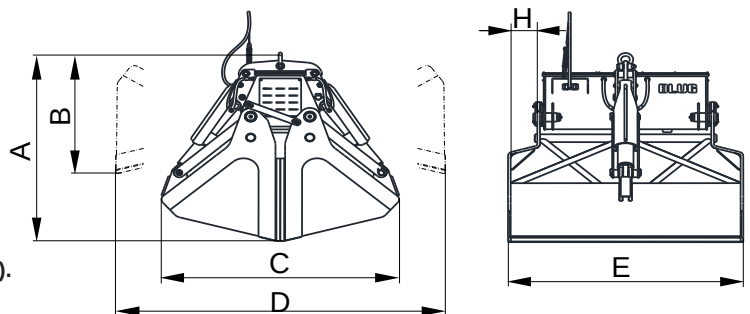
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity	Working	Closing	Opening	Crane	Weight	Dimensions					
	m ³	40% ED	400 V	pressure	time	time	SWL	kg	A	B	C	D	E	H
C2H-1250-1,8	1,25	7,3	14,5	150	10	5	4	1520	1695	1155	1800	2465	1665	100
C2H-1500-1,8	1,5	10	20	200	10	5	6	1550	1765	1175	1840	2540	1700	120
C2H-2000-1,8	2	10	20	170	14	7	6	2420	1890	1275	2300	2880	1810	0
C2H-2500-1,8	2,5	14,5	28	210	14	7	8	2520	1920	1285	2370	2935	1800	0
C2H-3000-1,8	3	14,5	28	180	13	7	10	3010	2070	1360	2585	3200	1900	0
C2H-3500-1,8	3,5	20,5	39	220	13	7	12	3560	2070	1360	2585	3200	2255	180
C2H-4500-1,8	4,5	20,5	39	170	13	7	14	4175	2365	1485	2960	3720	1990	0
C2H-5000-1,8	5	25,5	48,5	180	13	7	16	4290	2325	1475	2910	3640	2500	255
C2H-5500-1,8	5,5	25,5	48,5	210	13	7	16	4450	2325	1475	2910	3640	2600	305

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

CV2-1,8

MAXIMUM MATERIAL DENSITY

1,8 T/M³

CYLINDER QUANTITY

2

p. 26

RELATED PRODUCTS



C4-1,8



C2H-1,8



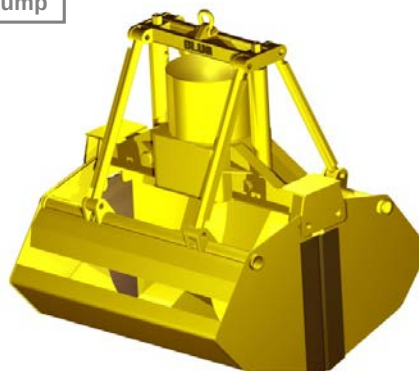
CM4-1,8

PILED AND BULK MATERIAL UP TO 1,8 t/m³ DENSITY



Hydraulic unit equipped with self-regulated piston variable flow pump

Full protected hydraulic cylinders



Structure validated by Finite Elements Analysis

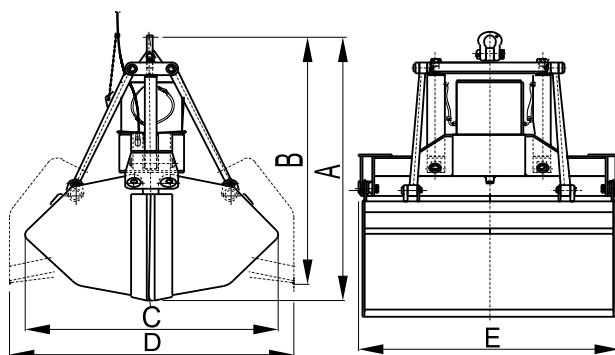
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity	Working	Closing	Opening	Crane	Weight	Dimensions				
	m ³	40% ED	400 V	pressure	time	time	SWL	kg	A	B	C	D	E
CV2-3000-1,8	3	20,5	39	190	10	7	10	2960	2650	2630	2350	2510	2000
CV2-3500-1,8	3,5	31,5	61	170	12	8	10	3650	2750	2655	2450	2700	2000
CV2-4000-1,8	4	31,5	61	200	12	8	12	3970	3050	3065	2750	2800	2150
CV2-5000-1,8	5	40	74,5	160	14	10	16	5750	3300	3330	2900	2965	2450
CV2-6300-1,8	6,3	40	74,5	200	16	11	20	6060	3480	3380	3100	3310	2450
CV2-8000-1,8	8	62,5	117	200	16	11	25	8200	3630	3570	3200	3395	3000
CV2-10000-1,8	10	62,5	117	170	19	14	32	11350	3950	3955	3350	3500	3500
CV2-12500-1,8	12,5	70	129	180	19	14	40	11900	4150	4005	3700	3885	3500

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/

REFERENCE

C4-1,8

p. 27



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



MAXIMUM MATERIAL DENSITY

1,8 T/M³

CYLINDER QUANTITY

4

RELATED PRODUCTS



CV2-1,8



C2H-1,8



CM4-1,8

PILED AND BULK MATERIAL UP TO 1,8 t/m³ DENSITY



Hydraulic unit equipped with self-regulated piston variable flow pump

Full protected hydraulic cylinders

Structure validated by Finite Elements Analysis

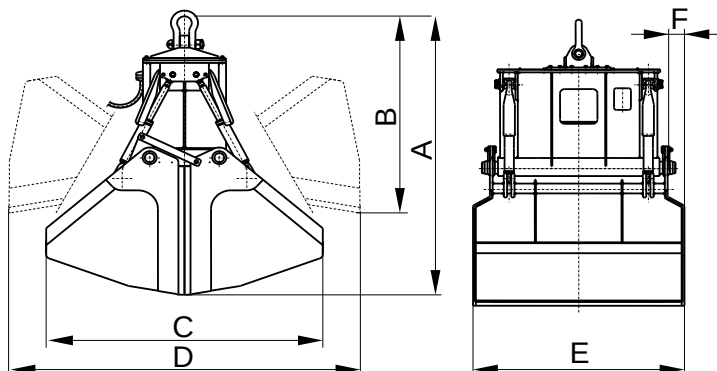
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity	Working	Closing	Opening	Crane	Weight	Dimensions					
	m ³	40% ED	400 V	pressure	time	time	SWL		mm					
		kW	A	bar	s	s	t	kg	A	B	C	D	E	F
C4-4000-1,8	4	20,5	39	165	12	6	12,5	4900	2960	2100	2760	3340	2070	0
C4-5000-1,8	5	25,5	48,5	170	14	7	16	6800	3360	2460	2940	3700	2360	0
C4-6000-1,8	6	31,5	61	200	14	7	18	7100	3380	2470	2960	3720	2760	200
C4-7000-1,8	7	31,5	61	215	14	7	20	7400	3400	2480	2980	3740	3460	350
C4-8000-1,8	8	40	74,5	210	14	7	25	9200	3810	2780	3630	4170	2700	0
C4-9500-1,8	9,5	40	74,5	220	14	7	30	10100	3830	2790	3650	4190	3200	250

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/

REFERENCE

C2-2,8

p. 28



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



MAXIMUM MATERIAL DENSITY

2,8 T/M³

CYLINDER QUANTITY

2

RELATED PRODUCTS



C2H-2,8



C2A-2,8



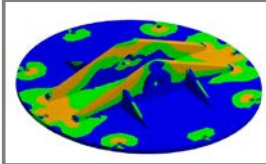
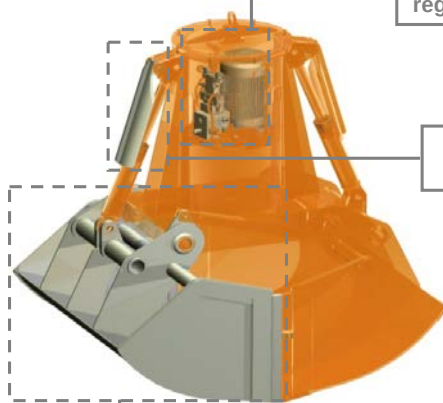
CM4-2,8

PILED AND BULK MATERIAL UP TO 2,8 t/m³ DENSITY



Hydraulic unit equipped with self-regulated piston variable flow pump

Full protected hydraulic cylinders



Structure validated by Finite Elements Analysis



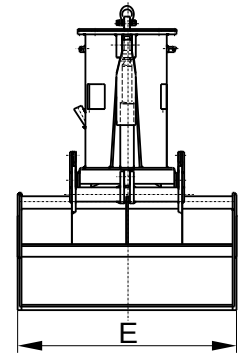
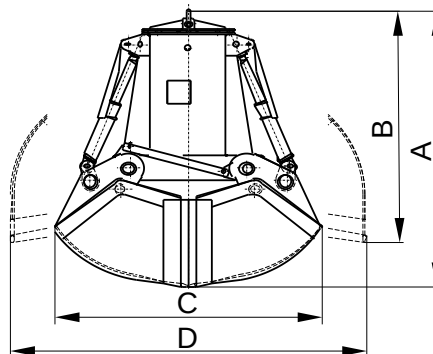
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions mm				
	m ³	kW	A	bar	s	s	t	kg	A	B	C	D	E
C2-500-2,8	0,5	7,3	14,5	110	7	4	3,2	1330	1900	1790	1650	1880	1020
C2-750-2,8	0,75	10	20	150	7	4	4	1470	2000	1805	1800	2080	1100
C2-1000-2,8	1	10	20	200	8	4	5	1570	2080	1820	1950	2225	1170
C2-1250-2,8	1,25	10	20	150	11	6	6,3	2220	2280	2075	2050	2505	1280
C2-1500-2,8	1,5	10	20	180	11	6	8	2370	2340	2085	2100	2625	1380
C2-2000-2,8	2	20,5	39	150	11	8	10	3080	2800	2485	2300	2965	1470
C2-2500-2,8	2,5	25,5	48,5	190	11	8	12	3230	2880	2500	2400	3120	1600
C2-3000-2,8	3	25,5	48,5	220	11	8	12	3380	2950	2510	2500	3260	1730

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

C2H-2,8

MAXIMUM MATERIAL DENSITY

2,8 T/M³

TYPE

LOW HEIGHT

p. 29

RELATED PRODUCTS



C2-2,8

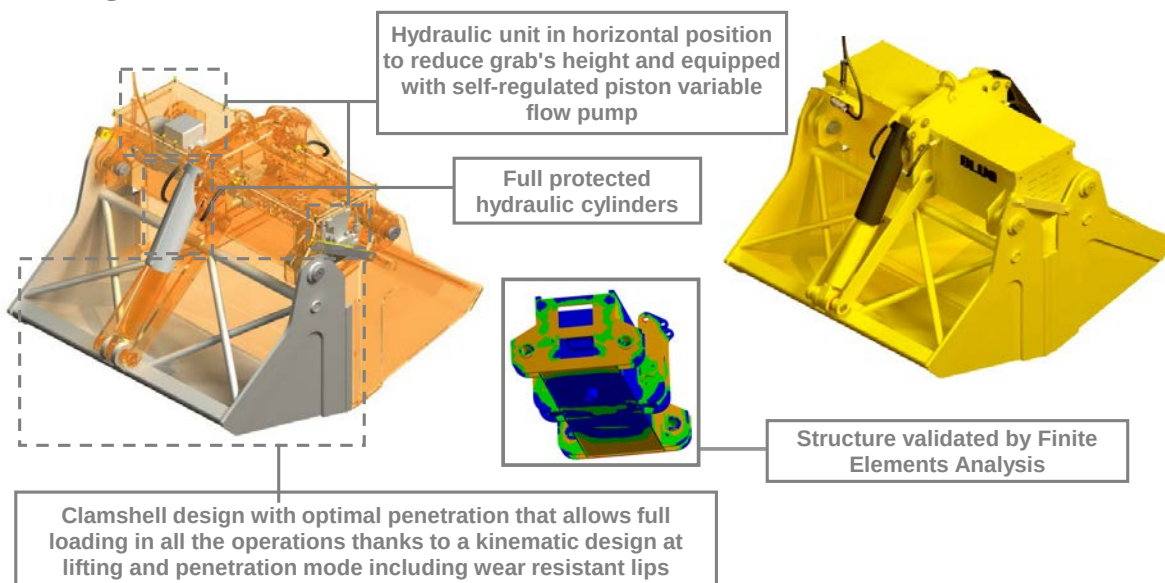


CV2-2,8



C2A-2,8

PILED AND BULK MATERIAL UP TO 2,8 t/m³ DENSITY

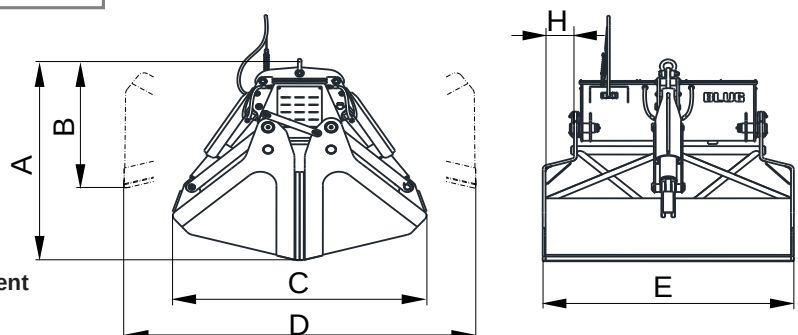


Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions					
	m ³	kW	A	bar	s	s	t	kg	A	B	C	D	E	H
C2H-800-2,8	0,8	7,3	14,5	150	10	5	4	1570	1645	1145	1800	2310	1465	0
C2H-1000-2,8	1	10	20	190	10	5	6	1635	1645	1145	1800	2310	1655	95
C2H-1600-2,8	1,6	14,5	28	180	14	7	8	2350	1770	1245	2300	2645	1800	0
C2H-2000-2,8	2	14,5	28	160	13	7	10	2935	1865	1305	2445	2805	1905	0
C2H-2500-2,8	2,5	20,5	39	220	13	7	12	3315	1965	1340	2445	2975	1895	0
C2H-3000-2,8	3	25,5	48,5	180	13	7	14	3820	2120	1420	2600	3240	1990	0
C2H-3500-2,8	3,5	25,5	48,5	210	13	7	16	3920	2120	1420	2600	3240	2250	130

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



REFERENCE

CV2-2,8

p. 30

RELATED PRODUCTS



C4-2,8



C2H-2,8



CM4-2,8

MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

ELECTRO-HYDRAULIC

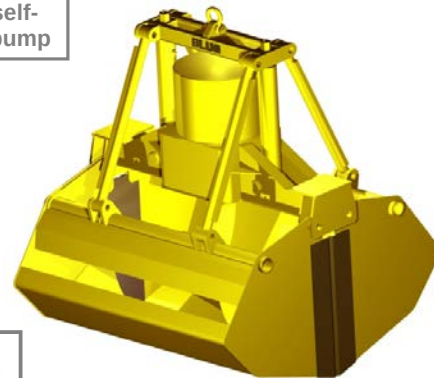
MATERIAL TO BE HANDLED

PILED AND BULK MATERIAL UP TO 2,8 t/m³ DENSITY



Hydraulic unit equipped with self-regulated piston variable flow pump

Full protected hydraulic cylinders



Structure validated by Finite Elements Analysis

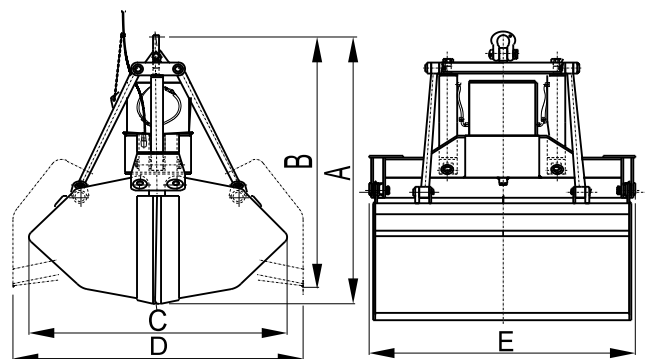
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions mm				
	m ³	kW	A	bar	s	s	t	kg	A	B	C	D	E
CV2-3000-2,8	3	31,5	61	200	12	8	16	4250	2690	2975	2155	2100	2150
CV2-3500-2,8	3,5	40	74,5	170	14	10	16	5450	3170	3260	2500	2745	2150
CV2-4000-2,8	4	40	74,5	190	16	11	20	5630	3230	3275	2800	2860	2150
CV2-5000-2,8	5	62,5	117	180	14	10	25	7550	3400	3470	2900	2985	2490
CV2-6300-2,8	6,3	62,5	117	170	19	14	32	10750	3730	3855	3100	3110	2850
CV2-8000-2,8	8	70	129	200	19	14	40	11300	3910	3895	3500	3460	2850

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE
CLAMSHELL GRAB
WORKING SYSTEM
ELECTRO-HYDRAULIC
MATERIAL TO BE HANDLED



REFERENCE

C4-2,8

p. 31

RELATED
PRODUCTS



CV2-2,8



C2H-2,8



CM4-2,8

MAXIMUM MATERIAL DENSITY

2,8 T/M³

CYLINDER QUANTITY

4

PILED AND BULK MATERIAL UP TO 2,8 t/m³ DENSITY



Hydraulic unit equipped with self-regulated piston variable flow pump

Full protected hydraulic cylinders



Structure validated by Finite Elements Analysis

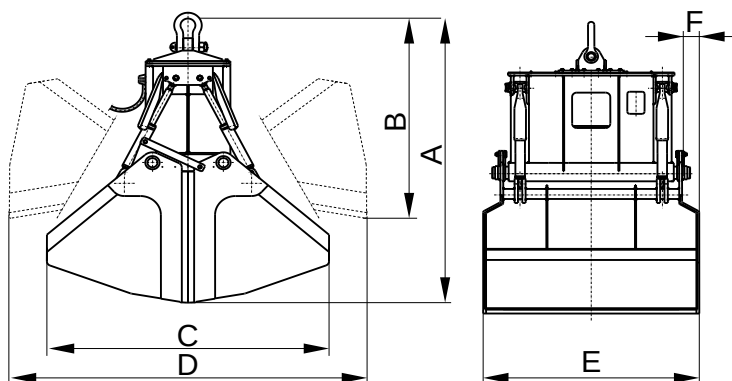
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions					
	m ³	kW	A	bar	s	s	t	kg	A	B	C	D	E	F
C4-3500-2,8	3,5	25,5	48,5	170	14	7	18	6500	3100	2380	2440	3180	2360	0
C4-4000-2,8	4	31,5	61	190	14	7	18	6800	3190	2410	2590	3330	2360	0
C4-5000-2,8	5	40	74,5	190	14	7	25	8900	3470	2720	2980	3490	2700	0
C4-6300-2,8	6,3	40	74,5	220	14	7	30	9800	3490	2730	3000	3510	3300	300

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE
CLAMSHELL GRAB
WORKING SYSTEM
HYDRAULIC
MATERIAL TO BE HANDLED

STONES, GRAVEL, SAND, MUDS, UNDERWATER WASTES IN DRAINAGE WORKINGS,
 PILED AND BULK MATERIAL UP TO 2,8 t/m³ DENSITY

REFERENCE

CNAH-2,8

p. 32

RELATED PRODUCTS



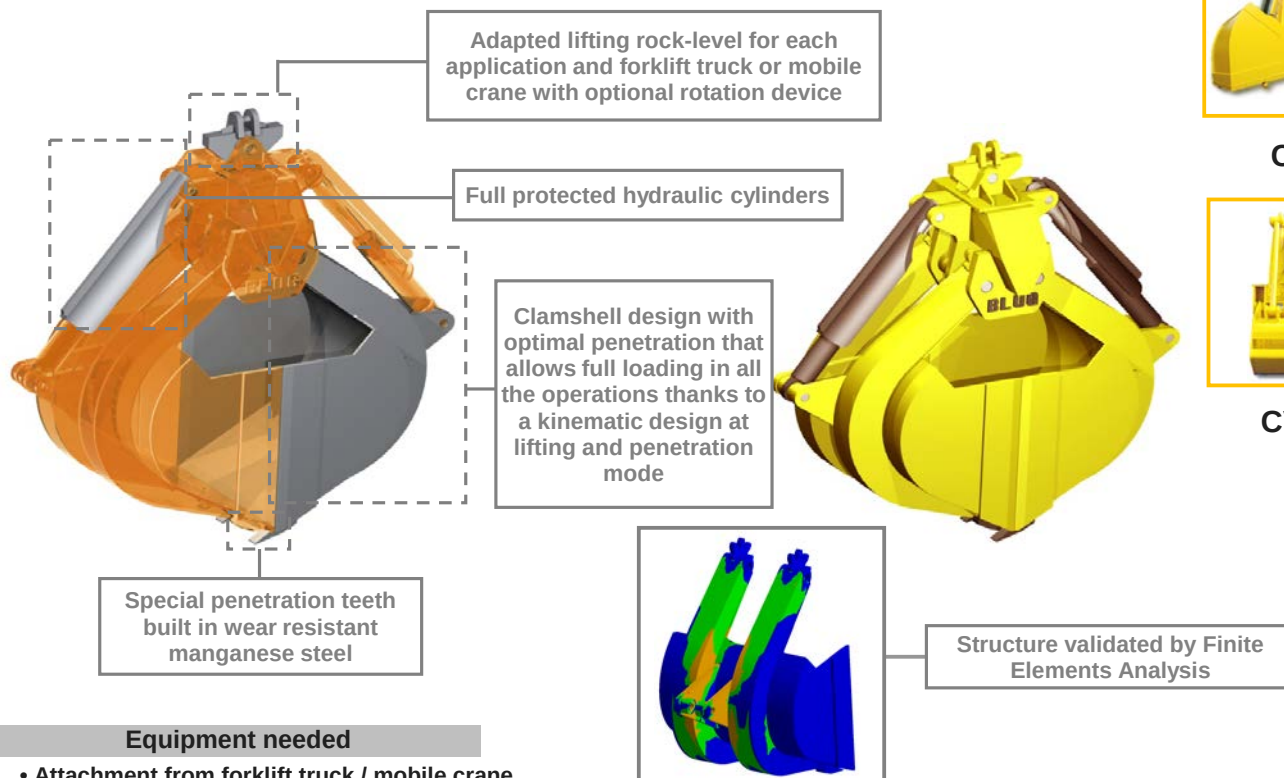
PNA-3



C2-2,8



CV2-2,8

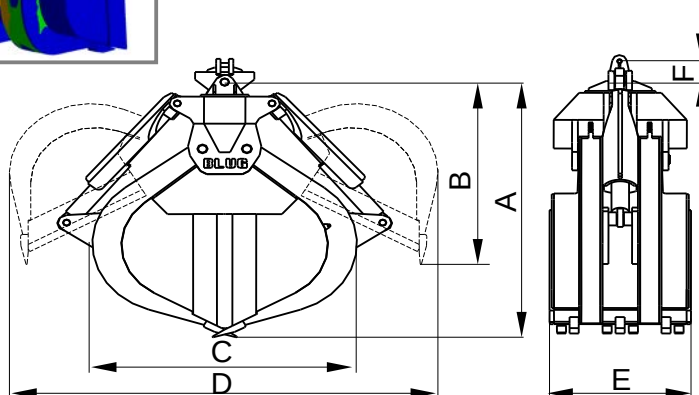


Equipment needed

- Attachment from forklift truck / mobile crane.
- Hydraulic supply from external system.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Mechanical (120°) or hydraulic (360°) rotation device.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Cylinder quantity	Working pressure	Crane SWL	Weight	Dimensions mm					
	m ³		bar	t	kg	A	B	C	D	E	F
CNAH-250-2,8	0,25	2	250	2,5	1040	2170	1600	1490	1960	420	Depending on forklift truck / mobile crane's suspension
CNAH-400-2,8	0,4	2	250	2,5	1100	2170	1600	1490	1960	610	
CNAH-550-2,8	0,55	2	250	3,2	1180	2170	1600	1490	1960	800	
CNAH-650-2,8	0,65	2	250	3,2	1250	2200	1620	1510	1980	1000	
CNAH-800-2,8	0,8	2	250	4	1320	2200	1620	1510	1980	2000	

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



MACHINE TYPE
CLAMSHELL GRAB

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED

FERTILIZER, CEREALS, COAL, CEMENT, CLINKER, PILED AND BULK MATERIAL UP TO 1,8 t/m³ DENSITY



REFERENCE
CM1-1,8

MAXIMUM MATERIAL DENSITY

1,8 T/M³

CABLE QUANTITY

1

p. 33

RELATED PRODUCTS



CM1R-1,8



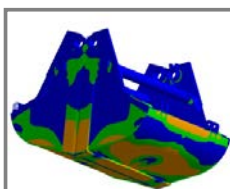
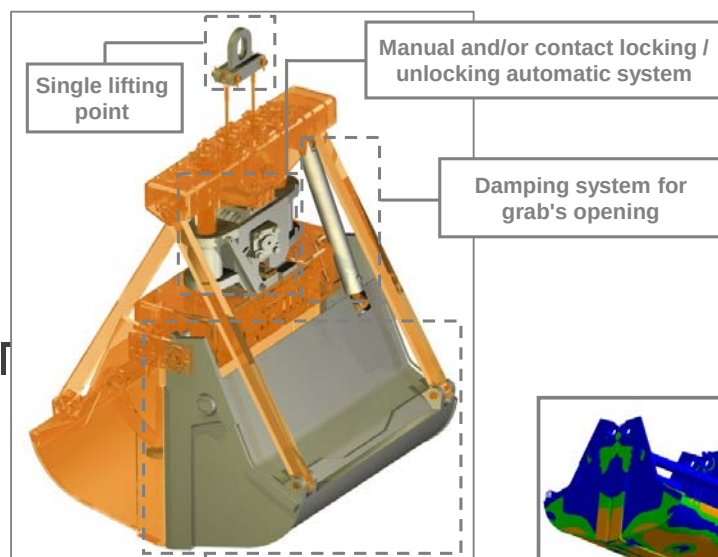
CM2-1,8



CM4-1,8



Structure validated by Finite Elements Analysis



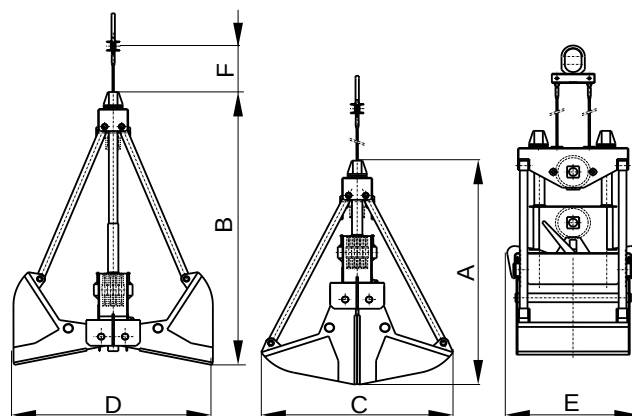
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- 1 lifting cable.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Withdrawn cable	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm					
	m ³	m	mm	mm	t	kg	A	B	C	D	E	F
CM1-500-1,8	0,5	4,1	240	13	3	1850	1860	2300	1590	1645	1130	6705
CM1-1000-1,8	1	4,1	240	16	4	2100	2105	2395	1750	2075	1280	7250
CM1-1500-1,8	1,5	4,1	360	20	5,5	2500	2455	2730	1750	2110	1980	7440
CM1-2000-1,8	2	4,1	360	20	6,5	2900	2555	2765	1750	2370	2080	7600
CM1-2500-1,8	2,5	5	360	22	8	3400	3005	3365	2160	2555	2100	8500
CM1-3000-1,8	3	5	450	24	9	3780	3105	3405	2160	2745	2200	8600
CM1-3500-1,8	3,5	5	450	24	10	4150	3205	3435	2160	2930	2240	8700
CM1-4000-1,8	4	5	450	24	12	4500	3305	3470	2335	3120	2260	8800
CM1-4500-1,8	4,5	5	560	28	14	5100	3760	3890	2335	3215	2320	9260
CM1-5000-1,8	5	5	560	28	15	5700	3860	3905	2335	3400	2380	9360
CM1-6000-1,8	6	5	560	28	18	6300	3960	3960	2335	3590	2500	9460

SUBJECT TO CHANGE WITHOUT NOTICE.

Reeving system 1:3 / 1:4

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

MECHANICAL (RADIO CONTROLL)

MATERIAL TO BE HANDLED

CEMENT, CLINKER, BAUXITE, FELDSPAR, PILED AND BULK MATERIAL UP TO 1,8 t/m³ DENSITY

REFERENCE

CM1R-1,8

p. 34

RELATED PRODUCTS



CM1-1,8



CM2-1,8



CM4-1,8

Damping system for grab's opening

Radio controlled opening operation. There is no electric supply to the grab

Unlocking system commanded by an hydraulic cylinder

Structure validated by Finite Elements Analysis

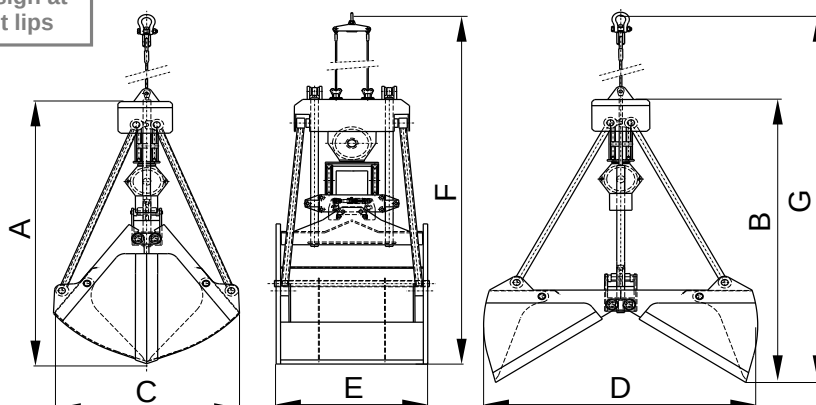
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- 1 lifting cable.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Withdraw n cable	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm						
	m ³	m	mm	mm	t	kg	A	B	C	D	E	F	G
CM1R-3400-1,8	3,4	3,4	450	22	10	3750	2980	3135	2535	2870	2130	7045	7200
CM1R-4200-1,8	4,2	3,4	450	24	12,5	4750	2970	3090	2245	2915	2425	6850	6970
CM1R-5400-1,8	5,4	3,5	500	26	16	6000	3210	3350	2500	3170	2510	7410	7550
CM1R-6500-1,8	6,5	3,7	565	28	20	7500	3485	3615	2650	3410	2700	7900	8025
CM1R-8500-1,8	8,5	4,1	625	32	25	9300	3940	4065	2885	3725	2975	8710	8840
CM1R-10000-1,8	10	4,8	700	36	30	10000	4100	4300	3100	3900	3200	9500	9300
CM1R-11500-1,8	11,5	5	700	36	32	10800	4250	4610	3320	4200	3425	10300	10700

SUBJET TO CHANGE WITHOUT NOTICE.

Reeving system 1:3 / 1:4

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



MACHINE TYPE
CLAMSHELL GRAB

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED



REFERENCE

CM2-1,8

MAXIMUM MATERIAL DENSITY

1,8 T/M³

CABLE QUANTITY

2

RELATED PRODUCTS



CM1-1,8



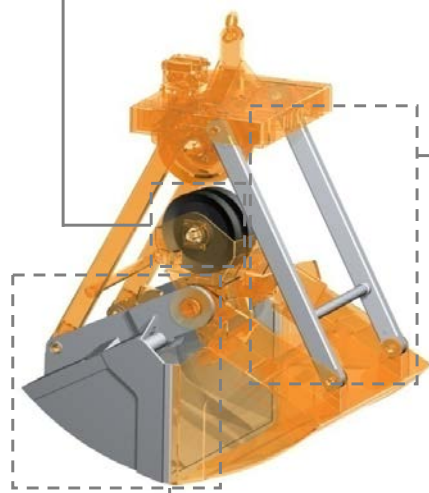
CM1R-1,8



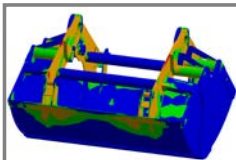
CM4-1,8

CEMENT, CLINKER, PILED AND BULK MATERIAL UP TO 1,8 t/m³ DENSITY

Pulleys block with tempered contact surfaces
and mounted on cushions / rollings



Articulated arms to compensate
disalignment
between valves
and top body



Structure validated by Finite
Elements Analysis

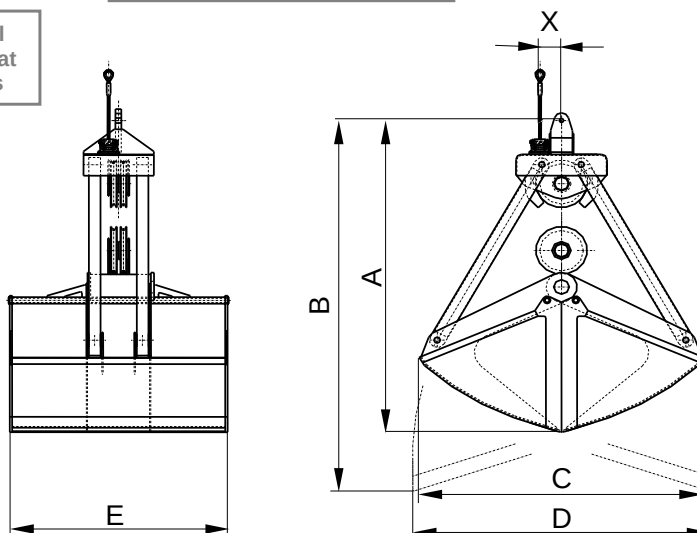
Clamshell design with optimal penetration that allows full
loading in all the operations thanks to a kinematic design at
lifting and penetration mode including wear resistant lips

Equipment needed

- 1 lifting cable.
- 1 opening / closing cable.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Withdrawn cable	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm					
	m ³	m	mm	mm	t	kg	A	B	C	D	E	X
CM2-1000-1,8	1	5,3	355	18	4	1375	2200	2460	1560	1900	1600	175
CM2-1250-1,8	1,2	5,8	355	20	4	1485	2300	2570	1660	2150	1600	175
CM2-1500-1,8	1,5	6,8	355	22	5	1760	2620	3050	2020	2220	1800	210
CM2-2000-1,8	2	7,5	400	22	6,3	1928	2720	3210	2180	2410	1850	210
CM2-2250-1,8	2,25	7,5	400	24	8	2035	2770	3220	2180	2520	1900	210
CM2-2500-1,8	2,5	7,2	400	26	8	2574	2860	3260	2140	2480	2050	250
CM2-3000-1,8	3	8	400	26	10	2640	2930	3410	2320	2600	2200	250
CM2-3500-1,8	3,5	8,5	400	28	10	2728	2990	3520	2440	2720	2300	250
CM2-4000-1,8	4	9	500	30	12	3300	3400	3830	3580	3280	2300	260
CM2-4500-1,8	4,5	9	500	30	12	3410	3460	3840	2580	3400	2400	260
CM2-5000-1,8	5	9,3	500	32	16	3564	3500	3900	2650	3480	2500	260

SUBJECT TO CHANGE WITHOUT NOTICE.

Reeving system 1:3 / 1:4

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



MACHINE TYPE
CLAMSHELL GRAB

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED



REFERENCE
CM4-0,8

MAXIMUM MATERIAL DENSITY

0,8 T/M³

CABLE QUANTITY

4

p. 36

RELATED PRODUCTS



CM4G-0,8



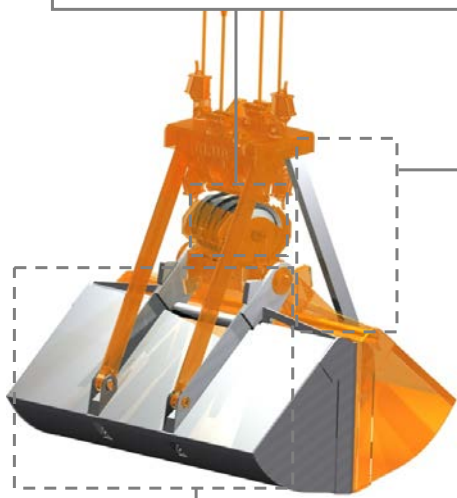
CM4-1,1



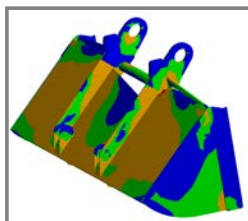
CM4G-1,1

FERTILIZER, PILED AND BULK MATERIAL UP TO 0,8 t/m³ DENSITY

Pulleys block with tempered contact surfaces
and mounted on cushions / rollings



Articulated arms to
compensate misalignment
between valves and top
body



Structure validated by Finite
Elements Analysis

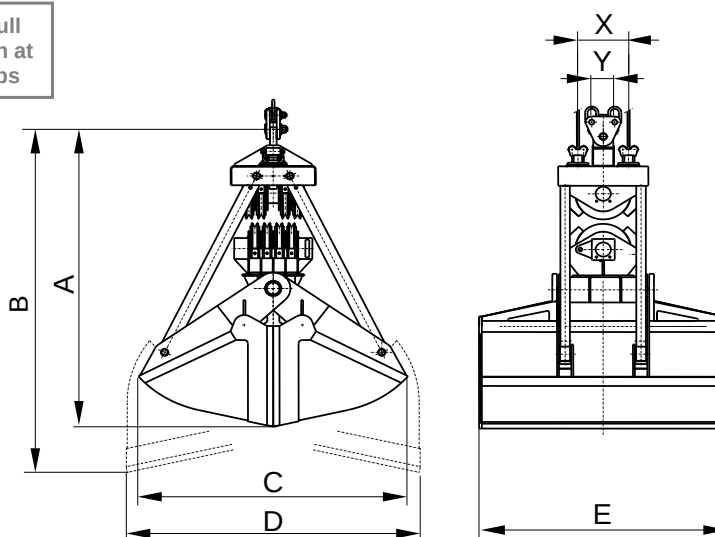
Clamshell design with optimal penetration that allows full
loading in all the operations thanks to a kinematic design at
lifting and penetration mode including wear resistant lips

Equipment needed

- 2 lifting cables.
- 2 opening / closing cables.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity 30° slope	Withdrawn cable	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm						
	m ³	m	mm	mm	t	kg	A	B	C	D	E	X	Y
CM4-3250-0,8	3,25	3	355	16	5	1800	2830	3210	2400	2640	2050	380	160
CM4-4250-0,8	4,25	3	355	16	6,3	2500	2830	3210	2400	2640	2680	380	160
CM4-5500-0,8	5,5	3,6	450	22	8	3100	3540	3710	2745	3560	2260	480	220
CM4-7500-0,8	7,5	3,6	450	22	10	3500	3540	3710	2745	3560	3050	480	220
CM4-9000-0,8	9	7,8	560	26	12,5	5200	3865	4325	3155	3770	2780	595	280
CM4-12000-0,8	12	7,8	560	26	16	6400	3865	4325	3155	3770	3520	595	280
CM4-14000-0,8	14	8,9	630	32	20	8600	4755	5190	3940	5180	3100	670	350
CM4-18500-0,8	18,5	8,9	630	32	25	9500	4805	5190	4030	5275	3920	670	350
CM4-20000-0,8	20	8,9	630	32	32	10600	4805	5190	4030	5275	4250	670	350
CM4-25000-0,8	25	9,1	710	36	40	12200	5200	5320	4300	5480	3960	755	380

SUBJECT TO CHANGE WITHOUT NOTICE.

Reeving system 1:3 / 1:4

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE
CLAMSHELL GRAB
WORKING SYSTEM
MECHANICAL
MATERIAL TO BE HANDLED



REFERENCE
CM4G-0,8

MAXIMUM MATERIAL DENSITY
0,8 T/M³
CABLE QUANTITY
4

p. 37

RELATED PRODUCTS



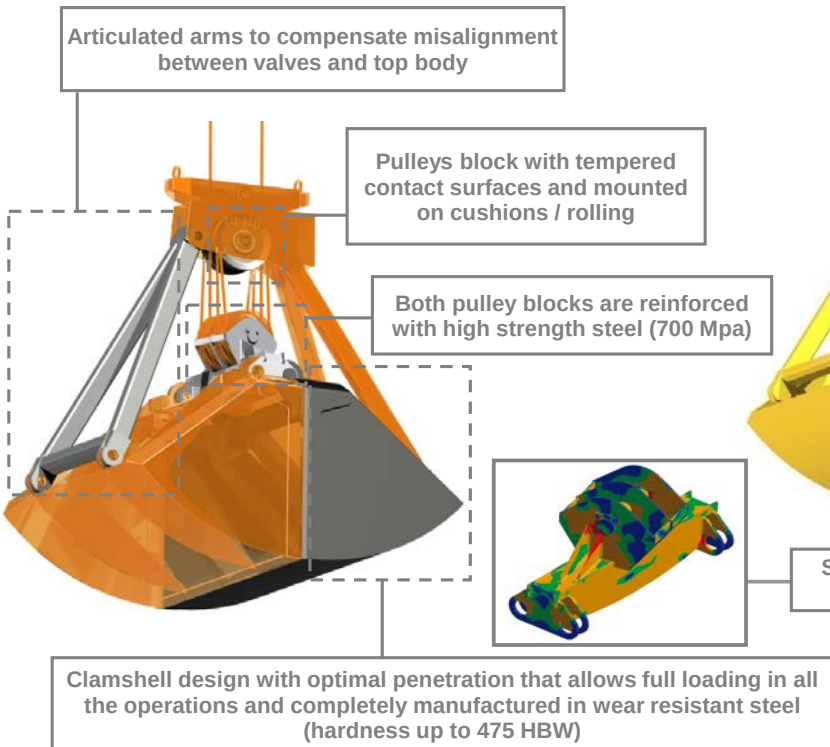
CM4-0,8



CM4G-1,1



CM4-1,1

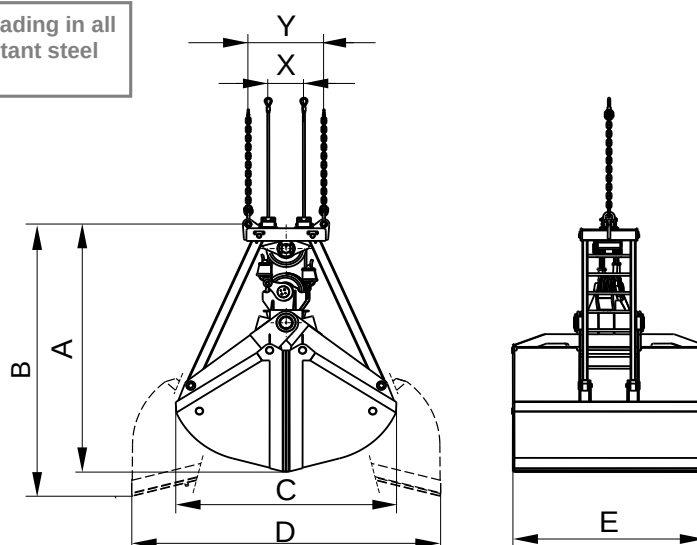


Equipment needed

- 2 lifting cables.
- 2 opening / closing cables.

Technical information

- Ecologically friendly closed valve structure (optional).
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity 30° slope	Withdrawn cable	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm						
	m ³	m	mm	mm	t	kg	A	B	C	D	E	X	Y
CM4G-26000-0,8	26	9	560	32	32	9900	4800	6080	4450	5320	4000	595	1000
CM4G-28500-0,8	28,5	9,8	630	36	35	11300	4970	6150	4530	5470	4200	670	1400
CM4G-30000-0,8	30	9,8	630	36	40	12200	5050	6200	4600	5600	4400	670	1400
CM4G-35000-0,8	35	9,8	630	36	45	13400	5250	6530	4750	5800	4450	670	1400
CM4G-40000-0,8	40	10,5	710	40	50	14900	5500	6650	5300	5850	4600	755	2400
CM4G-45000-0,8	45	10,5	710	40	55	15800	5700	6750	5600	6000	4800	755	2400

SUBJECT TO CHANGE WITHOUT NOTICE.

Reeving system 1:3

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



MACHINE TYPE
CLAMSHELL GRAB

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED



REFERENCE
CM4-1,1

MAXIMUM MATERIAL DENSITY

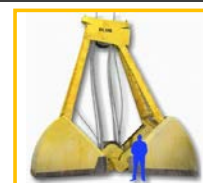
1,1 T/M³

CABLE QUANTITY

4

p. 38

RELATED PRODUCTS



CM4G-1,1



CM4-0,8



CM4G-0,8

FERTILIZER, CEREALS, COAL, PILED AND BULK MATERIAL UP TO 1,1 t/m³ DENSITY

Pulleys block with tempered contact surfaces
and mounted on cushions / rollings

Articulated arms to
compensate
misalignment between
valves and top body

Structure validated by Finite
Elements Analysis

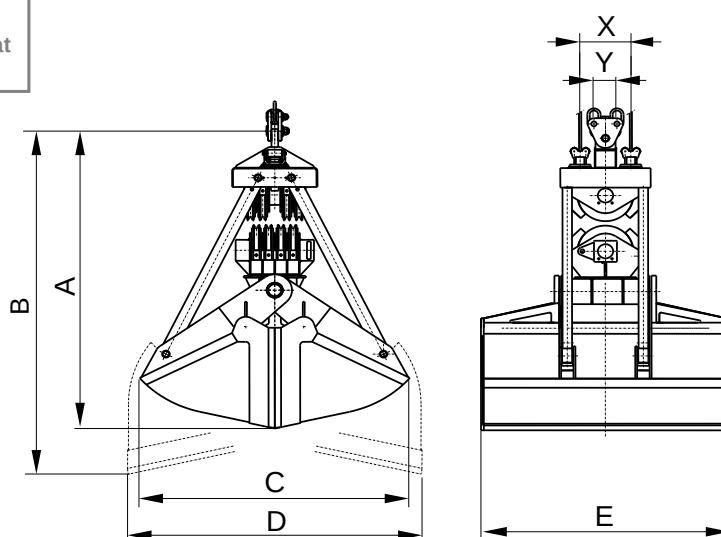
Clamshell design with optimal penetration that allows full
loading in all the operations thanks to a kinematic design at
lifting and penetration mode including wear resistant lips

Equipment needed

- 2 lifting cables.
- 2 opening / closing cables.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity 35° slope	Withdrawn cable	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm						
	m ³	m	mm	mm	t	kg	A	B	C	D	E	X	Y
CM4-2500-1,1	2,5	4,1	355	16	5	1900	2775	3085	2085	2300	1950	380	160
CM4-3500-1,1	3,5	4,1	355	16	8	2600	2830	3210	2400	2640	1960	380	160
CM4-4500-1,1	4,5	4,8	450	22	10	3200	3540	3710	2745	3560	2035	480	220
CM4-5500-1,1	5,5	4,8	450	22	10	3600	3640	3725	2920	3755	2135	480	220
CM4-7000-1,1	7	7,8	560	26	12,5	4800	3865	4325	3155	3770	2155	595	280
CM4-9000-1,1	9	7,8	560	26	16	6000	3965	4345	3320	3965	2455	595	280
CM4-11000-1,1	11	7,8	560	26	20	7000	4065	4370	3495	4160	2705	595	280
CM4-14500-1,1	14,5	8,9	630	32	25	8600	4705	5165	3735	5095	3055	670	350
CM4-18000-1,1	18	8,9	630	32	32	10100	4805	5190	4030	5275	3505	670	350
CM4-23000-1,1	23	9,1	710	36	40	12900	5200	5320	4300	5480	3650	755	380

SUBJECT TO CHANGE WITHOUT NOTICE.

Reeving system 1:4

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



BLUG
YOUR SMART HANDLING SOLUTIONS

MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED



MAXIMUM MATERIAL DENSITY

1,1 T/M³

CABLE QUANTITY

4

RELATED PRODUCTS



CM4-1,1



CM4G-0,8



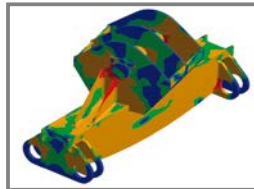
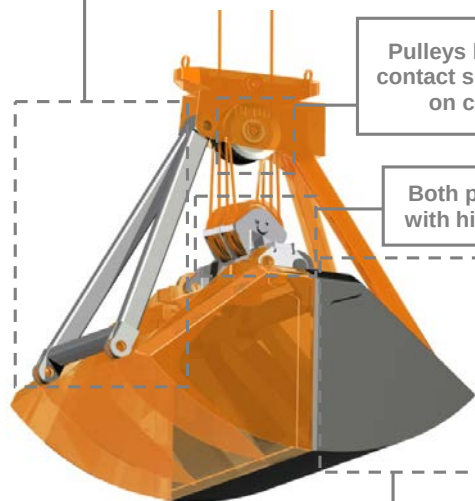
CM4-0,8

FERTILIZER, CEREALS, COAL, PILED AND BULK MATERIAL UP TO 1,1 t/m³ DENSITY

Articulated arms to compensate misalignment between valves and top body

Pulleys block with tempered contact surfaces and mounted on cushions / rolling

Both pulley blocks are reinforced with high strength steel (700 Mpa)



Structure validated by Finite Elements Analysis



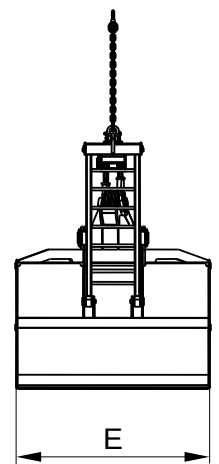
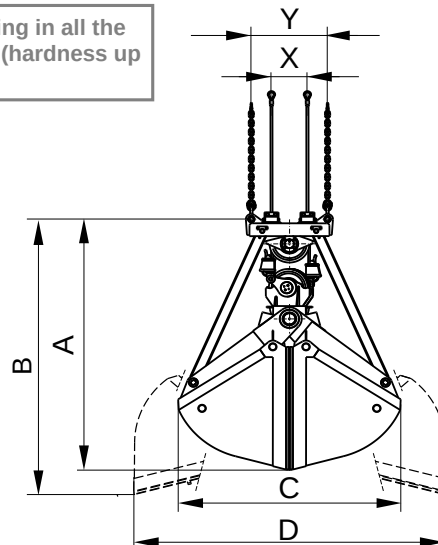
Clamshell design with optimal penetration that allows full loading in all the operations and completely manufactured in wear resistant steel (hardness up to 475 HBW)

Equipment needed

- 2 lifting cables.
- 2 opening / closing cables.

Technical information

- Ecologically friendly closed valve structure (optional).
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity 35° slope	Withdrawn cable	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm						
	m ³	m	mm	mm	t	kg	A	B	C	D	E	X	Y
CM4G-23500-1,1	23,5	9	560	32	35	9150	4700	6030	4350	5120	3800	595	1000
CM4G-26000-1,1	26	9,8	630	36	40	10900	4840	6100	4450	5320	4000	670	1400
CM4G-28500-1,1	28	9,8	630	36	45	12200	4970	6150	4530	5470	4200	670	1400
CM4G-30000-1,1	30	9,8	630	36	50	13200	5050	6200	4600	5600	4400	670	1400
CM4G-35000-1,1	35	10,5	710	40	55	15800	5280	6550	4700	5800	4450	755	2400
CM4G-40000-1,1	40	10,5	710	40	65	17600	5500	6670	5300	5850	4600	755	2400

SUBJET TO CHANGE WITHOUT NOTICE.

Reeving system 1:3

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED



REFERENCE

CM4-1,8

MAXIMUM MATERIAL DENSITY

1,8 T/M³

CABLE QUANTITY

4

p. 40

RELATED PRODUCTS



CM4-1,1



CM4-2,8



CM2-1,8

CEMENT, CLINKER, PILED AND BULK MATERIAL UP TO 1,8 t/m³ DENSITY

Pulleys block with tempered contact surfaces and mounted on cushions / rollings

Articulated arms to compensate misalignment between valves and top body

Structure validated by Finite Elements Analysis

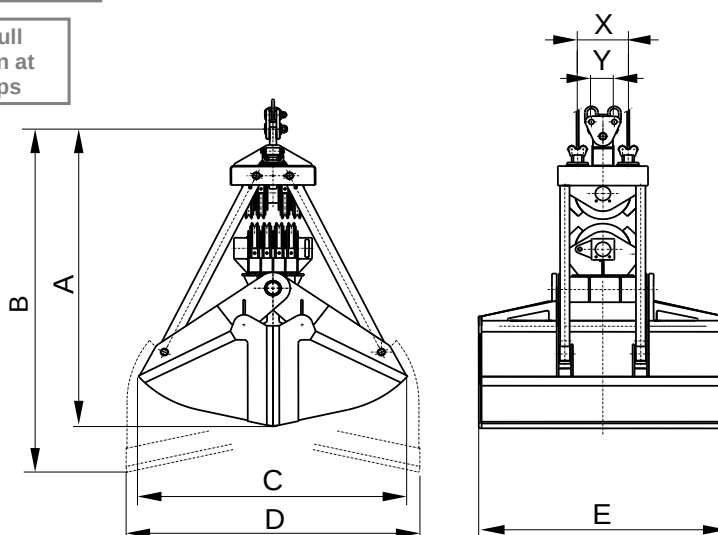
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- 2 lifting cables.
- 2 opening / closing cables.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity 30° slope	Withdrawn cable	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm						
	m ³	m	mm	mm	t	kg	A	B	C	D	E	X	Y
CM4-1600-1,8	1,6	4,1	355	16	6,3	1900	2525	2765	1895	2130	1660	380	160
CM4-2000-1,8	2	4,1	355	16	6,3	2200	2625	2795	2065	2320	1760	380	160
CM4-2500-1,8	2,5	4,9	450	22	8	2900	3040	3325	2240	2510	1885	480	220
CM4-3000-1,8	3	4,9	450	22	10	3200	3140	3350	2410	2700	1935	480	220
CM4-4000-1,8	4	8,8	560	26	12,5	4700	3575	4055	2685	3200	2005	595	280
CM4-5000-1,8	5	8,8	560	26	16	5200	3675	4080	2840	3400	2105	595	280
CM4-6000-1,8	6	8,8	560	26	20	6500	3775	4100	3005	3590	2255	595	280
CM4-8000-1,8	8	11,1	630	32	25	8200	4215	4840	3370	4030	2355	670	350
CM4-10000-1,8	10	11,1	630	32	32	9800	4315	4865	3545	4225	2805	670	350
CM4-12500-1,8	12,5	11,3	710	36	40	12500	4750	5140	3860	4520	2890	755	380

SUBJECT TO CHANGE WITHOUT NOTICE.

Reeving system 1:4 / 1:5

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED



REFERENCE

CM4-2,8

MAXIMUM MATERIAL DENSITY

2,8 T/M³

CABLE QUANTITY

4

p. 41

RELATED PRODUCTS



CM4-3,2



CM4-1,8



CM2-1,8

MINERALS, PILED AND BULK MATERIAL UP TO 2,8 t/m³ DENSITY

Pulleys block with tempered contact surfaces and mounted on cushions / rollings

Articulated arms to compensate misalignment between valves and top body

Structure validated by Finite Elements Analysis

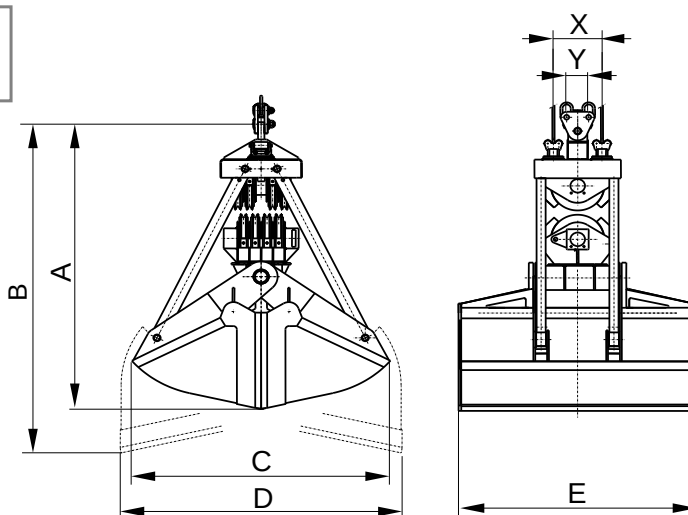
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- 2 lifting cables.
- 2 opening / closing cables.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity 30° slope	Withdrawn cable	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm						
	m ³	m	mm	mm	t	kg	A	B	C	D	E	X	Y
CM4-1000-2,8	1	4,1	355	16	5	1600	2440	2680	1670	1840	1450	380	160
CM4-1250-2,8	1,25	4,1	355	16	6,3	1900	2490	2695	1720	1935	1610	380	160
CM4-1500-2,8	1,5	6	450	22	8	2600	2790	2945	1805	2030	1735	480	220
CM4-2000-2,8	2	6	450	22	10	3200	2840	2960	1895	2030	1735	480	220
CM4-2500-2,8	2,5	9,7	560	26	12,5	4200	3135	3430	2085	2300	2145	595	280
CM4-3000-2,8	3	9,7	560	26	16	5300	3235	3460	2215	2490	2245	595	280
CM4-4000-2,8	4	9,7	560	26	20	6500	3435	3515	2560	2875	2345	595	280
CM4-5000-2,8	5	11,1	630	32	25	8200	3800	4270	2665	3220	2405	670	350
CM4-6000-2,8	6	11,1	630	32	32	10200	3900	4290	2845	3410	2555	670	350
CM4-8000-2,8	8	11,3	710	36	40	12600	4330	5040	3330	3700	2890	755	380

SUBJECT TO CHANGE WITHOUT NOTICE.

Reeving system 1:4 / 1:5

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



MACHINE TYPE

CLAMSHELL GRAB

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED



REFERENCE

CM4-3,2

p. 42



MAXIMUM MATERIAL DENSITY

3,2 T/M³

CABLE QUANTITY

4

RELATED PRODUCTS



CM4-2,8



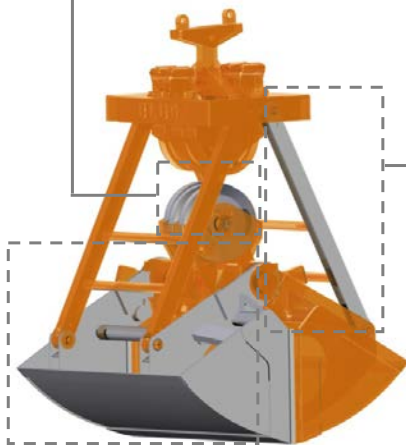
CM4-1,8



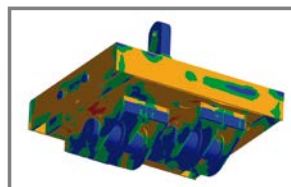
CM2-1,8

MINERALS, PILED AND BULK MATERIAL UP TO 3,2 t/m³ DENSITY

Pulleys block with tempered contact surfaces and mounted on cushions / rollings



Articulated arms to compensate misalignment between valves and top body



Structure validated by Finite Elements Analysis

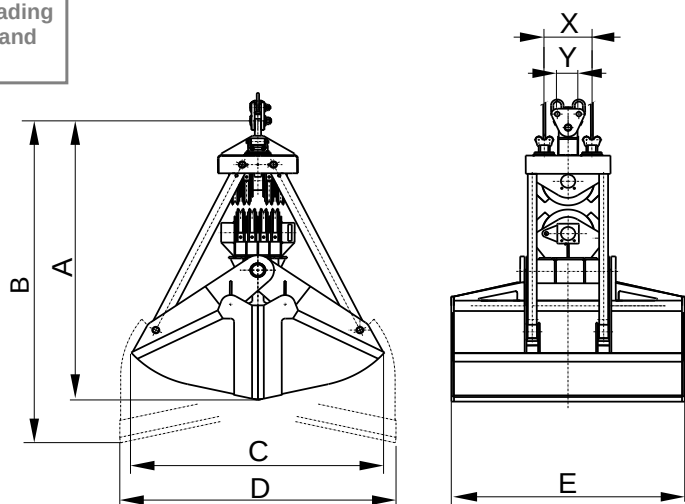
Clamshell design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips

Equipment needed

- 2 lifting cables.
- 2 opening / closing cables.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Complete load through maximum penetration force.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity 30° slope m ³	Withdrawn cable m	Pulley Ø mm	Cable Ø mm	Crane SWL t	Weight kg	Dimensions mm						
							A	B	C	D	E	X	Y
CM4-1000-3,2	1	4,1	355	16	5	1700	2440	2680	1670	1840	1450	380	160
CM4-1250-3,2	1,25	4,1	355	16	6,3	2000	2490	2695	1720	1935	1610	380	160
CM4-1500-3,2	1,5	6	450	22	8	2700	2790	2945	1805	2030	1735	480	220
CM4-2000-3,2	2	6	450	22	10	3300	2840	2960	1895	2030	1735	480	220
CM4-2500-3,2	2,5	9,7	560	26	12,5	4300	3135	3430	2085	2300	2145	595	280
CM4-3000-3,2	3	9,7	560	26	16	5300	3235	3460	2215	2490	2245	595	280
CM4-4000-3,2	4	9,7	560	26	20	6700	3435	3515	2560	2875	2345	595	280
CM4-5000-3,2	5	11,1	630	32	25	8000	3800	4270	2665	3220	2405	670	350
CM4-6000-3,2	6	11,1	630	32	32	11200	3900	4290	2845	3410	2555	670	350
CM4-8000-3,2	8	11,3	710	36	40	13200	4330	5040	3330	3700	2890	755	380

SUBJECT TO CHANGE WITHOUT NOTICE.

Reeving system 1:4 / 1:5

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

ORANGE PEEL
GRABS



UNDERWATER
GRABS



CLAMSHELL GRABS



TONGS AND
GRAPPLES



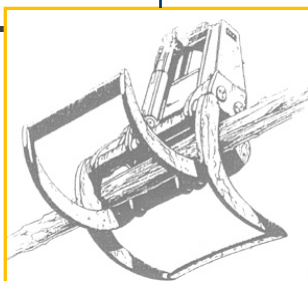
TAYLOR MADE SOLUTIONS

- The references shown are just a few examples of the BLUG tongs and grapples range. Depending on the specific requirements of your handling conditions, we will study your case to offer the **best solution**.
- Integrated control devices to warranty the **security on every handling cycle**.

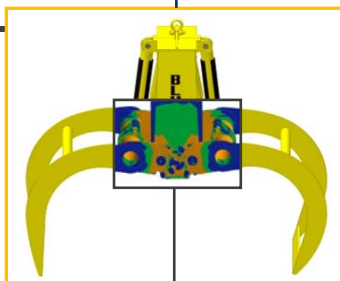
PREMISES

- Material to handle
- Required capacity
- Material's dimensions
- Displacement / rotation
- Crane capacity
- Required working system
- Material's condition
- Working limitations

Preliminary design



Design + optimisation



Manufacturing

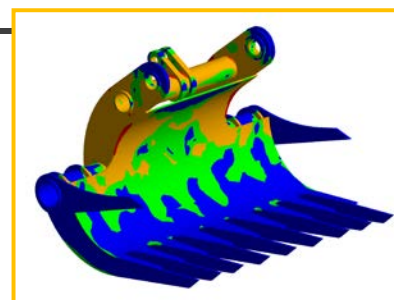


Validation

DESIGN AND SIMULATION

- Our design office develops each design according to **F.E.M. 1001 Section I:1998, UNE-58132 and UNE-EN 13155** using the latest 3D and CAD/CAM tools.

- Each new design is validated and optimised using **Finite Elements Analysis technique** in the way to analyse fatigue effects and warranty **2.000.000 cycles** for components' and machines' working life.



ELECTRO-HYDRAULIC SYSTEM FUNCTIONING

MOTOR REVERSAL		ELECTRICALLY OPERATED VALVE		
Wire quantity:	4	Wire quantity:	7	
Pump type:	Piston pump (fix flow)	Pump type:	Gear pump (fix flow)	
			Piston pump (fix flow)	
			Piston pump (variable flow)	

VARIABLE FLOW HYDRAULIC UNITS

- Electrically operated valve hydraulic units that use **variable flow piston pumps** warranty hydraulic components' working life increase in **more than 300%** in comparison with fix flow pump's functioning.
- This system **avoids oils overheating (4 times minor than with fix flow pumps)** due to Load-Sensing control. This way pumps' plate is continuously adapting its inclination in the way to **optimise the penetration force and minimise power demand (40% minor than fix flow pumps)** and increase grab's overall efficiency.

MATERIALS

- The most adequate materials and components are defined for each reference :
 - **High strength steel** for severer applications.
 - **Wear resistant materials** for tongs and grapples in contact with **abrasive materials**.
 - **Contact surfaces covered with plastic materials** in the way to **protect finished parts** from possible damaging.
 - **Thermal insulation** for loads at **high temperatures**.



CERTIFICATION

- Possibility to certify any model in **ATEX 1/21 or 2/22 zones for explosive atmospheres**.



More information:

www.blug.es/eng/productos/



MACHINE TYPE

TONG

WORKING SYSTEM

ELECTRO-HYDRAULIC

OTHER POSSIBLE MATERIALS



REFERENCE

PEH-100

MATERIAL TO BE HANDLED

GRAPE RESIDUES

CYLINDER QUANTITY

2

p. 44

RELATED PRODUCTS



P-0,7



C2-1,1



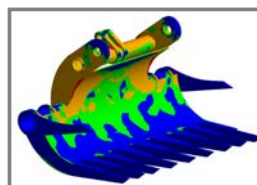
CV2-1,1



Hydraulic unit equipped with self-regulated piston variable flow pump

Full protected hydraulic cylinders

Arm's design with optimal penetration that allows full loading in all the operations thanks to a kinematic design at lifting and penetration mode including wear resistant lips



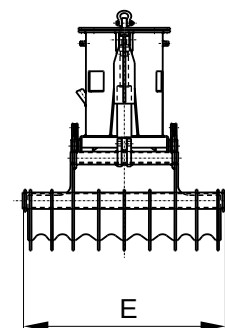
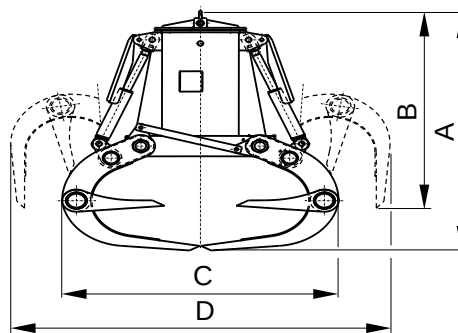
Structure validated by Finite Elements Analysis

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity	Working	Closing	Opening	Crane	Weight	Dimensions				
	m ³	40% ED	400 V	pressure	time	time	SWL	kg	A	B	C	D	E
PEH-100-1250	1,25	7,3	14,5	100	8	4	3,2	1180	2130	1830	1750	2330	1400
PEH-100-1500	1,5	7,3	14,5	120	8	4	3,2	1260	2190	1840	1850	2445	1500
PEH-100-2000	2	7,3	14,5	150	8	4	4	1400	2280	1855	2000	2625	1680
PEH-100-2500	2,5	10	20	200	8	4	5	1540	2350	1865	2150	2760	1850
PEH-100-3000	3	10	20	150	11	6	6,3	2260	2540	2120	2250	3010	2000

SUBJET TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE

TONG

WORKING SYSTEM

ELECTRO-HYDRAULIC

OTHER POSSIBLE MATERIALS



REFERENCE

PEH-101

p. 45

RELATED PRODUCTS



PEH-100



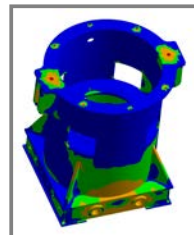
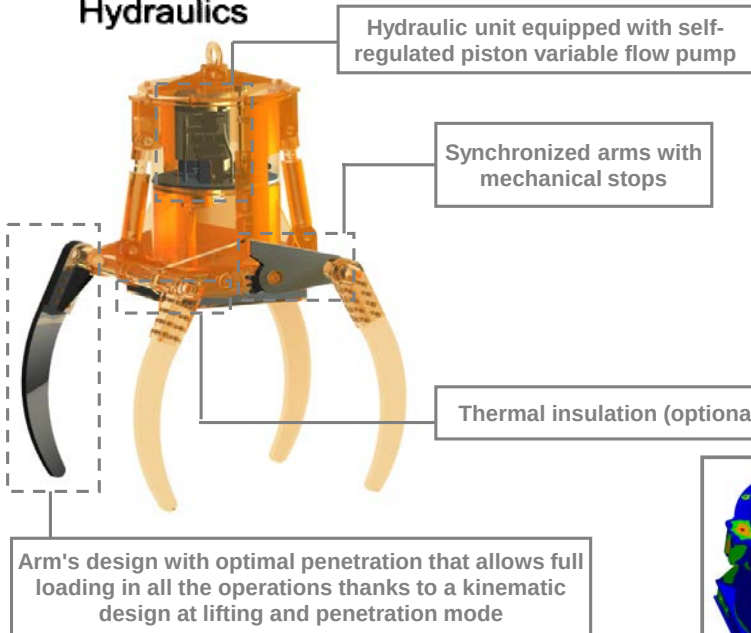
PEH-102



PEH-104

MATERIAL TO BE HANDLED
CYLINDRICAL PARTS
WORKING AXIS
HORIZONTAL

SINGLE TIMBER, GRAPHITE ELECTRODES AND ALL TYPE OF CYLINDRICAL PARTS HANDLING



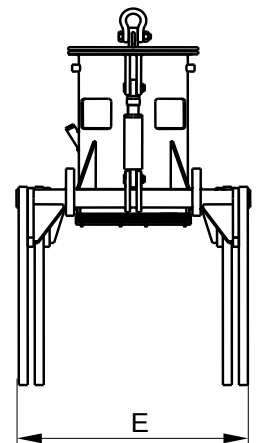
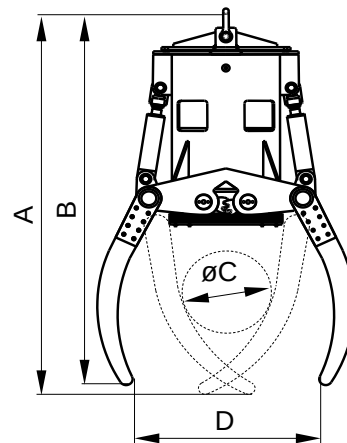
Structure validated by Finite Elements Analysis

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions				
	kg	kW	A	bar	s	s	t	kg	A	B	C	D	E
PEH-101-600	600	5,5	10,5	120	5	3	2	650	1530	1370	350	1000	1040
PEH-101-1000	1200	7,3	14,5	200	5	3	2	820	1550	1350	500	1100	1200
PEH-101-1600	1500	7,3	14,5	120	8	4	4	1930	2680	2590	600	1200	1400
PEH-101-2500	2500	10	20	160	8	4	5	2120	2790	2720	700	1260	1550
PEH-101-4000	4000	10	20	210	9	5	6,3	2300	2850	2560	800	1600	1700

SUBJET TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es



MACHINE TYPE

TONG

WORKING SYSTEM

ELECTRO-HYDRAULIC

OTHER POSSIBLE MATERIALS



MATERIAL TO BE HANDLED

TRUNKS

CYLINDER QUANTITY

2

RELATED
PRODUCTS

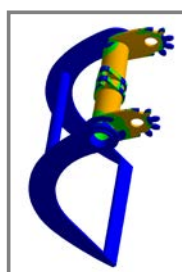
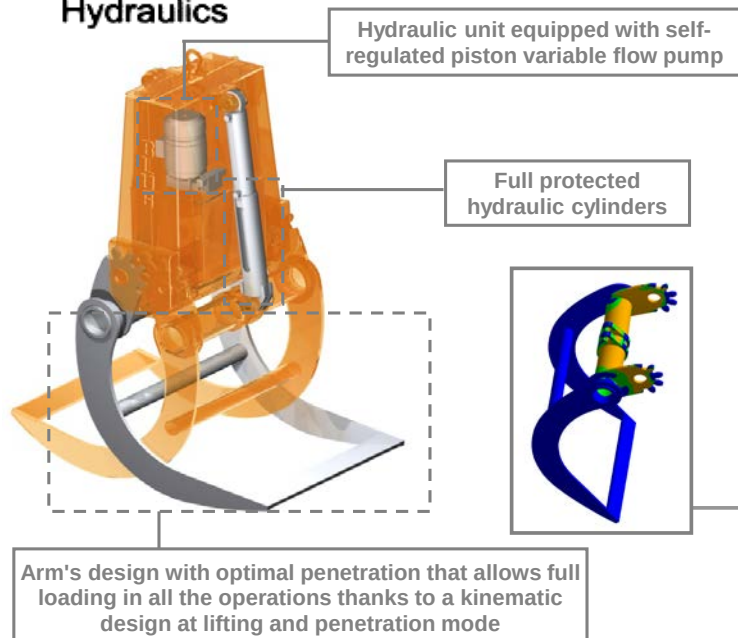


PEH-100



PEH-101

UNIVERSAL APPLICATION IN TRANSLOADING LUMBER, TIMBER BUNDLES, FLIMS Y PLANKS, BULK WOOD...



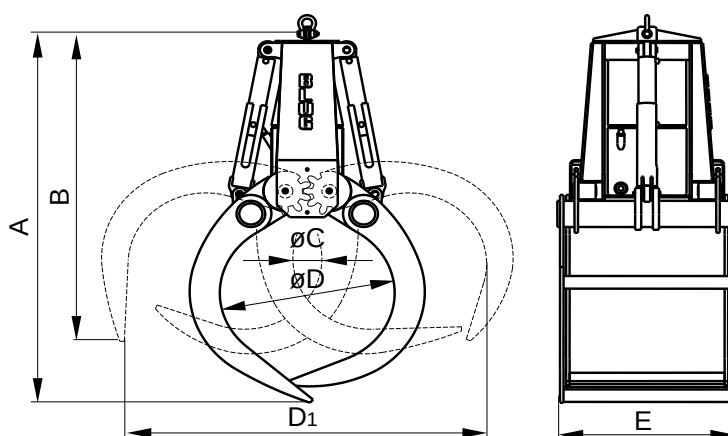
Structure validated by Finite Elements Analysis

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Reduced height, multi-stable, can work at any angle ($\pm 60^\circ$).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine 40% ED	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions					
	m ²	kW	A	bar	s	s	t	kg	A	B	C	D	D1	E
PEH-102-0,4	0,4	3	6,7	160	5	3	1	500	1600	1400	150	700	1000	590
PEH-102-0,5	0,5	5,5	10,5	180	6	3	1,25	700	1800	1600	200	800	1300	750
PEH-102-0,63	0,63	10	20	190	6	3	2,5	1400	2100	1800	150	800	1600	1200
PEH-102-0,8	0,8	10	20	190	7	4	2,5	1500	2300	2000	200	1000	1780	1200
PEH-102-1,25	1,25	14,5	28	200	9	5	4	2200	2800	2500	300	1250	2400	1400
PEH-102-1,6	1,6	14,5	28	200	9	5	4,5	2400	3100	2500	350	1430	2700	1400
PEH-102-2	2	20,5	39	200	10	5	6	3700	3500	2900	500	1600	3100	1600

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE

HOOK

WORKING SYSTEM

ELECTRO-HYDRAULIC

MATERIAL TO BE HANDLED



REFERENCE

GG-103

p. 47

RELATED
PRODUCTS



PEH-101



PEB-200

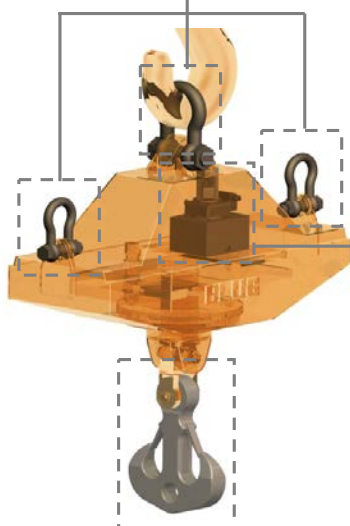


PED-201

FOR ALL LOAD TYPE LIFTING AND POSITIONING

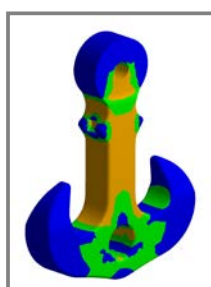


Simple / double lifting by high strength shackles



Rotation conditions
adjustment and control by
internal hydraulic unit

Double hook according
to standard DIN 15402



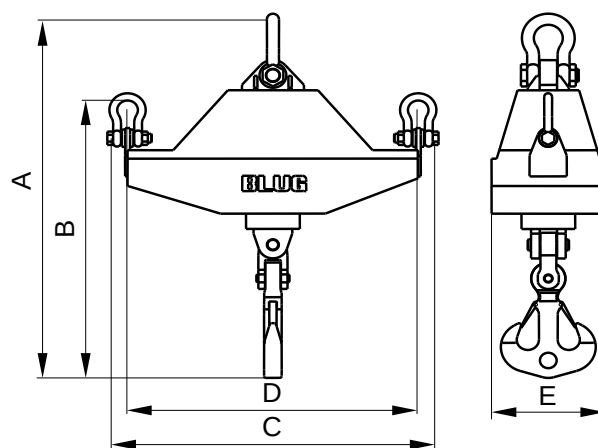
Structure validated
by Finite Elements
Analysis

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Full rotation (360°) for a perfect load's positioning.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity 400 V	Working pressure	Rotation speed	Crane SWL	Weight	Dimensions mm				
	t	kW	A	bar	rpm	t	kg	A	B	C	D	E
GG-103-10	10	0,75	2,1	175	3	12	550	1480	1130	1140	1010	540
GG-103-15	15	0,75	2,1	200	3	18	910	1780	1430	1570	1400	560
GG-103-20	20	1,5	3,7	200	3	22	1340	1860	1530	1840	1650	580
GG-103-25	25	1,5	3,7	200	3	28	1450	1960	1620	2000	1800	760
GG-103-32	32	2,2	5,5	220	3	35	1700	2600	2240	2230	2000	1050
GG-103-40	40	2,2	5,5	220	3	42	1890	2650	2280	2260	2000	1070

SUBJET TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE

TONG

WORKING SYSTEM

ELECTRO-HYDRAULIC

OTHER POSSIBLE MATERIALS



REFERENCE

PEH-104

MATERIAL TO BE HANDLED

ELECTRODES

WORKING AXIS

VERTICAL

p. 48

RELATED
PRODUCTS



PEH-101



PEB-200

ALL TYPE OF GRAPHITE ELECTRODES AND CYLINDRICAL PARTS

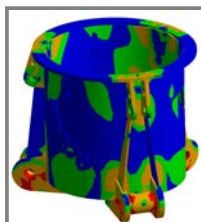


Machine's suspension by shackle(s) or pulleys, guided by special profiles

Full protected hydraulic cylinders

Hydraulic unit equipped with self-regulated piston variable flow pump

Specific jaw design for electrode handling with rotation system and special gripping tips



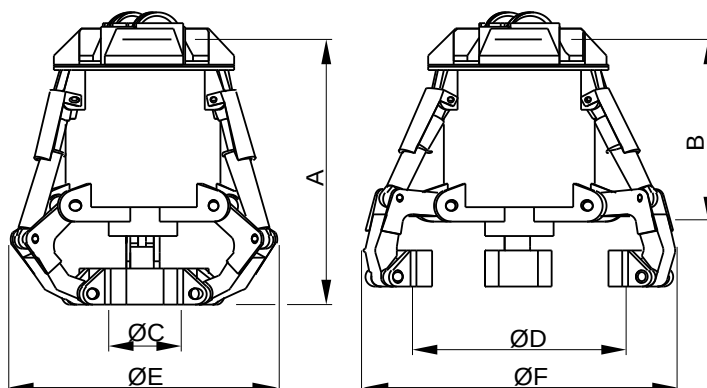
Structure validated by Finite Elements Analysis

Equipment needed

- Hook(s) or lifting chain(s).
- Electric connection for hydraulic unit.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Oil tank tightly enclosed and protected from environment impurities.
- Synchronized movement of 3 the arms.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity 400 V	Working pressure	Closing time	Opening time	Crane SWL	Weight	Dimensions mm					
	t	kW	A	bar	s	s	t	kg	A	B	ØC	ØD	ØE	ØF
PEH-104-1	1	3	6,7	150	10	6	2,5	750	1080	820	150	700	1050	1240
PEH-104-2,5	2,5	5,5	10,5	120	7	4	4	950	1350	980	250	950	1200	1470
PEH-104-4	4	5,5	10,5	150	7	4	6	1100	1380	1020	360	1100	1290	1560
PEH-104-5	5	7,5	15	130	12	6	6,3	1300	1740	1310	450	1300	1550	1860
PEH-104-6	6	7,5	15	150	12	6	8	1460	1800	1330	550	1450	1680	1980

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE
TONG

WORKING SYSTEM
ELECTRO-MECHANICAL

OTHER POSSIBLE MATERIALS



REFERENCE
PEB-200

MATERIAL TO BE HANDLED

COILS

WORKING AXIS
VERTICAL/HORIZONTAL

p. 49

RELATED PRODUCTS



GG-103

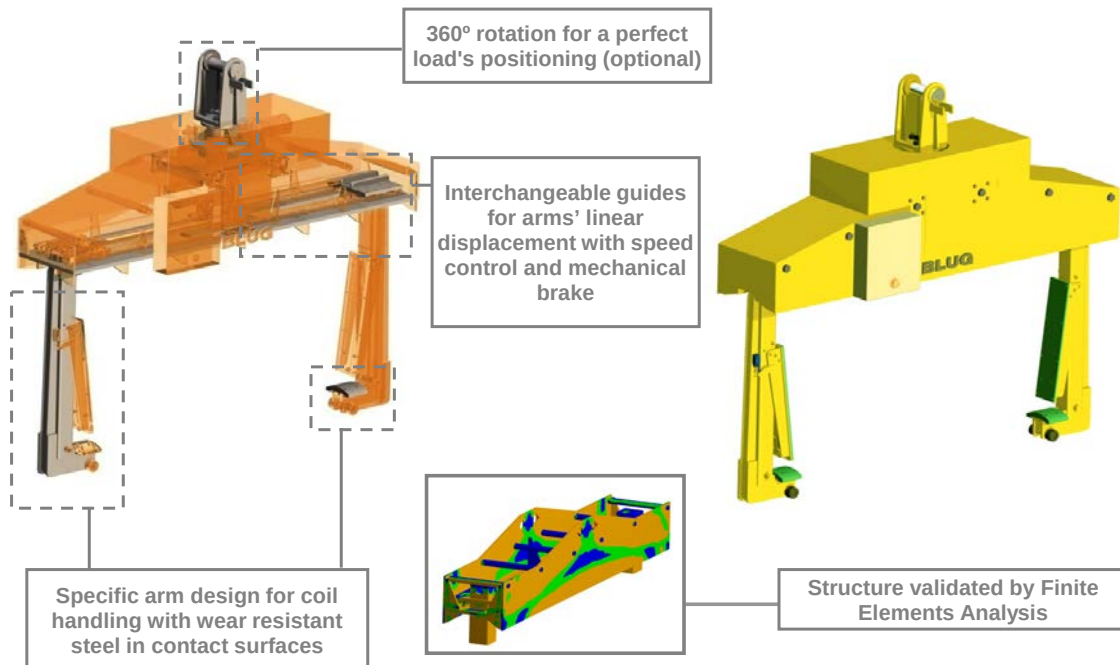


PEH-104



PED-201

TO HANDLE AND POSITION ALL TYPE OF COIL AND LOADS ON PALLETS

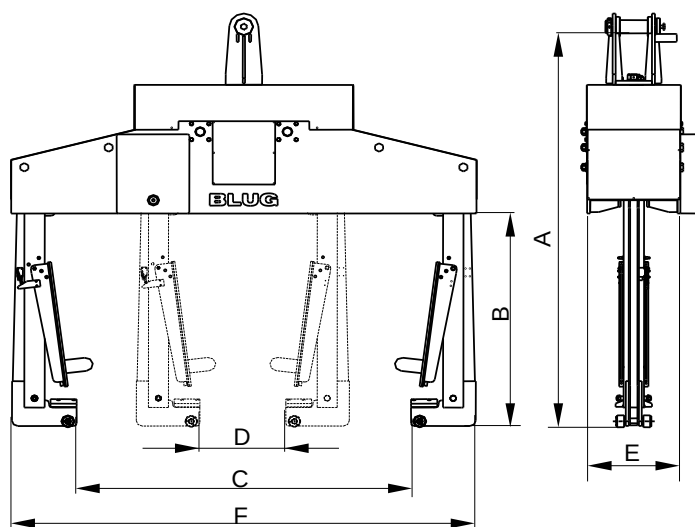


Equipment needed

- Lifting hook.
- Electric connection for electro-mechanical system.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Luminous signposting of status.
- Gripping force protection system.
- Maximum / minimum opening control device.
- Safety switch to avoid opening when loaded.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity 400 V	Load's maximum temperature	Crane SWL	Weight	Dimensions mm					
	t	kW	A	°C	t	kg	A	B	C	D	E	F
PEB-200-15	15	2,2	5,15	600	18	1900	2070	1000	1900	100	400	2500
PEB-200-20	20	2,2	5,15	600	25	2150	2150	1150	2100	100	450	2800
PEB-200-35	35	2,2	5,15	600	40	2350	2290	1300	2100	200	450	2800
PEB-200-40	40	3	6,7	600	50	2800	2350	1350	2200	200	550	3000
PEB-200-50	50	3	6,7	600	55	3150	2500	1500	2200	200	550	3000

SUBJET TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



MACHINE TYPE

TONG

WORKING SYSTEM

ELECTRO-MECHANICAL

OTHER POSSIBLE MATERIALS



REFERENCE

PED-201

MATERIAL TO BE HANDLED

ARCH-STONES

WORKING AXIS

HORIZONTAL

p. 50

RELATED PRODUCTS



PMS-302

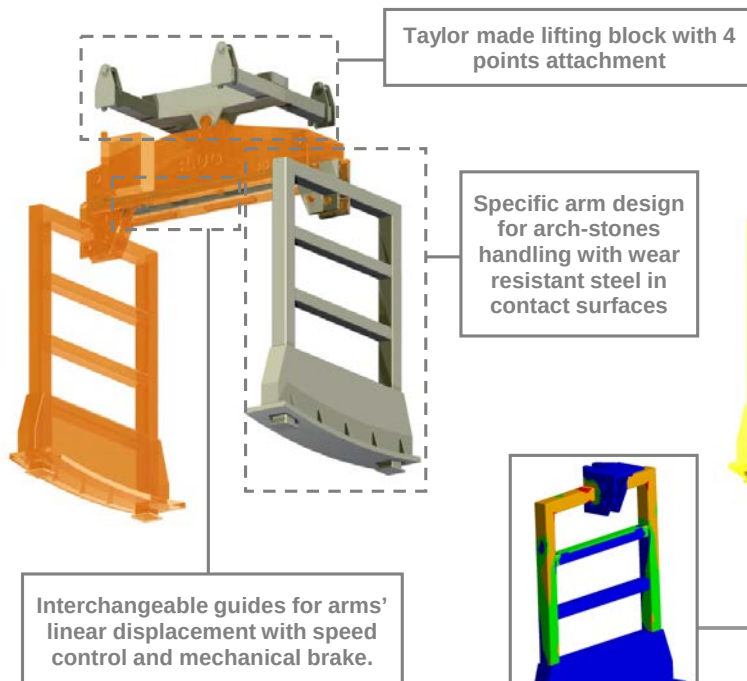


PEB-200

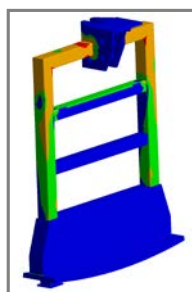


GG-103

UP TO 4 ARCH-STONES HANDLING AT THE SAME TIME



Structure validated by Finite Elements Analysis

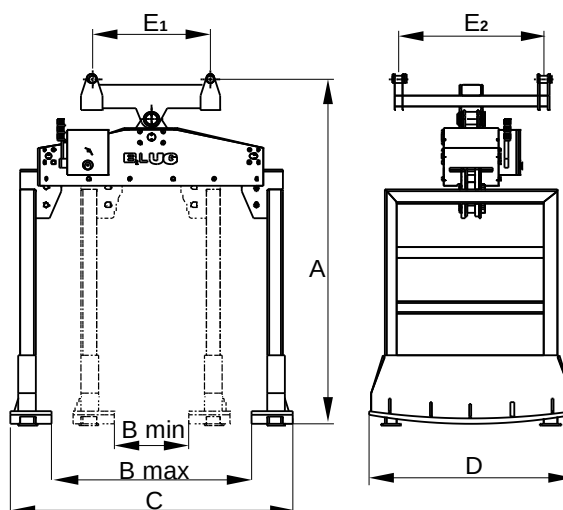


Equipment needed

- Lifting hook.
- Electric connection for electro-mechanical system.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- Luminous signposting of status.
- Gripping force protection system.
- Maximum / minimum opening control device.
- Safety switch to avoid opening when loaded.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Engine	Intensity 400 V	Arch-stones exterior radius	Crane SWL	Weight	Dimensions mm					
	t	kW	A	mm	t	kg	A	Bmax	Bmin	C	D	E1 / E2
PED-201-10	10	1,5	3,4	2750	12,5	2500	2880	800	550	1400	2000	To define
PED-201-20	20	1,5	3,4	3725	25	3250	3050	1350	1000	1950	2000	
PED-201-30	30	2,2	5,15	5520	35	3900	3350	1850	1200	2550	2000	
PED-201-35	35	2,2	5,15	5770	40	4200	3650	1950	1150	2750	2000	

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:

www.blug.es/eng/productos/



BLUG
YOUR SMART HANDLING SOLUTIONS

MACHINE TYPE

GRAPPLE

WORKING SYSTEM

MECHANICAL

OTHER POSSIBLE MATERIALS



REFERENCE

PMB-300

MATERIAL TO BE HANDLED

ROCKS

CABLE QUANTITY

2

p. 51

RELATED PRODUCTS

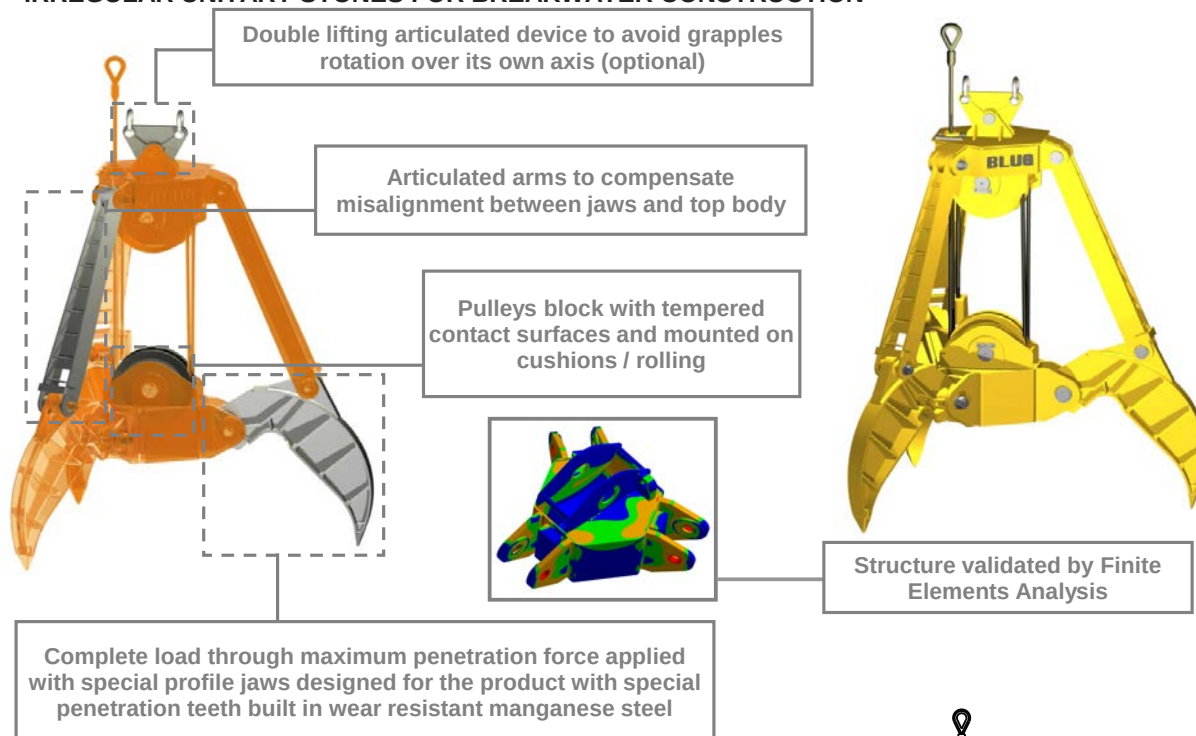


PM4-1,8



PM4-3

IRREGULAR UNITARY STONES FOR BREAKWATER CONSTRUCTION

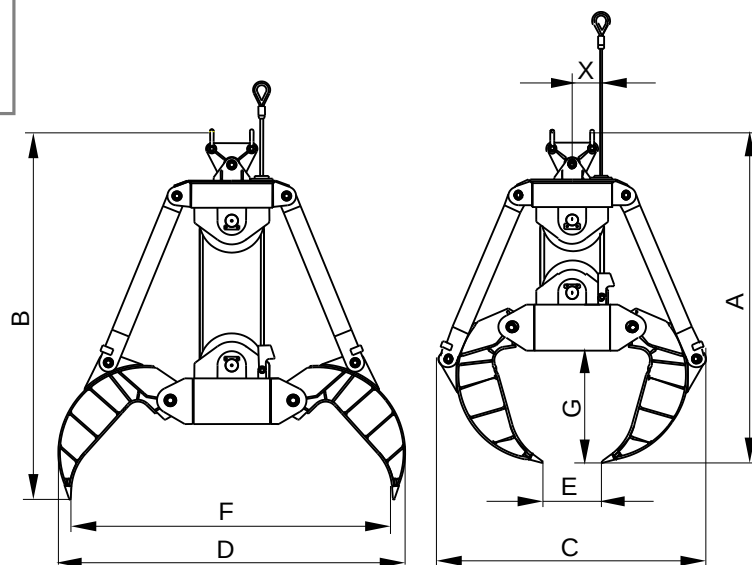


Equipment needed

- 1 lifting cable.
- 1 opening / closing cable.

Technical information

- Robust structure in high strenght steel.
- Complete load through maximum penetration force.
- Ideal relation between capacity / dead weight.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Withdrawn cable	Pulley Ø	Cable Ø	Crane SWL	Weight	Dimensions mm							
	t	m	mm	mm	t	kg	A	B	C	D	E	F	G	X
PMB-300-5	5	3,2	500	22	10	3100	3000	3300	2300	2940	400	2800	980	240
PMB-300-6	6	3,2	500	22	10	3300	3040	3360	2360	3020	420	2850	990	240
PMB-300-8	8	3,2	500	22	12	3700	3080	3420	2430	3080	450	2900	1010	240
PMB-300-10	10	3,9	630	32	16	5400	3690	4080	2860	3670	500	3400	1200	290
PMB-300-15	15	4,6	710	40	22	6600	3970	4390	3430	4350	750	4060	1420	380

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE

HOOK

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED

REFERENCE

GC-301

p. 52

RELATED PRODUCTS



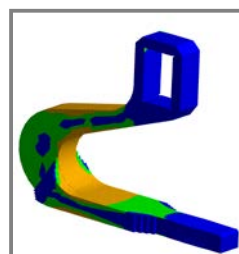
GG-103



PMS-302

HOISTING AND POSITIONING OF SLABS, STEEL BILLETS AND HEAVY BLOCKS

Double lifting by high strength pulleys, shackles or hoisting shafts



Structure validated by Finite Elements Analysis

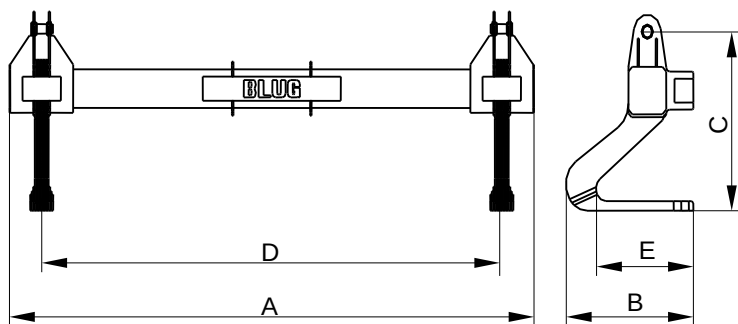
Superimposed plates hook design according to standard DIN 15407 and adapted to each load's requirements

Equipment needed

- Lifting hooks or cables.

Technical information

- Robust structure in S355 J2G3 rolled steel.
- 360° rotation for a perfect load's positioning (optional).
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Pulley diameter	Load's maximum temperature	Crane SWL	Weight	Dimensions mm				
	t	mm	°C	t	kg	A	B	C	D	E
GC-301-10	10	450	1000	18	6500	2150	1100	1250	2000	700
GC-301-20	20	560	1000	28	7800	2900	1400	1500	2450	950
GC-301-30	30	630	1000	40	8900	3900	1750	1930	3100	1200
GC-301-40	40	710	1000	50	9800	4800	2150	2300	3800	1500
GC-301-50	50	800	1000	65	12200	5700	2500	2600	4600	1800

SUBJET TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/



MACHINE TYPE

TONG

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED



REFERENCE

PMS-302

p. 53

RELATED PRODUCTS

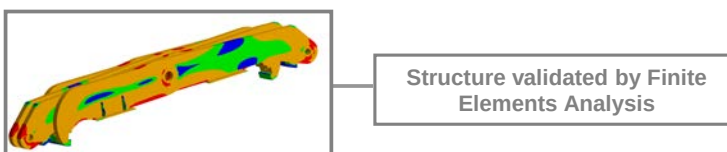
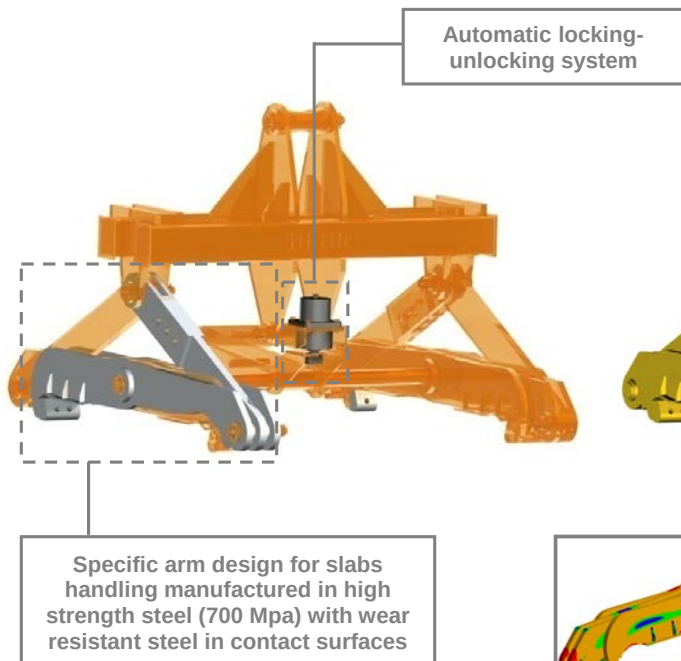


GG-103



GC-301

ANY TYPE OF SLABS AND UNIFORM HEAVY PARTS HANDLING

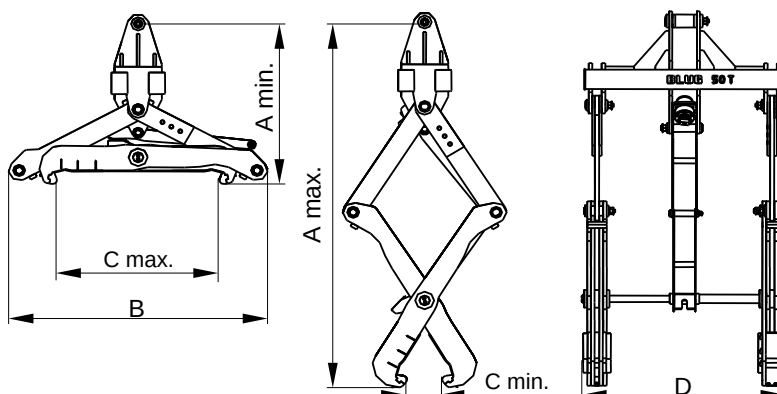


Equipment needed

- Lifting hooks or cables.

Technical information

- Robust structure in high strength steel.
- Assured load through maximum penetration force.
- Ideal relation between capacity / dead weight.
- Design & fabrication according to standard FEM 1001/98 section I.
- CE conformity.



Reference	Capacity	Slab's maximum width	Slab's minimum width	Load's maximum temperature	Crane SWL	Weight	Dimensions					
	t	mm	mm	°C	t	kg	Amax	Amin	B	Cmax	Cmin	D
PMS-302-5	5	1500	600	800	8	1400	3800	2250	2100	1600	500	1100
PMS-302-10	10	1650	600	800	12	1900	4000	2150	2350	1800	500	1400
PMS-302-20	20	1800	600	800	25	4200	4100	2000	2500	1900	500	1700
PMS-302-30	30	1950	600	800	38	6500	4200	1800	2700	2000	500	2000
PMS-302-40	40	2100	600	800	48	7400	4300	1650	2900	2100	500	2400
PMS-302-50	50	2200	600	800	60	8200	4400	1500	3100	2300	500	2800

SUBJET TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es

More information:
www.blug.es/eng/productos/

REFERENCE
GL-303

p. 54



MACHINE TYPE

TONG

WORKING SYSTEM

MECHANICAL

MATERIAL TO BE HANDLED



MATERIAL TO BE HANDLED

CASTING LADLE

TYPE

MANUAL

RELATED
 PRODUCTS

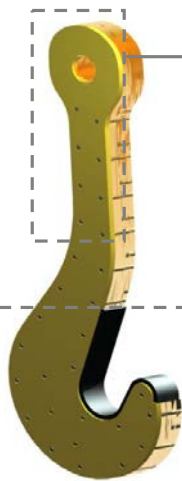


GG-103



GC-301

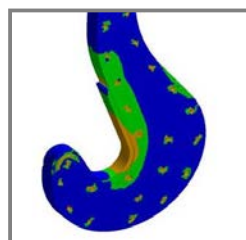
ANY TYPE OF CASTING LADLE HANDLING



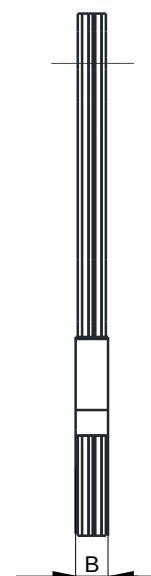
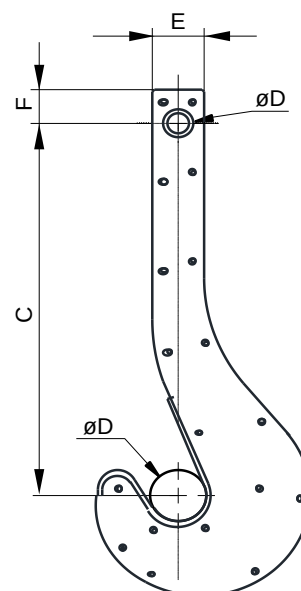
Metal sheet arm design
 manufactured in high
 strength steel with fastener
 structure



Support surfaces reinforced against impacts /
 wear



Structure validated by Finite
 Elements Analysis



Equipment needed

- Lifting hook.

Technical information

- Robust structure in high strength steel.
- Ideal relation between capacity / dead weight.
- Design & fabrication according to standard DIN 15407.
- CE conformity.

Reference	Capacity	Load's maximum temperature	Crane	Weight	Dimensions mm					
	t	°C	t	kg	ØA	B	C	ØD	E	F
GL-303-20	20	800	21	280	145	96	1000	100	220	170
GL-303-32	32	800	33	500	180	112	1120	125	280	200
GL-303-50	50	800	52	910	225	132	1250	160	340	250
GL-303-80	80	800	82	1660	250	182	1400	180	380	300
GL-303-125	125	800	130	2720	280	232	1600	225	460	350
GL-303-200	200	800	205	4670	360	315	1800	250	550	420
GL-303-250	250	800	260	6750	400	355	2000	290	620	470

SUBJECT TO CHANGE WITHOUT NOTICE.

You can request any model's offer visiting our web site www.blug.es or sending an email to comercial@blug.es