

# Bluebook 2025

**The Driller's Choice** 



# INNOVATING LOCALLY, LEADING **GLOBALLY.**

The Mincon Geotechnical **Centre** in Finland develops and manufactures our range of economical and environmentally friendly tools for construction and well drilling.

These class-leading products are designed especially for **complex** ground conditions where hardest rocks, sands, clays, and tills meet.

Every Mincon product we design and manufacture benefits from:

- Over 45 years of experience in manufacturing of rock drilling systems
- On-site experience from all continents
- World-class testing and development partners
- Innovative, state-of-the-art manufacturing technologies

DTH IS THE TOOL FOR DRILLING **IN COMPLEX** GROUND **CONDITIONS** 

# SAFE DTH DRILLING WITH SPIRAL FLUSH

Our patented Spiral Flush product range features drill bits that have a specially designed face, for crosswise flushing.

With this new flushing technology we can now control air flow and prevent over drilling and air escape. Large-diameter DTH drilling can be used in urban areas and harbour construction without disturbing the environment.

In addition to increasing the safety of drilling with this technology, we have also improved the total efficiency of the drilling process by designing the world's most powerful DTH hammers and the most reliable shock absorbers on the market.



DTH hammers are capable of drilling a straight pile in any ground, even into inclined bedrock. Additionally, each pile bottom can be verified.

Pile depths can be over 100 metres, at any angle. Our DTH product range spans sizes from 76 mm to 1 524 mm, ensuring there is a tool for your exact application.

# AIRFLOW CONTROLLED

with SPIRALFLUSH air control

# DTH drilling with Spiral Flush air control

- All cuttings and flushing air are kept inside the casing.
- No over drilling.
- No air escape.

Spiral Flush has been tested and approved for use in areas where conventional DTH drilling is restricted.

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# Conventional DTH drilling without air control

- Pressurised air over-drills material, removing more material than anticipated.
- High-pressure air travels long distances in loose ground or soft clay, causing damages to nearby structures.

Conventional DTH drilling is limited in several city centres, shorelines and other sensitive areas.

# HOW DOES IT WORK?

Spiral Flush has been designed so that the highpressure air is never directed against the ground. Instead, it is directed sideways and upwards, which makes flushing the cuttings both effective and safe. This way the air always stays inside the casing.

The added safety comes with the same speed and efficiency that our customers have come to expect, and along with Mincon's promise of getting you through any rock on Earth.

# AIR CONTROL SAFETY ALSO IN SMALL SCALE

Originally developed for **Nordic well-drilling applications**, our patent-pending Spiral Flush Mini now offers the safety of the regular Spiral Flush on a much smaller scale.

The airflow flushing the face of the pilot is reduced to absolute minimum, which makes drilling small holes much safer in sensitive ground conditions.





Spiral Flush Mini pilot bit

Conventional DTH pilot bit



Since only a small fraction of the pressurised air goes to the face, almost all air is used to flush the casing. This way, the sticky clay cannot easily stick to the inside surface of the casing and thus impede airflow.

Ask your local Mincon representative for more information.

# PILING PROFESSIONAL

Project requirements can vary greatly depending on ground conditions, which means there are many different approaches for using DTH systems. As one of the pioneers of DTH drilling, Mincon has a solution for every situation.

We have a comprehensive range of solutions, and understand that sometimes your unique projects require something different. This is why all Mincon DTH drilling systems can be finetuned based on your specific project requirements.



# COMMON **PILE TYPES**

Used in projects where casings resting of the load together with the reinforced

#### Sacrificed casing piles with rock sockets

This is a modification of end-bearing piles for projects that have tensile loads, as rock sockets have an excellent grip in bedrock.

#### **Retrievable casing piles** with rock sockets

Used in projects where tensile loads need to be considered but load calculations don't take casings into account. In these situations, it is better to lift and reuse the casings.

#### **Drilled friction piles**

When support from bedrock is not necessary or even available, drilled friction piles offer good grip as the wet concrete flows and dries in the small cavities of the soil.

#### **M-Wall piles**

A retaining wall solution, which can do duty as a load-bearing foundation, rather than just a wall that prevents ground masses from collapsing. Can also be made watertight and used with a variety of interlocks.

#### **End-bearing piles**

in bedrock are calculated to take part concrete. This way, the amount of rebar steel can be reduced.









# **OUR PILING** CASING SYSTEMS

Piles are drilled using a DTH hammer and a suitable casing system (also called ring bit systems). When the casing is drilled to the desired depth, the pilot bit is released by turning it slightly backwards (1) and then pulled up (2) and used again in the next pile.

For the best piling performance, use Mincon's powerful DTH hammers and shock absorbers.



The casing shoe and the ring bit are separated. Uses the same double shoulder pilot bit as the large integrated system and the M-Wall systems.

#### Integrated system, small

The casing shoe and the ring bit are connected together at the factory. Uses a single shoulder pilot that is not compatible with the solitary system.

#### Integrated system, large

The casing shoe and the ring bit are connected together at the factory. Uses the same double shoulder pilot as the solitary system and the M-Wall systems.

#### Integrated gen 2 system

Combines single-shoulder integrated and drill through systems into an affordable package. Single-shoulder M-Wall system is also available.

#### Large ID system

The most recommended tool for creating rock sockets. The large inner diameter of the ring bit allows for the maximum size rock bit to be drilled through the ring bit.



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#### Drill through system

The pilot bit can be drilled through the ring bit. This can save time in deep foundations that require rock sockets.

#### **Retrievable system**

The ring bit has been designed to reduce the friction against the soil, allowing an easy retrieval of the casing. This way the ring bit can be reused in the next pile.

#### Drill through retrievable system

Combines the features of DT and retrievable systems for situations where piles with temporary casings and rock sockets are needed.

#### M-Wall solitary system

Used for M-Wall pipe-pile retaining walls. The casing shoe and the ring bit are separated. Uses the same pilot bit as the solitary and large integrated systems.

#### M-Wall integrated system

Used for M-Wall pipe-pile retaining walls. The ring bit is permanently connected to the casing shoe. Uses the same pilot bit as the solitary and large integrated systems.

# **SOLITARY RING BIT** SYSTEM

Solitary ring bit system is designed for drilling end-bearing piles through overburden into bedrock. The system can drill straight and inclined piles through boulders and rock layers and it easily manages situations where the bedrock itself is inclined.

The robust ring bit is not attached to casing shoe, which makes it the most budget-friendly option of the ring bit alternatives.





### MAIN APPLICATIONS

- End-bearing piles including micropiling
- **Pilings** with sacrificed casings, which have no large ID ring bit requirements
- Slope stabilisation
- Pipe walls, king piles, etc.





System is available for all major shank designs. Sizes 114–178 can be ordered with Spiral Flush Mini or conventional flushing. Model 1 casing shoe comes standard. Model 2 can be delivered on special request.

System product code	Casing C	DD inch	Max wall	inch	Ring bit	ID inch	Ring bit	OD inch	Pilot bit ( mm	OD inch	Recommended hammer
S114-8-68	114.3	4.5"	8	0.31"	68	2.68"	125	4.92"	96	3.78"	MP30-DH
S127-10-75	127	5"	10	0.39"	75	2.95"	137	5.39"	105	4.13"	MP30-DH
S140-10-87	139.7	5.5"	10	0.39"	87	3.43"	149	5.87"	119	4.69"	MP4H-MQ
S152-10-96	152.4	6"	10	0.39"	96	3.78"	162	6.38"	130	5.12"	MP4H-MQ
S159-10-103	158.8	6.25"	10	0.39"	103	4.06"	169	6.65"	137	5.39"	MP4H-MQ
S168-12.7-106	168.3	6.63"	12.7	0.5"	106	4.17"	179	7.05"	140	5.51"	MP50-MQ
S178-12.7-116	177.8	7"	12.7	0.5"	116	4.57"	188	7.40"	150	5.91"	MP50-MQ
S194-12.7-125	193.7	7.63"	12.7	0.5"	125	4.92"	205	8.07"	166	6.54"	MP60-MQ
S219-12.7-150	219.1	8.63"	12.7	0.5"	150	5.91"	230	9.06"	191	7.52"	MP70-MC-D160
S244-14.2-170	244.5	9.63"	14.2	0.56"	170	6.69"	257	10.12"	213	8.39"	MP80-MQ
S254-14.2-180	254	10"	14.2	0.56"	180	7.09"	265	10.43"	223	8.78"	MP80-MQ
S273-12.7-192	273	10.75"	12.7	0.5"	192	7.56"	286	11.26"	245	9.65"	MP80-MQ
S301-14.2-220	301.6	11.87"	14.2	0.56"	220	8.66"	312	12.28"	270	10.63"	MP80-MQ
S323-14.2-241	323.9	12.75"	14.2	0.56"	241	9.49"	335	13.19"	291	11.62"	MP100-MC
\$339-14.2-255	339.7	13.37"	14.2	0.56"	255	10.04"	350	13.78"	308	12.13"	MP100-MC
S355-14.2-270	355.6	14"	14.2	0.56"	270	10.63"	367	14.45"	324	12.76"	MP100-MC
S406-16-318	406.4	16"	16	0.63"	318	12.52"	418	16.46"	370	14.57"	MP120-MC
S457-16-369	457.2	18"	16	0.63"	369	14.53"	469	18.46"	420	16.54"	MP120-MC
S508-16-422	508	20"	16	0.63"	422	16.61"	520	20.47"	471	18.54"	MP150-MC
S559-16-470	558.8	22"	16	0.63"	470	18.50"	571	22.48"	521	20.51"	MP150-MC
S610-16-502	609.6	24"	16	0.63"	502	19.76"	622	24.49"	572	22.52"	MP180-MQ
S660-16-545	660.4	26"	16	0.63"	545	21.46"	675	26.57"	615	24.21"	MP180-MQ
S711-16-610	711.2	28"	16	0.63"	610	24.02"	735	28.94"	675	26.76"	MP240-MQ
S762-20-655	762	30"	20	0.79"	655	25.79"	785	30.91"	715	28.15"	MP240-MQ
S813-20-700	812.8	32"	20	0.79"	700	27.56"	830	32.68"	766	30.16"	MP240-MQ
S863-20-750	863.6	34"	20	0.79"	750	29.53"	880	34.65"	815	32.09"	MP240-MQ
S914-20-800	914.4	36"	20	0.79"	800	31.50"	930	36.61"	866	34.21"	MP240-MQ
S1016-20-880	1 016	40"	20	0.79"	880	34.65"	1032	40.63"	966	38.09"	MP340
S1067-20-931	1066.8	42"	20	0.79"	931	36.65"	1086	42.76"	1 014	39.92"	MP340
S1219-22-1080*	1 219.2	48"	22	0.87"	1080	42.52"	1240	48.82"	1 168	45.98"	MP340
S1321-25.4-1150*	1 320.8	52"	25.4	1"	1 150	45.28"	1344	52.91"	1247	49.09"	MP400
S1422-25.4-1250*	1 422.4	56"	25.4	1"	1250	49.21"	1446	56.93"	1348	53.07"	MP400
S1524-25.4-1340*	1524	60"	25.4	1"	1340	52.76"	1548	60.94"	1 462	57.56"	MP400

The solitary double-shoulder pilot is not compatible with the small integrated single-shoulder ring bits.

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# **INTEGRATED RING BIT** SYSTEM, **SMALL**

Integrated ring bit systems, divided into small and large designs, are designed for drilling end-bearing piles through overburden into bedrock. The system can drill straight and inclined piles through boulders and rock layers and it easily manages situations where the bedrock itself is inclined.

The robust ring bit is integrated into casing shoe, which makes it safe to drill in loose ground and over water.

The system is compatible with most external threaded casing joint couplers.





# MAIN APPLICATIONS

- End-bearing piles including micropiling
- **Pilings with** sacrificed casings, which have no large ID ring bit requirements
- Slope stabilization
- Pipe walls, king piles





### = Welding spot

System is available for all major shank designs. Sizes 114-178 can be ordered with Spiral Flush Mini or conventional flushing.

System product code	Casing O	D inch	Max wall	inch	Ring bit I	D inch	Ring bit ( mm	DD inch	Pilot bit (	DD inch	Recommended hammer
1114-10-76	114.3	4.5"	10	0.39"	76	2.99"	130	5.12"	89	3.50"	MP30-DH
HDI114-10-76	114.3	4.5"	10	0.39"	76	2.99"	138	5.43"	89	3.50"	MP30-DH
1127-10-87	127	5"	10	0.39"	87	3.43"	145	5.71"	105	4.13"	MP30-DH
1140-10-100	139.7	5.5"	10	0.39"	102	4.02"	160	6.30"	116	4.57"	MP4H-MQ
HDI140-10-100	139.7	5.5"	10	0.39"	102	4.02"	168	6.61"	116	4.57"	MP4H-MQ
1152-10-112	152.4	6"	10	0.39"	112	4.41"	172	6.77"	130	5.12"	MP4H-MQ
1159-10-118	158.8	6.25"	10	0.39"	118	4.65"	181	7.13"	137	5.39"	MP4H-MQ
1168-12.7-125	168.3	6.63"	12.7	0.5"	125	4.92"	189	7.44"	140	5.51"	MP50-MQ
HDI168-12.7-125	168.3	6.63"	12.7	0.5"	125	4.92"	196	7.72"	140	5.51"	MP50-MQ
1178-12.7-135	177.8	7"	12.7	0.5"	135	5.31"	199	7.83"	151	5.94"	MP50-MQ
1194-12.7-147	193.7	7.63"	12.7	0.5"	147	5.79"	221	8.70"	166	6.54"	MP60-MQ
1219-12.7-171	219.1	8.63"	12.7	0.5"	171	6.73"	243	9.57"	188	7.40"	MP70-MC-D160
HDI219-12.7-171	219.1	8.63"	12.7	0.5"	171	6.73"	252	9.92"	188	7.40"	MP70-MC-D160
1244-12.7-190	244.5	9.63"	12.7	0.5"	190	7.48"	269	10.59"	216	8.50"	MP80-MQ
1254-14.2-197	254	10"	14.2	0.56"	197	7.76"	279	10.98"	223	8.78"	MP80-MQ
1273-12.7-220	273	10.74"	12.7	0.5"	220	8.66"	300	11.81"	244	9.61"	MP80-MQ
HDI273-12.7-220	273	10.74"	12.7	0.5"	220	8.66"	310	12.20"	244	9.61"	MP80-MQ

The single-shoulder pilot is not compatible with the solitary double-shoulder ring bits.

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### **INTEGRATED SYSTEM, SMALL** 114–273 mm

# INTEGRATED RING BIT SYSTEM, LARGE

Integrated ring bit systems, divided into small and large designs, are designed for drilling end-bearing piles through overburden into bedrock. The system can drill straight and inclined piles through boulders and rock layers and it easily manages situations where the bedrock itself is inclined.

The robust ring bit is integrated into casing shoe, which makes it safe to drill in loose ground and over water. The large size allows for doubleshoulder design.

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# MAIN APPLICATIONS

- End-bearing piles
- Pilings with sacrificed casings, which have no large ID ring bit requirements
- Pipe walls, king piles





### = Welding spot

System is available for all major shank designs.

System is available	System is available for all major shark designs. SPIRALELUSH®										
System product code	Casing O	D inch	Max wall	inch	Ring bit I	D inch	Ring bit ( mm	OD inch	Pilot bit ( mm	OD inch	Recommended hammer
1323-14.2-240	323.9	12.75"	14.2	0.56"	240	9.45"	335	13.19"	291	11.46"	MP100-MC
1339-14.2-255	339.7	13.37"	14.2	0.56"	255	10.04"	350	13.78"	308	12.13"	MP100-MC
1355-14.2-270	355.6	14"	14.2	0.56"	270	10.63"	367	14.45"	324	12.76"	MP100-MC
1406-16-318	406.4	16"	16	0.63"	318	12.52"	418	16.46"	370	14.57"	MP120-MC
1457-16-369	457.2	18"	16	0.63"	369	14.53"	469	18.46"	420	16.54"	MP120-MC
1508-16-422	508	20"	16	0.63"	422	16.61"	520	20.47"	471	18.54"	MP150-MC
1559-16-470	558.8	22"	16	0.63"	470	18.50"	571	22.48"	521	20.51"	MP150-MC
1610-16-502	609.6	24"	16	0.63"	502	19.76"	622	24.49"	572	22.52"	MP180-MQ
1660-16-545	660.4	26"	16	0.63"	545	21.46"	675	26.57"	615	24.21"	MP180-MQ
1711-16-610	711.2	28"	16	0.63"	610	24.02"	735	28.94"	675	26.57"	MP240-MQ
1762-20-655	762	30"	20	0.79"	655	25.79"	785	30.91"	715	28.15"	MP240-MQ
1813-20-700	812.8	32"	20	0.79"	700	27.56"	830	32.68"	766	30.16"	MP240-MQ
1863-20-750	863.6	34"	20	0.79"	750	29.53"	880	34.65"	815	32.09"	MP240-MQ
1914-20-800	914.4	36"	20	0.79"	800	31.5"	930	36.61"	866	34.09"	MP240-MQ
11016-20-880*	1 016	40"	20	0.79"	880	34.65"	1 032	40.63"	966	38.03"	MP340
11067-20-930*	1066.8	42"	20	0.79"	930	36.61"	1086	42.76"	1 014	39.92"	MP340
11219-22-1080*	1 219.2	48"	22	0.87"	1080	42.52"	1240	48.82"	1 168	45.98"	MP340
11321-25.4-1150*	1 320.8	52"	25.4	1"	1 150	45.28"	1344	52.91"	1247	49.09"	MP400
11422-25.4-1250*	1 422.4	56"	25.4	1"	1250	49.21"	1446	56.93"	1348	53.07"	MP400
11524-25.4-1340*	1524	60"	25.4	יין	1340	52.76"	1548	60.94"	1 462	57.56"	MP400
*Large-diameter syste	ms can be en	gineered bas	sed on the sp	ecific custor	ner requirem	nents.					

\*Large-diameter systems can be engineered based on the specific customer req

# **INTEGRATED SYSTEM, LARGE** 323–1 524 mm

The pilot is compatible with the solitary and M-Wall systems

# **INTEGRATED GEN 2 RING BIT** SYSTEM

Integrated gen 2 ring bit system is

designed for drilling end-bearing piles through overburden into bedrock. The system can drill straight and inclined piles through boulders and rock layers and it easily manages situations where the bedrock itself is inclined.

The robust ring bit is integrated into casing shoe, which makes it safe to drill in loose ground and over water.

The system is compatible with the most common external threaded casing joint couplers.



MAIN APPLICATIONS

• End-bearing piles

piling

Piling with

including micro-

sacrificed casings,

which have no large ID ring bit

requirements

Shallow M-Walls





# **STANDARD** CASING SYSTEM Easy locking with singleshoulder design Compatible with The ring bit set is compatible with external casing joint Integrated gen 2 and Drill through couplers pilot bits

= Welding spot

System is available for all major DTH shanks, and in smaller sizes with top hammer threads.

Sizes 114–178 can be	ordered w	vith Spira	l Flush Mi	ni or conv	/entional	flushing.					SPIRALFLUSH
System product code	Casing O	D inch	Max wall	inch	Ring bit I	D inch	Ring bit ( mm	OD inch	Pilot bit ( mm	OD inch	Recommended hammer
1114-10-80-GEN2	114.3	4.5"	10	0.39"	80	2.99"	130	5.12"	92	3.50"	MP30-DH
1127-10-87-GEN2	127	5"	10	0.39"	87	3.43"	145	5.71"	105	4.13"	MP30-DH
1140-10-100-GEN2	139.7	5.5"	10	0.39"	102	3.94"	160	6.30"	114	4.49"	MP4H-MQ
1152-10-112-GEN2	152.4	6"	10	0.39"	112	4.41"	172	6.77"	126	4.96"	MP4H-MQ
1159-10-118-GEN2	158.8	6.25"	10	0.39"	118	4.65"	179	7.05"	133	5.24"	MP4H-MQ
1168-12.7-127-GEN2	168.3	6.63"	12.7	0.5"	127	4.92"	189	7.44"	140	5.51"	MP50-MQ
1178-12.7-135-GEN2	177.8	7"	12.7	0.5"	135	5.31"	199	7.83"	150	5.91"	MP50-MQ
1194-12.7-147-GEN2	193.7	7.63"	12.7	0.5"	147	5.79"	221	8.00"	163	6.42"	MP60-MQ
1219-12.7-171-GEN2	219.1	8.63"	12.7	0.5"	171	6.73"	243	9.57"	188	7.40"	MP70-MC-D160
XLI219-12.7-171-GEN2	219.1	8.63"	12.7	0.5"	171	6.73"	273	10.75"	188	7.40"	MP70-MC-D160
1244-12.7-194-GEN2	244.5	9.63"	12.7	0.5"	194	7.64"	269	10.59"	214	8.43"	MP80-MQ
1254-12.7-204-GEN2	254	10"	12.7	0.5"	204	8.03"	279	10.98"	224	9.61"	MP80-MQ
1273-12.7-222-GEN2	273	10.74"	12.7	0.5"	222	8.74"	299	11.77"	243	9.57"	MP80-MQ
XLI273-12.7-222-GEN2	273	10.74"	12.7	0.5"	222	8.74"	327	12.87"	243	9.57"	MP80-MQ
1301-12.7-250-GEN2	301.6	11.87"	12.7	0.5"	250	9.84"	330	12.99"	272	10.71"	MP80-MQ
1323-12.7-272-GEN2	323.9	12.74"	12.7	0.5"	272	10.71"	352	13.86"	294	11.57"	MP100-MC
XLI323-12.7-272-GEN2	323.9	12.74"	12.7	0.5"	272	10.71"	378	14.88"	294	11.57"	MP100-MC
1339-14.2-286-GEN2	339.7	13.37"	14.2	0.56"	286	11.26"	368	14.49"	308	12.13"	MP100-MC
1355-14.2-300-GEN2	355.6	14"	14.2	0.56"	300	11.81"	384	15.12"	324	12.76"	MP100-MC
1406-16-346-GEN2	406.4	16"	16	0.63"	346	13.62"	443	17.44"	370	14.57"	MP120-MC
XLI406-16-346-GEN2	406.4	16"	16	0.63"	346	13.62"	460	18.11"	370	14.57"	MP120-MC
1457-16-393-GEN2	457.2	18"	16	0.63"	393	15.47"	489	19.25"	420	16.54"	MP120-MC
I508-16-442-GEN2	508	20"	16	0.63"	442	17.40"	542	21.34"	471	18.54"	MP150-MC
XLI508-16-442-GEN2	508	20"	16	0.63"	442	17.40"	562	22.13"	471	18.54"	MP150-MC

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### **INTEGRATED GEN 2 SYSTEM** 114–508 mm

**M-WALL** CASING SYSTEM

drills room for the

male connector



Casing shoe and ring bit are integrated

# **LARGE ID RING BIT SYSTEM**

Large ID ring bit system is used with sacrificed casings when there is a requirement to continue the hole after the casing is set. Large ID system is thus ideally suited to energy and water well drilling applications, where the drilling is continued through the ring bit with a separate small size rock bit.

In piling, large ID system also allows maximum size rock sockets to be drilled through the ring bit, using large diameter rock bits.

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MAIN APPLICATIONS

sacrificed casings

and rock sockets

Piling with

Energy/water

Surface casings

wells

(sealing, dewatering)



# Mincon



maximum space to drill through

System is available for all major shank designs. Sizes 114-178 can be ordered with Spiral Flush Mini or conventional flushing.

Sizes 114–178 can	be ordere	a with Sp	irai Fiush i	Mini or co	nvention	ai fiusning	].				SPIRALFLUS
System product code	Casing C	D inch	Max wall	inch	Ring bit mm	ID inch	Ring bit ( mm	OD inch	Pilot bit ( mm	OD inch	Recommended hammer
1114-5.5-91	114.3	4.5"	5.5	0.22"	91	3.58"	133	5.24"	101.5	4.00"	MP30-DH
1127-5.5-103	127	5"	5.5	0.22"	103	4.06"	147	5.79"	114	4.49"	MP30-DH
1140-5.5-116	139.7	5.5"	5.5	0.22"	116	4.56"	160	6.30"	127.5	5.02"	MP4H-MQ
HDI140-5.5-116*	139.7	5.5"	5.5	0.22"	116	4.56"	168	6.61"	127.5	5.02"	MP4H-MQ
HCI140-5.5-116**	139.7	5.5"	5.5	0.22"	116	4.56"	166	6.54"	127.5	5.02"	MP4H-MQ
1152-6-128	152.4	6"	6	0.24"	128	5.040"	174	6.85"	139	5.47"	MP4H-MQ
1159-6-134	158.8	6.25"	6	0.24"	134	5.28"	179	7.05"	145	5.71"	MP4H-MQ
1168-6-142	168.3	6.63"	6	0.24"	142	5.59"	189	7.44"	154	6.06"	MP50-MQ
HDI168-6-142*	168.3	6.63"	6	0.24"	142	5.59"	196	7.72"	154	6.06"	MP50-MQ
HCI168-7-142**	168.3	6.63"	7	0.28"	142	5.59"	194	7.64"	152	5.98"	MP50-MQ
1178-7-153	177.8	7"	7	0.28"	153	6.02"	204	8.03"	162	6.38"	MP50-MQ
1194-6-166	193.7	7.63"	6	0.24"	166	6.54"	220	8.66"	179	7.05"	MP60-MQ
1219-6.5-190	219.1	8.63"	6.5	0.26"	190	7.48"	245	9.65"	204	8.03"	MP70-MC-D160
1244-8-212	244.5	9.63"	8	0.31"	212	8.35"	270	10.63"	225	8.86"	MP80-MQ
1254-8-222	254	10"	8	0.31"	222	8.74"	280	11.02"	235	9.25"	MP80-MQ
1273-8-242	273	10.75"	8	0.31"	242	9.53"	299	11.77"	254	10"	MP80-MQ
1301-10-260	301.6	11.87"	10	0.39"	260	10.24"	327	12.87"	279	10.98"	MP80-MQ
1323-10-280	323.9	12.75"	10	0.39"	280	11.02"	350	13.78"	298	11.73"	MP100-MC
1339-10-295	339.7	13.37"	10	0.39"	295	11.61"	366	14.41"	316	12.44"	MP100-MC
1355-10-311	355.6	14"	10	0.39"	311	12.24"	383	15.08"	332	13.07"	MP100-MC
1406-10-365	406.4	16"	10	0.39"	365	14.37"	436	17.17"	382	15.04"	MP120-MC
1457-10-405	457.2	18"	10	0.39"	405	15.94"	487	19.17"	432	17.01"	MP120-MC
1508-12.7-450	508	20"	12.7	0.5"	450	17.72"	538	21.18"	478	18.82"	MP150-MC
1559-12.7-500	558.8	22"	12.7	0.5"	500	19.69"	589	23.19"	528	20.79"	MP150-MC
1610-12.7-555	609.6	24"	12.7	0.5"	555	21.85"	644	25.35"	580	22.83"	MP180-MQ
1660-12.7-600***	660.4	26"	12.7	0.5"	600	23.62"	690	27.17"	629	24.76"	MP180-MQ
1711-12.7-641***	711.2	28"	12.7	0.5"	641	25.24"	741	29.17"	679	26.73"	MP240-MQ
1762-12.7-690***	762	30"	12.7	0.5"	690	27.1"	794	31.26"	729	28.70"	MP240-MQ
1813-12.7-735***	812.8	32"	12.7	0.5"	735	28.94"	845	33.27"	780	30.71"	MP240-MQ

\*Heavy duty systems for deep casing drilling. Special design with large ID. \*\*Hardcore design for extremely deep casing drilling. Requires special HC pilot bit.
\*\*Mid-diameter systems can be engineered based on the specific customer requirements (660–813 mm). Larger-diameter systems can be engineered based on the specific customer requirements.

# LARGE ID SYSTEM 114–813 mm

# **DRILL THROUGH RING BIT SYSTEM**

#### Drill through ring bit system

combines a conventional rock bit into a casing advance system. As the name suggests, it allows drilling through the ring bit without changing tools.

In projects where rock sockets are needed and the foundations are deep, DT system can save time by going through overburden and drilling the rock socket into bedrock using the same pilot bit.



MAIN APPLICATIONS

Anchoring

applications

• End-bearing

piles with rock sockets in deep

foundations







#### = Welding spot

System is available for all major shank designs. Sizes 114-178 can be ordered with Spiral Flush Mini or conventional flushing.

System product code	Casing ( mm	OD inch	Max wal	l inch	Ring bit	ID inch	Ring bit	OD inch	Pilot bit	OD inch	Recommended hammer
DTI114-10-92-80	114.3	4.5"	10	0.39"	80	2.99"	130	5.12"	92	3.50"	MP30-DH
DTI127-10-105-87	127	5"	10	0.39"	87	3.43"	145	5.71"	105	4.13"	MP30-DH
DTI140-10-114-100	139.7	5.5"	10	0.39"	102	3.94"	160	6.30"	114	4.49"	MP4H-MQ
DTI152-10-126-112	152.4	6"	10	0.39"	112	4.41"	172	6.77"	126	4.96"	MP4H-MQ
DT1159-10-133-118	158.8	6.25"	10	0.39"	118	4.65"	179	7.05"	133	5.24"	MP4H-MQ
DTI168-12.7-140-127	168.3	6.63"	12.7	0.5"	127	4.92"	189	7.44"	140	5.51"	MP50-MQ
DT1178-12.7-150-135	177.8	7"	12.7	0.5"	135	5.31"	199	7.83"	150	5.91"	MP50-MQ
DT1194-12.7-163-147	193.7	7.63"	12.7	0.5"	147	5.79"	221	8.70"	163	6.42"	MP60-MQ
DTI219-12.7-188-171	219.1	8.63"	12.7	0.5"	171	6.73"	243	9.57"	188	7.40"	MP70-MC-D160
DTI244-12.7-214-194	244.5	9.63"	12.7	0.5"	194	7.64"	269	10.59"	214	8.43"	MP80-MQ
DTI254-12.7-224-204	254	10"	12.7	0.5"	204	8.03"	279	10.98"	224	9.61"	MP80-MQ
DTI273-12.7-243-222	273	10.74"	12.7	0.5"	222	8.74"	299	11.77"	243	9.57"	MP80-MQ
DTI301-12.7-272-250	301.6	11.87"	12.7	0.5"	250	9.84"	330	12.99"	272	10.71"	MP80-MQ
DTI323-12.7-294-272	323.9	12.74"	12.7	0.5"	272	10.71"	352	13.86"	294	11.57"	MP100-MC
DTI339-14.2-308-286	339.7	13.37"	14.2	0.56"	286	11.26"	368	14.49"	308	12.13"	MP100-MC
DTI355-14.2-324-300	355.6	14"	14.2	0.56"	300	11.81"	384	15.12"	324	12.76"	MP100-MC
DTI406-16-370-346	406.4	16"	16	0.63"	346	13.62"	443	17.44"	370	14.57"	MP120-MC
DTI457-16-420-393	457.2	18"	16	0.63"	393	15.47"	489	19.25"	420	16.54"	MP120-MC
DTI508-16-463-442	508	20"	16	0.63"	442	17.40"	542	21.34"	463	18.23"	MP150-MC
DTI559-16-521-490	558.8	22"	16	0.63"	490	19.29"	593	23.35"	521	20.51"	MP150-MC
DTI610-16-564-540	609.6	24"	16	0.63"	540	21.26"	644	25.35"	564	22.20"	MP180-MQ
DTI660-20-605-580	660.4	26"	20	0.79"	580	22.83"	700	27.56"	605	23.82"	MP180-MQ
DTI711-20-656-625	711.2	28"	20	0.79"	625	24.61"	753	29.65"	656	25.83"	MP240-MQ
DTI762-20-707-672	762	30"	20	0.79"	672	26.46"	804	31.65"	707	27.83"	MP240-MQ
DTI813-20-758-720	812.8	32"	20	0.79"	720	28.35"	855	33.66"	758	29.84"	MP240-MQ
DTI863-20-808-770	863.6	34"	20	0.79"	770	30.32"	905	35.63"	808	31.81"	MP240-MQ
DTI914-20-859-818	914.4	36"	20	0.79"	818	32.20"	958	37.72"	859	33.82"	MP240-MQ
DTI1016-20-960-916*	1 016	40"	20	0.79"	916	36.06"	1 060	41.73"	960	37.80"	MP340
DTI1067-20-1010-952*	1066.8	42"	20	0.79"	952	37.48"	1 112	43.78"	1 010	39.76"	MP340
DTI1219-22-1161-1101*	1 219.2	48"	22	0.87"	1 101	43.35"	1268	49.92"	1 161	45.71"	MP340
DTI1321-25-1260-1205*	1 320.8	52"	25	1"	1 205	47.44"	1 378	54.25"	1260	49.61"	MP400
DTI1422-25-1360-1305*	1 422.4	56"	25	1"	1 305	51.38"	1 478	58.19"	1 360	53.54"	MP400
DTI1524-25-1466-1405*	1524	60"	25	۳٢	1 405	55.31"	1578	62.13"	1466	57.72"	MP400

The drill through system can also be delivered with a non-DT pilot.

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### **DRILL THROUGH SYSTEM** 114–1 524 mm



Easy locking with single shoulder design

> Locking allows drilling through the ring bit with the pilot bit

#### SPIRALFLUSH®

# RETRIEVABLE **RING BIT SYSTEM**



#### Retrievable ring bit system can

be used several times. This is made possible by the features on the ring bit that have been designed to reduce the friction against the soil, allowing an easy retrieval of the casing.

Also, the large inner diameter of the ring bit makes this system ideal for drilling rock sockets through the ring bit.





# MAIN APPLICATIONS

- Skin friction piles where casing is fully retrieved
- Anchoring applications
- Pre-drilling/ temporary casing applications
- Energy/water wells where casing is fully removed





System is available for all major shank designs. Sizes 114–178 can be ordered with Spiral Flush Mini or conventional flushing.

System product code	Casing O	D inch	Max wall	inch	Ring bit I	D inch	Ring bit (	DD inch	Pilot bit (	DD inch	Recommended hammer
R114-10-81	114.3	4.5"	10	0.39"	81	3.19"	123	4.84"	92.5	3.64"	MP30-DH
R127-10-95	127	5"	10	0.39"	95	3.74"	135.5	5.33"	105	4.13"	MP30-DH
R140-10-104	139.7	5.5"	10	0.39"	104	4.09"	148	5.83"	118	4.65"	MP4H-MQ
R152-10-116	152.4	6"	10	0.39"	116	4.57"	161	6.34"	129	5.08"	MP4H-MQ
R159-10-122	158.8	6.25"	10	0.39"	122	4.80	168	6.61"	136	5.35"	MP4H-MQ
R168-10-128	168.3	6.63"	10	0.39"	128	5.04"	179	7.05"	146	5.75"	MP50-MQ
R178-10-142	177.8	7"	10	0.39"	142	5.59"	189	7.44"	156	6.14"	MP50-MQ
R194-12.7-154	193.7	7.63"	12.7	0.5"	154	6.06"	204	8.03"	165	6.50"	MP60-MQ
R219-12.7-175	219.1	8.63"	12.7	0.5"	175	6.89"	231	9.09"	191	7.52"	MP70-MC-D160
R244-12.7-200	244.5	9.63"	12.7	0.5"	200	7.87	258	10.16"	216	8.50"	MP80-MQ
R254-12.7-210	254	10"	12.7	0.5"	210	8.27"	268	10.55"	226	8.90"	MP80-MQ
R273-12.7-226	273	10.75"	12.7	0.5"	226	8.90"	286	11.26"	245	9.65"	MP80-MQ
R301-12.7-251	301.6	11.87"	12.7	0.5"	251	9.88"	316	12.44"	273	10.75"	MP80-MQ
R323-12.7-273	323.9	12.75"	12.7	0.5"	273	10.75"	338	13.31"	294	11.57"	MP100-MC
R339-12.7-287	339.7	13.37"	12.7	0.5"	287	11.30"	354	13.94"	311	12.24"	MP100-MC
R355-12.7-305	355.6	14"	12.7	0.5"	305	12.01"	368	14.49"	326	12.83"	MP100-MC
R406-12.7-352	406.4	16"	12.7	0.5"	352	13.86"	430	16.93"	376	14.80"	MP120-MC
R457-12.7-378	457.2	18"	12.7	0.5"	378	14.88"	474	18.66"	427	16.81"	MP120-MC
R508-16-446	508	20"	16	0.63"	446	17.56"	538	21.18"	475	18.70"	MP150-MC
R559-16-504	558.8	22"	16	0.63"	504	19.84"	584	22.99"	522	20.55"	MP150-MC
R610-16-555	609.6	24"	16	0.63"	555	21.85"	638	25.12"	572	22.52"	MP180-MQ
R660-16-580	660.4	26"	16	0.63"	580	22.83"	680	26.77"	622	24.49"	MP180-MQ
R711-16-641	711.2	28"	16	0.63"	641	25.24"	738	29.06"	674	26.54"	MP240-MQ
R762-16-685	762	30"	16	0.63"	685	26.97"	788	31.02"	723	28.82"	MP240-MQ
R813-16-736	812.8	32"	16	0.63"	736	28.98"	837	32.95"	775	30.51"	MP240-MQ
R863-16-775	863.6	34"	16	0.63"	775	30.51"	890	35.04"	823	32.40"	MP240-MQ
R914-16-837	914.4	36"	16	0.63"	837	32.95"	940	37.01"	874	34.41"	MP240-MQ
R1016-16-926*	1 016	40"	16	0.63"	926	36.46"	1042	41.02"	969	38.15"	MP340
R1067-16-970*	1066.8	42"	16	0.63"	970	38.19"	1092	42.99"	1025	40.35"	MP340
R1219-20-1120*	1 219.2	48"	20	0.79"	1 120	44.09"	1247	49.09"	1 163	45.79"	MP340
R1321-22-1210*	1 320.8	52"	22	0.87"	1 210	47.64"	1349	53.11"	1 259	49.57"	MP400
R1524-22-1404*	1524	60"	22	0.87"	1404	55.28"	1552	61.10"	1 460	57.48"	MP400
*Large-diameter system	ns can be eng	gineered bas	ed on the spe	cific custom	ner requirem	ents.					

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### **RETRIEVABLE SYSTEM** 114–1 524 mm

# **DRILL THROUGH** RETRIEVABLE **RING BIT SYSTEM**



#### Drill through retrievable ring bit system

can be used several times. This is made possible by the features on the ring bit that have been designed to reduce the friction against the soil, allowing an easy retrieval of the casing.

The system allows drilling through the ring bit without changing tools. In projects where rock sockets are needed and the foundations are deep, DT retrievable system can save time by going through overburden and drilling the rock socket into bedrock using the same pilot bit.





### MAIN APPLICATIONS

- Anchoring applications
- Blasthole drilling through overburden
- Piling with temporary casings and rock sockets







= Welding spot

System is available for all major shank designs. Sizes 114–178 can be ordered with Spiral Flush Mini or conventional flushing.

System product code	Casing O	D inch	Max wall	inch	Ring bit II
DTR114-10-90-80	114.3	4.5"	10	0.39"	80
DTR127-96.5-86	127	5"	10	0.39"	86
DTR140-10-112-100	139.7	5.5"	10	0.39"	100
DTR152-10-119-106	152.4	6"	10	0.39"	106
DTR159-10-126-112	158.8	6.25"	10	0.39"	112
DTR168-10-136-118	168.3	6.63"	10	0.39"	118
DTR178-10-146-128	177.8	7"	10	0.39"	128
DTR194-12.7-158-143	193.7	7.63"	12.7	0.5"	143
DTR219-12.7-183-168	219.1	8.63"	12.7	0.5"	168
Larger-diameter systems	s can be engi	neered base	d on the spe	cific custom	er requireme



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# **DRILL THROUGH RETRIEVABLE SYSTEM** 114–219 mm

SPIRALFLUSH® **Ring bit OD** Pilot bit OD Recommended inch mm inch mm inch hammer 3.15" 127 5.00" 90 3.54" MP30-DH 3.39" 135.5 5.33" 96.5 3.80" MP30-DH 112 3.94" 156 6,14" 4.41" MP4H-MQ 4.17" 161 6.34" 119 4.69" MP4H-MQ 4.41" MP4H-MQ 168 6.61" 126 4.96" MP50-MQ 4.65" 179 7.05" 136 5.35" 5.04" 189 7.44" 146 5.75" MP50-MQ 5.63" 204 8.03" 158 6.22" MP60-MQ 183 231 MP70-MC-D170 6.61" 9.09" 7.20"

#### nts

# **SOLITARY M-WALL RING BIT SYSTEM**

Solitary M-Wall ring bit system is used to drill straight interlocked casings through boulders and rock layers even into inclined bedrock. M-Wall is a perfect solution to replace sheet piles and slurry walls in rocky ground conditions.

The solitary design means that the casing shoe and the ring bit are separated which, in the hands of an experienced driller, is a very costeffective drilling solution.

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MAIN APPLICATIONS

Interlocked walls

and roofs

Cofferdams

walls

Retaining walls

• Watertight cut off







MODEL 1 CASING SHOE



= Welding spot

System is available for all major shank designs. Model 1 casing shoe comes standard. Model 2 can be delivered on special request.

System	Casing O	D	Max wall	inch	Ring bit I	D inch	Ring bit (	OD inch	Pilot bit (	OD inch	Recommended
XL219-12.7-150	219.1	8.63"	12.7	0.5"	150	5.91"	273	10.75"	191	7.52"	MP70-MC-D160
XL244-14.2-170	244.5	9.63"	14.2	0.56"	170	6.69"	298	11.73"	213	8.39"	MP80-MO
XL254-14.2-178	254	10"	14.2	0.56"	178	7.01"	308	12.13"	223	8.78"	MP80-MO
XL273-12.7-192	273	10.75"	12.7	0.5"	192	7.56"	327	12.87"	245	9.65"	MP80-MQ
XL301-14.2-220	301.6	11.87"	14.2	0.56"	220	8.66"	355	13.98"	270	10.63"	MP80-MO
XL323-14.2-240	323.9	12.75"	14.2	0.56"	240	9.45"	378	14.88"	291	11.62"	MP100-MC
XL339-14.2-255	339.7	13.37"	14.2	0.56"	255	10.04"	393	15.47"	308	12.13"	MP100-MC
XL355-14.2-270	355.6	14"	14.2	0.56"	270	10.63"	409	16.10"	324	12.76"	MP100-MC
XL406-16-318	406.4	16"	16	0.63"	318	12.52"	460	18.11"	370	14.57"	MP120-MC
XL457-16-360	457.2	18"	16	0.63"	369	14.53"	511	20.12"	420	16.54"	MP120-MC
XL508-16-422	508	20"	16	0.63"	422	16.61"	562	22.13"	471	18.54"	MP150-MC
XL559-16-470	558.8	22"	16	0.63"	470	18.50"	613	24.13"	521	20.51"	MP150-MC
XL610-16-502	609.6	24"	16	0.63"	502	19.76"	664	26.14"	572	22.52"	MP180-MO
XL660-16-545	660.4	26"	16	0.63"	545	21.46"	714	28.11"	615	24.21"	MP180-MQ
XL711-16-610	711.2	28"	16	0.63"	610	24.02"	765	30.12"	675	26.76"	MP240-MO
XL762-20-655	762	30"	20	0.79"	655	25.79"	816	32.13"	715	28.15"	MP240-MQ
XL813-20-700	812.8	32"	20	0.79"	700	27.56"	867	34.13"	766	30.16"	MP240-MQ
XL863-20-750	863.6	34"	20	0.79"	750	29.53"	917	36.10"	815	32.09"	MP240-MQ
XL914-20-800	914.4	36"	20	0.79"	800	31.50"	968	38.11"	866	34.09"	MP240-MQ
XL1016-20-880*	1 016	40"	20	0.79"	880	34.65"	1070	42.13"	966	38.09"	MP340
XL1016-20-880*	1066.8	40	20	0.79"	931	36.65"	1 121	44.13"	1 014	39.92"	MP340
XL1067-20-931* XL1219-22-1080*	1 219.2	42	20	0.79		42.52"	1 273	44.13 50.12"	1 168	45.98"	MP340
*Large-diameter syste					1080		12/3	50.IZ	1 108	43.98	IVIP340

\*Large-diameter systems can be engineered based on the specific customer requirements

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# SOLITARY M-WALL RING BIT SYSTEM 219–1 219 mm

MODEL 2

CASING SHOE



# **INTEGRATED M-WALL RING BIT SYSTEM**

Integrated M-Wall ring bit system

is used to drill straight interlocked casings through boulders and rock layers even into inclined bedrock. M-Wall is a perfect solution to replace sheet piles and slurry walls in rocky ground conditions.

The integrated design means that the casing shoe and the ring bit are permanently connected together. This makes drilling over water safe as there is no risk of accidentally dropping the ring bit into water.



MAIN APPLICATIONS

Interlocked walls

and roofs

Cofferdams

walls

Retaining walls

• Watertight cut off









gauge buttons

### = Welding spot

#### System is available for all major shank designs.

System product code	Casing C	D inch	Max wall	inch	Ring bit I	D inch	Ring bit (	OD inch	Pilot bit ( mm	OD inch	Recommended hammer
XLI219-12.7-150	219.1	8.63"	12.7	0.5"	150	5.91"	273	10.75"	191	7.52"	MP70-MC-D160
XLI244-14.2-170	244.5	9.63"	14.2	0.56"	170	6.69"	298	11.73"	213	8.37"	MP80-MQ
XLI254-14.2-178	254	10"	14.2	0.56"	178	7.01"	308	12.13"	223	8.78"	MP80-MQ
XLI273-12.7-192	273	10.75"	12.7	0.5"	192	7.56"	327	12.87"	245	9.65"	MP80-MQ
XLI301-14.2-220	301.6	11.87"	14.2	0.56"	220	8.66"	355	13.98"	270	10.63"	MP80-MQ
XLI323-14.2-240	323.9	12.75"	14.2	0.56"	240	9.45"	378	14.88"	291	11.62"	MP100-MC
XLI339-14.2-255	339.7	13.37"	14.2	0.56"	255	10.04"	393	15.47"	308	12.13"	MP100-MC
XLI355-14.2-270	355.6	14"	14.2	0.56"	270	10.63"	409	16.10"	324	12.76"	MP100-MC
XLI406-16-318	406.4	16"	16	0.63"	318	12.52"	460	18.11"	370	14.57"	MP120-MC
XLI457-16-360	457.2	18"	16	0.63"	369	14.53"	511	20.12"	420	16.54"	MP120-MC
XLI508-16-422	508	20"	16	0.63"	422	16.61"	562	22.13"	471	18.54"	MP150-MC
XLI559-16-470	558.8	22"	16	0.63"	470	18.50"	613	24.13"	521	20.51"	MP150-MC
XLI610-16-502	609.6	24"	16	0.63"	502	19.76"	664	26.14"	572	22.52"	MP180-MQ
XLI660-16-545	660.4	26"	16	0.63"	545	21.46"	714	28.11"	615	24.21"	MP180-MQ
XL1711-16-610	711.2	28"	16	0.63"	610	24.02"	765	30.12"	675	26.76"	MP240-MQ
XLI762-20-655	762	30"	20	0.79"	655	25.79"	816	32.13"	715	28.15"	MP240-MQ
XLI813-20-700	812.8	32"	20	0.79"	700	27.56"	867	34.13"	766	30.16"	MP240-MQ
XLI863-20-750	863.6	34"	20	0.79"	750	29.53"	917	36.10"	815	32.09"	MP240-MQ
XLI914-20-800	914.4	36"	20	0.79"	800	31.50"	968	38.11"	866	34.09"	MP240-MQ
XLI1016-20-880*	1 016	40"	20	0.79"	880	34.65"	1 070	42.13"	966	38.09"	MP340
XLI1067-20-931*	1066.8	42"	20	0.79"	931	36.65"	1 121	44.13"	1 014	39.92"	MP340
XLI1219-22-1080*	1 219.2	48"	22	0.87"	1080	42.52	1273	50.12"	1168	45.98"	MP340
*Large-diameter system	s can be eng	ineered base	ed on the spe	cific custom	er requireme	ents.					

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# **INTEGRATED M-WALL RING BIT SYSTEM** 219–1 219 mm

and large integrated systems

mincon.com

# HORIZONTAL **RING BIT SYSTEM**

Horizontal ring bit system is made for horizontal drilling of utility lines.

High casing friction calls for heavy duty ring bit system and drilling under roads and railways requires advanced air control made possible by Spiral Flush technology. Due to strong design, the ring bit system can be used several times.





#### MAIN APPLICATIONS

- Horizontal drilling of utility lines
- Road and railway underpasses
- Replacing of concrete culverts
- HDD surface casings
- All break through drilling





pilot gauge buttons

#### 🔵 = Welding spot

System is available for all major shank designs.

System product code	Casing O	D inch	Max wall	inch	Ring bit I	ID inch	Ring bit (	OD inch	Pilot bit (	OD inch	Recommended hammer
HZ219-12.7-138	219.1	8.63"	12.7	0.5"	138	5.43"	240	9.45"	191	7.52"	MP60-MQ
HZ273-12.7-170	273	10.75"	12.7	0.5"	170	6.69"	295	11.61"	245	9.65"	MP80-MQ
HZ323-12.7-215	323.9	12.75"	12.7	0.5"	215	8.46"	350	13.78"	294	11.57"	MP100-MC
HZ406-12.7-300	406.4	16"	12.7	0.5"	300	11.81"	440	17.32"	376	14.80"	MP120-MC
HZ457-12.7-351	457.2	18"	12.7	0.5"	351	13.82"	491	19.33"	423	16.65"	MP120-MC
HZ508-12.7-400	508	20"	12.7	0.5"	400	15.75"	540	21.26"	477	18.78"	MP150-MC
HZ610-16-495	609.6	24"	16	0.63"	495	19.49"	640	25.20"	572	22.52"	MP180-MQ
HZ711-16-590	711.2	28"	16	0.63"	590	23.23"	740	29.13"	675	26.57"	MP240-MQ
HZ762-16-630	762	30"	16	0.63"	630	24.80"	792	31.18"	723	28.46"	MP240-MQ
HZ813-16-675	812.8	32"	16	0.63"	675	26.57"	845	33.27"	774	30.47"	MP240-MQ
HZ914-16-775	914.4	36"	16	0.63"	775	30.51"	945	37.20"	874	34.41"	MP240-MQ
HZ1016-16-860	1 016	40"	16	0.63"	860	33.86"	1050	41.34"	974	38.35"	MP340
HZ1067-16-910	1066.8	42"	16	0.63"	910	35.83"	1 100	43.31"	1024	40.31"	MP340
HZ1219-20-1050*	1 219.2	48"	20	0.79"	1 050	41.34"	1250	49.21"	1 176	46.30"	MP340
HZ1321-20-1150*	1320.8	52"	20	0.79"	1 150	45.28"	1 353	53.27"	1273	50.12"	MP400
HZ1422-20-1250*	1 422.4	56"	20	0.79"	1 250	49.21"	1457	57.36"	1366	53.78"	MP400
HZ1524-20-1340*	1524	60"	20	0.79"	1340	52.76"	1560	61.42"	1 466	57.72"	MP400
*Large-diameter system	ns can be eng	gineered bas	ed on the sp	ecific custon	ner requirem	ents.					

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## **HORIZONTAL SYSTEM** 219–1 524 mm

keep drilling direction and integration (sleeve not included)

mincon.com

# FOREPOLING **SYSTEM AKA TUBE UMBRELLA**

#### Forepoling ring bit system and

casing tubes are designed to be drilled with top hammer or DTH in an umbrella shape as secondary support in the tunnel roof. Weak ground and overburden must be strengthened by grouting through the casing and grouting valves into the ground.





#### MAIN APPLICATIONS

- Forepoling or tube umbrella
- Anchoring
- Micro-piling
- PVC drainage
- Fibre glass face stabilisation (GFRP system)
- Ground consolidation in front of TBM (GFRP system)





System is available for all major DTH shanks and top hammer threads. Threaded casings normally come with 1 start, but they are also available with 2-3 start trapezoidal threads and 10 mm entrance.

System product code	Casing OI	) inch	Max wall	inch	Ring bit II	) inch	Ring bit O	D inch	Pilot bit C	D inch	Pilot bit thread
F76-8-40	76.1	3.00"	8	0.31"	40	1.57"	82	3.23"	58	2.28"	R32
F89-8-52	88.9	3.5"	8	0.31"	52	2.05"	94.5	3.72"	70.9	2.79"	T38
F102-8-62	101.6	4.0"	8	0.31"	62	2.44"	106.6	4.20"	83	3.27"	T38
F114-10-70	114.3	4.5"	10	0.39"	70	2.76"	120	4.72"	92	3.62"	T38, T45
F140-10-94	139.7	5.5"	10	0.39"	94	3.70"	148	5.83"	116.7	4.59"	T45
F159-10-116	159	6.26"	10	0.39"	116	4.57"	179	7.05"	133	5.24"	T45, T51
F168-10-127	168.3	6.63"	12.7	0.5"	127	5.00"	189	7.44"	140	5.51"	T45, T51
F219-12.7-171	219.1	8.63"	12.7	0.5"	171	6.73"	243	9.57"	188	7.40"	T45, T51

### **CASING OPTIONS**



All forepoling systems come with starter, extension and end casings. Mincon offers convenient and flexible customization options to suite all project needs. Several casing options, such as steel, fibre glass and PVC drainage casings as well as accessories are available. See a separate forepoling brochure for more information.

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# LARGE DIAMETER **ROCK BITS**





Mincon's rock bits are the trusty work horses of going through rock of any hardness.

In piling, the large diameter rock bits are used to drill rock sockets through large ID or retrievable ring bits. Rock bits can also be designed and manufactured according to specific customer requirements.





### MAIN APPLICATIONS

- Air ventilation for tunnels
- Shafts for utility lines
- Rescue shafts for mining
- Rock sockets



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### LARGE DIAMETER ROCK BIT 300–1 524 mm

Large diameter rock bits are available from 300 to 1 524 mm diameter and for all major shank designs.

Wear pads protect drill bit body

### HOLE OPENER ROCK BIT **DESIGN FEATURES**



Hole opener rock bits are available up to 1 524 mm diameter and for all major shank designs.

# **MINCON DTH** HAMMERS





#### **KEY FEATURES AND** BENEFITS

- Patented features maximise energy output and reduce service requirements.
- Fewer internal components minimize service requirements.
- Valveless, high frequency design ensures smooth operation.
- All critical internal components are heat treated under strict control to maximize tool longevity.



# **3-40" HAMMER SPECIFICATIONS**

For more hammer models and additional information, please visit mincon.com.

Range	Hammer product name	Shank	Footvalve	Hamme mm	r OD inch	Tool len	gth inch	Piston v <sup>kg</sup>	veight Ib	Weight <sup>kg</sup>	lb	Std. Backhead
3"	MP30-DH	DHD3.5	YES	77	3.05"	858	33.78"	4.1	9.0	22.3	49.2	2 3/8" API Reg Pin
4"	MP4H-DH	DHD340	YES	98	3.86"	955	37.61"	7.3	16.1	38.5	84.9	2 3/8" API Reg Pin
	MP4H-TD	TD40	YES	98	3.86"	956	37.64"	7.3	16.1	38.5	84.9	2 3/8" API Reg Pin
	MP4H-MQ	MQ40	-	98	3.86"	1 021	40.20"	7.9	17.5	40.1	88.4	2 3/8" API Reg Pin
5"	MP50-DH	DHD350	YES	115	4.53"	1 014	39.92"	12.6	27.8	56	123.5	3 1/2" API Reg Pin
	MP50-QL	QL50	YES	115	4.53"	994	39.12"	12.5	27.6	55.4	122.1	3 1/2" API Reg Pin
	MP50-MQ	QL50	-	115	4.53"	1057	41.61"	13.7	30.2	59.9	132.1	3 1/2" API Reg Pin
6"	MP6H-DH	DHD360	YES	140	5.51"	1 134	44.65"	20	44.1	95.3	210.1	3 1/2" API Reg Pin
	MP60-QL	QL60	YES	141	5.55"	1002	39.45"	21.6	47.6	83.7	184.6	3 1/2" API Reg Pin
	MP60-MQ	MQ60	-	141	5.55"	1002	39.45"	19.3	42.5	85.0	187.4	3 1/2" API Reg Pin
7"	MP70-MC-D160	MC71	-	160	6.30"	1114	43.86"	30.3	66.8	157	346.1	41/2" API Reg Pin
8"	MP8H-DH	DHD380	YES	182	7.15"	1205	47.44"	39	86.0	176	388.0	41/2" API Reg Pin
	MP80-QL	QL80	YES	182	7.15"	1 186	46.69"	39	86.0	173	381.8	4 1/2" API Reg Pin
	MP80-MQ	QL80	-	182	7.15"	1306	51.42"	46.3	102.1	193	425.5	41/2" API Reg Pin
10"	MP100-SD	SD10	YES	219	8.62"	1360	53.54"	77.8	171.5	295	650.4	6 5/8" API Reg Pin
	MP100-MC	MC100	-	219	8.62"	1380	54.33"	79.3	174.8	309	681.2	6 5/8" API Reg Pin
12"	MP120-N125	N125	YES	273	10.75"	1 451	57.13"	137.4	302.9	455	1003	6 5/8" API Reg Pin
	MP120-QL	QL120	YES	273	10.75"	1454	57.24"	138.5	305.3	457	1008	6 5/8" API Reg Pin
	MP120-MC	MC120	-	273	10.75"	1454	57.24"	151.8	334.7	468	1032	6 5/8" API Reg Pin
15"	MP150-MC	MC150	-	340	13.39"	1662	65.43"	206	454.2	857	1889	8 5/8" API Reg Pin
	MP150-MC-BLANK	MC150	-	340	13.39"	1 591	62.64"	206	454.2	747	1647	INTG1518
18"	MP180-N180	N180	YES	400	15.75"	1695	66.73"	282	621.7	1164	2 566	8 5/8" API Reg Pin
	MP180-QL	QL200	YES	400	15.75"	1659	65.31"	284	626.1	1 177	2 595	8 5/8" API Reg Pin
	MP180-MQ	MQ180	-	400	15.75"	1 781	70.12"	320	705.5	1241	2 736	8 5/8" API Reg Pin
	MP180-MQ-BLANK	MQ180	-	400	15.75"	1 691	66.57"	320	705.5	1142	2 518	INTG1518
24"	MP240-N240	N240	YES	525	20.67"	2 016	79.37"	545	1202	2 536	5 591	HEX275 Pin
	MP240-MQ	MQ240	-	525	20.67"	2 077	81.77"	548	1207	2 630	5 798	HEX275 Pin
	MP240-MQ-BLANK	MQ240	-	525	20.67"	1987	78.23"	548	1207	2 395	5 280	INTG24
34"	MP340	MF34	-	750	29.53"	2 336	91.97"	1 050	2 315	5 807	12 802	HEX370 Pin
40"	MP400	MF34	-	750	29.53"	2 336	91.97"	1500	3 307	6 048	13 334	HEX370 Pin



Our hammers are excellent for all types of drilling applications including

residential geothermal, production

quarry drilling, seismic drilling and

construction drilling.

around proven technology to perform at

Mincon DTH hammers are designed

the top end of the performance scale.

CON

**MP400** 

**MP18** 

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**DTH HAMMERS** 3-40"





# **MP120 SPECIFICATIONS**

Technical specifica	Technical specifications:		MP120-N125			MP120-MC		
Outside diameter		273 mm	10.75"	273 mm	10.75"	273 mm	10.75"	
Length shoulder to	Length shoulder to shoulder		57.13"	1 454 mm	57.24"	1 454 mm	57.24"	
Weight without bit	Weight without bit		1 003 lb	457 kg	1 008 lb	468 kg	1 032 lb	
Piston weight		137.4 kg	302.9 lb	138.5 kg	305.3 lb	151.8 kg	334.7 lb	
Stroke		100 mm	4"	100 mm	4"	100 mm	4"	
Beats per minute	1 286 <sup>1</sup> / <sub>min</sub> @	300 psi						
Connections:								
Backhead		6 ½" API Reg Pin						
Shank		N125		QL120		MC120		
Drill bit diameters:								
Minimum size	Overburden Rock	406 mm 304.8 mm		16" 12"				
Maximum size	Overburden Rock	457 mm 381 mm			18" 15"			

#### Air consumption:



Disclaimer

Air consumption values are based on a combination of simulation data and real-world testing.
 Ail air charts are based on normal temperature and atmospheric pressure: 20°C and 101.325 kPa (68°F and 14.696 psi).
 Air density decreases with altitude, which will increase air consumption. Please consult the Mincon technical implementation team for exact air package requirements that take account for altitude and ground conditions.



### **MP150 SPECIFICATIONS**

Technical specifications:	MP150-MC		мр150-мс-в	LANK			
Outside diameter	340 mm	13.39"	340 mm	13.39"			
Length shoulder to shoulder	1662 mm	65.43"	1 591 mm	62.64"			
Weight without bit	857 kg	1 889 lb	747 kg	1 647 lb			
Piston weight	206 kg	454.2 lb	206 kg	454.2 lb			
Stroke	102 mm	4.02"	102 mm	4.02"			
Beats per minute	1 020 <sup>1</sup> / <sub>min</sub> @ 2	1 020 ¼ <sub>min</sub> @ 250 psi					
Connections:							
Backhead	8 <sup>5</sup> / <sub>8</sub> " API Reg	Pin	INTG1518				
Shank	MC150		MC150				
Drill bit diameters:							
Minimum size Overburden Rock	457 mm 381 mm		18" 15"				
Maximum size Overburden Rock	559 mm 457 mm		22" 18"				

#### Air consumption:



Disclaimer

1.

Air consumption values are based on a combination of simulation data and real-world testing.

All air charts are based on normal temperature and atmospheric pressure: 20°C and 101.325 kPa (68°F and 14.696 psi).
 Air density decreases with altitude, which will increase air consumption. Please consult the Mincon technical implementation team for exact air package requirements that take account for altitude and ground conditions.

# **MP150 HAMMER SPECIFICATIONS**







## **MP180 SPECIFICATIONS**

Technical specifications:	MP180-N1	80	MP180-MC	2	MP180-MC	2-BLANK	
Outside diameter	400 mm	15.75"	400 mm	15.75"	400 mm	15.75"	
Length shoulder to shoulder	1 695 mm	66.73"	1 781 mm	70.12"	1 691 mm	66.57"	
Weight without bit	1164 kg	2 566 lb	1 241 kg	2 736 lb	1142 kg	2 518 lb	
Piston weight	282 kg	621.7 lb	320 kg	705.5 lb	320 kg	705.5 lb	
Stroke	127 mm	5"	108 mm	4.25"	108 mm	4.25"	
Beats per minute	1 025 ¼ <sub>min</sub> @	1 025 ¼ <sub>min</sub> @ 250 psi 945 ¼ <sub>min</sub> @ 250 psi					
Connections:							
Backhead	8 ⅔" API Re	eg Pin / HE	X275 Pin	INTG1518			
Shank	N180		MQ180		MQ180		
Drill bit diameters:							
Minimum size Overburder Rock	559 mm 457 mm		22" 18"				
Maximum size Overburder Rock	711 mm 609.6 mm				28" 24"		

#### Air consumption:



# **MP240 SPECIFICATIONS**

Technical specifications:	MP240-N240		MP240-MQ		MP240-MQ-BLANK			
Outside diameter	525 mm	20.67"	525 mm	20.67"	525 mm	20.67"		
Length shoulder to shoulder	2 016 mm	79.37"	2 077 mm	81.77"	1987 mm	78.23"		
Weight without bit	2 536 kg	5 591 lb	2 630 kg	5 798 lb	2 395 kg	5 280 lb		
Piston weight	545 kg	1 202 lb	548 kg	1 207 lb	548 kg	1 207 lb		
Stroke	140 mm	5.5"	140 mm	5.5"	140 mm	5.5"		
Beats per minute	860 <sup>1</sup> / <sub>min</sub> @ 2	200 psi						
Connections:								
Backhead - Hexagonal (double pin)	HEX275 mm (10.83")			INTG24				
Shank	N240		MQ240		MQ240			
Drill bit diameters:								
Minimum size Overburden Rock	711 mm 609.6 mm			28" 24"				
Maximum size Overburden Rock	914.4 mm 863.6 mm			36" 34"				

#### Air consumption:



Disclaimer Air consumption values are based on a combination of simulation data and real-world testing.

1.

1. Air consumption values are based on a combination of simulation data and real-world testing.

All air charts are based on ormal temperature and atmospheric pressure: 20°C and 101.325 kPa (68°F and 14.696 psi).
 Air density decreases with altitude, which will increase air consumption. Please consult the Mincon technical implementation team for

exact air package requirements that take account for altitude and ground conditions.

All air charts are based on normal temperature and atmospheric pressure: 20°C and 101.325 kPa (68°F and 14.696 psi).
 Air density decreases with altitude, which will increase air consumption. Please consult the Mincon technical implementation team for exact air package requirements that take account for altitude and ground conditions.

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# **MP240 HAMMER SPECIFICATIONS**



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# **MP340 SPECIFICATIONS**

Technical specific	ations:	МР340-МС					
Outside diameter		750 mm	29.53"				
Length shoulder to	shoulder	2 336 mm	91.97"				
Weight without bit	:	5 807 kg	12 802 lb				
Piston weight		1 050 kg	2 315 lb				
Stroke		150 mm	6"				
Beats per minute		580 ¼ <sub>min</sub> @ 150 psi					
Connections:							
Backhead - Hexago	onal (double pin)	HEX370 mm	14.57"				
Shank		MF34					
Drill bit diameters	Drill bit diameters:						
Minimum size	Overburden Rock	1 016 mm 850 mm	40" 33"				
Maximum size	Overburden Rock	1 220 mm 1 000 mm	48" 39"				

#### Air consumption:



Disclaimer

All air charts are based on ormal temperature and atmospheric pressure: 20°C and 101.325 kPa (68°F and 14.696 psi).
 Air density decreases with altitude, which will increase air consumption. Please consult the Mincon technical implementation team for

exact air package requirements that take account for altitude and ground conditions.



### **MP400 SPECIFICATIONS**

Technical specific	ations:	МР400-МС						
Outside diameter		750 mm	29.53"					
Length shoulder to	o shoulder	2 336 mm	91.97"					
Weight without bi	t	6 048 kg	13 334 lb					
Piston weight		1500 kg	3 307 lb					
Stroke		150 mm 6"						
Beats per minute		580 ¼ <sub>min</sub> @ 150 psi						
Connections:								
Backhead - Hexag	onal (double pin)	HEX370 mm	14.57"					
Shank		MF34						
Drill bit diameters	Drill bit diameters:							
Minimum size	Overburden Rock	1220 mm 1000 mm	48" 39"					
Maximum size	Overburden Rock	1 524 mm 1 450 mm	60" 57"					

#### Air consumption:



Disclaimer

- All air charts are based on normal temperature and atmospheric pressure: 20°C and 101.325 kPa (68°F and 14.696 psi).
   Air density decreases with altitude, which will increase air consumption. Please consult the Mincon technical implementation team for exact air package requirements that take account for altitude and ground conditions.



# **MP400 HAMMER SPECIFICATIONS**



ncon MP40 0

<sup>1.</sup> Air consumption values are based on a combination of simulation data and real-world testing.

Air consumption values are based on a combination of simulation data and real-world testing. 1



#### Mincon's heavy duty DTH shock absorbers have been engineered

to protect your drill rig, rotary head, boom joints, and drill string components, with easy maintenance in mind. Place them just behind the DTH hammer for trouble-free worksite operation every day.





#### FEATURES IN LARGE SIZES

- Three-cushion
   construction
- Damping on both directions
- Easy to change drive pins for rotation
- Connections
   according to
   requirements



# SHOCK ABSORBER SPECIFICATIONS

System product code	OD mm	inch	Lengt	h inch	Tool I mm	e <b>ngth</b> inch	Weigl <sup>kg</sup>	nt Ib	Connections*	top	Drive pins	Dampers both directions
MSA40	95	3.76"	556	22.28"	488	19.21"	22	47.8	2 3/8" API Reg	2 3/8" API Reg	-	-
MSA50	114	4.49"	626	24.65"	528	20.79"	34	75.0	3 1/2" API Reg	3 1/2" API Reg	-	-
MSA60	140	5.50"	680	26.77"	583	22.95"	55	120.8	3 1/2" API Reg	3 1/2" API Reg	-	-
SA07-API412box-API412pin	160	6.30"	750	29.53"	642	25.28"	90	198,4	4 1/2" API Reg	41/2" API Reg	-	YES
SA08-API412box-API412pin	182	7.17"	798	31.42"	690	27.17"	102	224.9	4 1/2" API Reg	4 1/2" API Reg	-	YES
SA10-API658box-API658pin	219	8.62"	936	36.85"	809	31.85"	173	381.4	6 5/8" API Reg	6 5/8" API Reg	-	YES
SA12-API658box-API658pin	273	10.75"	1 012	39.84"	885	34.84"	293	645.9	6 5/8" API Reg	6 5/8" API Reg	YES	YES
SA15-API858box-API858pin	340	13.39"	1024	40.31"	888	34.96"	480	1058	8 5/8" API Reg	8 5/8" API Reg	YES	YES
SA15-INTC1518pin-API858	340	13.39"	1054	41.50"	723	28.46"	487	1074	INTG1518	8 5/8" API Reg	YES	YES
SA15-INTC1518pin-HEX200pin	340	13.39"	1127	44.37"	723	28.46"	488	1076	INTG1518	HEX200	YES	YES
SA15-INTG1518pin-HEX200Lpin	340	13.39"	1 182	46.54"	733	28.86"	504	1 111	INTG1518	HEX200L	YES	YES
SA18-API858box-API858pin	400	15.75"	1048	41.26"	911	35.87"	611	1347	8 5/8" API Reg	8 5/8" API Reg	YES	YES
SA18-API858box-HEX200pin	400	15.75"	1 121	44.13"	911	35.87"	654	1442	8 5/8" API Reg	HEX200	YES	YES
SA18-API858box-HEX200Lpin	400	15.75"	1 166	45.91"	911	35.87"	665	1466	8 5/8" API Reg	HEX200L	YES	YES
SA18-HEX240Hbox-HEX240Hpin	400	15.75"	1572	61.89"	1 173	46.18"	843	1859	HEX240H	HEX240H	YES	YES
SA18-INTG1518PIN-HEX200pin	400	15.75"	1209	47.60"	805	31.69"	709	1563	INTG1518	HEX200	YES	YES
SA18-INTG1518PIN-HEX200Lpin	400	15.75"	1254	49.37"	805	31.69"	722	1 592	INTG1518	HEX200L	YES	YES
SA24-HEX275box-HEX200pin	507	19.96"	1 211	47.68"	1 001	39.41"	1079	2 379	HEX275	HEX200	YES	YES
SA24-HEX275box-HEX200Lpin	507	19.96"	1256	49.45"	1 001	39.41"	1 092	2 407	HEX275	HEX200L	YES	YES
SA24-INTG24pin-HEX200pin	507	19.96"	1 293	50.91"	843	33.19"	1 190	2 624	INTG24	HEX200	YES	YES
SA24-INTG24pin-HEX200Lpin	507	19.96"	1338	52.68"	843	33.19"	1 108	2 443	INTG24	HEX200L	YES	YES
SA24-INTG24pin-API858pin	507	19.96"	1366	53.78"	843	33.19"	1 095	2 414	INTG24	8 5/8" API Reg	YES	YES
SA24-HEX240Hbox-HEX240Hpin	507	19.96"	1558	61.34"	1 159	45.63"	1345	2 965	HEX240H	HEX240H	YES	YES
SA34-HEX370box-HEX275pin	607	23.90"	1 398	55.04"	1 118	44.02"	1836	4048	HEX370	HEX275	YES	YES

\*Connections according to the requirements.



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SHOCK ABSORBERS 4–34"



Mincon drill pipes are manufactured in our own factories, ensuring high quality, flexibility and sustainability. We work together with leading material manufacturers and suppliers in Sweden and Germany.

By using our high quality drill pipes our customers will enjoy trouble-free drilling and lower cost per metre average. This is made possible by higher-strength steel that allows for thinner wall thickness and less weight.

Mincon drill pipes have been know for decades as Driconeq drill pipes. For more information please visit





MAIN FEATURES

76–140 mm

76–140 mm • High-strength,

Cold-drawn

no scale

API certified

testing after

• eX-Flow<sup>®</sup> pipes reduce noise and fuel consumption

production

• Friction welding

seamless pipes

straight pipes with



# Mincon



For more drill pipes and additional information, please visit www.driconeq.com.

Size & connections	OD mm	WT mm	Connections bottom and top	Example v 1 m	veights (kg) 3 m	6 m	12 m		
76x8.8 2 3/8" REG	76	8.8	2 3/8"API REG	17.1	46.3	92.0	-		
89x8.8 2 3/8" REG	89	8.8	2 3/8"API REG	19.8	51.7	99.6	-		
102x6.3 2 7/8" REG	102	6.3	2 7/8"API REG	23.6	53.2	97.6	-		
114x8.8 3 1/2" REG	114	8.8	3 1/2"API REG	30.8	76.6	145	-		
127x8.8 3 1/2" REG	127	8.8	3 1/2"API REG	41.1	92.5	170	-		
140x8.8 4 1/2" REG	140	8.8	41/2"API REG	46.5	103	189	-		
159x12 4 1/2"REG	159	12	41/2"API REG	86	176	312	-		
168x12 4 1/2"REG	168	12	41/2"API REG	90	186	330	-		
178x12 4 1/2"REG	178	12	41/2"API REG	104	206	359	-		
194x12.5 6 5/8"REG	194	12.5	6 5/8"API REG	120	236	396	731		
219x12.5 6 5/8"REG	219	12.5	6 5/8"API REG	159	287	479	861		
244x12.5 6 5/8"REG	244	12.5	6 5/8"API REG	174	317	532	960		
254x12.5 8 5/8"REG	254	12.5	6 5/8"API REG	180	329	553	1 000		
273x16 HEX200L	273	16	HEX 200L*	272	475	779	1387		
305x16 HEX200L	305	16	HEX 200L*	322	550	892	1576		
324x16 HEX200L	324	16	HEX 200L*	382	635	990	1720		
355x16 HEX200L	355	16	HEX 200L*	431	699	1 100	1905		
*Threads available on request.	*Threads available on request								

Threads are the preferred connection type for backlash-free operation. However, larger sizes often use HEX connections for easier opening.

**API REG** 

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# **DRILL PIPES** 76–355 mm



# SHROUDED **DRILL PIPES**





For more drill pipes and additional information, please visit www.driconeq.com.

Size & connections	OD outer mm	WT outer	OD inner	WT inner	Connections bottom and top	Example w 1 m	eights (kg) 6 m	12 m
406x12/273x16 HEX200L	406	12	273	16	HEX 200L	403	1 525	2 877
457x12/273x16 HEX200L	457	12	273	16	HEX 200L	445	1 650	3 106
508x12/273x16 HEX200L	508	12	273	16	HEX 200L	464	1755	3 280
559x12/273x16 HEX200L	559	12	273	16	HEX 200L	531	1905	3 573
610x12/273x16 HEX200L	610	12	273	16	HEX 200L	582	2 041	3 818
660x12/273x16 HEX200L	660	12	273	16	HEX 200L	639	2 183	4 068
711x12/273x16 HEX200L	711	12	273	16	HEX 200L	695	2 328	4 326
762x12/273x16 HEX200L	762	12	273	16	HEX 200L	762	2 480	4 584
813x12/273x16 HEX200L	813	12	273	16	HEX 200L	831	2 635	4 853
863x12/324x16 HEX275	863	12	324	16	HEX 275	1 061	3 135	5 472
914x12/324x16 HEX275	914	12	324	16	HEX 275	1 132	3 312	5 755
1016x12/324x16 HEX275	1 016	12	324	16	HEX 275	1248	3 685	6 423
1066x12/324x16 HEX275	1066	12	324	16	HEX 275	1366	3 879	6 646
1219x12/324x16 HEX275	1 219	12	324	16	HEX 275	1 633	4 495	7 594
1321x12/324x16 HEX275	1 321	12	324	16	HEX 275	1834	4 940	8 266
1372x12/324x16 HEX275	1372	12	324	16	HEX 275	1 912	5 063	8 449
1422x12/324x16 HEX275	1 422	12	324	16	HEX 275	1992	5 223	8 705

HEX200 connection is available on request but HEX200L is more recommended for its superior durability. HEX275 is used in the largest drill pipes.



Mincon shrouded drill pipes are used in large-diameter drilling, particularly when there is a requirement to enhance uphole velocity. The combination of correct uphole velocity and our Spiral Flush air control technology ensures safe drilling, even in challenging ground conditions.

Our shrouded drill pipes are manufactured at our own factory in Sweden, guaranteeing the highest quality and a long lifespan.





### MAIN FEATURES

- Submerged arc welded tool joints
- Center tube seamless hot rolled pipe
- High-strength, straight pipes with no scale
- Available with Mincon HEX or customer-specific connection
- Optional joint covers available

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# SHROUDED DRILL PIPES 406–1321 mm





# **JOINT COVERS**

Optional joint covers are installed around drill pipe joints in order to improve the flow of cuttings. Joint covers are selected according to the drill pipe size.

### **CENTRALIZERS**

Centralizers are important components to weld on the outer side of drill pipes to maintain hole straightness. Well centralized and rigid drill string will also spread loads evenly and improve tool-life.

Centralizers' outer diameter should be chosen according to the casing size, wall thickness and tolerance as well as customer preference.

System product code	Thickness mm	Length Ll	Length L2 mm
C40-240-300-H50	40	240	300
C40-240-400-H100	40	240	400

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Welded

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These shrouds are welded securely to the first drill pipe, which can be done already in the factory. They slide over the hammer-

shock-absorber-assembly creating a robust package. It is easy to remove the assembly

from the shroud if necessary.

**DRILL PIPE** 

**OPTIONS** 

HAMMER SHROUDS







MP180

Hammer shrouds are an important component to install around the hammer and shock



# **DRILL PIPE OPTIONS**





Height mm 50 100





**Mincon provides** all the necessary tools and accessories that are needed in successful drilling operations and equipment maintenance.

Only the most commonly used tools and products are listed on these pages. Please contact Mincon sales to know more about other items available.

#### ACCESSORIES

- Wide range of accessories for drilling
- Non-return valves for mud and air

ADAPTERS/SUBS

• Wide range of

threads

standard cross over

subs, saver subs and subs with API

Customised subs

by customer

specifications

• The subs are made

out of micro alloy steel with a hard

surface for wear

a tough core for

fatique resistance

resistance and

as standard

- Stabilisers and wrenches
- Chucks with guiding, fishing and lifting tools

# **Mincon**™

# **AIR TOOL OIL**

Mincon Envirosafe RDO is a high performance, environmentally safe rock drill oil. It can be used in all in-line lubricators and has proprietary lubricating compounds that are resistant to being washed off in acidic water, salt water, and foam environments, thus reducing rust in the hammer even after the equipment is not in use. Mincon Envirosafe RDO is a biodegradable product that lubricates more efficiently than conventional rock drill oils while reducing contamination of surface and groundwater.

# **FLUSHING FLUIDS**

#### Foam

Mincon Envirosafe Foamer ES is an environmentally acceptable foaming agent. It has an excellent half-life comparable to the leading foams on the market. It develops immediate tight foam (compact bubbles) with good lifting characteristics.



# **BUTTON SHARPENING**



961-5019-00 CME VS-220HD Handheld Grinder

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# ACCESSORIES





#### Hole control

Mincon Hole Control is a unique cost saving fluid formulated to stabilize the drill hole. It reduces the risk of re-drilling a hole, due to hole collapse or transference between adjacent drill holes through cracks and voids in the rock.





System product code	Name
100-5000-12	CME Grinding Cup HD round 12 mm
100-5000-14	CME Grinding Cup HD round 14 mm
100-5000-16	CME Grinding Cup HD round 16 mm
100-5000-18	CME Grinding Cup HD round 18 mm
100-5000-20	CME Grinding Cup HD round 20 mm
100-5000-22	CME Grinding Cup HD round 22 mm
5300-28	CME Grinding Cup HD round 28 mm



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