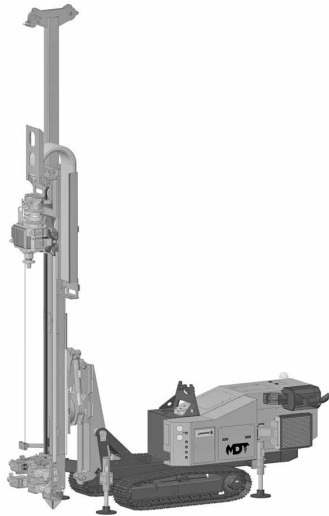


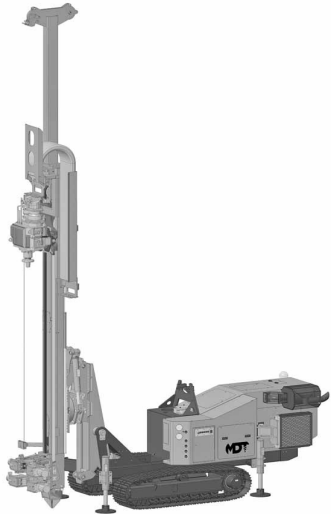
MDT MC80V

GROUND BEARING PRESSURES
MINI RIG DRILLING

Component	Mass (kg)	Distance to CL rotation (M)	Horizontal moment (KNM)	Track Bearing Length (M)	Track pad width (M)	Cross carriage distance between tipping points (M)	Rear foot pad hydraulic pressure (bar)	Rear foot pad cylinder diameter (mm)	Rear foot pad bearing area (M^2)	Rear foot pad dim's (mm)	Rear foot pad cylinder force (kN)	Rear foot pad bearing pressure (KPa)	Transformation from triangular or trapizoidal to an equivalent rectangular pressure distribution under RH. Track maintaining the load centroid		
MDT MC80V				1.84	0.4	1.4	64	100	0.17	2 x Φ330	50	292			
Base Machine	5706	-0.65	-36.4					Relative Angle Upper Body and Tracks (degrees)	Average track bearing pressure (KPa)	Bearing pressure front of R.H. track (KPa)	Bearing pressure rear of R.H. track (KPa)	Bearing pressure front of L.H. track (KPa)	Bearing pressure rear of L.H. track (KPa)	Equivalent Track Bearing	
Mast Assembly	3036	1.93	57.5											L (M)	Q (KPa)
Rear foot pad		1.42													
Rotary Head	892	2.32	20.3												
CFA 500dia. Auger	1000	2.42	23.7												
Track Totals	7710	-0.70	-53												
Pull-Down Force (KN)	60													0	146

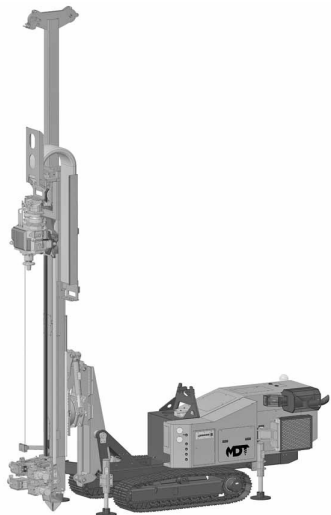
MDT MC80V

GROUND BEARING PRESSURES MINI RIG EXTRACTING

Component	Mass (kg)	Distance to CL rotation (M)	Horizontal moment (KNM)	Crawler bearing length (M)	Crawler pad width (M)	Open track width (M)	Front foot pad hydraulic pressure (bar)	Front foot pad cylinder dia. (mm)	Front foot pad bearing area (M^2)	Mast foot pad dim's (mm)	Front foot pad cylinder force (kN)	Front foot pad bearing pressure (KPa)	Transformation from triangular or trapizoidal to an equivalent rectangular pressure distribution under RH. Track maintaining the load centroid	
MDT MC80V				1.84	0.4	1.4	191	100	0.56	900 x 620	150	268		
Base Machine	5706	-0.65	-36.4				Relative Angle - Upper Body and Tracks (degrees)	Average track bearing pressure (KPa)	Bearing pressure front of R.H. track (KPa)	Bearing pressure rear of R.H. track (KPa)	Bearing pressure front of L.H. track (KPa)	Bearing pressure rear of L.H. track (KPa)	Equivelent Track Bearing	
Mast Assembly	3036	1.93	57.5										L (M)	Q (KPa)
Mast foot pad		1.80												
Rotary Head	892	2.32	20.3											
CFA 500dia. Auger	1000	2.42	23.7											
Track Total	5695	0.75	42											
Extraction Force (KN)	120												0	134

MDT MC80V

GROUND BEARING PRESSURES
RIG STANDING

Component	Mass (kg)	Distance to C.L. of track (M)	Horizontal moment (kNM)	Crawler bearing length (M)	Crawler pad width (M)	Open track width (M)							Transformation from triangular or trapezoidal to an equivalent rectangular pressure distribution under RH. Track maintaining the load centroid		
MDT MC80V				1.84	0.4	1.4									
Base Machine	5706	-0.65	-36.4					Relative Angle - Upper body and Tracks (degrees)	Average bearing pressure (KPa)	Bearing pressure at front of R.H. track (KPa)	Bearing pressure at rear of R.H. track (KPa)	Bearing pressure at front of L.H. track (KPa)	Bearing pressure at rear of L.H. track (KPa)	Equivalent Bearing	
Mast Assembly	3036	1.93	57.5											L (M)	Q (KPa)
Rotary Head	892	2.32	20.3												
CFA 500dia. Auger	1000	2.42	23.7												
Equivalent Totals	10634	0.62	65.139											0	147