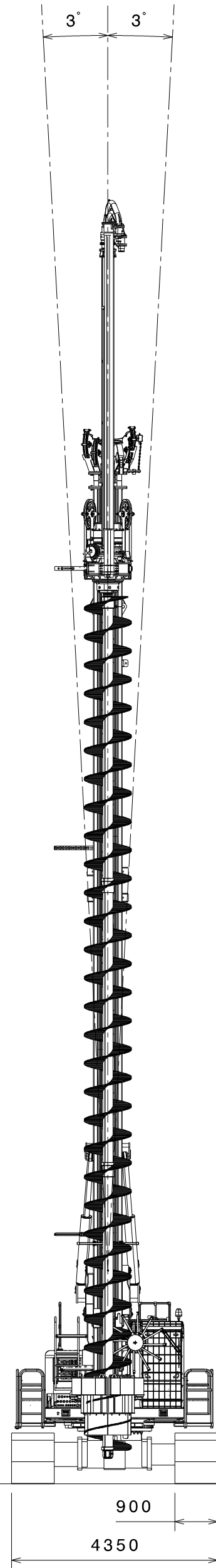
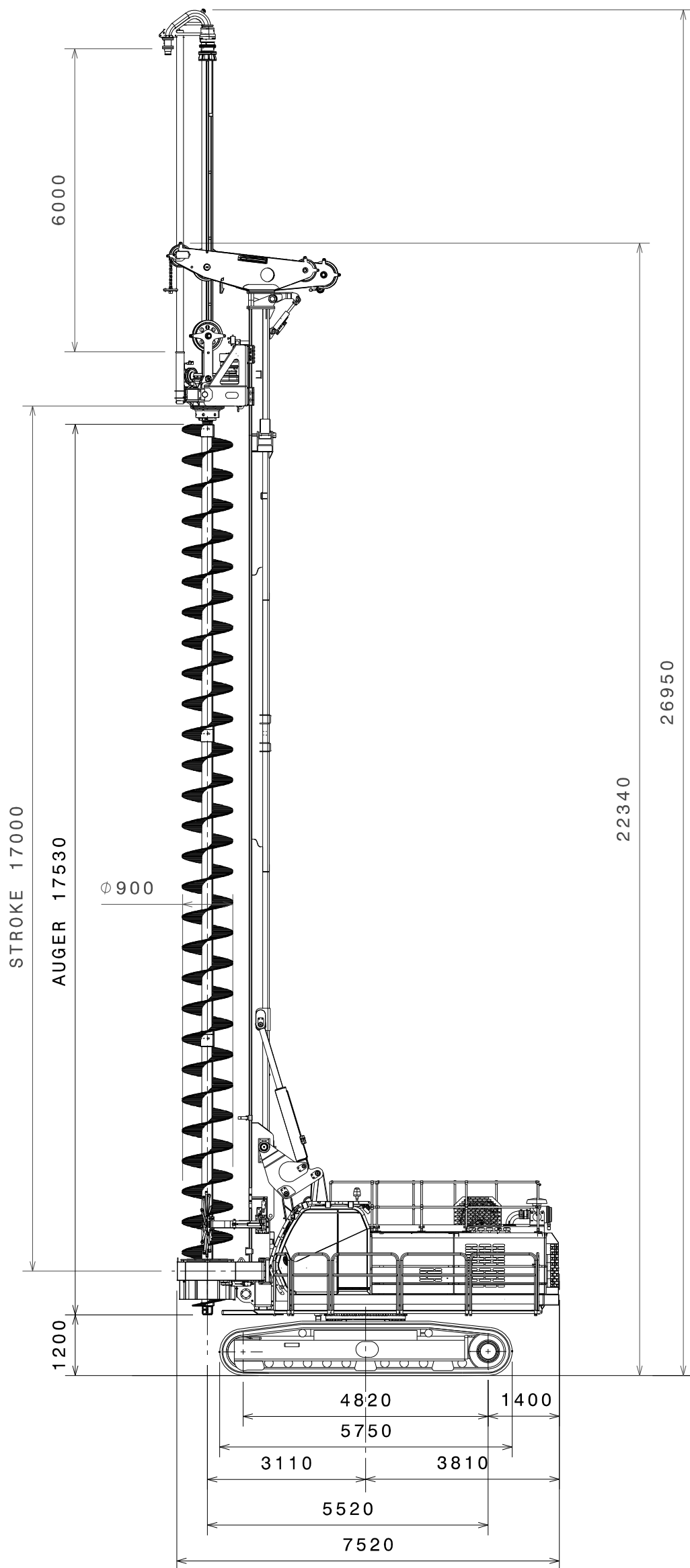


WEIGHT 57800 kg
AUGER Ø900 WEIGHT 250 Kg/m



Proprietà di Mc DRILL TECHNOLOGY S.r.l.
 Il presente disegno non può essere utilizzato per la produzione dell'oggetto rappresentato, né venire riprodotto o comunicato a terzi. In caso di trasgressione, la Società si riserva di agire secondo i termini di legge.

MDT550BP-006 17 m



Schedule of Piling Rig Component Weights, Dimensions, Forces and Pressures

Rig Manufacturer :	Mc Drill Technology	Rig Type : MDT550 CFA (Art. 55°) stroke 17 m	
	Operation mode:	CFA	
Completed by:	22/10/2019	Checked by:	
Item	Mass (kg)	Moment arm (m)	Moment (kNm)
UPPER WORKS	8713	3,05	260,37
LOWER WORKS	42098	-0,46	-190,25
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT	8886	3,95	344,41
COUNTERWEIGHT	0	0,00	0,00
OTHER	0	0,00	0,00
TOTAL	59697	0,71	414,53

Tracks			
Track bearing length (m)	4,82		
Track pad width (m)	0,9		
Distance between centrelines of tracks (m)	3,45		

Front Foot Pads			
Pad Bearing Area (m ²)	1,19	Actual Dimensions	1.2 x 1.5 m
Pad Maximum Loading (kN)	531,75	Actual Shape	C shaped
Pad Moment Arm (m)	2,74		

Rear Foot Pads			
Pad Bearing Area (m ²)	0,00	Actual Dimensions	None
Pad Maximum Loading (kN)	0,00	Actual Shape	None
Pad Moment Arm (m)	0,00		

Forces			
Maximum Extraction Force (kN)	400,00		
Maximum Penetration Force (kN)	0,01		
Maximum Auxillary Force (kN)	58,00	Auxillary Force Moment Arm (m)	4,72

Pressure Summary for Platform Design (unfactored)

MODE	BRE LOAD CASE (1 or 2)	Length (m)	Width (m)	UDL Pressure (kPa)
Standing	1	3,82	0,9	110
Travelling	1	3,82	0,9	110
Handling	1	2,97	0,9	158
Penetrating	2	4,62	0,9	63
Extracting	2	2,28	0,9	221
Other	NOT USED	N/A	0,9	N/A

MODE	WARNING MESSAGES	ERROR MESSAGES FOR FORCES		
Standing	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Travelling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Handling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Penetrating	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Extracting	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Other	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK

MODE	ERROR MESSAGES FOR FOOT PADS		Notes
Standing	Front Foot Pad Force OK	Rear Foot Pad Force OK	Only for rig operation on level ground with a vertical mast, unless noted below !
Travelling	Front Foot Pad Force OK	Rear Foot Pad Force OK	Only for use where the rig is working on a ground supported platform !
Handling	Front Foot Pad Force OK	Rear Foot Pad Force OK	Foot pad pressures are adjusted to equalise with the track pressures !
Penetrating	Front Foot Pad Force OK	Rear Foot Pad Force OK	Rigs to be operated in accordance with manufacturer's & employer's instructions
Extracting	Front Foot Pad Force OK	Rear Foot Pad Force OK	
Other	Front Foot Pad Force OK	Rear Foot Pad Force OK	

Note: The disclaimer on the first worksheet applies to all tables in this workbook



Schedule of Piling Rig Component Weights, Dimensions, Forces and Pressures

Rig Manufacturer :	Mc Drill Technology	Rig Type :	MDT550 CFA (Art. 81°) stroke 17 m
	Operation mode:	CFA	
Completed by:	22/10/2019	Checked by:	
Item	Mass (kg)	Moment arm (m)	Moment (kNm)
UPPER WORKS	8713	2,25	192,68
LOWER WORKS	42099	-0,49	-200,83
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT	8886	3,04	264,72
COUNTERWEIGHT	0	0,00	0,00
OTHER	0	0,00	0,00
TOTAL	59698	0,44	256,58

Tracks

Track bearing length (m)	4,82		
Track pad width (m)	0,9		
Distance between centrelines of tracks (m)	3,45		

Front Foot Pads

Pad Bearing Area (m ²)	1,19	Actual Dimensions	1.2 x 1.5 m
Pad Maximum Loading (kN)	531,75	Actual Shape	C shaped
Pad Moment Arm (m)	2,02		

Rear Foot Pads

Pad Bearing Area (m ²)	0,00	Actual Dimensions	None
Pad Maximum Loading (kN)	0,00	Actual Shape	None
Pad Moment Arm (m)	0,00		

Forces

Maximum Extraction Force (kN)	400,00		
Maximum Penetration Force (kN)	0,01		
Maximum Auxillary Force (kN)	58,00	Auxillary Force Moment Arm (m)	3,86

Pressure Summary for Platform Design (unfactored)

MODE	BRE LOAD CASE (1 or 2)	Length (m)	Width (m)	UDL Pressure (kPa)
Standing	1	4,20	0,9	91
Travelling	1	4,20	0,9	91
Handling	1	3,38	0,9	118
Penetrating	2	4,79	0,9	58
Extracting	2	2,61	0,9	173
Other	NOT USED	N/A	0,9	N/A

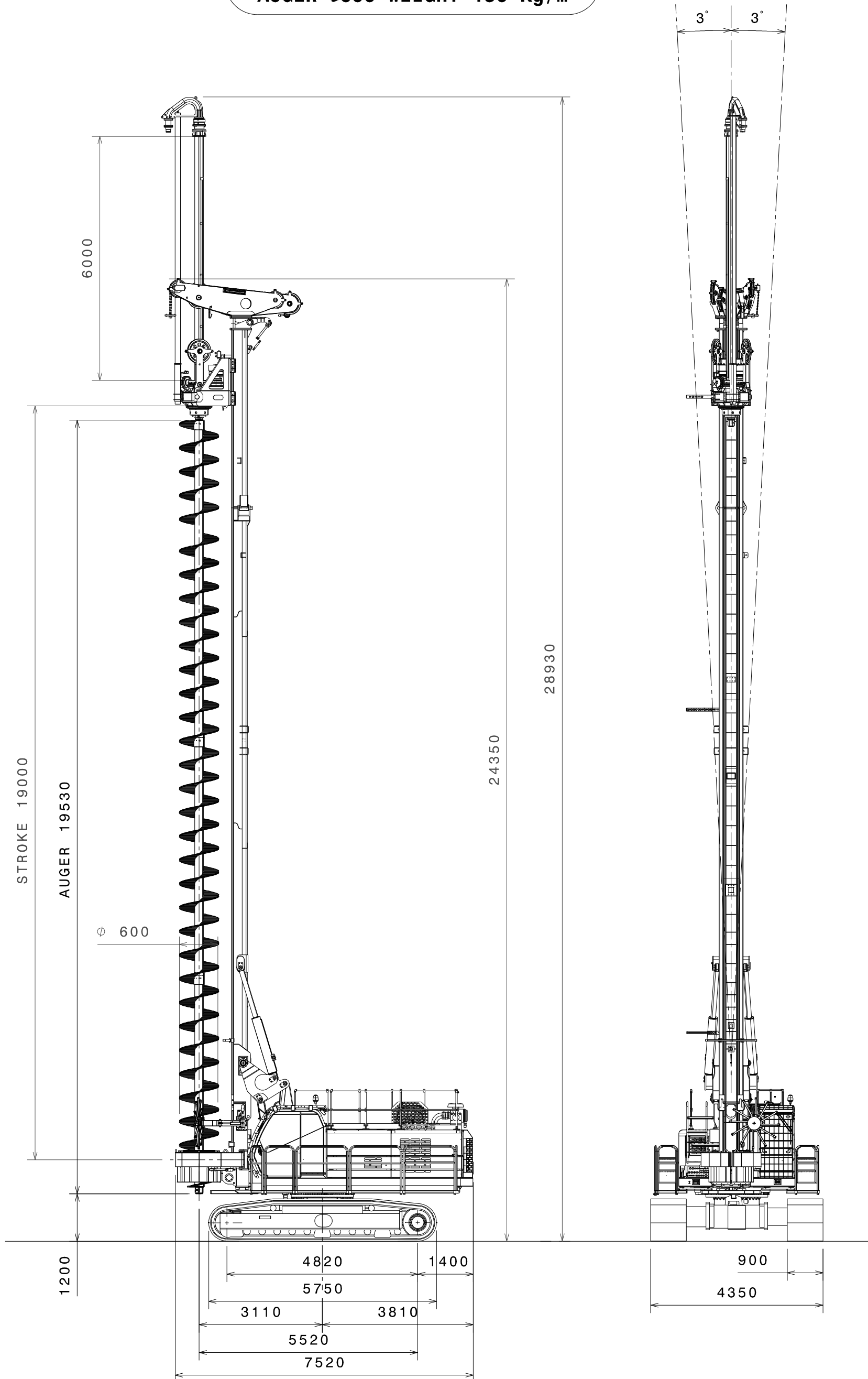
MODE	WARNING MESSAGES	ERROR MESSAGES FOR FORCES		
Standing	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Travelling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Handling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Penetrating	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Extracting	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Other	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK

MODE	ERROR MESSAGES FOR FOOT PADS		Notes
Standing	Front Foot Pad Force OK	Rear Foot Pad Force OK	Only for rig operation on level ground with a vertical mast, unless noted below !
Travelling	Front Foot Pad Force OK	Rear Foot Pad Force OK	Only for use where the rig is working on a ground supported platform !
Handling	Front Foot Pad Force OK	Rear Foot Pad Force OK	Foot pad pressures are adjusted to equalise with the track pressures !
Penetrating	Front Foot Pad Force OK	Rear Foot Pad Force OK	Rigs to be operated in accordance with manufacturer's & employer's instructions
Extracting	Front Foot Pad Force OK	Rear Foot Pad Force OK	
Other	Front Foot Pad Force OK	Rear Foot Pad Force OK	

Note: The disclaimer on the first worksheet applies to all tables in this workbook



WEIGHT 57300 kg
AUGER Ø600 WEIGHT 150 Kg/m



Proprietà di Mc DRILL TECHNOLOGY S.r.l.
 Il presente disegno non può essere utilizzato per la produzione dell'oggetto rappresentato, né venire riprodotto o comunicato a terzi. In caso di trasgressione, la Società si riserva di agire secondo i termini di legge.

MDT550BP - 006 19 m



Schedule of Piling Rig Component Weights, Dimensions, Forces and Pressures

Rig Manufacturer :	Mc Drill Technology	Rig Type :	MDT550 CFA (Art. 55°) stroke 19m
	Operation mode:	CFA	
Completed by:	22/10/2019	Checked by:	
Item	Mass (kg)	Moment arm (m)	Moment (kNm)
UPPER WORKS	8979	3,04	268,07
LOWER WORKS	42099	-0,46	-190,26
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT	7386	3,94	285,81
COUNTERWEIGHT	0	0,00	0,00
OTHER	0	0,00	0,00
TOTAL	58464	0,63	363,63

Tracks

Track bearing length (m)	4,82		
Track pad width (m)	0,9		
Distance between centrelines of tracks (m)	3,45		

Front Foot Pads

Pad Bearing Area (m ²)	1,19	Actual Dimensions	1.2 x 1.5 m
Pad Maximum Loading (kN)	531,75	Actual Shape	C shaped
Pad Moment Arm (m)	2,74		

Rear Foot Pads

Pad Bearing Area (m ²)	0,00	Actual Dimensions	None
Pad Maximum Loading (kN)	0,00	Actual Shape	None
Pad Moment Arm (m)	0,00		

Forces

Maximum Extraction Force (kN)	400,00		
Maximum Penetration Force (kN)	0,01		
Maximum Auxillary Force (kN)	58,00	Auxillary Force Moment Arm (m)	4,72

Pressure Summary for Platform Design (unfactored)

MODE	BRE LOAD CASE (1 or 2)	Length (m)	Width (m)	UDL Pressure (kPa)
Standing	1	3,92	0,9	102
Travelling	1	3,92	0,9	102
Handling	1	3,07	0,9	148
Penetrating	2	4,60	0,9	64
Extracting	2	2,28	0,9	222
Other	NOT USED	N/A	0,9	N/A

MODE	WARNING MESSAGES	ERROR MESSAGES FOR FORCES		
Standing	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Travelling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Handling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Penetrating	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Extracting	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Other	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK

MODE	ERROR MESSAGES FOR FOOT PADS		Notes
Standing	Front Foot Pad Force OK	Rear Foot Pad Force OK	Only for rig operation on level ground with a vertical mast, unless noted below !
Travelling	Front Foot Pad Force OK	Rear Foot Pad Force OK	Only for use where the rig is working on a ground supported platform !
Handling	Front Foot Pad Force OK	Rear Foot Pad Force OK	Foot pad pressures are adjusted to equalise with the track pressures !
Penetrating	Front Foot Pad Force OK	Rear Foot Pad Force OK	Rigs to be operated in accordance with manufacturer's & employer's instructions
Extracting	Front Foot Pad Force OK	Rear Foot Pad Force OK	
Other	Front Foot Pad Force OK	Rear Foot Pad Force OK	

Note: The disclaimer on the first worksheet applies to all tables in this workbook



Schedule of Piling Rig Component Weights, Dimensions, Forces and Pressures

Rig Manufacturer :	Mc Drill Technology	Rig Type :	MDT550 CFA (Art. 81°) stroke 19 m
	Operation mode:	CFA	
Completed by:	22/10/2019	Checked by:	
Item	Mass (kg)	Moment arm (m)	Moment (kNm)
UPPER WORKS	8979	2,25	198,22
LOWER WORKS	42099	-0,49	-203,21
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT	7386	3,02	218,95
COUNTERWEIGHT	0	0,00	0,00
OTHER	0	0,00	0,00
TOTAL	58463	0,37	213,96

Tracks

Track bearing length (m)	4,82		
Track pad width (m)	0,9		
Distance between centrelines of tracks (m)	3,45		

Front Foot Pads

Pad Bearing Area (m ²)	1,19	Actual Dimensions	1.2 x 1.5 m
Pad Maximum Loading (kN)	531,75	Actual Shape	C shaped
Pad Moment Arm (m)	2,02		

Rear Foot Pads

Pad Bearing Area (m ²)	0,00	Actual Dimensions	None
Pad Maximum Loading (kN)	0,00	Actual Shape	None
Pad Moment Arm (m)	0,00		

Forces

Maximum Extraction Force (kN)	400,00		
Maximum Penetration Force (kN)	0,01		
Maximum Auxillary Force (kN)	58,00	Auxillary Force Moment Arm (m)	3,86

Pressure Summary for Platform Design (unfactored)

MODE	BRE LOAD CASE (1 or 2)	Length (m)	Width (m)	UDL Pressure (kPa)
Standing	1	4,29	0,9	86
Travelling	1	4,29	0,9	86
Handling	1	3,48	0,9	111
Penetrating	2	4,80	0,9	58
Extracting	2	2,63	0,9	172
Other	NOT USED	N/A	0,9	N/A

MODE	WARNING MESSAGES	ERROR MESSAGES FOR FORCES		
Standing	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Travelling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Handling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Penetrating	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Extracting	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK
Other	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK

MODE	ERROR MESSAGES FOR FOOT PADS		Notes
Standing	Front Foot Pad Force OK	Rear Foot Pad Force OK	Only for rig operation on level ground with a vertical mast, unless noted below !
Travelling	Front Foot Pad Force OK	Rear Foot Pad Force OK	Only for use where the rig is working on a ground supported platform !
Handling	Front Foot Pad Force OK	Rear Foot Pad Force OK	Foot pad pressures are adjusted to equalise with the track pressures !
Penetrating	Front Foot Pad Force OK	Rear Foot Pad Force OK	Rigs to be operated in accordance with manufacturer's & employer's instructions
Extracting	Front Foot Pad Force OK	Rear Foot Pad Force OK	
Other	Front Foot Pad Force OK	Rear Foot Pad Force OK	

Note: The disclaimer on the first worksheet applies to all tables in this workbook

