

Product catalogue



Elemex overburden drilling systems

Product catalogue

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Overburden drilling in sensitive ground

As much as 90% of the land surface of the earth is covered with loose, unconsolidated material such as soil, clay, silt, sand, gravel and boulders, which varies in depth from a few centimeters to hundreds of meters.

Drilling through this so-called overburden is often problematic, due to the tendency of the earth to cave in behind the drill bit. This makes it difficult to retrieve the drill string after the hole has been drilled. In practice, the bore hole is often lost before a casing tube can be inserted to support it. The Atlas Copco range of overburden drilling systems represent the latest technology in simultaneous casing advancement.

Casing advancing with DTH is the most productive foundation drilling method available. The harder the ground, the more stones and boulders and the probable rock socket requirements increase the benefits of DTH drilling.

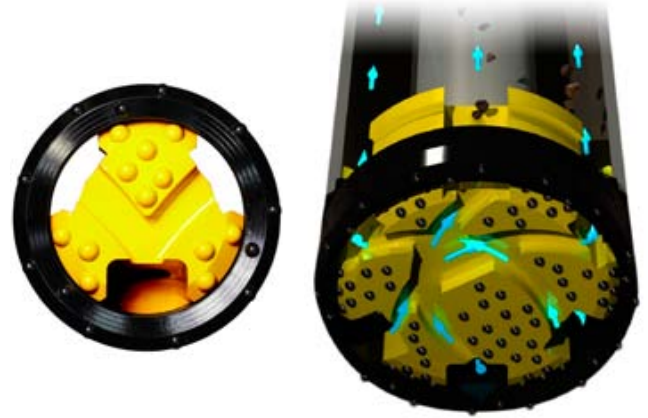
Foundation drilling and underpinning works are frequently carried out where existing foundations are sensitive to any kind of disturbance in their immediate surroundings. In those areas, DTH drilling gives one great challenge – controlling the removal of cuttings from the hole with compressed air. The flow of compressed air needs to be strong enough to transport the cuttings up to the surface but must not escape into the surrounding ground or remove excessive soil. In clay, air from the DTH drilling can escape to surrounding working foundations and weaken the adhesion between soil and load-bearing elements. This brings a risk for sudden settlements. In sand, excessive flushing can unconsolidate the ground, decreasing the capacity of existing friction piles, which in turn might cause pile buckling and result in settlements of buildings.

The new and reliable Elemex system for controlled flushing was invented by combining comprehensive field experience and testing with air flow simulation and analysis. Together with some of our most dedicated customers, Atlas Copco has designed this product to take on the most sensitive projects, and Elemex is already proving itself on the field.

The Elemex system

Conventional DTH drilling systems push air straight into the ground, which is a feature derived from rock drilling applications where the rock face needs as much air as possible to be cleaned efficiently.

The unique concept behind the Elemex design is built on redirecting the air flow. Once the air reaches the bit face, it is blown against the extended ring bit walls which redirect the flow across the face. This way, the air pressure is decreased just enough to allow an efficient flushing of the bit face without escaping to the surrounding ground.



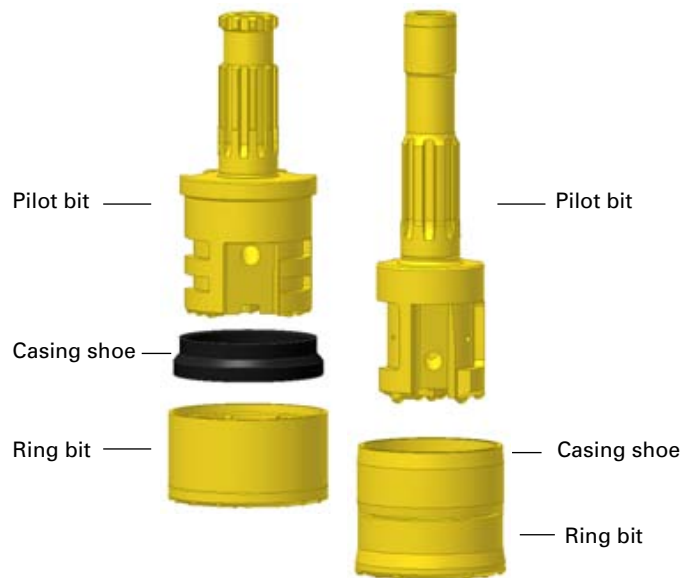
Main components

A **pilot bit** that drills away the center part of the hole and guides the drill string. The pilot bit is attached to any common DTH hammer shank.

A **casing shoe** welded to the casing pipe which is pulled down by the impact of the hammer and pilot bit.

A **symmetrical ring bit** that is locked onto the pilot bit and drills the void for the casing to advance down the hole. There are three different types of ring bit and casing shoe assemblies;

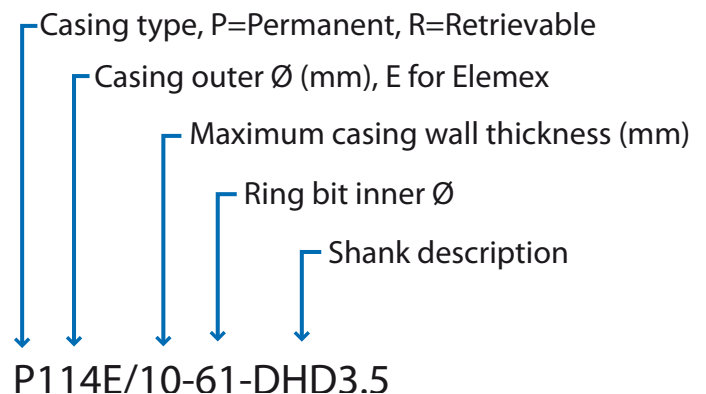
- A solitary ring bit with no connection to the casing shoe.
- A welding ring that holds the ring bit and casing shoe together.
- A factory assembled ring bit set with integrated ring bit and casing shoe.



Left: Elemex system with a solitary ring bit and casing shoe.
Right: Elemex system with a ring bit set; an integrated ring bit and casing shoe.

Product designation code

As for the Symmetrix system, the Elemex systems are named and numbered according to the casing type, casing size and ring bit inner diameter in both, permanent and retrievable system designs.



Casing size 114.3 mm (4 1/2")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number	
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Anchoring		
Casing 114.3 mm (4 1/2") Permanent, DTH														
Pilot bit	A	P114E/10-61-COP32		8.0	10.0	61	125	93	mm	X			8092 4400 01	
					0.39	2.40	4.92	3.65	inch					
Pilot bit	A	P114E/8-61-COP34		8.0	10.0	61	125	93	mm	X			8092 4400 02	
					0.39	2.40	4.92	3.65	inch					
Pilot bit	A	P114E/10-61-DHD3.5		8.0	10.0	61	125	93	mm	X			8092 4400 03	
					0.39	2.40	4.92	3.65	inch					
Ring bit	G	P114E/10-61-ring bit	R2	4.0	10.0	61	125	93	mm	X			8092 4400 04	
					0.39	2.40	4.92	3.65	inch					
Casing shoe	M	P114/10-61-casing shoe	same casing shoe as with Symmetrix	2.0	10.0	61	125	93	mm	X			8092 4011 64	
					0.39	2.40	4.92	3.65	inch					
Casing shoe	M	P114/8-61-casing shoe	same casing shoe as with Symmetrix	2.0	8.0	61	125	93	mm	X			8092 4021 53	
					0.31	2.40	4.92	3.65	inch					
Pilot bit	B	P114E/8-75-COP32		8.0	8.0	75	129	93	mm	X			8092 4400 05	
					0.31	2.95	5.08	3.65	inch					
Pilot bit	B	P114E/8-75-COP34		8.0	8.0	75	129	93	mm	X			8092 4400 06	
					0.31	2.95	5.08	3.65	inch					
Pilot bit	B	P114E/8-75-DHD3.5		8.0	8.0	75	129	93	mm	X			8092 4400 07	
					0.31	2.95	5.08	3.65	inch					
Ring bit set	H	P114E/10-75-ring bit set	R1. To be used also with P114E/8-75 pilot bit	5.5	10.0	75	129	93	mm	X			8092 4400 08	
					0.39	2.95	5.08	3.65	inch					
Casing 114.3 mm (4 1/2") Retrievable, DTH														
Pilot bit	E	R114E/10-82-COP32		X	7.0	10.0	82	122	92	mm			X	8092 4400 09
						0.39	3.23	4.80	3.61	inch				
Pilot bit	E	R114E/8-82-COP34		X	7.0	8.0	82	122	92	mm			X	8092 4400 10
						0.31	3.23	4.80	3.61	inch				
Pilot bit	E	R114E/10-82-DHD3.5		X	7.0	10.0	82	122	92	mm			X	8092 4400 11
						0.39	3.23	4.80	3.61	inch				
Ring bit set	K	R114E/10-82-ring bit set	R1. To be used also with R114E/8-82 pilot bit	X	5.5	10.0	82	122	92	mm			X	8092 4400 12
						0.39	3.23	4.80	3.61	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 127.0 mm (5"), 133.4 mm (5 1/4")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number	
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Anchoring		
Casing 127.0 mm (5") Retrievable, DTH														
Pilot bit	E	R127E/10-95-COP34	X	9.0	10.0	95	136	105	mm			X	8092 4400 13	
					0.39	3.74	5.35	4.13	inch					
Pilot bit	E	R127E/10-95-COP32	X	9.0	10.0	95	136	105	mm			X	8092 4400 14	
					0.39	3.74	5.35	4.13	inch					
Pilot bit	E	R127E/10-95-DHD3.5	X	9.0	10.0	95	136	105	mm			X	8092 4400 15	
					0.39	3.74	5.35	4.13	inch					
Pilot bit	E	R127E/10-95-DHD340	X	9.0	10.0	95	136	105	mm			X	8092 4400 16	
					0.39	3.74	5.35	4.13	inch					
Ring bit set	K	R127E/10-95-ring bit set	R1	X	6.5	10.0	95	136	105	mm			X	8092 4400 17
						0.39	3.74	5.35	4.13	inch				
Casing 133.4 mm (5 1/4") Retrievable, DTH														
Pilot bit	E	R133E/10-98-DHD340	X	9.0	10.0	98	141	109	mm			X	8092 4400 18	
					0.39	3.86	5.55	4.28	inch					
Pilot bit	E	R133E/10-98-QL40	X	9.0	10.0	98	141	109	mm			X	8092 4400 19	
					0.39	3.86	5.55	4.28	inch					
Pilot bit	E	R133E/10-98-COP42	X	9.0	10.0	98	141	109	mm			X	8092 4400 20	
					0.39	3.86	5.55	4.28	inch					
Pilot bit	E	R133E/10-98-SD4	X	9.0	10.0	98	141	109	mm			X	8092 4400 21	
					0.39	3.86	5.55	4.28	inch					
Ring bit set	K	R133E/10-98-ring bit set	R1	X	7.0	10.0	98	141	109	mm			X	8092 4400 22
						0.39	3.86	5.55	4.28	inch				

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 139.7 mm (5 1/2")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 139.7 mm (5 1/2") Permanent, DTH													
Pilot bit	A	P140E/10-82-DHD340		10.0	10.0	82	151	117	mm	X			8092 4400 23
					0.39	3.23	5.94	4.61	inch				
Pilot bit	A	P140E/10-82-COP42		10.0	10.0	82	151	117	mm	X			8092 4400 24
					0.39	3.23	5.94	4.61	inch				
Pilot bit	A	P140E/10-82-QL40		10.0	10.0	82	151	117	mm	X			8092 4400 25
					0.39	3.23	5.94	4.61	inch				
Pilot bit	A	P140E/10-82-SD4		10.0	10.0	82	151	117	mm	X			8092 4400 26
					0.39	3.23	5.94	4.61	inch				
Ring bit	G	P140E/10-82-ring bit	R2	6.0	10.0	82	151	117	mm	X			8092 4400 27
					0.39	3.23	5.94	4.61	inch				
Casing shoe	M	P140/10-82-casing shoe	same casing shoe as with Symmetrix	2.5	10.0	82	151	117	mm	X			8092 4011 67
					0.39	3.23	5.94	4.61	inch				
Casing shoe	M	P140/8-82-casing shoe	same casing shoe as with Symmetrix	2.5	8.0	82	151	117	mm	X			8092 4021 70
					0.31	3.23	5.94	4.61	inch				
Pilot bit	C	P140E/10-100-DHD340		13.0	10.0	100	159	117	mm	X			8092 4400 28
					0.39	3.94	6.26	4.61	inch				
Pilot bit	C	P140E/10-100-COP42		13.0	10.0	100	159	117	mm	X			8092 4400 29
					0.39	3.94	6.26	4.61	inch				
Pilot bit	C	P140E/10-100-QL40		13.0	10.0	100	159	117	mm	X			8092 4400 30
					0.39	3.94	6.26	4.61	inch				
Pilot bit	C	P140E/10-100-SD4		13.0	10.0	100	159	117	mm	X			8092 4400 31
					0.39	3.94	6.26	4.61	inch				
Ring bit set	I	P140E/10-100-ring bit set	R1	5.1	10.0	100	159	117	mm	X			8092 4400 32
					0.39	3.94	6.26	4.61	inch				
Pilot bit	C	P140E/5-115-DHD340		14.0	5.0	115	159	128	mm			X	8092 4400 33
					0.20	4.53	6.26	5.02	inch				
Pilot bit	C	P140E/5-115-COP42		14.0	5.0	115	159	128	mm			X	8092 4400 34
					0.20	4.53	6.26	5.02	inch				
Pilot bit	C	P140E/5-115-QL40		14.0	5.0	115	159	128	mm			X	8092 4400 35
					0.20	4.53	6.26	5.02	inch				
Pilot bit	C	P140E/5-115-COP44G		14.0	5.0	115	159	128	mm			X	8092 4400 36
					0.20	4.53	6.26	5.02	inch				
Pilot bit	C	P140E/5-115-SD4		14.0	5.0	115	159	128	mm			X	8092 4400 37
					0.20	4.53	6.26	5.02	inch				
Ring bit set	I	P140E/5-115-ring bit set	R1	4.1	5.0	115	159	128	mm			X	8092 4400 38
					0.20	4.53	6.26	5.02	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 139.7 mm (5 1/2")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Anchoring	
Casing 139.7 mm (5 1/2") Permanent, DTH, heavy-duty													
Pilot bit	F	P140E/10-85-DHD340		10.0	10.0	85	151	116	mm		X		8092 4400 39
					0.39	3.35	5.94	4.57	inch				
Pilot bit	F	P140E/10-85-QL40		10.0	10.0	85	151	116	mm		X		8092 4400 41
					0.39	3.35	5.94	4.57	inch				
Pilot bit	F	P140E/10-85-SD4		10.0	10.0	85	151	116	mm		X		8092 4400 42
					0.39	3.35	5.94	4.57	inch				
Ring bit	L	P140E/10-85-ring bit	R2	9.6	10.0	85	151	116	mm		X		8092 4400 43
					0.39	3.35	5.94	4.57	inch				
Casing shoe	N	P140/10-85-casing shoe	same casing shoe as with Symmetrix	2.0	10.0	85	151	116	mm		X		8092 4021 72
					0.39	3.35	5.94	4.57	inch				
Casing shoe	N	P140/6.3-85-casing shoe	same casing shoe as with Symmetrix	2.0	6.3	85	151	116	mm		X		8092 4021 73
					0.25	3.35	5.94	4.57	inch				
Welding ring		P140/10-85-welding ring	R3	1.0	10.0	85	151	116	mm		X		8092 4021 74
					0.39	3.35	5.94	4.57	inch				
Casing 139.7 mm (5 1/2") Retrievable, DTH													
Pilot bit	E	R140E/10-104-DHD340		12.5	10.0	104	147	116	mm	X		X	8092 4400 44
					0.39	4.09	5.79	4.57	inch				
Pilot bit	E	R140E/10-104-COP42		12.5	10.0	104	147	116	mm	X		X	8092 4400 45
					0.39	4.09	5.79	4.57	inch				
Pilot bit	E	R140E/10-104-QL40		12.5	10.0	104	147	116	mm	X		X	8092 4400 46
					0.39	4.09	5.79	4.57	inch				
Pilot bit	E	R140E/10-104-SD4		12.5	10.0	104	147	116	mm	X		X	8092 4400 47
					0.39	4.09	5.79	4.57	inch				
Ring bit set	K	R140E/10-104-ring bit set	R1	8.2	10.0	104	147	116	mm	X		X	8092 4400 48
					0.39	4.09	5.79	4.57	inch				

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 152.4 mm (6")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Anchoring	
Casing 152.4 mm (6") Permanent, DTH													
Pilot bit	A	P152E/10-94-DHD340	X	14.0	10.0	94	162	129	mm	X			8092 4400 49
					0.39	3.70	6.38	5.09	inch				
Pilot bit	A	P152E/10-94-QL40		14.0	10.0	94	162	129	mm	X			8092 4400 50
					0.39	3.70	6.38	5.09	inch				
Pilot bit	A	P152E/10-94-SD4		14.0	10.0	94	162	129	mm	X			8092 4400 51
					0.39	3.70	6.38	5.09	inch				
Ring bit	G	P152E/10-94-ring bit	R2	5.3	10.0	94	162	129	mm	X			8092 4400 52
					0.39	3.70	6.38	5.09	inch				
Casing shoe	M	P152/10-94-casing shoe	same casing shoe as with Symmetrix	2.5	10.0	94	162	129	mm	X			8092 4011 68
					0.39	3.70	6.38	5.09	inch				
Casing 152.4 mm (6") Retrievable, DTH													
Pilot bit	E	R152E/10-116-DHD340	X	16.0	10.0	116	160	127	mm	X		X	8092 4400 53
					0.39	4.57	6.30	5.01	inch				
Pilot bit	E	R152E/10-116-QL40	X	16.0	10.0	116	160	127	mm	X		X	8092 4400 54
					0.39	4.57	6.30	5.01	inch				
Pilot bit	E	R152E/10-116-SD4	X	16.0	10.0	116	160	127	mm	X		X	8092 4400 55
					0.39	4.57	6.30	5.01	inch				
Ring bit set	K	R152E/10-116-ring bit set	R1	10.0	10.0	116	160	127	mm	X		X	8092 4400 56
					0.39	4.57	6.30	5.01	inch				

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 168.3 mm (6 5/8")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 168.3 mm (6 5/8") Permanent, DTH													
Pilot bit	A	P168E/12.7-103-DHD350		20.0	12.7	103	179	140	mm	X			8092 4400 57
					0.50	4.06	7.05	5.51	inch				
Pilot bit	A	P168E/12.7-103-QL50		20.0	12.7	103	179	140	mm	X			8092 4400 58
					0.50	4.06	7.05	5.51	inch				
Pilot bit	A	P168E/12.7-103-SD5		20.0	12.7	103	179	140	mm	X			8092 4400 59
					0.50	4.06	7.05	5.51	inch				
Ring bit	G	P168E/12.7-103-ring bit	R2	7.6	12.7	103	179	140	mm	X			8092 4400 60
					0.50	4.06	7.05	5.51	inch				
Casing shoe	M	P168/12.7-103-casing shoe	same casing shoe as with Symmetrix	2.5	12.7	103	179	140	mm	X			8092 4020 66
					0.50	4.06	7.05	5.51	inch				
Casing shoe	M	P168/10-103-casing shoe	same casing shoe as with Symmetrix	2.5	10.0	103	179	140	mm	X			8092 4020 67
					0.39	4.06	7.05	5.51	inch				
Casing shoe		P168/8-103-casing shoe	same casing shoe as with Symmetrix	2.5	8.0	103	179	140	mm	X			8092 4021 82
					0.31	4.06	7.05	5.51	inch				
Pilot bit	C	P168E/12.7-125-DHD350		23.0	12.7	125	188	141	mm	X			8092 4400 61
					0.50	4.92	7.40	5.55	inch				
Pilot bit	C	P168E/12.7-125-QL50		23.0	12.7	125	188	141	mm	X			8092 4400 62
					0.50	4.92	7.40	5.55	inch				
Pilot bit	C	P168E/12.7-125-SD5		23.0	12.7	125	188	141	mm	X			8092 4400 63
					0.50	4.92	7.40	5.55	inch				
Ring bit set	I	P168E/12.7-125-ring bit set	R1	7.6	12.7	125	188	141	mm	X			8092 4400 64
					0.50	4.92	7.40	5.55	inch				
Pilot bit	D	P168E/7-140-DHD350		24.0	7.0	140	198	152	mm			X	8092 4400 65
					0.28	5.51	7.80	5.98	inch				
Pilot bit	D	P168E/7-140-COP52		24.0	7.0	140	198	152	mm			X	8092 4400 66
					0.28	5.51	7.80	5.98	inch				
Pilot bit	D	P168E/7-140-QL50		24.0	7.0	140	198	152	mm			X	8092 4400 67
					0.28	5.51	7.80	5.98	inch				
Pilot bit	D	P168E/7-140-SD5		24.0	7.0	140	198	152	mm			X	8092 4400 68
					0.28	5.51	7.80	5.98	inch				
Ring bit set	J	P168E/7-140-ring bit set	R1	11.5	7.0	140	198	152	mm			X	8092 4400 69
					0.28	5.51	7.80	5.98	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 168.3 mm (6 5/8")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number	
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells		
continuing from previous page														
Pilot bit	C	P168E/5.5-140-DHD350	X	24.0	5.5	140	188	155	mm			X	8092 4400 70	
					0.22	5.51	7.40	6.10	inch					
Pilot bit	C	P168E/5.5-140-COP52	X	24.0	5.5	140	188	155	mm			X	8092 4400 71	
					0.22	5.51	7.40	6.10	inch					
Pilot bit	C	P168E/5.5-140-QL50	X	24.0	5.5	140	188	155	mm			X	8092 4400 72	
					0.22	5.51	7.40	6.10	inch					
Pilot bit	C	P168E/5.5-140-SD5	X	24.0	5.5	140	188	155	mm			X	8092 4400 73	
					0.22	5.51	7.40	6.10	inch					
Ring bit set	I	P168E/5.5-140-ring bit set	R1	X	5.8	5.5	140	188	155	mm			X	8092 4400 74
						0.22	5.51	7.40	6.10	inch				
Casing 168.3 mm (6 5/8") Permanent, DTH, heavy-duty														
Pilot bit	F	P168E/10-108-DHD350			24.0	10.0	108	183	144	mm		X	8092 4400 75	
						0.39	4.25	7.20	5.68	inch				
Pilot bit	F	P168E/10-108-QL50			24.0	10.0	108	183	144	mm		X	8092 4400 76	
						0.39	4.25	7.20	5.68	inch				
Pilot bit	F	P168E/10-108-SD5			24.0	10.0	108	183	144	mm		X	8092 4400 77	
						0.39	4.25	7.20	5.68	inch				
Ring bit	L	P168E/10-108-ring bit	R2		10.0	10.0	108	183	144	mm		X	8092 4400 78	
						0.39	4.25	7.20	5.68	inch				
Casing shoe	N	P168/10-108-casing shoe	same casing shoe as with Symmetrix		2.5	10.0	108	183	144	mm		X	8092 4009 13	
						0.39	4.25	7.20	5.68	inch				
Casing shoe	N	P168/6.3-108-casing shoe	same casing shoe as with Symmetrix		2.5	6.3	108	183	144	mm		X	8092 4021 84	
						0.25	4.25	7.20	5.68	inch				
Welding ring		P168/10-108-welding ring	R3		1.0	10.0	108	183	144	mm		X	8092 4023 88	
						0.39	4.25	7.20	5.68	inch				
Casing 168.3 mm (6 5/8") Retrievable, DTH														
Pilot bit	E	R168E/10-132-DHD350	X	25.0	10.0	132	177	143	mm	X			8092 4400 79	
					0.39	5.20	6.97	5.63	inch					
Pilot bit	E	R168E/10-132-QL50	X	25.0	10.0	132	177	143	mm	X			8092 4400 80	
					0.39	5.20	6.97	5.63	inch					
Pilot bit	E	R168E/10-132-SD5	X	25.0	10.0	132	177	143	mm	X			8092 4400 81	
					0.39	5.20	6.97	5.63	inch					
Ring bit set	K	R168E/10-132-ring bit set	R1	X	13.2	10.0	132	177	143	mm	X		8092 4400 82	
						0.39	5.20	6.97	5.63	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 177.8 mm (7")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 177.8 mm (7") Permanent, DTH													
Pilot bit	A	P178E/12.7-114-DHD350		25.0	12.7	114	187	150	mm	X			8092 4400 83
					0.50	4.49	7.36	5.91	inch				
Pilot bit	A	P178E/12.7-114-QL50		25.0	12.7	114	187	150	mm	X			8092 4400 84
					0.50	4.49	7.36	5.91	inch				
Pilot bit	A	P178E/12.7-114-SD5		25.0	12.7	114	187	150	mm	X			8092 4400 85
					0.50	4.49	7.36	5.91	inch				
Ring bit	G	P178E/12.7-114-ring bit	R2	8.6	12.7	114	187	150	mm	X			8092 4400 86
					0.50	4.49	7.36	5.91	inch				
Casing shoe	M	P178/12.7-114-casing shoe	same casing shoe as with Symmetrix	2.5	12.7	114	187	150	mm	X			8092 4011 72
					0.50	4.49	7.36	5.91	inch				
Casing shoe	M	P178/10-114-casing shoe	same casing shoe as with Symmetrix	2.5	10.0	114	187	150	mm	X			8092 4022 16
					0.39	4.49	7.36	5.91	inch				
Welding ring		P178/12.7-114-welding ring	R3	1.0	12.7	114	187	150	mm	X			8092 4021 30
					0.50	4.49	7.36	5.91	inch				
Pilot bit	C	P178E/12.7-131-DHD350		33.0	12.7	131	196	150	mm	X			8092 4400 87
					0.50	5.16	7.72	5.91	inch				
Pilot bit	C	P178E/12.7-131-QL50		33.0	12.7	131	196	150	mm	X			8092 4400 88
					0.50	5.16	7.72	5.91	inch				
Pilot bit	C	P178E/12.7-131-SD5		33.0	12.7	131	196	150	mm	X			8092 4400 89
					0.50	5.16	7.72	5.91	inch				
Ring bit set	I	P178E/12.7-131-ring bit set	R1	8.9	12.7	131	196	150	mm	X			8092 4400 90
					0.50	5.16	7.72	5.91	inch				
Pilot bit	D	P178E/7-153-DHD360	X	35.0	7.0	153	196	162	mm			X	8092 4400 91
					0.28	6.02	7.72	6.39	inch				
Pilot bit	D	P178E/7-153-QL60	X	35.0	7.0	153	196	162	mm			X	8092 4400 92
					0.28	6.02	7.72	6.39	inch				
Pilot bit	D	P178E/7-153-SD6	X	35.0	7.0	153	196	162	mm			X	8092 4400 93
					0.28	6.02	7.72	6.39	inch				
Ring bit set	J	P178E/7-153-ring bit set	R1	7.6	7.0	153	196	162	mm			X	8092 4400 94
					0.28	6.02	7.72	6.39	inch				

R¹ integrated ring bit and casing shoe

R² solitary ring bit

R³ optional for connecting ring bit and casing shoe

Casing size 177.8 mm (7")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 177.8 mm (7") Permanent, DTH, heavy-duty													
Pilot bit	F	P178E/10-117-DHD350		26.0	10.0	117	193	154	mm		X		8092 4400 95
					0.39	4.61	7.60	6.06	inch				
Ring bit	L	P178E/10-117-ring bit		13.1	10.0	117	193	154	mm		X		8092 4400 96
					0.39	4.61	7.60	6.06	inch				
Casing shoe	N	P178/10-117-casing shoe	same casing shoe as with Symmetrix	2.5	10.0	117	193	154	mm		X		8092 4029 10
					0.39	4.61	7.60	6.06	inch				
Casing 177.8 mm (7") Retrievable, DTH													
Pilot bit	E	R178E/10-141-DHD350	X	30.0	10.0	141	187	153	mm	X			8092 4400 97
					0.39	5.55	7.36	6.01	inch				
Pilot bit	E	R178E/10-141-QL50	X	30.0	10.0	141	187	153	mm	X			8092 4400 98
					0.39	5.55	7.36	6.01	inch				
Pilot bit	E	R178E/10-141-SD5	X	30.0	10.0	141	187	153	mm	X			8092 4400 99
					0.39	5.55	7.36	6.01	inch				
Ring bit set	K	R178E/10-141-ring bit set	R1	14.8	10.0	141	187	153	mm	X			8092 4401 00
					0.39	5.55	7.36	6.01	inch				

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 193.7 mm (7 5/8")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 193.7 mm (7 5/8") Permanent, DTH													
Pilot bit	A	P194E/12.7-127-DHD360		35.0	12.7	127	206	165	mm	X			8092 4401 01
					0.50	5.00	8.11	6.50	inch				
Pilot bit	A	P194E/12.7-127-QL60		35.0	12.7	127	206	165	mm	X			8092 4401 02
					0.50	5.00	8.11	6.50	inch				
Pilot bit	A	P194E/12.7-127-SD6		35.0	12.7	127	206	165	mm	X			8092 4401 03
					0.50	5.00	8.11	6.50	inch				
Ring bit	G	P194E/12.7-127-ring bit	R2	10.9	12.7	127	206	165	mm	X			8092 4401 04
					0.50	5.00	8.11	6.50	inch				
Casing shoe	M	P194/12.7-127-casing shoe	same casing shoe as with Symmetrix	3.0	12.7	127	206	165	mm	X			8092 4011 73
					0.50	5.00	8.11	6.50	inch				
Welding ring		P194/12.7-127-welding ring	R3	1.5	12.7	127	206	165	mm	X			8092 4021 89
					0.50	5.00	8.11	6.50	inch				
Pilot bit	C	P194E/12.7-147-DHD360		35.0	12.7	147	214	166	mm	X			8092 4401 05
					0.50	5.79	8.43	6.54	inch				
Pilot bit	C	P194E/12.7-147-QL60		35.0	12.7	147	214	166	mm	X			8092 4401 06
					0.50	5.79	8.43	6.54	inch				
Pilot bit	C	P194E/12.7-147-SD6		35.0	12.7	147	214	166	mm	X			8092 4401 07
					0.50	5.79	8.43	6.54	inch				
Ring bit set	I	P194E/12.7-147-ring bit set	R1	10.5	12.7	147	214	166	mm	X			8092 4401 08
					0.50	5.79	8.43	6.54	inch				
Pilot bit	C	P194E/5.5-165-DHD360	X	37.0	5.5	165	215	180	mm			X	8092 4401 09
					0.22	6.50	8.46	7.09	inch				
Pilot bit	C	P194E/5.5-165-QL60	X	37.0	10.0	141	187	153	mm			X	8092 4401 10
					0.39	5.55	7.36	6.01	inch				
Pilot bit	C	P194E/5.5-165-SD6	X	37.0	10.0	141	187	153	mm			X	8092 4401 11
					0.39	5.55	7.36	6.01	inch				
Ring bit set	I	P194E/5.5-165-ring bit set	R1	8.2	10.0	141	187	153	mm			X	8092 4401 12
					0.39	5.55	7.36	6.01	inch				

R¹ integrated ring bit and casing shoe

R² solitary ring bit

R³ optional for connecting ring bit and casing shoe

Casing size 193.7 mm (7 5/8")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 193.7 mm (7 5/8") Permanent, DTH, heavy-duty													
Pilot bit	F	P194E/10-131-DHD360		30.0	10.0	131	213	169	mm		X		8092 4401 13
					0.39	5.16	8.37	6.65	inch				
Pilot bit	F	P194E/10-131-QL60		30.0	10.0	131	213	169	mm		X		8092 4401 14
					0.39	5.16	8.37	6.65	inch				
Pilot bit	F	P194E/10-131-SD6		30.0	10.0	131	213	169	mm		X		8092 4401 15
					0.39	5.16	8.37	6.65	inch				
Ring bit	L	P194E/10-131-ring bit	R2	18.3	10.0	131	213	169	mm		X		8092 4401 16
					0.39	5.16	8.37	6.65	inch				
Casing shoe	N	P194/10-131-casing shoe	same casing shoe as with Symmetrix	3.0	10.0	131	213	169	mm		X		8092 4009 36
					0.39	5.16	8.37	6.65	inch				
Welding ring		P194/10-131-welding ring	R3	1.5	10.0	131	213	169	mm		X		8092 4021 90
					0.39	5.16	8.37	6.65	inch				
Casing 193.7 mm (7 5/8") Retrievable, DTH													
Pilot bit	E	R194E/12.7-154-DHD360		35.0	12.7	154	203	167	mm	X			8092 4401 17
					0.50	6.06	7.99	6.56	inch				
Pilot bit	E	R194E/12.7-154-QL60		35.0	12.7	154	203	167	mm	X			8092 4401 18
					0.50	6.06	7.99	6.56	inch				
Pilot bit	E	R194E/12.7-154-SD6		35.0	12.7	154	203	167	mm	X			8092 4401 19
					0.50	6.06	7.99	6.56	inch				
Ring bit set	K	R194E/12.7-154-ring bit set	R1	15.6	12.7	154	203	167	mm	X			8092 4401 20
					0.50	6.06	7.99	6.56	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 219.1 mm (8 5/8")

Elemex overburden drilling system

NPart	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 219.1 mm (8 5/8") Permanent, DTH													
Pilot bit	A	P219E/12.7-146-DHD360		45.0	12.7	146	231	190	mm	X			8092 4401 21
					0.50	5.75	9.09	7.48	inch				
Pilot bit	A	P219E/12.7-146-QL60		45.0	12.7	146	231	190	mm	X			8092 4401 22
					0.50	5.75	9.09	7.48	inch				
Pilot bit	A	P219E/12.7-146-SD6		45.0	12.7	146	231	190	mm	X			8092 4401 23
					0.50	5.75	9.09	7.48	inch				
Ring bit	G	P219E/12.7-146-ring bit	R2	12.7	12.7	146	231	190	mm	X			8092 4401 24
					0.50	5.75	9.09	7.48	inch				
Casing shoe	M	P219/12.7-146-casing shoe	same casing shoe as with Symmetrix	3.0	12.7	146	231	190	mm	X			8092 4011 74
					0.50	5.75	9.09	7.48	inch				
Casing shoe	M	P219/10-146-casing shoe	same casing shoe as with Symmetrix	3.0	10.0	146	231	190	mm	X			8092 4022 31
					0.39	5.75	9.09	7.48	inch				
Welding ring		P219/12.7-146-welding ring	R3	2.0	12.7	146	231	190	mm	X			8092 4021 91
					0.50	5.75	9.09	7.48	inch				
Pilot bit	D	P219E/6.5-190-DHD360	X	45.0	6.5	190	246	202	mm			X	8092 4401 25
					0.26	7.48	9.70	7.95	inch				
Pilot bit	D	P219E/6.5-190-QL60	X	45.0	6.5	190	246	202	mm			X	8092 4401 26
					0.26	7.48	9.70	7.95	inch				
Pilot bit	D	P219E/6.5-190-SD6	X	45.0	6.5	190	246	202	mm			X	8092 4401 27
					0.26	7.48	9.70	7.95	inch				
Ring bit set	J	P219E/6.5-190-ring bit set	R1	15.2	6.5	190	246	202	mm			X	8092 4401 28
					0.26	7.48	9.70	7.95	inch				
Casing 219.1 mm (8 5/8") Permanent, DTH, heavy-duty													
Pilot bit	F	P219E/10-133-DHD360		45.0	10.0	133	242	196	mm		X		8092 4401 29
					0.39	5.24	9.53	7.70	inch				
Pilot bit	F	P219E/10-133-QL60		45.0	10.0	133	242	196	mm		X		8092 4401 30
					0.39	5.24	9.53	7.70	inch				
Pilot bit	F	P219E/10-133-SD6		45.0	10.0	133	242	196	mm		X		8092 4401 31
					0.39	5.24	9.53	7.70	inch				
Ring bit	L	P219E/10-133-ring bit	R2	22.6	10.0	133	242	196	mm		X		8092 4401 32
					0.39	5.24	9.53	7.70	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 219.1 mm (8 5/8")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
continuing from previous page													
Casing shoe	N	P219/10-133-casing shoe	same casing shoe as with Symmetrix		4.0	10.0	133	242	196	mm	X		8092 4009 16
						0.39	5.24	9.53	7.70	inch			
Welding ring		P219/10-133-welding ring	R3		2.0	10.0	133	242	196	mm	X		8092 4021 92
						0.39	5.24	9.53	7.70	inch			
Casing 219.1 mm (8 5/8") Retrievable, DTH													
Pilot bit	E	R219E/12.7-175-DHD360		X	45.0	12.7	175	227	190	mm	X		8092 4401 33
						0.50	6.89	8.95	7.48	inch			
Pilot bit	E	R219E/12.7-175-QL60		X	45.0	12.7	175	227	190	mm	X		8092 4401 34
						0.50	6.89	8.95	7.48	inch			
Pilot bit	E	R219E/12.7-175-SD6		X	45.0	12.7	175	227	190	mm	X		8092 4401 35
						0.50	6.89	8.95	7.48	inch			
Ring bit set	K	R219E/12.7-175-ring bit set	R1	X	18.6	12.7	175	227	190	mm	X		8092 4401 36
						0.50	6.89	8.95	7.48	inch			

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 244.5 mm (9 5/8")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 244.5 mm (9 5/8") Permanent, DTH													
Pilot bit	A	P245E/12.7-162-DHD360		65.0	12.7	162	258	212	mm	X			8092 4401 37
					0.50	6.38	10.16	8.35	inch				
Pilot bit	A	P245E/12.7-162-DHD380		65.0	12.7	162	258	212	mm	X			8092 4401 38
					0.50	6.38	10.16	8.35	inch				
Pilot bit	A	P245E/12.7-162-QL60		65.0	12.7	162	258	212	mm	X			8092 4401 39
					0.50	6.38	10.16	8.35	inch				
Pilot bit	A	P245E/12.7-162-QL80		65.0	12.7	162	258	212	mm	X			8092 4401 40
					0.50	6.38	10.16	8.35	inch				
Pilot bit	A	P245E/12.7-162-SD6		65.0	12.7	162	258	212	mm	X			8092 4401 41
					0.50	6.38	10.16	8.35	inch				
Pilot bit	A	P245E/12.7-162-SD8		65.0	12.7	162	258	212	mm	X			8092 4401 42
					0.50	6.38	10.16	8.35	inch				
Ring bit	G	P245E/12.7-162-ring bit	R2	18.4	12.7	162	258	212	mm	X			8092 4401 43
					0.50	6.38	10.16	8.35	inch				
Casing shoe	M	P245/12.7-162-casing shoe	same casing shoe as with Symmetrix	4.0	12.7	162	258	212	mm	X			8092 4018 76
					0.50	6.38	10.16	8.35	inch				
Casing shoe	M	P245/10-162-casing shoe	same casing shoe as with Symmetrix	4.0	10.0	162	258	212	mm	X			8092 4022 36
					0.39	6.38	10.16	8.35	inch				
Casing shoe	M	P245/8-162-casing shoe	same casing shoe as with Symmetrix	4.0	8.0	162	258	212	mm	X			8092 4022 38
					0.31	6.38	10.16	8.35	inch				
Welding ring		P245/12.7-162-welding ring	R3	2.0	12.7	162	258	212	mm	X			8092 4021 93
					0.50	6.38	10.16	8.35	inch				
Casing 244.5 mm (9 5/8") Retrievable, DTH													
Pilot bit	E	R245E/12.7-200-DHD360	X	60.0	12.7	200	254	215	mm	X			8092 4401 44
					0.50	7.87	10.00	8.48	inch				
Pilot bit	E	R245E/12.7-200-DHD380	X	60.0	12.7	200	254	215	mm	X			8092 4401 45
					0.50	7.87	10.00	8.48	inch				
Pilot bit	E	R245E/12.7-200-QL60	X	60.0	12.7	200	254	215	mm	X			8092 4401 46
					0.50	7.87	10.00	8.48	inch				
Pilot bit	E	R245E/12.7-200-QL80	X	60.0	12.7	200	254	215	mm	X			8092 4401 47
					0.50	7.87	10.00	8.48	inch				
Pilot bit	E	R245E/12.7-200-SD6	X	60.0	12.7	200	254	215	mm	X			8092 4401 48
					0.50	7.87	10.00	8.48	inch				
Pilot bit	E	R245E/12.7-200-SD8	X	60.0	12.7	200	254	215	mm	X			8092 4401 49
					0.50	7.87	10.00	8.48	inch				
Ring bit set	K	R245E/12.7-200-ring bit set	R1	21.0	12.7	200	254	215	mm	X			8092 4401 50
					0.50	7.87	10.00	8.48	inch				

R¹ integrated ring bit and casing shoe

R² solitary ring bit

R³ optional for connecting ring bit and casing shoe

Casing size 254.0 mm (10"), 267.0 mm (10 1/2")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 254.0 mm (10") Retrievable, DTH													
Pilot bit	E	R254E/12.7-207-DHD380	X	70.0	12.7	207	266	223	mm	X			8092 4401 51
					0.50	8.15	10.47	8.79	inch				
Pilot bit	E	R254E/12.7-207-QL80	X	70.0	12.7	207	266	223	mm	X			8092 4401 52
					0.50	8.15	10.47	8.79	inch				
Pilot bit	E	R254E/12.7-207-SD8	X	70.0	12.7	207	266	223	mm	X			8092 4401 53
					0.50	8.15	10.47	8.79	inch				
Ring bit set	K	R254E/12.7-207-ring bit set	X	23.4	12.7	207	266	223	mm	X			8092 4401 54
					0.50	8.15	10.47	8.79	inch				
Casing 267.0 mm (10 1/2") Retrievable, DTH													
Pilot bit	E	R267E/12.7-220-DHD380	X	90.0	12.7	220	281	236	mm	X			8092 4401 55
					0.50	8.66	11.06	9.29	inch				
Pilot bit	E	R267E/12.7-220-QL80	X	90.0	12.7	220	281	236	mm	X			8092 4401 56
					0.50	8.66	11.06	9.29	inch				
Pilot bit	E	R267E/12.7-220-SD8	X	90.0	12.7	220	281	236	mm	X			8092 4401 57
					0.50	8.66	11.06	9.29	inch				
Ring bit set	K	R267E/12.7-220-ring bit set	X	27.8	12.7	220	281	236	mm	X			8092 4401 58
					0.50	8.66	11.06	9.29	inch				

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 273.0 mm (10 3/4")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number	
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells		
Casing 273.0 mm (10 3/4") Permanent, DTH														
Pilot bit	A	P273E/12.7-193-DHD380		85.0	12.7	193	291	241	mm	X			8092 4401 59	
					0.50	7.60	11.46	9.48	inch					
Pilot bit	A	P273E/12.7-193-QL80		85.0	12.7	193	291	241	mm	X			8092 4401 60	
					0.50	7.60	11.46	9.48	inch					
Pilot bit	A	P273E/12.7-193-SD8		85.0	12.7	193	291	241	mm	X			8092 4401 61	
					0.50	7.60	11.46	9.48	inch					
Ring bit	G	P273E/12.7-193-ring bit	R2	23.8	12.7	193	291	241	mm	X			8092 4401 62	
					0.50	7.60	11.46	9.48	inch					
Casing shoe	M	P273/12.7-193-casing shoe	same casing shoe as with Symmetrix	5.0	12.7	193	291	241	mm	X			8092 4011 75	
					0.50	7.60	11.46	9.48	inch					
Casing shoe	M	P273/10-193-casing shoe	same casing shoe as with Symmetrix	5.0	10.0	193	291	241	mm	X			8092 4022 42	
					0.39	7.60	11.46	9.48	inch					
Casing shoe	M	P273/8-193-casing shoe	same casing shoe as with Symmetrix	5.0	8.0	193	291	241	mm	X			8092 4023 87	
					0.31	7.60	11.46	9.48	inch					
Welding ring		P273/12.7-193-welding ring	R3	2.5	12.7	193	291	241	mm	X			8092 4021 94	
					0.50	7.60	11.46	9.48	inch					
Pilot bit	D	P273E/8-240-DHD380		85.0	X	8.0	240	298	254	mm			X	8092 4401 63
						0.31	9.45	11.73	10.00	inch				
Pilot bit	D	P273E/8-240-QL80		85.0	X	8.0	240	298	254	mm			X	8092 4401 64
						0.31	9.45	11.73	10.00	inch				
Pilot bit	D	P273E/8-240-SD8		85.0	X	8.0	240	298	254	mm			X	8092 4401 65
						0.31	9.45	11.73	10.00	inch				
Ring bit set	J	P273E/8-240-ring bit set	R1	20.8	X	8.0	240	298	254	mm			X	8092 4401 66
						0.31	9.45	11.73	10.00	inch				
Casing 273.0 mm (10 3/4") Permanent, DTH, heavy-duty														
Pilot bit	F	P273E/12.7-185-DHD380		90.0		12.7	185	294	245	mm			X	8092 4401 67
						0.50	7.28	11.57	9.65	inch				
Pilot bit	F	P273E/12.7-185-QL80		90.0		12.7	185	294	245	mm			X	8092 4401 68
						0.50	7.28	11.57	9.65	inch				
Pilot bit	F	P273E/12.7-193-SD8		90.0		12.7	185	294	245	mm			X	8092 4401 69
						0.50	7.28	11.57	9.65	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 273.0 mm (10 3/4")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
continuing from previous page													
Ring bit	L	P273E/12.7-185-ring bit	R2	31.6	12.7	185	294	245	mm		X		8092 4401 70
					0.50	7.28	11.57	9.65	inch				
Casing shoe	N	P273/12.7-185-casing shoe	same casing shoe as with Symmetrix	5.0	12.7	185	294	245	mm		X		8092 4009 18
					0.50	7.28	11.57	9.65	inch				
Casing shoe	N	P273/6.3-185-casing shoe	same casing shoe as with Symmetrix	5.0	6.3	185	294	245	mm		X		8092 4022 43
					0.25	7.28	11.57	9.65	inch				
Welding ring		P273/12.7-185-welding ring	R3	2.5	12.7	185	294	245	mm		X		8092 4023 45
					0.50	7.28	11.57	9.65	inch				
Casing 273.0 mm (10 3/4") Retrievable, DTH													
Pilot bit	E	R273E/12.7-226-DHD380		X	100.0	12.7	226	285	242	mm	X		8092 4401 71
						0.50	8.90	11.22	9.54	inch			
Pilot bit	E	R273E/12.7-226-QL80		X	100.0	12.7	226	285	242	mm	X		8092 4401 72
						0.50	8.90	11.22	9.54	inch			
Pilot bit	E	R273E/12.7-226-SD8		X	100.0	12.7	226	285	242	mm	X		8092 4401 73
						0.50	8.90	11.22	9.54	inch			
Ring bit set	K	R273E/12.7-226-ring bit set	R1	X	33.0	12.7	226	285	242	mm	X		8092 4401 74
						0.50	8.90	11.22	9.54	inch			

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 323.9 mm (12 3/4")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 323.9 mm (12 3/4") Permanent, DTH													
Pilot bit	A	P324E/14.2-240-DHD380		130.0	14.2	240	339	288	mm	X			8092 4401 75
					0.56	9.45	13.35	11.32	inch				
Pilot bit	A	P324E/14.2-240-QL80		130.0	14.2	240	339	288	mm	X			8092 4401 76
					0.56	9.45	13.35	11.32	inch				
Pilot bit	A	P324E/14.2-240-SD8		130.0	14.2	240	339	288	mm	X			8092 4401 77
					0.56	9.45	13.35	11.32	inch				
Ring bit	G	P324E/14.2-240-ring bit	R2	25.5	14.2	240	339	288	mm	X			8092 4401 78
					0.56	9.45	13.35	11.32	inch				
Casing shoe	M	P324/14.2-240-casing shoe	same casing shoe as with Symmetrix	6.0	14.2	240	339	288	mm	X			8092 4018 17
					0.56	9.45	13.35	11.32	inch				
Casing shoe	M	P324/12.7-240-casing shoe	same casing shoe as with Symmetrix	6.0	12.7	240	339	288	mm	X			8092 4022 45
					0.50	9.45	13.35	11.32	inch				
Casing shoe	M	P324/10-240-casing shoe	same casing shoe as with Symmetrix	6.0	10.0	240	339	288	mm	X			8092 4022 46
					0.39	9.45	13.35	11.32	inch				
Casing shoe	M	P324/8-240-casing shoe	same casing shoe as with Symmetrix	6.0	8.0	240	339	288	mm	X			8092 4022 47
					0.31	9.45	13.35	11.32	inch				
Welding ring		P324/14.2-240-welding ring	R3	3.0	14.2	240	339	288	mm	X			8092 4021 95
					0.56	9.45	13.35	11.32	inch				
Pilot bit	D	P324E/10-282-DHD380		130.0	X	10.0	282	350	298	mm	X		8092 4401 79
						0.39	11.10	13.78	11.73	inch			
Pilot bit	D	P324E/10-282-QL80		130.0	X	10.0	282	350	298	mm	X		8092 4401 80
						0.39	11.10	13.78	11.73	inch			
Pilot bit	D	P324E/10-282-SD8		130.0	X	10.0	282	350	298	mm	X		8092 4401 81
						0.39	11.10	13.78	11.73	inch			
Ring bit set	J	P324E/10-282-ring bit set	R1	29.3	X	10.0	282	350	298	mm	X		8092 4401 82
						0.39	11.10	13.78	11.73	inch			
Casing 323.9 mm (12 3/4") Permanent, DTH, heavy-duty													
Pilot bit	F	P324E/12.7-236-DHD380		130.0		12.7	236	346	295	mm	X		8092 4401 83
						0.50	9.29	13.62	11.61	inch			
Pilot bit	F	P324E/12.7-236-QL80		130.0		12.7	236	346	295	mm	X		8092 4401 84
						0.50	9.29	13.62	11.61	inch			

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 323.9 mm (12 3/4")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
continuing from previous page													
Pilot bit	F	P324E/12.7-236-SD8		130.0	12.7	236	346	295	mm		X		8092 4401 85
					0.50	9.29	13.62	11.61	inch				
Ring bit	L	P324E/12.7-236-ring bit	R2	48.4	12.7	236	346	295	mm		X		8092 4401 86
					0.50	9.29	13.62	11.61	inch				
Casing shoe	N	P324/12.7-236-casing shoe	same casing shoe as with Symmetrix	6.0	12.7	236	346	295	mm		X		8092 4009 22
					0.50	9.29	13.62	11.61	inch				
Casing shoe	N	P324/6.3-236-casing shoe	same casing shoe as with Symmetrix	6.0	6.3	236	346	295	mm		X		8092 4022 48
					0.25	9.29	13.62	11.61	inch				
Welding ring		P324/12.7-236-welding ring	R3	3.0	12.7	236	346	295	mm		X		8092 4021 96
					0.50	9.29	13.62	11.61	inch				
Casing 323.9 mm (12 3/4") Retrievable, DTH													
Pilot bit	E	R324E/12.7-273-DHD380	X	150.0	12.7	273	338	272	mm	X			8092 4401 87
					0.50	10.75	13.31	10.72	inch				
Pilot bit	E	R324E/12.7-273-QL80	X	150.0	12.7	273	338	272	mm	X			8092 4401 88
					0.50	10.75	13.31	10.72	inch				
Pilot bit	E	R324E/12.7-273-SD8	X	150.0	12.7	273	338	272	mm	X			8092 4401 89
					0.50	10.75	13.31	10.72	inch				
Ring bit set	K	R324E/12.7-273-ring bit set	R1	43.5	12.7	273	338	272	mm	X			8092 4401 90
					0.50	10.75	13.31	10.72	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 355.6 mm (14")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 355.6 mm (14") Permanent, DTH													
Pilot bit	D	P356E/12.7-310-QL120	X	210.0	12.7	310	377	326	mm	X			8092 4401 91
					0.50	12.20	14.84	12.83	inch				
Pilot bit	D	P356E/12.7-310-NUMA100	X	210.0	12.7	310	377	326	mm	X			8092 4401 92
					0.50	12.20	14.84	12.83	inch				
Ring bit set	J	P356E/12.7-310-ring bit set	R1	X	64.3	12.7	310	377	326	mm	X		8092 4401 93
						0.50	12.20	14.84	12.83	inch			
Casing 355.6 mm (14") Retrievable, DTH													
Pilot bit	E	R356E/16-305-DHD112	X	210.0	16.0	305	369	321	mm	X			8092 4401 94
					0.63	12.01	14.53	12.64	inch				
Pilot bit	E	R356E/16-305-QL120	X	210.0	16.0	305	369	321	mm	X			8092 4401 95
					0.63	12.01	14.53	12.64	inch				
Pilot bit	E	R356E/16-305-SD10	X	210.0	16.0	305	369	321	mm	X			8092 4401 96
					0.63	12.01	14.53	12.64	inch				
Pilot bit	E	R356E/16-305-SD12	X	210.0	16.0	305	369	321	mm	X			8092 4401 97
					0.63	12.01	14.53	12.64	inch				
Ring bit set	K	R356E/16-305-ring bit set	R1	X	64.0	16.0	305	369	321	mm	X		8092 4401 98
						0.63	12.01	14.53	12.64	inch			

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 404.4 mm (16")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 406.4 mm (16") Permanent, DTH													
Pilot bit	A	P406E/16-328-DHD112		240.0	16.0	328	420	370	mm	X			8092 4401 99
					0.63	12.91	16.54	14.57	inch				
Pilot bit	A	P406E/16-328-QL120		240.0	16.0	328	420	370	mm	X			8092 4402 00
					0.63	12.91	16.54	14.57	inch				
Pilot bit	A	P406E/16-328-SD12		240.0	16.0	328	420	370	mm	X			8092 4402 01
					0.63	12.91	16.54	14.57	inch				
Pilot bit	A	P406E/16-328-NUMA120		240.0	16.0	328	420	370	mm	X			8092 4402 02
					0.63	12.91	16.54	14.57	inch				
Ring bit	G	P406E/16-328-ring bit	R2	30.8	16.0	328	420	370	mm	X			8092 4402 03
					0.63	12.91	16.54	14.57	inch				
Casing shoe	M	P406/16-328-casing shoe	same casing shoe as with Symmetrix	7.0	16.0	328	420	370	mm	X			8092 4011 77
					0.63	12.91	16.54	14.57	inch				
Casing shoe	M	P406/12.7-328-casing shoe	same casing shoe as with Symmetrix	7.0	12.7	328	420	370	mm	X			8092 4022 52
					0.50	12.91	16.54	14.57	inch				
Casing shoe	M	P406/10-328-casing shoe	same casing shoe as with Symmetrix	7.0	10.0	328	420	370	mm	X			8092 4022 53
					0.39	12.91	16.54	14.57	inch				
Welding ring		P406/16-328-welding ring	R3	4.0	16.0	328	420	370	mm	X			8092 4021 97
					0.63	12.91	16.54	14.57	inch				
Pilot bit	D	P406E/12.7-364-DHD112		250.0	X	12.7	364	428	379	mm	X		8092 4402 04
					0.50	14.33	16.85	14.92	inch				
Pilot bit	D	P406E/12.7-364-QL120		250.0	X	12.7	364	428	379	mm	X		8092 4402 05
					0.50	14.33	16.85	14.92	inch				
Pilot bit	D	P406E/12.7-364-SD12		250.0	X	12.7	364	428	379	mm	X		8092 4402 06
					0.50	14.33	16.85	14.92	inch				
Ring bit set	J	P406E/12.7-364-ring bit set	R1	55.1	X	12.7	364	428	379	mm	X		8092 4402 07
					0.50	14.33	16.85	14.92	inch				
Casing 406.4 mm (16") Permanent, DTH, heavy-duty													
Pilot bit	F	P406E/10-313-DHD112		250.0		10.0	313	438	378	mm	X		8092 4402 08
					0.39	12.32	17.24	14.88	inch				
Pilot bit	F	P406E/10-313-QL120		250.0		10.0	313	438	378	mm	X		8092 4402 09
					0.39	12.32	17.24	14.88	inch				
Pilot bit	F	P406E/10-313-SD12		250.0		10.0	313	438	378	mm	X		8092 4402 10
					0.39	12.32	17.24	14.88	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 404.4 mm (16")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
continuing from previous page													
Pilot bit	F	P406E/10-313- NUMA120		250.0	10.0	313	438	378	mm		X		8092 4402 11
						0.39	12.32	17.24	14.88				
Ring bit	L	P406E/10-313-ring bit	R2	58.0	10.0	313	438	378	mm		X		8092 4402 12
						0.39	12.32	17.24	14.88				
Casing shoe	N	P406/10-313-cas- ing shoe	same casing shoe as with Symmetrix	8.0	10.0	313	438	378	mm		X		8092 4013 24
						0.39	12.32	17.24	14.88				
Welding ring		P406/10-313-weld- ing ring	R3	4.0	10.0	313	438	378	mm		X		8092 4021 98
						0.39	12.32	17.24	14.88				
Casing 406.4 mm (16") Retrievable, DTH													
Pilot bit	E	R406E/12.7-352- DHD112	X	260.0	12.7	352	420	370	mm	X			8092 4402 13
						0.50	13.86	16.54	14.57				
Pilot bit	E	R406E/12.7-352- QL120	X	260.0	12.7	352	420	370	mm	X			8092 4402 14
						0.50	13.86	16.54	14.57				
Pilot bit	E	R406E/12.7-352- SD12	X	260.0	12.7	352	420	370	mm	X			8092 4402 15
						0.50	13.86	16.54	14.57				
Ring bit set	K	R406E/12.7-352- ring bit set	R1	79.8	12.7	352	420	370	mm	X			8092 4402 16
						0.50	13.86	16.54	14.57				

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 457.2 mm (18")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 457.2 mm (18") Permanent, DTH													
Pilot bit	A	P457E/12.7-378-DHD112S		300.0	12.7	378	468	425	mm	X			8092 4402 17
					0.50	14.88	18.43	16.75	inch				
Pilot bit	A	P457E/12.7-378-QL120		300.0	12.7	378	468	425	mm	X			8092 4402 18
					0.50	14.88	18.43	16.75	inch				
Pilot bit	A	P457E/12.7-378-SD12		300.0	12.7	378	468	425	mm	X			8092 4402 19
					0.50	14.88	18.43	16.75	inch				
Ring bit	G	P457E/12.7-378-ring bit	R2	34.7	12.7	378	468	425	mm	X			8092 4402 20
					0.50	14.88	18.43	16.75	inch				
Casing shoe	M	P457/12.7-378-casing shoe	same casing shoe as with Symmetrix	9.0	12.7	378	468	425	mm	X			8092 4017 48
					0.50	14.88	18.43	16.75	inch				
Casing shoe	M	P457/10-378-casing shoe	same casing shoe as with Symmetrix	9.0	10.0	378	468	425	mm	X			8092 4022 63
					0.39	14.88	18.43	16.75	inch				
Welding ring		P457/12.7-378-welding ring	R3	5.0	12.7	378	468	425	mm	X			8092 4021 99
					0.50	14.88	18.43	16.75	inch				
Pilot bit	D	P457E/14.2-408-DHD112S		340.0	X	14.2	408	475	407	mm	X		8092 4402 21
						0.56	16.06	18.70	16.02	inch			
Pilot bit	D	P457E/14.2-408-QL120		340.0	X	14.2	408	475	407	mm	X		8092 4402 22
						0.56	16.06	18.70	16.02	inch			
Pilot bit	D	P457E/14.2-408-NUMA120S		340.0	X	14.2	408	475	407	mm	X		8092 4402 23
						0.56	16.06	18.70	16.02	inch			
Pilot bit	D	P457E/14.2-408-SD12		340.0	X	14.2	408	475	407	mm	X		8092 4402 24
						0.56	16.06	18.70	16.02	inch			
Ring bit set	J	P457E/14.2-408-ring bit set	R1	51.6	X	14.2	408	475	407	mm	X		8092 4402 25
						0.56	16.06	18.70	16.02	inch			
Casing 457.2 mm (18") Permanent, DTH, heavy-duty													
Pilot bit	F	P457E/10-364-DHD112		300.0		10.0	364	489	427	mm	X		8092 4402 26
						0.39	14.33	19.25	16.80	inch			
Pilot bit	F	P457E/10-364-QL120		300.0		10.0	364	489	427	mm	X		8092 4402 27
						0.39	14.33	19.25	16.80	inch			
Pilot bit	F	P457E/10-364-NUMA120S		300.0		10.0	364	489	427	mm	X		8092 4402 28
						0.39	14.33	19.25	16.80	inch			
Pilot bit	F	P457E/10-364-SD12		300.0		10.0	364	489	427	mm	X		8092 4402 29
						0.39	14.33	19.25	16.80	inch			

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 457.2 mm (18")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
continuing from previous page													
Ring bit	L	P457E/10-364-ring bit	R2	72.0	10.0	364	489	427	mm	X			8092 4402 30
					0.39	14.33	19.25	16.80	inch				
Casing shoe	N	P457/10-364-casing shoe	same casing shoe as with Symmetrix	9.0	10.0	364	489	427	mm	X			8092 4009 28
					0.39	14.33	19.25	16.80	inch				
Welding ring		P457/10-364-welding ring	R3	5.0	10.0	364	489	427	mm	X			8092 4022 00
					0.39	14.33	19.25	16.80	inch				
Casing 457.2 mm (18") Retrievable, DTH													
Pilot bit	E	R457E/14.2-398-DHD112S	X	350.0	14.2	398	473	420	mm	X			8092 4402 31
					0.56	15.67	18.62	16.54	inch				
Pilot bit	E	R457E/14.2-398-QL120	X	350.0	14.2	398	473	420	mm	X			8092 4402 32
					0.56	15.67	18.62	16.54	inch				
Pilot bit	E	R457E/14.2-398-SD12	X	350.0	14.2	398	473	420	mm	X			8092 4402 33
					0.56	15.67	18.62	16.54	inch				
Ring bit set	K	R457E/14.2-398-ring bit set	R1	96.0	14.2	398	473	420	mm	X			8092 4402 34
					0.56	15.67	18.62	16.54	inch				

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 508.0 mm (20")

Elemex overburden drilling system

FPart	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 508.0 mm (20") Permanent, DTH													
Pilot bit	A	P508E/16-423-DHD112S		350.0	16.0	423	520	471	mm	X			8092 4402 35
					0.63	16.65	20.47	18.54	inch				
Pilot bit	A	P508E/16-423-QL120		350.0	16.0	423	520	471	mm	X			8092 4402 36
					0.63	16.65	20.47	18.54	inch				
Pilot bit	A	P508E/16-423-QL200		350.0	16.0	423	520	471	mm	X			8092 4402 37
					0.63	16.65	20.47	18.54	inch				
Pilot bit	A	P508E/16-423-NUMA180		350.0	16.0	423	520	471	mm	X			8092 4402 38
					0.63	16.65	20.47	18.54	inch				
Pilot bit	A	P508E/16-423-SD18		350.0	16.0	423	520	471	mm	X			8092 4402 39
					0.63	16.65	20.47	18.54	inch				
Ring bit	G	P508E/16-423-ring bit	R2	42.6	16.0	423	520	471	mm	X			8092 4402 40
					0.63	16.65	20.47	18.54	inch				
Casing shoe	M	P508/16-423-casing shoe	same casing shoe as with Symmetrix	10.0	16.0	423	520	471	mm	X			8092 4022 78
					0.63	16.65	20.47	18.54	inch				
Casing shoe	M	P508/12.7-423-casing shoe	same casing shoe as with Symmetrix	10.0	12.7	423	520	471	mm	X			8092 4023 98
					0.50	16.65	20.47	18.54	inch				
Casing shoe	M	P508/10-423-casing shoe	same casing shoe as with Symmetrix	10.0	10.0	423	520	471	mm	X			8092 4022 79
					0.39	16.65	20.47	18.54	inch				
Welding ring		P508/16-423-welding ring	R3	6.0	16.0	423	520	471	mm	X			8092 4022 01
					0.63	16.65	20.47	18.54	inch				
Casing 508.0 mm (20") Permanent, DTH, heavy-duty													
Pilot bit	D	P508E/16-447-DHD112S	X	400.0	16.0	447	518	464	mm	X			8092 4402 41
					0.63	17.60	20.39	18.27	inch				
Pilot bit	D	P508E/16-447-QL120	X	400.0	16.0	447	518	464	mm	X			8092 4402 42
					0.63	17.60	20.39	18.27	inch				
Pilot bit	D	P508E/16-447-SD12	X	400.0	16.0	447	518	464	mm	X			8092 4402 43
					0.63	17.60	20.39	18.27	inch				
Ring bit set	J	P508E/16-447-ring bit set	R1	60.6	16.0	447	518	464	mm	X			8092 4402 44
					0.63	17.60	20.39	18.27	inch				
Casing 508.0 mm (20") Permanent, DTH, heavy-duty													
Pilot bit	F	P508E/12.7-417-DHD112S		390.0	12.7	417	540	478	mm		X		8092 4402 45
					0.50	16.42	21.26	18.82	inch				
Pilot bit	F	P508E/12.7-417-QL120		390.0	12.7	417	540	478	mm		X		8092 4402 46
					0.50	16.42	21.26	18.82	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 508.0 mm (20")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
continuing from previous page													
Pilot bit	F	P508E/12.7-417-SD12		390.0	12.7	417	540	478	mm		X		8092 4402 47
					0.50	16.42	21.26	18.82	inch				
Ring bit	L	P508E/12.7-417-ring bit	R2	87.8	12.7	417	540	478	mm		X		8092 4402 48
					0.50	16.42	21.26	18.82	inch				
Casing shoe	N	P508/12.7-417-casing shoe	same casing shoe as with Symmetrix	12.0	12.7	417	540	478	mm		X		8092 4009 29
					0.50	16.42	21.26	18.82	inch				
Casing shoe	N	P508/10-417-casing shoe	same casing shoe as with Symmetrix	12.0	10.0	417	540	478	mm		X		8092 4022 84
					0.39	16.42	21.26	18.82	inch				
Welding ring		P508/12.7-417-welding ring	R3	6.0	12.7	417	540	478	mm		X		8092 4022 02
					0.50	16.42	21.26	18.82	inch				
Casing 508.0 mm (20") Retrievable, DTH													
Pilot bit	E	R508E/14.2-446-DHD112S		X	420.0	14.2	446	524	445	mm	X		8092 4402 49
						0.56	17.56	20.63	17.52	inch			
Pilot bit	E	R508E/14.2-446-QL120		X	420.0	14.2	446	524	445	mm	X		8092 4402 50
						0.56	17.56	20.63	17.52	inch			
Pilot bit	E	R508E/14.2-446-SD12		X	420.0	14.2	446	524	445	mm	X		8092 4402 51
						0.56	17.56	20.63	17.52	inch			
Ring bit set	K	R508E/14.2-446-ring bit set	R1	X	109.5	14.2	446	524	445	mm	X		8092 4402 52
						0.56	17.56	20.63	17.52	inch			

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 558.8 mm (22")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 558.8 mm (22") Permanent, DTH													
Pilot bit	A	P559E/12.7-477-QL200		450.0	12.7	477	570	527	mm	X			8092 4402 53
					0.50	18.78	22.44	20.75	inch				
Pilot bit	A	P559E/12.7-477-NUA180		450.0	12.7	477	570	527	mm	X			8092 4402 54
					0.50	18.78	22.44	20.75	inch				
Pilot bit	A	P559E/12.7-477-SD18		450.0	12.7	477	570	527	mm	X			8092 4402 55
					0.50	18.78	22.44	20.75	inch				
Ring bit	G	P559E/12.7-477-ring bit	R2	46.0	12.7	477	570	527	mm	X			8092 4402 56
					0.50	18.78	22.44	20.75	inch				
Casing shoe	M	P559/12.7-477-casing shoe	same casing shoe as with Symmetrix	14.0	12.7	477	570	527	mm	X			8092 4011 78
					0.50	18.78	22.44	20.75	inch				
Welding ring		P559/12.7-477-welding ring	R3	7.0	12.7	477	570	527	mm	X			8092 4022 03
					0.50	18.78	22.44	20.75	inch				
Casing 558.8 mm (22") Retrievable, DTH													
Pilot bit	E	R559E/16-493-QL200		500.0	16.0	493	575	515	mm	X			8092 4402 57
					0.63	19.41	22.64	20.27	inch				
Pilot bit	E	R559E/16-493-SD18		500.0	16.0	493	575	515	mm	X			8092 4402 58
					0.63	19.41	22.64	20.27	inch				
Ring bit set	K	R559E/16-493-ring bit set	R1	121.0	16.0	493	575	515	mm	X			8092 4402 59
					0.63	19.41	22.64	20.27	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 609.6 mm (24")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness		Ring bit		Pilot bit	Unit	Main applications			Part number
					Inner Ø	Outer Ø	Outer Ø	Foundation	Horizontal		Wells			
Casing 609.6 mm (24") Permanent, DTH														
Pilot bit	A	P610E/16-521-QL200		550.0	16.0	521	622	572	mm	X			8092 4402 60	
					0.63	20.51	24.49	22.50	inch					
Pilot bit	A	P610E/16-521-NUMA180		550.0	16.0	521	622	572	mm	X			8092 4402 61	
					0.63	20.51	24.49	22.50	inch					
Pilot bit	A	P610E/16-521-SD18		550.0	16.0	521	622	572	mm	X			8092 4402 62	
					0.63	20.51	24.49	22.50	inch					
Ring bit	G	P610E/16-521-ring bit	R2	54.0	16.0	521	622	572	mm	X			8092 4402 63	
					0.63	20.51	24.49	22.50	inch					
Casing shoe	M	P610/16-521-casing shoe	same casing shoe as with Symmetrix	13.0	16.0	521	622	572	mm	X			8092 4022 62	
					0.63	20.51	24.49	22.50	inch					
Casing shoe	M	P610/14.2-521-casing shoe	same casing shoe as with Symmetrix	13.0	14.2	521	622	572	mm	X			8092 4013 70	
					0.56	20.51	24.49	22.50	inch					
Casing shoe	M	P610/12.7-521-casing shoe	same casing shoe as with Symmetrix	13.0	12.7	521	622	572	mm	X			8092 4024 00	
					0.50	20.51	24.49	22.50	inch					
Welding ring		P610/16-521-welding ring	R3	7.0	16.0	521	622	572	mm	X			8092 4023 89	
					0.63	20.51	24.49	22.50	inch					
Pilot bit	D	P610E/16-553-QL200		550.0	16.0	553	628	552	mm	X			8092 4402 64	
					0.63	21.77	24.72	21.72	inch					
Pilot bit	D	P610E/16-553-NUMA180		550.0	16.0	553	628	552	mm	X			8092 4402 65	
					0.63	21.77	24.72	21.72	inch					
Pilot bit	D	P610E/16-553-SD18		550.0	16.0	553	628	552	mm	X			8092 4402 66	
					0.63	21.77	24.72	21.72	inch					
Ring bit set	J	P610E/16-553-ring bit set	R1	71.0	16.0	553	628	552	mm	X			8092 4402 67	
					0.63	21.77	24.72	21.72	inch					
Casing 609.6 mm (24") Permanent, DTH, heavy-duty														
Pilot bit	F	P610E/12.7-515-DHD112S		550.0	12.7	515	640	578	mm		X		8092 4402 68	
					0.50	20.28	25.20	22.76	inch					
Pilot bit	F	P610E/12.7-515-QL200		550.0	12.7	515	640	578	mm		X		8092 4402 69	
					0.50	20.28	25.20	22.76	inch					
Pilot bit	F	P610E/12.7-515-NUMA180		550.0	12.7	515	640	578	mm		X		8092 4402 70	
					0.50	20.28	25.20	22.76	inch					
Pilot bit	F	P610E/12.7-515-SD18		550.0	12.7	515	640	578	mm		X		8092 4402 71	
					0.50	20.28	25.20	22.76	inch					

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 609.6 mm (24")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
continuing from previous page													
Ring bit	L	P610E/12.7-515-ring bit	R2		132.0	12.7	515	640	578	mm	X		8092 4402 72
						0.50	20.28	25.20	22.76	inch			
Casing shoe	N	P610/10-515-casing shoe	same casing shoe as with Symmetrix		15.0	10.0	515	640	578	mm	X		8092 4009 32
						0.39	20.28	25.20	22.76	inch			
Welding ring		P610/12.7-515-welding ring	R3		7.0	12.7	515	640	578	mm	X		8092 4022 05
						0.50	20.28	25.20	22.76	inch			
Casing 609.6 mm (24") Retrievable, DTH													
Pilot bit	E	R610E/12.7-555-QL200		X	550.0	12.7	555	637	553	mm	X		8092 4402 73
						0.50	21.85	25.08	21.77	inch			
Pilot bit	E	R610E/12.7-555-NUMA180		X	550.0	12.7	555	637	553	mm	X		8092 4402 74
						0.50	21.85	25.08	21.77	inch			
Pilot bit	E	R610E/12.7-555-SD18		X	550.0	12.7	555	637	553	mm	X		8092 4402 75
						0.50	21.85	25.08	21.77	inch			
Ring bit set	K	R610E/12.7-555-ring bit set	R1	X	132.0	12.7	555	637	553	mm	X		8092 4402 76
						0.50	21.85	25.08	21.77	inch			

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 660.4 mm (26")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 660.4 mm (26") Permanent, DTH													
Pilot bit	A	P660E/16-567-QL200		620.0	16.0	567	680	622	mm	X			8092 4402 77
					0.63	22.32	26.77	24.49	inch				
Ring bit	G	P660E/16-567-ring bit	R2	82.0	16.0	567	680	622	mm	X			8092 4402 78
					0.63	22.32	26.77	24.49	inch				
Casing shoe	M	P660/16-567-casing shoe	same casing shoe as with Symmetrix	18.0	16.0	567	680	622	mm	X			8092 4013 11
					0.63	22.32	26.77	24.49	inch				
Welding ring		P660/16-567-welding ring	R3	8.0	16.0	567	680	622	mm	X			8092 4023 53
					0.63	22.32	26.77	24.49	inch				
Casing 660.4 mm (26") Permanent, DTH, heavy-duty													
Pilot bit	F	P660E/16-554-QL200		600.0	16.0	554	691	618	mm		X		8092 4402 79
					0.63	21.81	27.20	24.33	inch				
Pilot bit	F	P660E/16-554-NUMA180		600.0	16.0	554	691	618	mm		X		8092 4402 80
					0.63	21.81	27.20	24.33	inch				
Pilot bit	F	P660E/16-554-SD18		600.0	16.0	554	691	618	mm		X		8092 4402 81
					0.63	21.81	27.20	24.33	inch				
Ring bit	L	P660E/16-554-ring bit	R2	141.0	16.0	554	691	618	mm		X		8092 4402 82
					0.63	21.81	27.20	24.33	inch				
Casing shoe	N	P660/16-554-casing shoe	same casing shoe as with Symmetrix	18.0	16.0	554	691	618	mm		X		8092 4024 06
					0.63	21.81	27.20	24.33	inch				
Welding ring		P660/16-554-welding ring	R3	8.0	16.0	554	691	618	mm		X		8092 4022 06
					0.63	21.81	27.20	24.33	inch				
Casing 660.4 mm (26") Retrievable, DTH													
Pilot bit	E	R660E/16-592-SD18		650.0	16.0	592	678	615	mm	X			8092 4402 83
					0.63	23.31	26.69	24.21	inch				
Pilot bit	E	R660E/16-592-QL200		650.0	16.0	592	678	615	mm	X			8092 4402 84
					0.63	23.31	26.69	24.21	inch				
Pilot bit	E	R660E/16-592-NUMA180		650.0	16.0	592	678	615	mm	X			8092 4402 85
					0.63	23.31	26.69	24.21	inch				
Ring bit set	K	R660E/16-592-ring bit set	R1	144.0	16.0	592	678	615	mm	X			8092 4402 86
					0.63	23.31	26.69	24.21	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 711.2 mm (28")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 711.2 mm (28") Permanent, DTH													
Pilot bit	A	P711E/16-614-QL200S		690.0	16.0	614	729	670	mm	X			8092 4402 87
					0.63	24.17	28.70	26.39	inch				
Pilot bit	A	P711E/16-614-NUMA180		690.0	16.0	614	729	670	mm	X			8092 4402 88
					0.63	24.17	28.70	26.39	inch				
Pilot bit	A	P711E/16-614-SD18		690.0	16.0	614	729	670	mm	X			8092 4402 89
					0.63	24.17	28.70	26.39	inch				
Ring bit	G	P711E/16-614-ring bit	R2	96.0	16.0	614	729	670	mm	X			8092 4402 90
					0.63	24.17	28.70	26.39	inch				
Casing shoe	M	P711/16-614-casing shoe	same casing shoe as with Symmetrix	20.0	16.0	614	729	670	mm	X			8092 4023 91
					0.63	24.17	28.70	26.39	inch				
Casing shoe	M	P711/12.7-614-casing shoe	same casing shoe as with Symmetrix	20.0	12.7	614	729	670	mm	X			8092 4023 57
					0.50	24.17	28.70	26.39	inch				
Welding ring		P711/16-614-welding ring	R3	10.0	16.0	614	729	670	mm	X			8092 4023 58
					0.63	24.17	28.70	26.39	inch				
Pilot bit	D	P711E/16-641-QL200		690.0	16.0	641	732	667	mm	X			8092 4402 91
					0.63	25.24	28.83	26.26	inch				
Ring bit set	J	P711E/16-641-ring bit set	R1	147.0	16.0	641	732	667	mm	X			8092 4402 92
					0.63	25.24	28.83	26.26	inch				
Casing 711.2 mm (28") Permanent, DTH, heavy-duty													
Pilot bit	F	P711E/16-605-QL200S		780.0	16.0	605	742	669	mm		X		8092 4402 93
					0.63	23.82	29.21	26.35	inch				
Ring bit	L	P711E/16-605-ring bit	R2	160.0	16.0	605	742	669	mm		X		8092 4402 94
					0.63	23.82	29.21	26.35	inch				
Casing shoe	N	P711/16-605-casing shoe	same casing shoe as with Symmetrix	20.0	16.0	605	742	669	mm		X		8092 4024 08
					0.63	23.82	29.21	26.35	inch				
Welding ring		P711/16-605-welding ring	R3	10.0	16.0	605	742	669	mm		X		8092 4022 07
					0.63	23.82	29.21	26.35	inch				
Casing 711.2 mm (28") Retrievable, DTH													
Pilot bit	E	R711E/16-641-QL200S		780.0	16.0	641	731	666	mm	X			8092 4402 95
					0.63	25.24	28.78	26.21	inch				
Ring bit set	K	R711E/16-641-ring bit set	R1	165.0	16.0	641	731	666	mm	X			8092 4402 96
					0.63	25.24	28.78	26.21	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 762.0 mm (30")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness		Ring bit		Pilot bit	Unit	Main applications			Part number
					Inner Ø	Outer Ø	Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 762.0 mm (30") Permanent, DTH														
Pilot bit	A	P762E/16-669-QL200S		900.0	16.0	669	781	724	mm	X				8092 4402 97
					0.63	26.34	30.75	28.50	inch					
Ring bit	G	P762E/16-669-ring bit	R2	107.0	16.0	669	781	724	mm	X				8092 4402 98
					0.63	26.34	30.75	28.50	inch					
Casing shoe	M	P762/16-669-casing shoe	same casing shoe as with Symmetrix	25.0	16.0	669	781	724	mm	X				8092 4023 06
					0.63	26.34	30.75	28.50	inch					
Welding ring		P762/16-669-welding ring	R3	13.0	16.0	669	781	724	mm	X				8092 4022 08
					0.63	26.34	30.75	28.50	inch					
Casing 762.0 mm (30") Retrievable, DTH														
Pilot bit	E	R762E/16-692-QL200S		900.0	X	16.0	692	781	716	mm	X			8092 4402 99
						0.63	27.24	30.75	28.19	inch				
Ring bit set	K	R762E/16-692-ring bit set	R1	186.0	X	16.0	692	781	716	mm	X			8092 4403 00
						0.63	27.24	30.75	28.19	inch				

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 812.8 mm (32")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 812.8 mm (32") Permanent, DTH													
Pilot bit	A	P813E/16-709-QL200S		1000.0	16.0	709	830	769	mm	X			8092 4403 01
					0.63	27.91	32.68	30.28	inch				
Ring bit	G	P813E/16-709-ring bit	R2	124.0	16.0	709	830	769	mm	X			8092 4403 02
					0.63	27.91	32.68	30.28	inch				
Casing shoe	M	P813/16-709-casing shoe	same casing shoe as with Symmetrix	30.0	16.0	709	830	769	mm	X			8092 4023 61
					0.63	27.91	32.68	30.28	inch				
Casing shoe	M	P813/12.7-709-casing shoe	same casing shoe as with Symmetrix	30.0	12.7	709	830	769	mm	X			8092 4023 62
					0.50	27.91	32.68	30.28	inch				
Welding ring		P813/16-709-welding ring	R3	15.0	16.0	709	830	769	mm	X			8092 4023 63
					0.63	27.91	32.68	30.28	inch				
Pilot bit	D	P813E/16-738-QL200		1000.0	X	16.0	738	838	763	mm	X		8092 4403 03
						0.63	29.06	32.98	30.03	inch			
Ring bit set	J	P813E/16-738-ring bit set	R1	169.0	X	16.0	738	838	763	mm	X		8092 4403 04
						0.63	29.06	32.98	30.03	inch			
Casing 812.8 mm (32") Permanent, DTH, heavy-duty													
Pilot bit	F	P813E/16-710-QL200S		1000.0		16.0	710	841	771	mm	X		8092 4403 05
						0.63	27.95	33.12	30.35	inch			
Ring bit	L	P813E/16-710-ring bit	R2	182.0		16.0	710	841	771	mm	X		8092 4403 06
						0.63	27.95	33.12	30.35	inch			
Casing shoe	N	P813/16-710-casing shoe	same casing shoe as with Symmetrix	30.0		16.0	710	841	771	mm	X		8092 4013 52
						0.63	27.95	33.12	30.35	inch			
Welding ring		P813/16-710-welding ring	R3	15.0		16.0	710	841	771	mm	X		8092 4022 09
						0.63	27.95	33.12	30.35	inch			
Casing 812.8 mm (32") Retrievable, DTH													
Pilot bit	E	R813E/16-736-QL200S		1100.0	X	16.0	736	834	735	mm	X		8092 4403 07
						0.63	28.98	32.83	28.94	inch			
Ring bit set	K	R813E/16-736-ring bit set	R1	201.0	X	16.0	736	834	735	mm	X		8092 4403 08
						0.63	28.98	32.83	28.94	inch			

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

Casing size 863.2 mm (34"), 914.4 mm (36")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 863.2 mm (34") Retrievable, DTH													
Pilot bit	E	R863E/16-792-QL200S	X	1250.0	14.2	790	882	790	mm	X			8092 4403 09
					0.56	31.10	34.72	31.10	inch				
Ring bit set	K	R863E/16-792-ring bit set	R1	X	210.0	14.2	790	882	790	mm	X		8092 4403 10
						0.56	31.10	34.72	31.10	inch			
Casing 914.4 mm (36") Permanent, DTH													
Pilot bit	A	P914E/16-818-QL200S			1400.0	16.0	818	932	851	mm	X		8092 4403 11
						0.63	32.20	36.69	33.50	inch			
Ring bit	G	P914E/16-818-ring bit	R2		143.0	16.0	818	932	851	mm	X		8092 4403 12
						0.63	32.20	36.69	33.50	inch			
Casing shoe	M	P914/16-818-casing shoe	same casing shoe as with Symmetrix		40.0	16.0	818	932	851	mm	X		8092 4013 17
						0.63	32.20	36.69	33.50	inch			
Casing shoe	M	P914/14.2-818-casing shoe	same casing shoe as with Symmetrix		40.0	14.2	818	932	851	mm	X		8092 4023 09
						0.56	32.20	36.69	33.50	inch			
Welding ring		P914/16-818-welding ring	R3		20.0	16.0	818	932	851	mm	X		8092 4022 10
						0.63	32.20	36.69	33.50	inch			
Pilot bit	D	P914E/16-838-QL200S	X		1400.0	16.0	838	947	864	mm	X		8092 4403 13
						0.63	32.99	37.30	34.03	inch			
Ring bit set	J	P914E/16-838-ring bit set	R1	X	204.0	16.0	838	947	864	mm	X		8092 4403 14
						0.63	32.99	37.30	34.03	inch			
Casing 914.4 mm (36") Permanent, DTH, heavy-duty													
Pilot bit	F	P914E/16-811-QL200S			1400.0	16.0	811	943	872	mm	X		8092 4403 15
						0.63	31.93	37.13	34.33	inch			
Ring bit	L	P914E/16-811-ring bit	R2		233.0	16.0	811	943	872	mm	X		8092 4403 16
						0.63	31.93	37.13	34.33	inch			
Casing shoe	N	P914/16-811-casing shoe	same casing shoe as with Symmetrix		40.0	16.0	811	943	872	mm	X		8092 4013 53
						0.63	31.93	37.13	34.33	inch			
Welding ring		P914/16-811-welding ring	R3		20.0	16.0	811	943	872	mm	X		8092 4022 11
						0.63	31.93	37.13	34.33	inch			
Casing 914.4 mm (36") Retrievable, DTH													
Pilot bit	E	R914E/16-837-QL200S	X		1500.0	16.0	837	935	864	mm	X		8092 4403 17
						0.63	32.95	36.81	34.02	inch			
Ring bit set	K	R914E/16-837-ring bit set	R1	X	241.0	16.0	837	935	864	mm	X		8092 4403 18
						0.63	32.95	36.81	34.02	inch			

^{R1} integrated ring bit and casing shoe

^{R2} solitary ring bit

^{R3} optional for connecting ring bit and casing shoe

Casing size 1016.0 mm (40")

Elemex overburden drilling system

Part	Designation	Remark	Large pass-through inner Ø	Weight (kg)	Casing wall max. thickness	Ring bit		Pilot bit	Unit	Main applications			Part number
						Inner Ø	Outer Ø	Outer Ø		Foundation	Horizontal	Wells	
Casing 1016.0 mm (40") Permanent, DTH													
Pilot bit	A	P1016E/16-913-QL300		2000.0	16.0	913	1033	973	mm	X			8092 4403 19
					0.63	35.94	40.67	38.31	inch				
Ring bit	G	P1016E/16-913-ring bit	R2	164.0	16.0	913	1033	973	mm	X			8092 4403 20
					0.63	35.94	40.67	38.31	inch				
Casing shoe	M	P1016/16-913-casing shoe	same casing shoe as with Symmetrix	50.0	16.0	913	1033	973	mm	X			8092 4023 11
					0.63	35.94	40.67	38.31	inch				
Casing shoe	M	P1016/14.2-913-casing shoe	same casing shoe as with Symmetrix	50.0	14.2	913	1033	973	mm	X			8092 4023 12
					0.56	35.94	40.67	38.31	inch				
Welding ring		P1016/16-913-welding ring	R3	25.0	16.0	913	1033	973	mm	X			8092 4022 12
					0.63	35.94	40.67	38.31	inch				
Casing 1016.0 mm (40") Permanent, DTH, heavy-duty													
Pilot bit	F	P1016E/16-910-QL300		2100.0	16.0	910	1049	976	mm	X			8092 4403 21
					0.63	35.83	41.31	38.43	inch				
Ring bit	L	P1016E/16-910-ring bit	R2	267.0	16.0	910	1049	976	mm	X			8092 4403 22
					0.63	35.83	41.31	38.43	inch				
Casing shoe	N	P1016/16-910-casing shoe	same casing shoe as with Symmetrix	50.0	16.0	910	1049	976	mm	X			8092 4023 15
					0.63	35.83	41.31	38.43	inch				
Welding ring		P1016/16-910-welding ring	R3	25.0	16.0	910	1049	976	mm	X			8092 4022 13
					0.63	35.83	41.31	38.43	inch				

R1 integrated ring bit and casing shoe

R2 solitary ring bit

R3 optional for connecting ring bit and casing shoe

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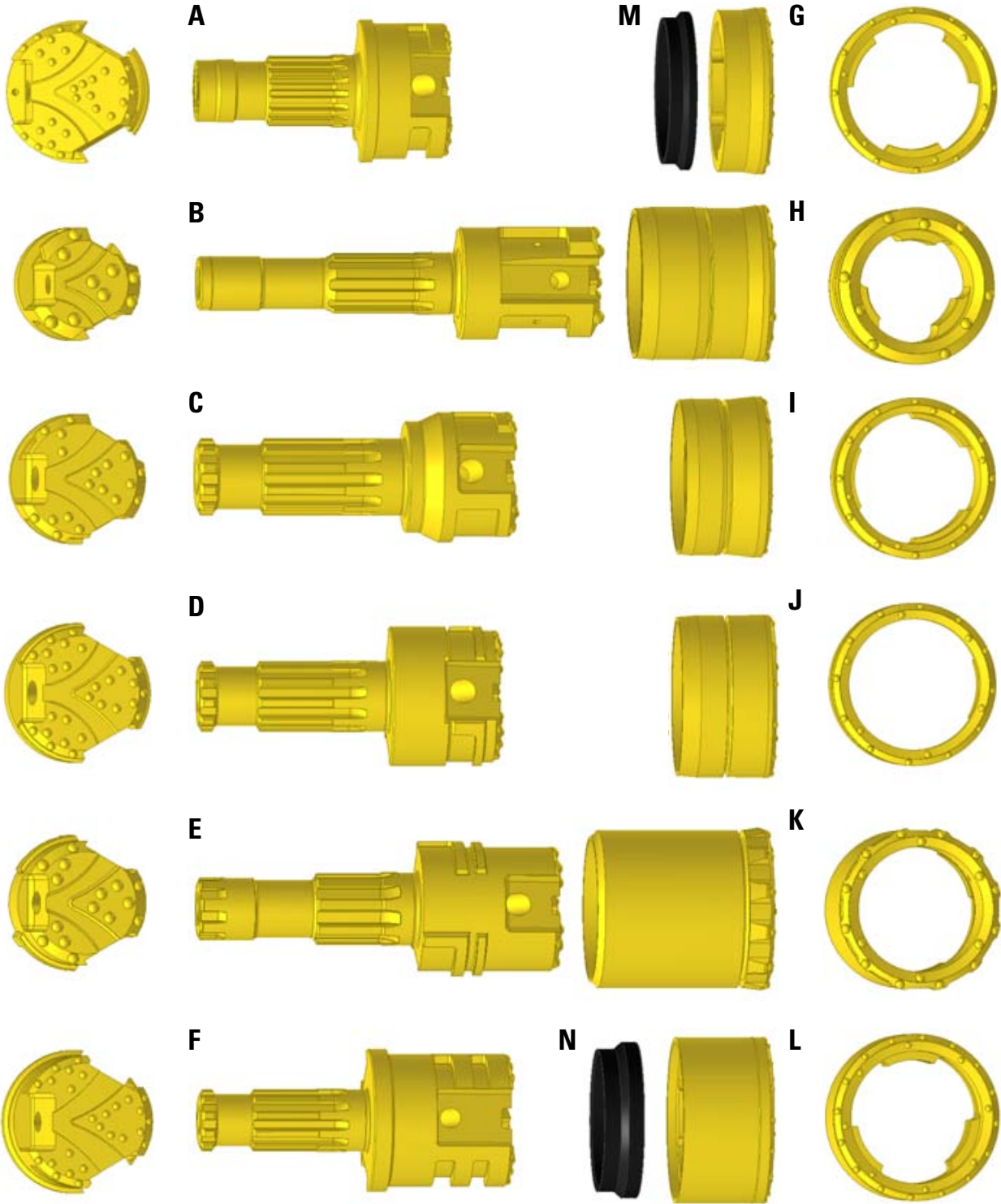
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