

FOUNDATION EQUIPMENT

THE RANGE _____ _____ OF OUR PRODUCTS _____



/01

THE _____ ____HYDRAULIC PILING RIGS_____



- **LONG LIFE EQUIPMENT**
- **EFFICIENCY AND CONTROL**
- **RELIABILITY AND PERFORMANCE**
- **VERSATILITY**
- **SAFETY**

Casagrande is a world leading supplier of foundation equipment. The piling rigs are designed to satisfy most of the necessities to execute modern foundation technologies. Supplying the right equipment and services to enable the contractor to achieve the best results on site is our objective. The main design specifications of our high quality piling rigs consider safety standards, reliability, performance, duration and resale value.

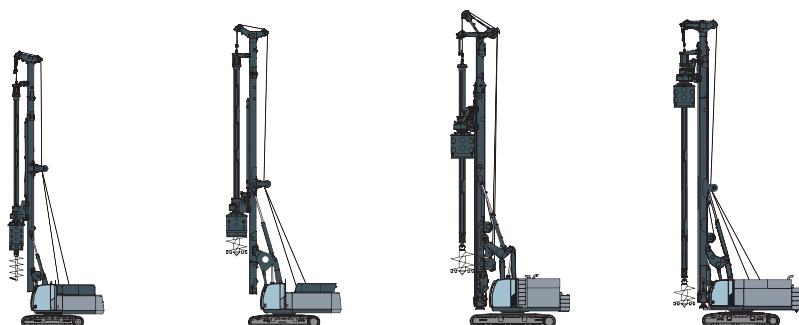


EQUIPMENT RANGE

XP-2

Casagrande provides a wide range of **high-performance equipment**, XP-2 advanced technology and operational competitiveness. From 30 T to 170 T for all kinds of foundation engineering jobs.

Bored Piles



Piling Rigs XP-2 series	
Max diameter - mm	
Max diam. under mast - mm	
Max depth - m	
Max diameter CFA - mm	
Max depth CFA - m	
Rotary head torque - kNm	
Engine power - kW	
Weight - t	

B175	B200	B240	B250
1500	1800	1800	2100
3000	3100	3500	3400
57	68	78	78
900	1000	1200	1200
28	29,7	27	31,8
175	210	263	263
209	246	283	336
44	65	72	86

The Range Of Our Products



B275	B300	B360	B400	B420	B470
2100	2300	2700	2700	3500	3500
3400	4200	4500	4500	-	-
78	89,5	99	99	101	111
1200	1200	1200	1200	1200	1500
31,8	31,8	37	37	39	41
300	300	400	467	467	467
336	472	472	472	472	472/563
92	100	123	124	144	167

THE _____ _ HYDRAULIC PILING RIGS _

XP-2





EQUIPMENT _____ _____ RANGE

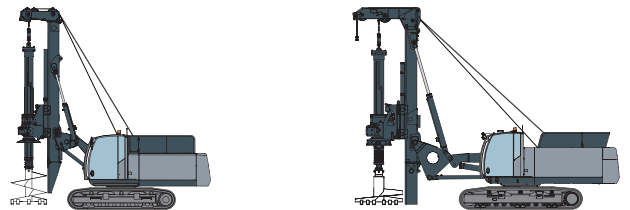
Undermast



Piling Rigs XP-2 series	
Max diameter - mm	
Max depth - m	
Stroke - mm	
Kelly bars max. length - mm	

B175	B200	B240
3000	3100	3500
49	48	54
5200	6000	4300
11000	11000	14500

Low Headroom



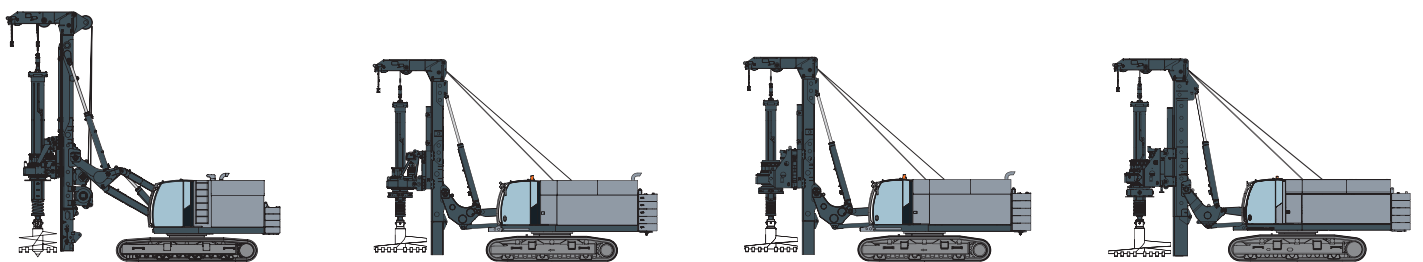
Piling Rigs XP-2 series	
Max diameter - mm	
Max depth - m	
Stroke - mm	
Max height - mm	

B175	B200
1500	2100
19,7	21,1
2200	2500
8500	8500

XP-2



B250	B275	B300	B360	B400
3400	3400	4200	4500	4500
54	54	75	87	87
6500	6500	4900	4900	4900
12500	12500	16500	19000	19000



B240	B250	B275	B300
2100	2100	2100	2600
17	20,5	20,5	20,2
3000	2500	2100	2500
10000	8500	8500	8500

CASAGRANDE

CLASSIC LINE

The Casagrande **Classic Rigs**, designed from the tradition to give the specialist contractors equipment for performing foundation techniques in the geotechnical engineering such as bored piles, continuous flight auger and eventually diaphragm wall.

A comfortable cabin and simplified interface keeps the operator efficient and ready for high productivity.



The **hydraulic circuit** and the controls of the machine are based on traditional electro-hydraulic logic elements in order to be as easy as possible. The ideal operating weight allows easy transport and fast set up.



Piling Rigs C-Series	C20	C30	C35	C40
Max diameter - mm	1200	1250	1500	1500
Max depth - m	37	42	50	50
Max diameter CFA - mm	800	800	800	800
Max depth CFA - m	16,6	20,2	23,6	23,6
Rotary head torque - kNm	100	125	135	177
Engine power - kW	142	186	172	201
Weight - t	28	35	39,7	41,8

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/02

**DIAPHRAGM
WALL
EQUIPMENT**



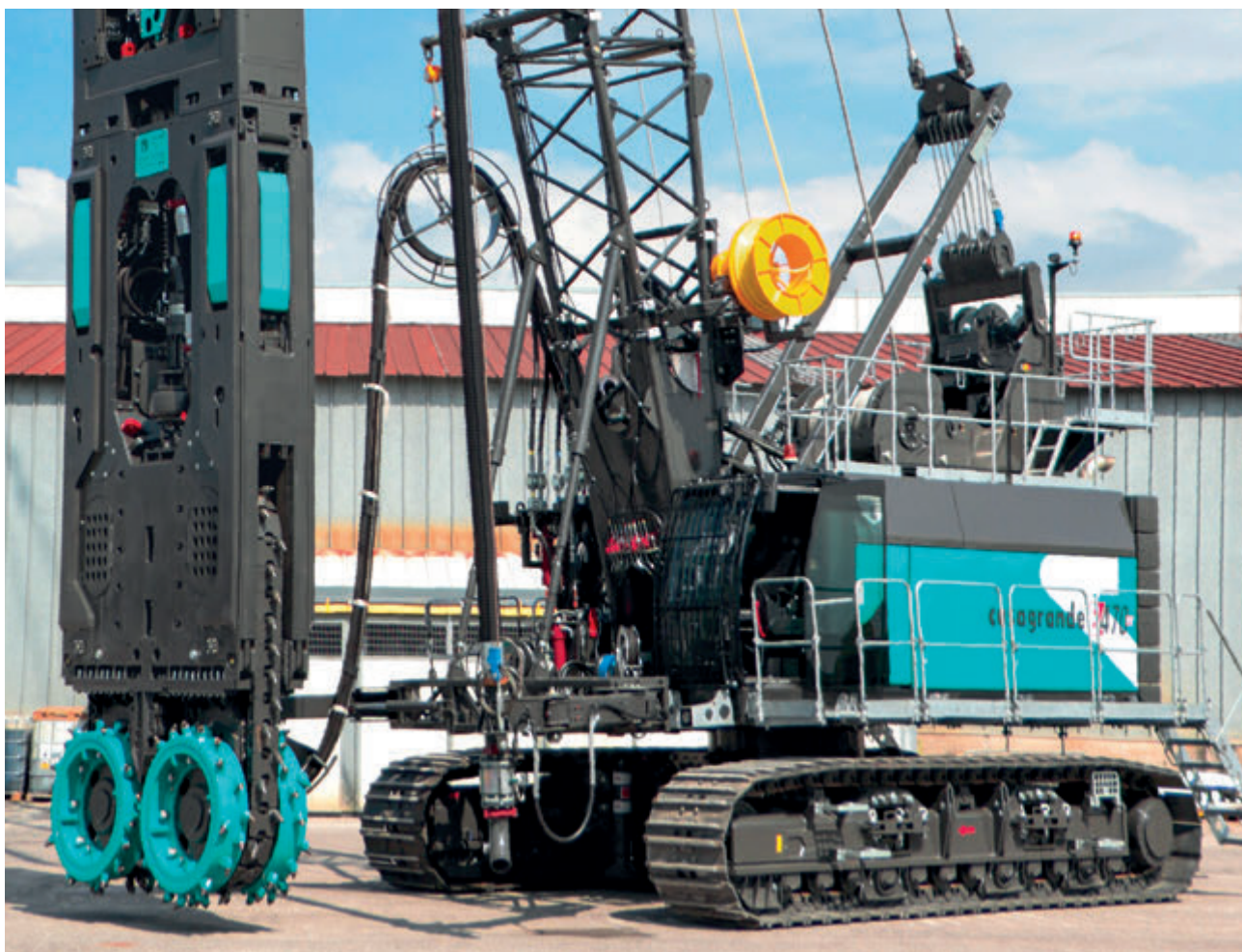
➤ **FD HYDROMILLS**

➤ **KRC KELLY GUIDED GRABS**

➤ **ROPE SUSPENDED HYDRAULIC GRABS**

Casagrande started manufacturing equipment for diaphragm walls in 1963. Over the years, it has developed a complete range of machines in order to satisfy all the contractor's requirements from kelly guided grabs to rope suspended grabs.

Whenever the difficult soil condition or high productivity and shear accuracy are required the Casagrande Hydromill is a must.



EQUIPMENT RANGE



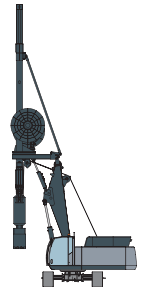
FD hydromills

Model	FD70	FD70
Max Depth - m	50	120
Width of Trench - mm	760 ÷ 1500	760 ÷ 1500
Length of Trench - mm	2800/3150	2800/3150
Engine Power - kW	563	563
Weight - t	180	190

KRC Kelly Guided Grabs



B175

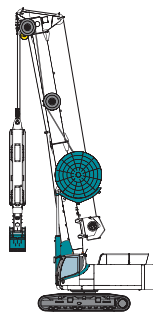


B200

Model
Max Depth - m
Width of Trench - mm
Length of Trench - mm
Engine Power - kW
Weight - t

KRC1	KRC2
30	35
400 ÷ 800	500 ÷ 1500
2200 ÷ 2500	2200 ÷ 3000
209	246
42	62

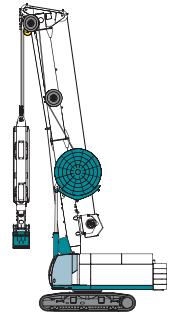
Rope Suspended Hydraulic Grabs



B200



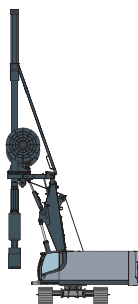
B250



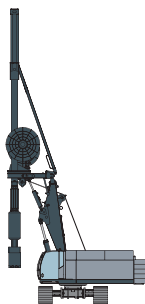
B300

Model	KHD22	KHD25	KHD28
Max Depth - m	80	80	80
Width of Trench - mm	420 ÷ 800	600 ÷ 1500	600 ÷ 1500
Length of Trench - mm	2200 ÷ 2500	2200 ÷ 3200	2200 ÷ 3200
Engine Power - kW	246	336	472
Weight - t	~85	~90	~97

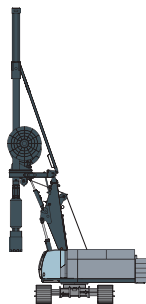
The Range Of Our Products



B250



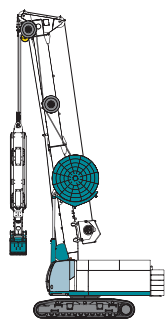
B300



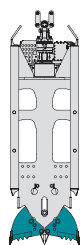
B360



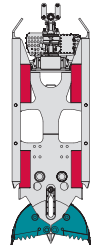
KRC2HD	KRC2HD	KRC2HD
35	46	46
500 ÷ 1500	500 ÷ 1500	500 ÷ 1500
2200 ÷ 3000	2200 ÷ 3000	2200 ÷ 3000
336	472	472
78	85	100



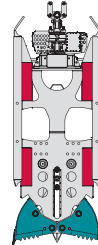
B360



HYDRAULIC GRAB



HYDRAULIC GRAB



HYDRAULIC GRAB



MECHANICAL GRAB

KHD28	KHD22	KHD25	KHD28	PM
80	-	-	-	-
600 ÷ 1500	420 ÷ 800	600 ÷ 1500	600 ÷ 1500	600 ÷ 1500
2200 ÷ 4000	2200 ÷ 2500	2500 ÷ 3000	2800 ÷ 4000	2500 ÷ 3200
472	-	-	-	-
~120	9 ÷ 16	12 ÷ 23	16 ÷ 30	10 ÷ 20

/03

THE _____ _____ HYDRAULIC DRILLING RIGS _____



- ▶ **LONG LIFE EQUIPMENT**
- ▶ **VERSATILITY**
- ▶ **RELIABILITY AND PERFORMANCE**
- ▶ **SAFETY**

Casagrande's expertise manufacturing crawler drills provides answers to all contractor's needs in jobs such as micropiles, anchors, tie-backs, grouting and jet grouting. All the equipment can be customized as well as installed with all the latest safety systems required. Extensive accessories such as rod loaders, pumps and drilling tools can be supplied.



EQUIPMENT _____ _____ RANGE

XP-2

Casagrande provides a wide range of **high-performance drilling rigs** equipment, advanced technology and operation competitiveness. From 6 T to 40 T satisfying all needs in geotechnical applications.



Drilling Rigs XP-2 series	C3	C3S	C4	C5R
Engine power - kW	100	100	100	111
Torque - kNm	15,2	14,8	12,2	15,2
Stroke - Single rotary head - m	3,2	3,85	4	4
Extraction/Crowd force - kN	50	100	50	60
Weight - t	6,7	8	8,5	7,9 + 2,1
Jet-grouting depth in single passage - m	✓	✓	11	-

The Range Of Our Products



Drilling Rigs XP-2 series	C5	C6	M9	C7	C8
Engine power - kW	115	142	209	201	209
Torque - kNm	17,7	22	30	70	70
Stroke - Single rotary head - m	4	7,3	10	10	10
Extraction/Crowd force - kN	65	87	100	87	87
Weight - t	13	15	21	22	25
Jet-grouting depth in single passage - m	13	20	23	26	28



Drilling Rigs XP-2 series	C9	C10	C12	C14	C16
Engine power - kW	209	209	209	209	209
Torque - kNm	70	70	70	30	70
Stroke - Single rotary head - m	10	10	13	13	16
Extraction/Crowd force - kN	150	150	150	120	188
Weight - t	27	28	30	33	36
Jet-grouting depth in single passage - m	26	28	28,5	36	36



The Range Of Our Products



JET _____ ____ GROUTING EQUIPMENT _____

➤ HIGH PRESSURE PUMPS

➤ MIXING PLANT

➤ DRILL STRING



The Range Of Our Products



TUNNELLING EQUIPMENT



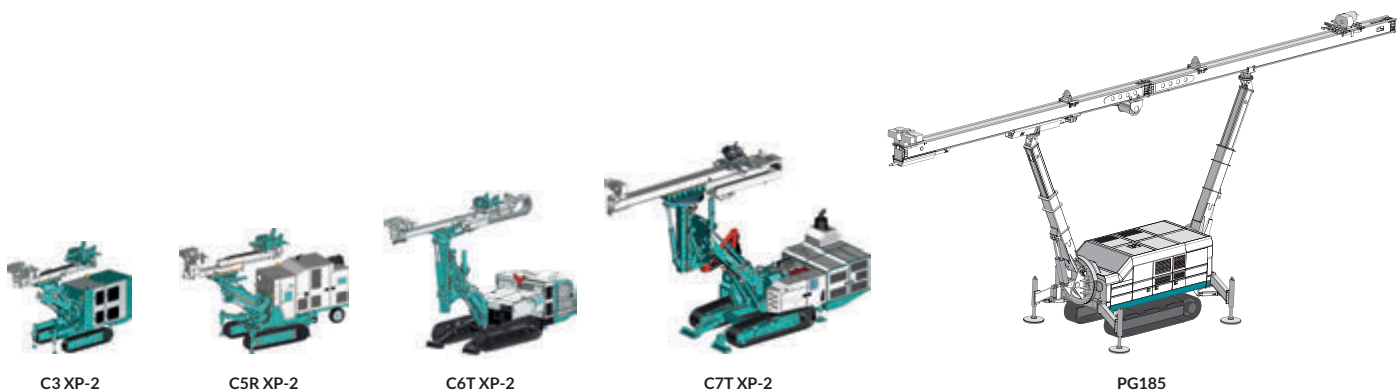
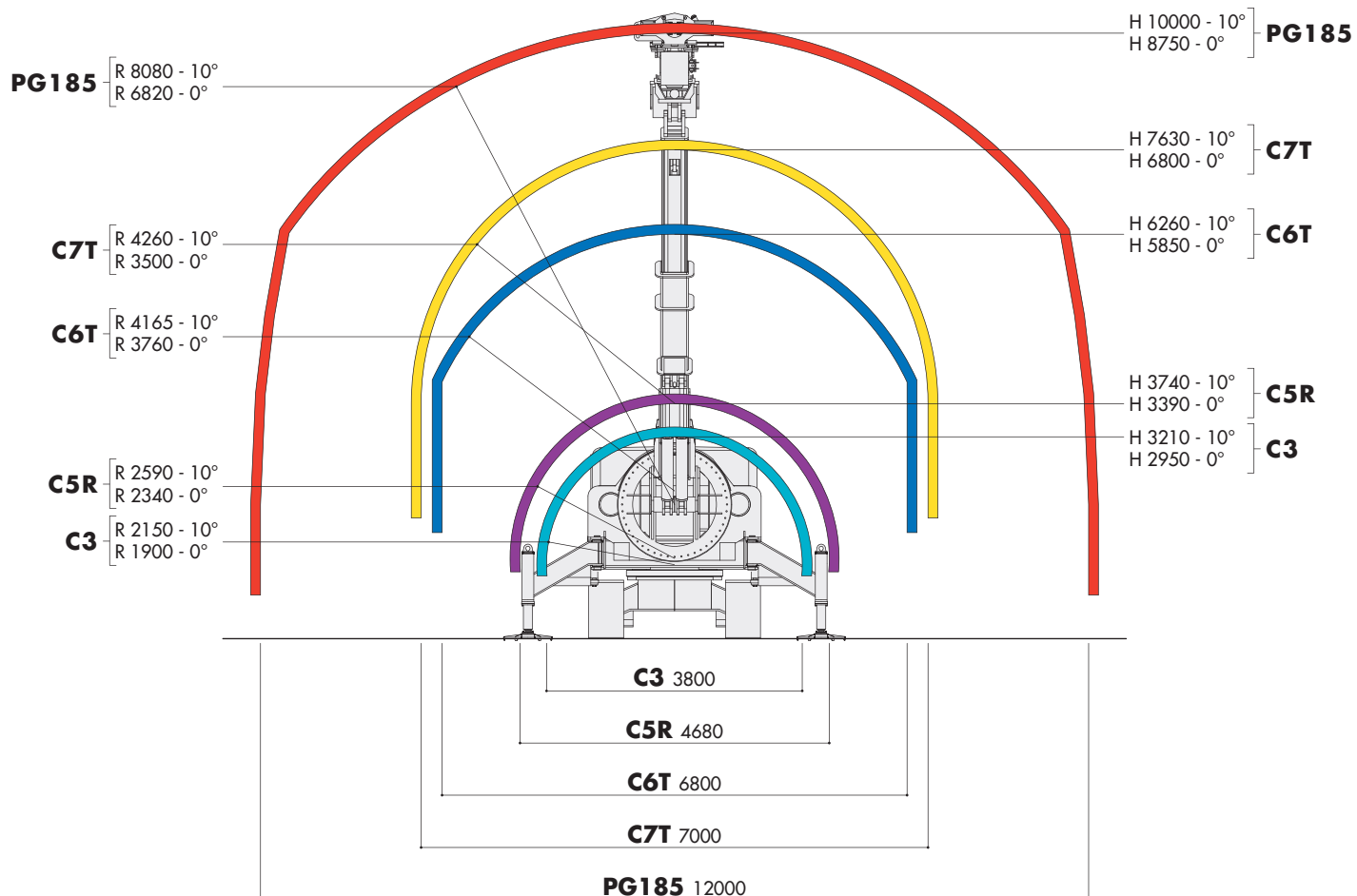
Casagrande's new range of tunnelling equipment is designed and built using the latest state-of-the-art techniques. A range of machines engineered to satisfy the needs of the most demanding contractor with emphasis on performance, reliability and economy.



The equipment are used to construct an arch around the tunnel's periphery ahead of the face.

The arch provides support in weak soil so that excavation may be carried out safely without the use of expensive temporary support systems, it also ensures that deformations are kept within acceptable limits.

The Range Of Our Products



Technical data	C3 XP-2	C5R XP-2	C6T XP-2	C7T XP-2	PG185
Height center of ring gears - mm	1060	1135	530 ÷ 2090	520 ÷ 3300	1920
Radius of horizontal drilling - mm	1100 ÷ 1900	1350 ÷ 2340	2810 ÷ 3760	2700 ÷ 3500	2600 ÷ 6820
Stroke single rotary head - mm	2000	2150	4000	7300	18000
Weight - kg	~ 6500	~ 10000	~ 17000	~ 24000	~ 45000

FOUNDATION DRILLING TOOLS AND ACCESSORIES

In order to obtain the best of the innovated hydraulic installed on the machine and transfer properly to the ground, we have created a new and complete range of drilling tools and accessories.

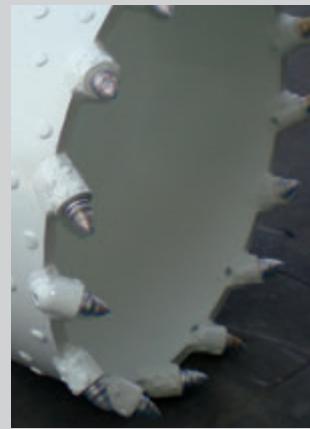
Buckets



Augers



Core Barrels



Special Tools



FDP



Tools Spare Parts







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