



casagrande

B400

HYDRAULIC PILING RIG

ATTREZZATURA IDRAULICA PER PALI



TECHNICAL SPECIFICATIONS

DATI TECNICI

B400
HYDRAULIC PILING RIG

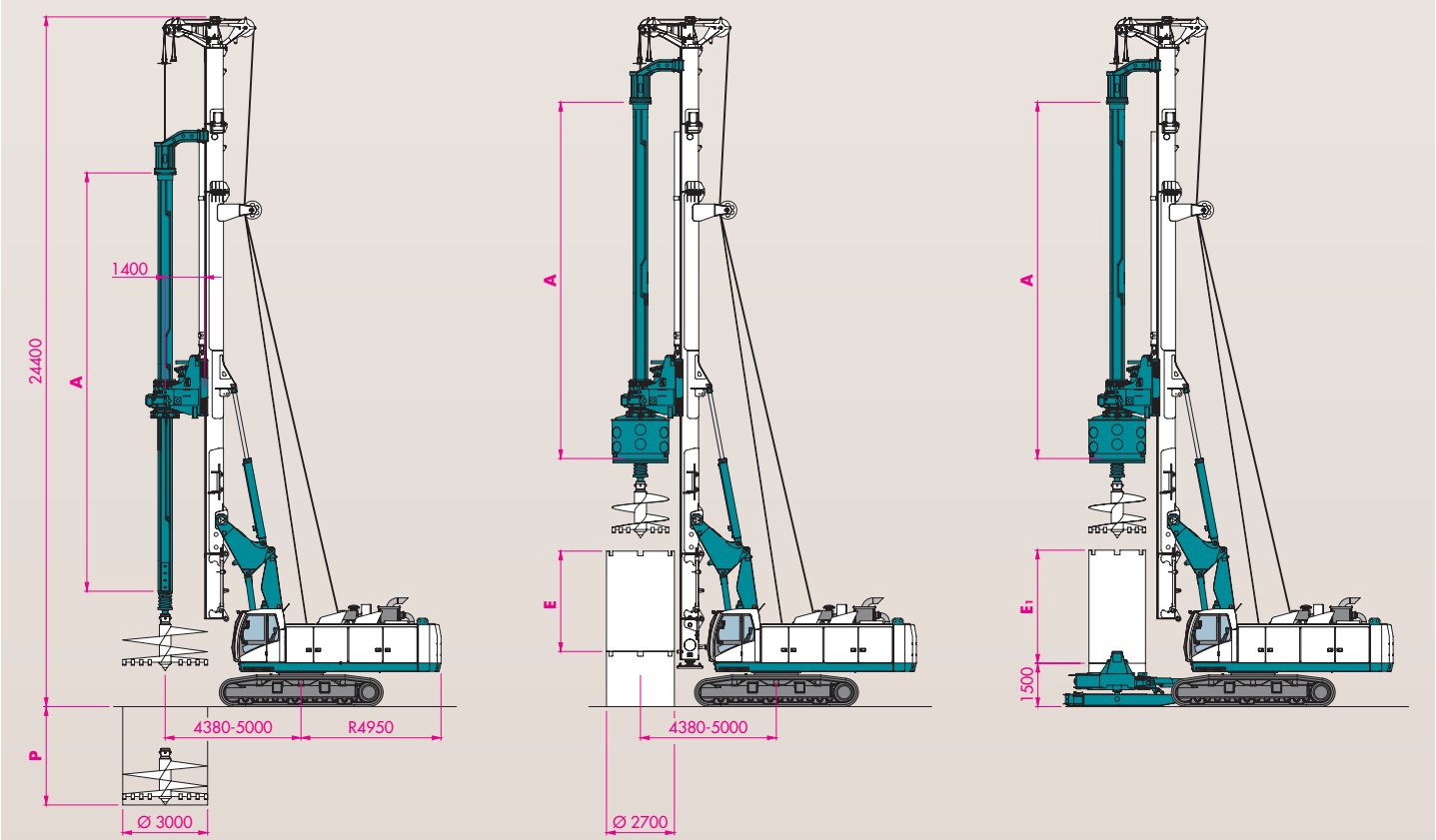
PILING		PALI	
Max depth		Profondità max	87 m
Max diameter		Diametro max	3000 mm
Max diameter with casing - Crowd ram		Diametro max con tubo - Martinetto pull-down	2700 mm
Max diameter with casing - Crowd winch		Diametro max con tubo - Argano pull-down	2200 mm
Max diameter with casing oscillator		Diametro max con morsa giracolonna	2200 mm
C.F.A. CONTINUOUS FLIGHT AUGER		ELICA CONTINUA C.F.A.	
Max depth		Profondità max	30 m
Max diameter		Diametro max	1200 mm
SOIL MIXING		SOIL MIXING	
Max depth		Profondità max	30 m
Max diameter		Diametro max	1200 mm
DIAPHRAGM WALL		DIAFRAMMI	
Max depth		Profondità max	58 m
Max length of trench		Lunghezza max scavo	3000 mm
Max width of trench		Larghezza max scavo	1500 mm
UNDERCARRIAGE		CARATTERISTICHE CARRO	
Width with retracted/extended tracks		Larghezza con cingoli chiusi/ aperti	3000/4480 mm
Tracks length		Lunghezza cingoli	5790 mm
Shoes width		Larghezza pattini	900 mm
ENGINE		MOTORE	
Model		Modello	DEUTZ AG TCD 2015 V08 (EPA/COM III) Intercooler
Power at 2100 rpm		Potenza a 2100 giri	480 kW
Hydraulic power		Potenza idraulica	300 kW
MAIN WINCH		ARGANO PRINCIPALE	
Nominal line pull on 1 st layer		Tiro nominale 1° strato	360 kN
Max line speed		Velocità max fune	69 m/min
AUXILIARY WINCH		ARGANO AUSILIARIO	
Nominal line pull on 1 st layer		Tiro nominale 1° strato	142 kN
Max line speed		Velocità max fune	62 m/min
MAIN WINCH FOR KRC USE		ARGANO PRINCIPALE USO KRC	
Nominal line pull on 1 st layer		Tiro nominale 1° strato	300 kN
Max line speed		Velocità max fune	106 m/min
ROTARY HEAD		TESTA ROTARY	
Max torque		Coppia max	H30 SX * 200 kNm H40 358 kNm
Max drilling speed		Velocità max lavoro	68 rpm 23 rpm
Discharge speed		Velocità di scarico	100 rpm 99 rpm
CROWD RAM		MARTINETTO PULL-DOWN	
Max extraction force		Tiro max	400 kN
Max crowd force		Spinta max	250 kN
Stroke		Corsa	7000 mm
CROWD WINCH		ARGANO PULL-DOWN	
Max extraction force		Tiro max	475 kN
Max crowd force		Spinta max	475 kN
Stroke		Corsa	14000 mm
MAST INCLINATION		INCLINAZIONE MAST	
Forward Backward Lateral		Avanti Indietro Laterale	3° 15° ±3°
WEIGHT		PESO	
Weight in working condition		Attrezzatura in condizioni di lavoro	~ 110 t

* For Soil Mixing applications / Per impiego Soil Mixing

PILING ARRANGEMENT - PDC

ALLESTIMENTO PALI - PDC

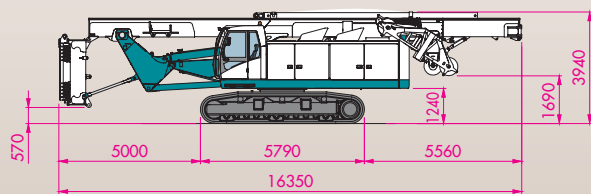
CROWD RAM - MARTINETTO PULL-DOWN



DRILLING DEPTH		PROFONDITÀ DI SCAVO						
Nominal kelly bars length	Larghezza nominale aste		A	7500	9500	11000	12500	14500
Kelly bars 4 elements	Aste a 4 elementi	m	P	26	34	40	46	54
Kelly bars 5 elements	Aste a 5 elementi	m	P	—	42,5	50	57,5	67,5
Casing length	Lunghezza tubo	mm	E	4000	4000	4000	4000	2000
Casing length with oscillator	Lunghezza tubo con morsa	mm	E _i	4000	4000	4000	4000	2000

TRANSPORT DIMENSIONS

DIMENSIONI DI TRASPORTO



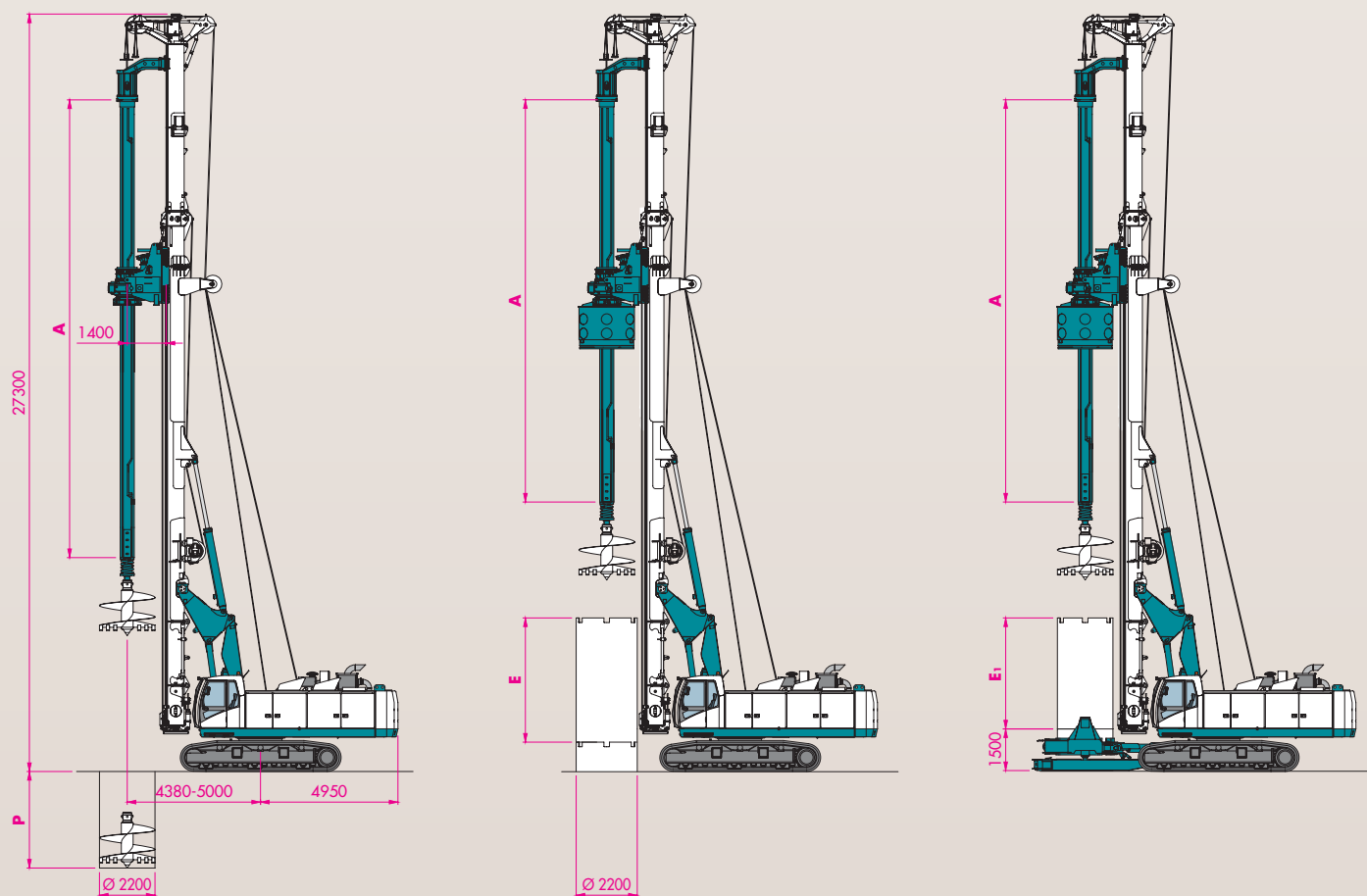
WEIGHT - PESO	
Without counterweight and rotary head Senza zavorra e rotary	~ 75 t
Rotary head Tavola rotary	~ 7 t
Counterweight Contrappeso	~ 14 t

PILING ARRANGEMENT - PDW

ALLESTIMENTO PALI - PDW

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HYDRAULIC PILING RIG

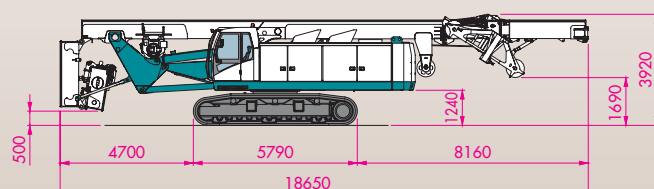
CROWD WINCH - ARGANO PULL-DOWN



DRILLING DEPTH		PROFONDITÀ DI SCAVO		A	7500	9500	11000	12500	14500	16500	18500
Nominal kelly bars length	Larghezza nominale aste										
Kelly bars 4 elements	Aste a 4 elementi	m	P	26	34	40	46	54	62	70	
Kelly bars 5 elements	Aste a 5 elementi	m	P	—	42	50	57	67	77	87	
Casing length	Lunghezza tubo	mm	E	6000	6000	6000	6000	4000	2000	—	
Casing length with oscillator	Lunghezza tubo con morsa	mm	E _i	6000	6000	6000	6000	4000	—	—	

TRANSPORT DIMENSIONS

DIMENSIONI DI TRASPORTO



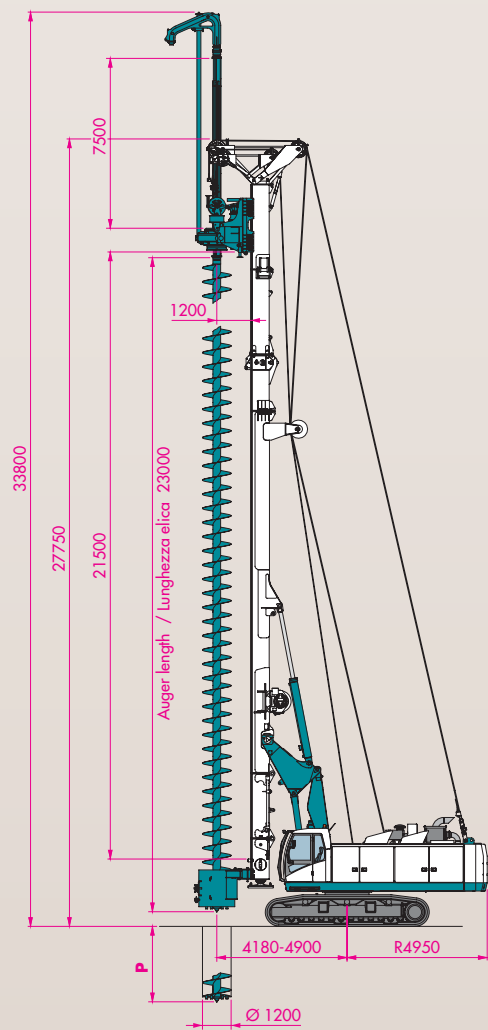
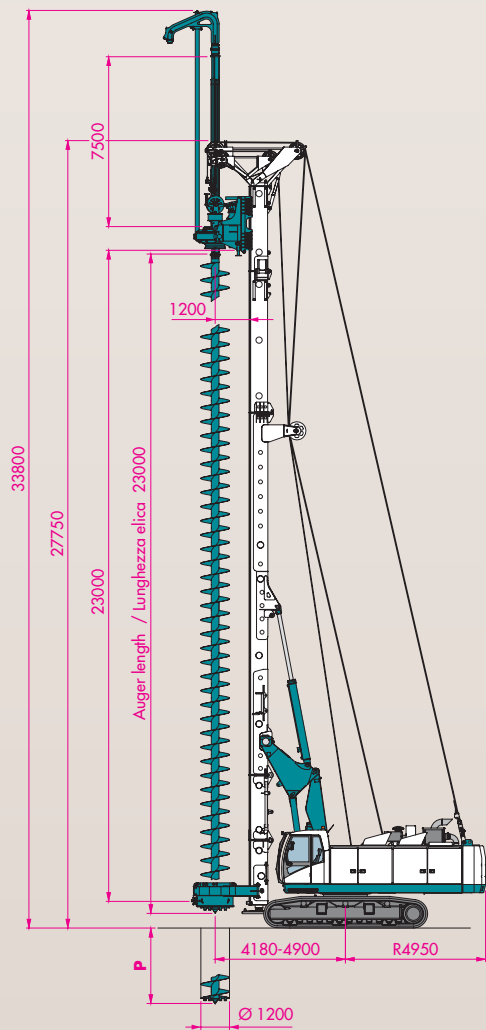
WEIGHT - PESO

Transport mode	~ 91 t
In fase di trasporto	
Without counterweight	~ 77 t
Senza contrappeso	
Rotary head	~ 7 t
Tavola rotory	

C.F.A. ARRANGEMENT

ALLESTIMENTO C.F.A.

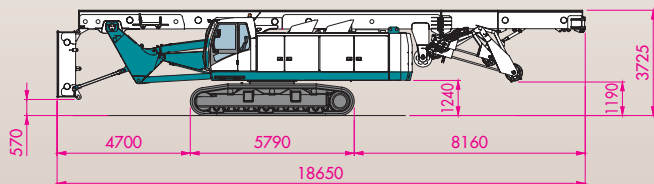
ARRANGEMENT FROM MAST WITH CROWD WINCH
ALLESTIMENTO DA MAST CON ARGANO PULL-DOWN



DRILLING DEPTH	PROFONDITÀ DI SCAVO			CFA	CFA pdw
Max Diameter	Diametro max	Ø	D	1200	1200
Max depth:	Profondità max:				
· with rotating auger cleaner	· con pulisci elica rotante	m	P	29	27,5
· with star auger cleaner	· con pulisci elica stellare	m	P	30	28,5
Extraction force	Forza di estrazione	kN		1000	1000

TRANSPORT DIMENSIONS

DIMENSIONI DI TRASPORTO



WEIGHT · PESO	
Transport mode	
In fase di trasporto	~ 88 t
Without counterweight	
Senza contrappeso	~ 74 t
Rotary head	
Tavola rotary	~ 8 t





TECHNICAL SPECIFICATIONS

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HYDRAULIC PILING RIG

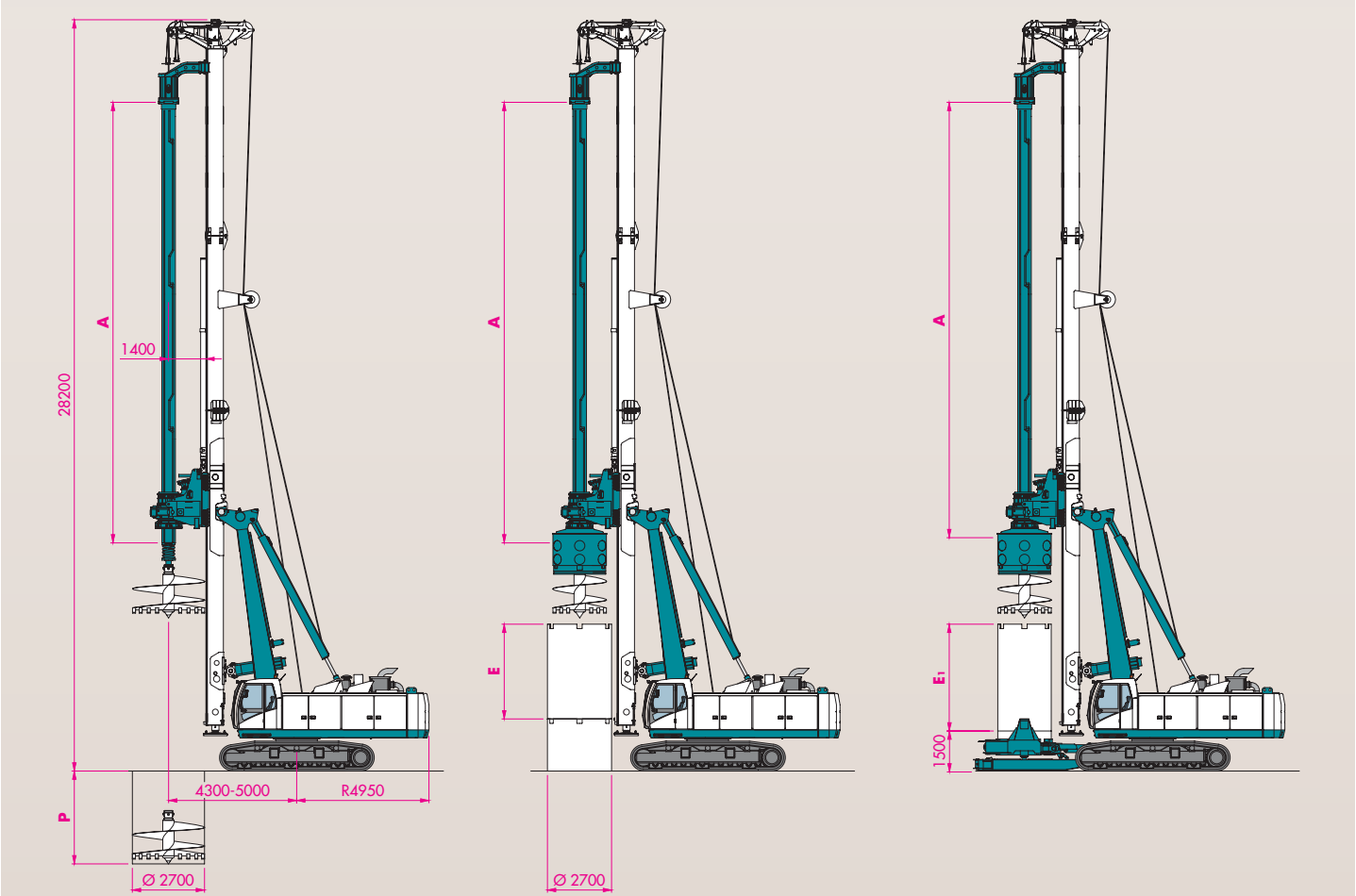
HT arrangement

PILING		PALI	
Max depth		Profondità max	87 m
Max diameter		Diametro max	2700 mm
Max diameter with casing - Crowd ram		Diametro max con tubo - Martinetto pull-down	2700 mm
Max diameter with casing - Crowd winch		Diametro max con tubo - Argano pull-down	2200 mm
Max diameter with casing oscillator		Diametro max con morsa giracolonna	2200 mm
C.F.A. CONTINUOUS FLIGHT AUGER		ELICA CONTINUA C.F.A.	
Max depth		Profondità max	29,5 m
Max diameter		Diametro max	1200 mm
SOIL MIXING		SOIL MIXING	
Max depth		Profondità max	29,5 m
Max diameter		Diametro max	1200 mm
DIAPHRAGM WALL		DIAFRAMMI	
Max depth		Profondità max	58 m
Max length of trench		Lunghezza max scavo	3000 mm
Max width of trench		Larghezza max scavo	1500 mm
UNDERCARRIAGE		CARATTERISTICHE CARRO	
Width with retracted/extended tracks		Larghezza con cingoli chiusi/ aperti	3000/4480 mm
Tracks length		Lunghezza cingoli	5790 mm
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ENGINE		MOTORE	
Model		Modello	DEUTZ AG TCD 2015 V08 (EPA/COM III) Intercooler
Power at 2100 rpm		Potenza a 2100 giri	480 kW
Hydraulic power		Potenza idraulica	300 kW
MAIN WINCH		ARGANO PRINCIPALE	
Nominal line pull on 1 st layer		Tiro nominale 1° strato	360 kN
Max line speed		Velocità max fune	69 m/min
AUXILIARY WINCH		ARGANO AUSILIARIO	
Nominal line pull on 1 st layer		Tiro nominale 1° strato	142 kN
Max line speed		Velocità max fune	62 m/min
MAIN WINCH FOR KRC USE		ARGANO PRINCIPALE USO KRC	
Nominal line pull on 1 st layer		Tiro nominale 1° strato	300 kN
Max line speed		Velocità max fune	106 m/min
ROTARY HEAD		TESTA ROTARY	H30 SX * H40 H50 **
Max torque		Coppia max	200 kNm 358 kNm 546 kNm
Max drilling speed		Velocità max lavoro	68 rpm 23 rpm 11 rpm
Discharge speed		Velocità di scarico	100 rpm 99 rpm —
CROWD RAM		MARTINETTO PULL-DOWN	
Max extraction force		Tiro max	400 kN
Max crowd force		Spinta max	250 kN
Stroke		Corsa	7000 mm
CROWD WINCH		ARGANO PULL-DOWN	
Max extraction force		Tiro max	475 kN
Max crowd force		Spinta max	475 kN
Stroke		Corsa	14000 mm
MAST INCLINATION		INCLINAZIONE MAST	
Forward Backward Lateral		Avanti Indietro Laterale	5° 15° ±3°
WEIGHT		PESO	
Weight in working condition		Attrezzatura in condizioni di lavoro	~ 110 t
* For Soil Mixing applications / Per impiego Soil Mixing		** For driving casings / Per infissione tubi colonna	

PILING ARRANGEMENT - HT.PDC

ALLESTIMENTO PALI - HT.PDC

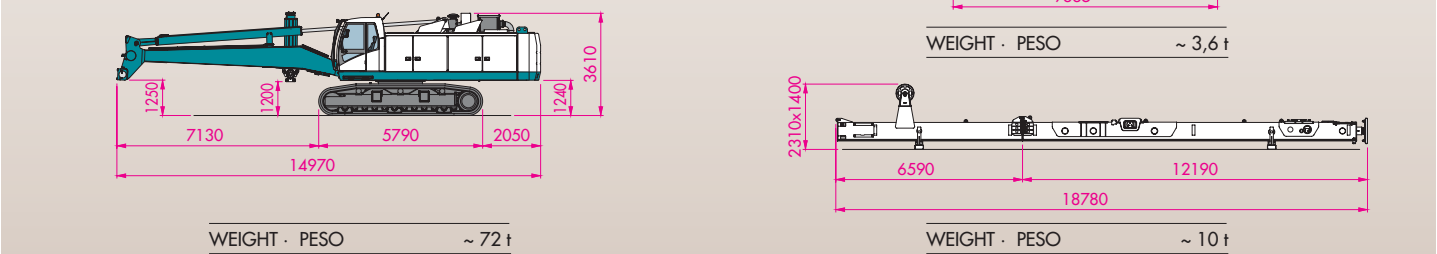
CROWD RAM - MARTINETTO PULL-DOWN



DRILLING DEPTH			PROFONDITÀ DI SCAVO							
Nominal kelly bars length	Larghezza nominale aste		A	7500	9500	11000	12500	14500	16500	18500
Kelly bars 4 elements	Aste a 4 elementi	m	P	25	34	40	46	54	62	70
Kelly bars 5 elements	Aste a 5 elementi	m	P	—	42,5	50	57,5	67,5	77,5	87,5
Casing length	Lunghezza tubo	mm	E	4000	4000	4000	4000	4000	4000	2000
with oscillator	con morsa	mm	E ₁	4000	4000	4000	4000	4000	4000	2000

TRANSPORT DIMENSIONS

DIMENSIONI DI TRASPORTO



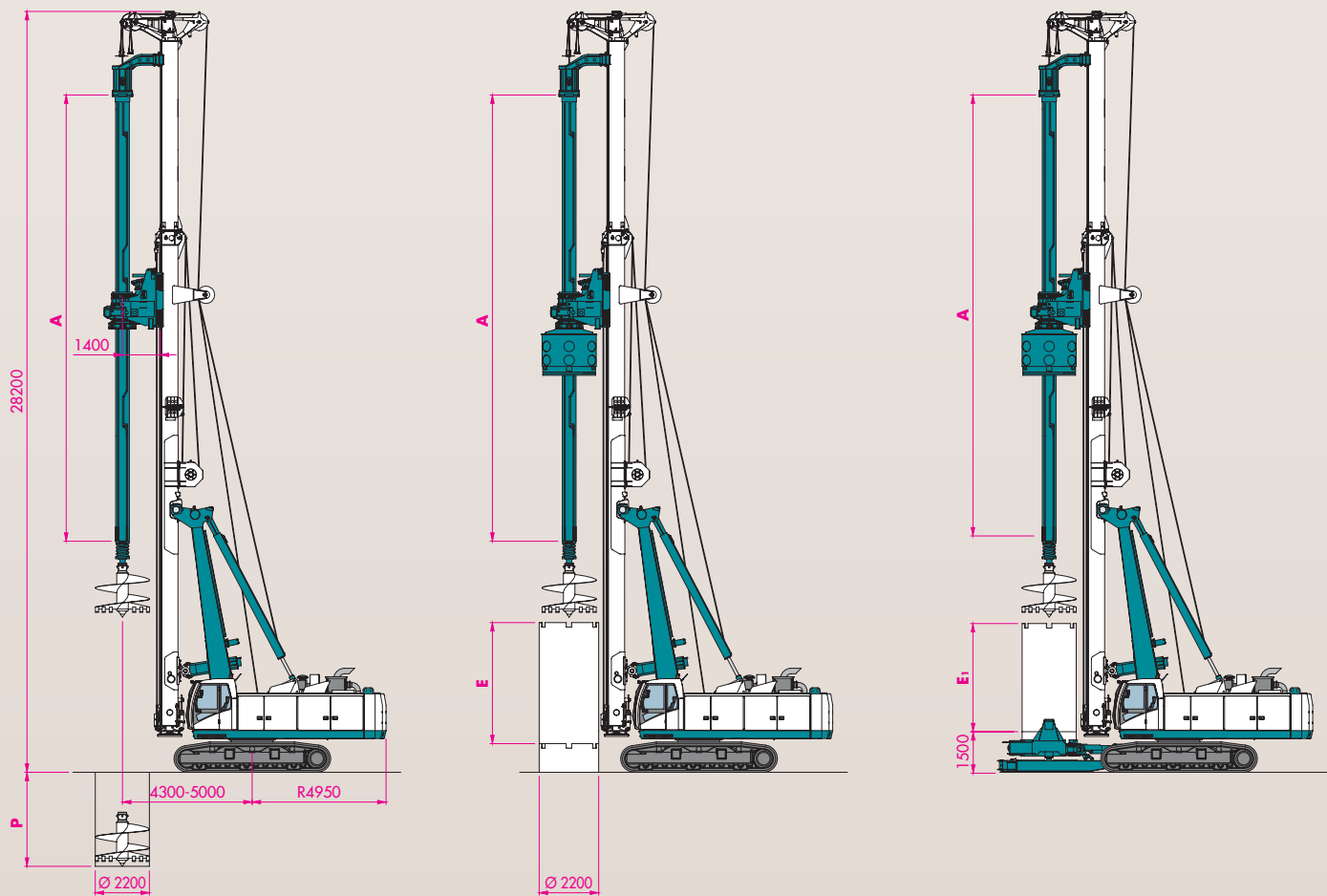
PILING ARRANGEMENT - HT.PDW

ALLESTIMENTO PALI - HT.PDW

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CROWD WINCH - ARGANO PULL-DOWN

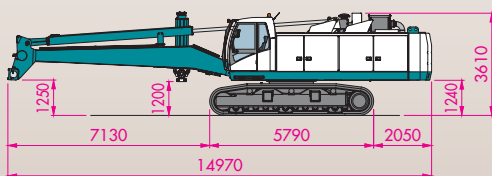
HT arrangement



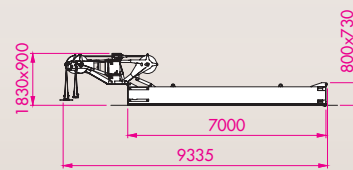
DRILLING DEPTH		PROFONDITÀ DI SCAVO		A	7500	9500	11000	12500	14500	16500	18500
Nominal kelly bars length	Larghezza nominale aste										
Kelly bars 4 elements	Aste a 4 elementi	m	P	25	33	39	45	53	61	69	
Kelly bars 5 elements	Aste a 5 elementi	m	P	—	41,5	49	56,5	66,5	76,5	86,5	
Casing length	Lunghezza tubo	mm	E	6000	6000	6000	6000	6000	4000	2000	
with oscillator	con morsa	mm	E ₁	6000	6000	6000	6000	6000	4000	2000	

TRANSPORT DIMENSIONS

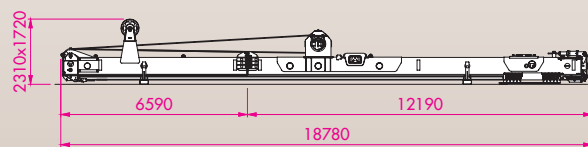
DIMENSIONI DI TRASPORTO



WEIGHT · PESO ~ 72 t



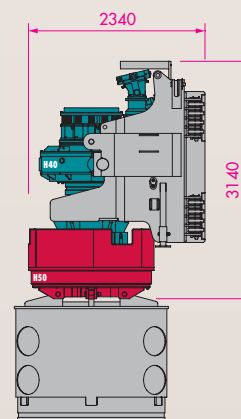
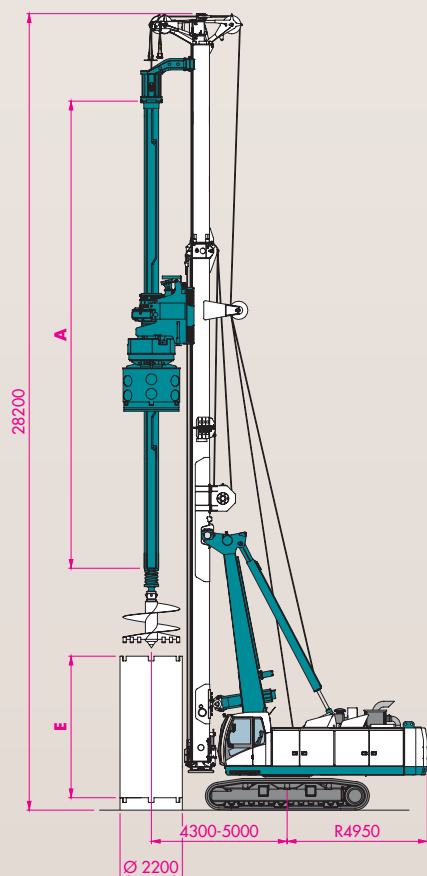
WEIGHT · PESO ~ 3,6 t



WEIGHT · PESO ~ 15 t

ALLESTIMENTO PALI - HT.H50

H50 HYDRAULIC TORQUE MULTIPLIER

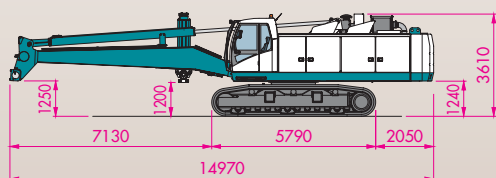


WEIGHT · PESO ~ 10 t

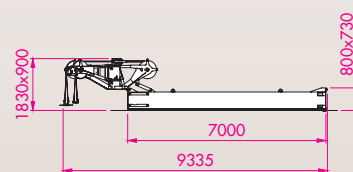
		Torque/Coppia	Speed/Velocità
		kNm	rpm
I speed	I velocità	546	5.4
II speed	II velocità	273	11

DRILLING DEPTH		PROFONDITÀ DI SCAVO								
Nominal kelly bars length	Larghezza nominale aste		A	7500	9500	11000	12500	14500	16500	18500
Kelly bars 4 elements	Aste a 4 elementi	m	P	25	33	39	45	53	61	69
Kelly bars 5 elements	Aste a 5 elementi	m	P	—	41,5	49	56,5	66,5	76,5	86,5
Casing length	Lunghezza tubo	mm	E	6000	6000	6000	6000	6000	4000	2000

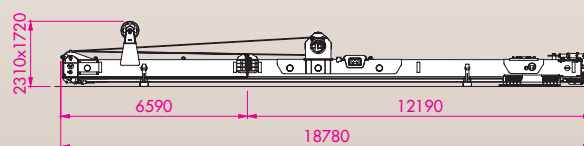
DIMENSIONI DI TRASPORTO



WEIGHT · PESO ~ 72 t



WEIGHT · PESO ~ 3,6 t

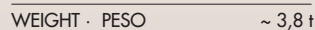
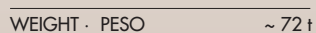


WEIGHT · PESO ~ 15 t

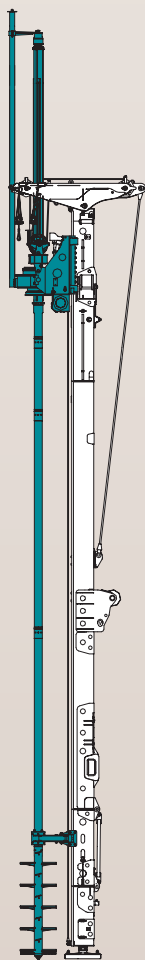
ALLESTIMENTO C.F.A. - HT



DIMENSIONI DI TRASPORTO

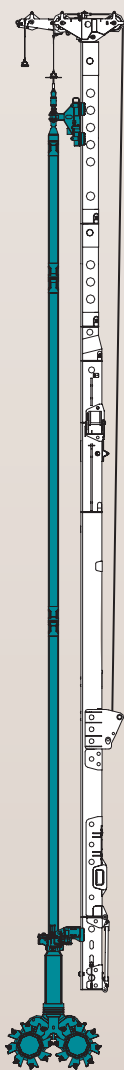






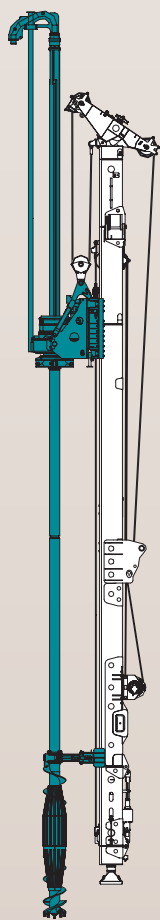
SOIL MIXING

Depth 30 m
Ø 1200 mm



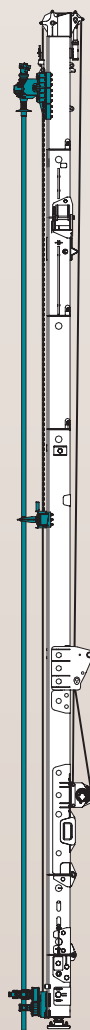
CSM CUTTER SOIL MIXING

Depth 25 m
Trench 1000 x 2800 mm



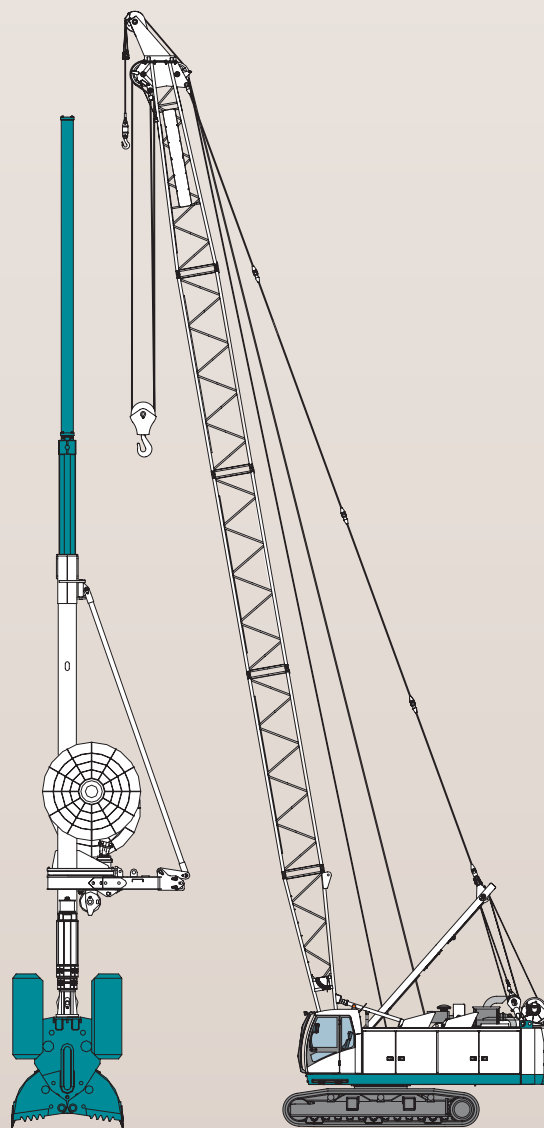
DISPLACEMENT PILE

Depth 32 m
Ø 620 mm



MICROPILING JET-GROUTING

Rotary stroke 25 m
Ø 40 ÷ 254 mm



KRC DIAPHRAGM WALL

Depth 58 m
Trench 500 ÷ 1500 mm

CRANE

Max lifting capacity 67 t
Radius 3,9 m

CASAGRANDE HYDRAULIC PILING RIGS RANGE



B125xp



B175xp



B200xp



B250xp



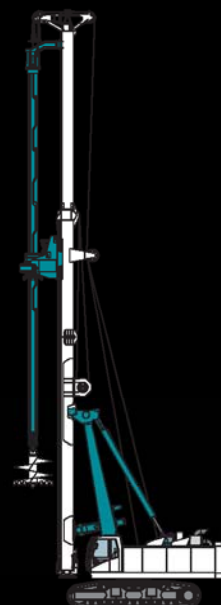
B300xp



B400



C850



C900

All data contained in this brochure are indicative and does not take power losses into account. All data can be changed without notice.
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