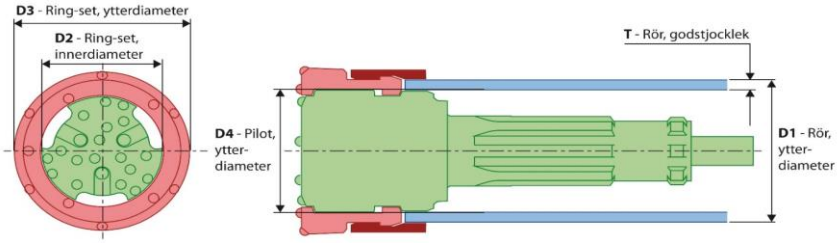
Mitsubishi drilling systems

L - system

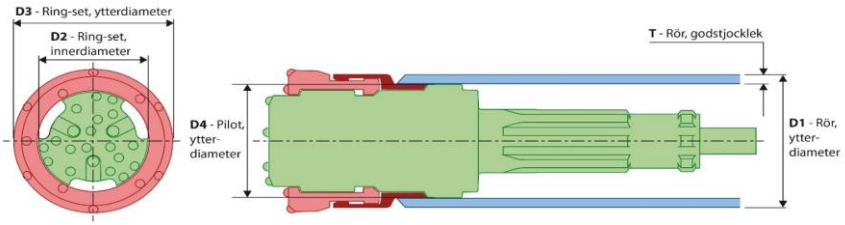
The L-system has been developed, especially to meet the technical demands required for the RD-pile. In opposite to the A-system, there is no load bearing welding on the L-system, this hence the load of the casing rests directly on the drill bit ring of the ring set. As the ring set has a higher steel quality and broader dimension than the casing, it´s guaranteed that the ring will last longer than the rest of the pile. Furthermore, the L-system is adapted for the couplings of threaded casings.



Casing dimension		Type	Ring-set		Pilot bit		Hammer
Outide diameter (**D1**)	Wall thickness (**T**)	Model	Inside diam. - reaming (**D2**)	Outside diam. (**D3**)	Outside diam. (**D4**)	Shaft	Size
Rördimension ø114,3 mm							
114,3 mm	5,6 - 8 mm	086 L	86 mm	140 mm	96 mm	DHD3,5	3,5"
114,3 mm	5,6 mm	092 L	92 mm	137 mm	101,5 mm	DHD3,5	3,5"
Rördimension ø139,7 mm							
139,7 mm	5,6 - 10 mm	106 L	106 mm	168 mm	118 mm	DHD340	4"
139,7 mm	5,6 mm	117 L	117 mm	161 mm	127 mm	DHD340	4"
Rördimension ø168,3 mm							
168,3 mm	5,6 - 12,5 mm	123 L	123 mm	200 mm	138 mm	DHD350	5"
168,3 mm	5,6 mm	142 L	142 mm	189 mm	155 mm	DHD350	5"
Rördimension ø193,7 mm							
193,7 mm	5,6 - 12,5 mm	167 L	167 mm	215 mm	179 mm	DHD360	6"
Rördimension ø219,1 mm							
219,1 mm	6,3 - 12,5 mm	177 L	177 mm	254 mm	189 mm	DHD360	6"
219,1 mm	6,3 mm	192 L	192 mm	242 mm	204 mm	DHD360	6"
Rördimension ø273,0 mm							
273,0 mm	8 - 12,5 mm	232 L	232 mm	297 mm	245 mm	DHD380	8"
273,0 mm*	8 mm	242 L	242 mm	284 mm	255 mm	DHD380	8"
Rördimension ø323,9 mm							
323,9 mm	12,5 mm	279 L	279 mm	364 mm	296 mm	DHD380	8"
Rördimension ø406,4 mm							
406,4 mm***	16 mm	360 L	360 mm	458 mm		DHD112	12"

A - system - Heavy duty

The A-system is Mitsubishis standard ring-bit system. You can identify the A-system by how the casing shoes is inserted into the casing and that the pilot bits have two impact shoulders, one that transfer strokes to the casing shoe, one to the drilling ring. These double impact shoulders enables the A-system to drill further than other ring-bit systems, and is the reason why the system is suitable for tougher drilling conditions. The A-system is not intended for drilling threaded casings, however - in many cases this works very well, anyway.

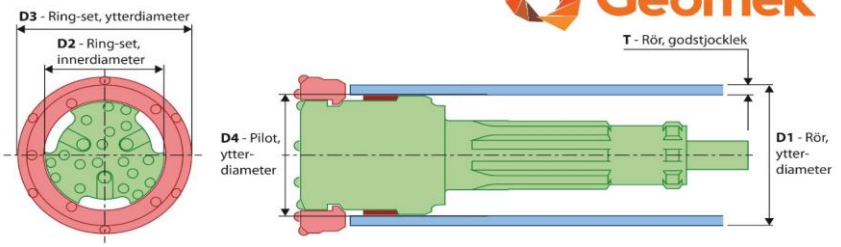


Casing dimension		Type	Ring-set		Pilot bit		Hammer
Outide diameter (**D1**)	Wall thickness (**T**)	Model	Inside diam. - reaming (**D2**)	Outside diam. (**D3**)	Outside diam. (**D4**)	Shaft	Size
Rördimension ø139,7 mm							
139,7 mm	10 mm*	097 A	97 mm	150 mm	117,5 mm	DHD340	4"
Rördimension ø168,3 mm							
168,3 mm	12,5 mm*	118 A	118 mm	178 mm	140 mm	DHD350	5"
Rördimension ø193,7 mm							
193,7 mm	12,5 mm*	143 A	143 mm	206 mm	166 mm	DHD360	6"
Rördimension ø219,1 mm							
219,1 mm	12,5 mm*	170 A	170 mm	231 mm	191 mm	DHD360	6"
Rördimension ø273,0 mm							
273,0 mm	12,5 mm*	219 A	219 mm	284 mm	255 mm	DHD380	8"
Rördimension ø323,9 mm							
323,9 mm	12,5 mm	273 A	273 mm	338 mm	296 mm	DHD380	8"
Rördimension ø406,4 mm							
406,4 mm	12,5 mm*	354 A	354 mm	420 mm	378 mm	DHD112	12"
Rördimension ø508,0 mm							
508,0 mm	16 mm*	445 B	445 mm	521 mm	473 mm	DHD112	12"
Rördimension ø609,6 mm							
609,6 mm	16 mm*	545 A	545 mm	625 mm	574 mm	Numa/QL/SD	18"
Rördimension ø711,0 mm							
711,0 mm	16 mm*	630 A	630 mm	726 mm	654 mm	Numa/QL/SD	18"

MITSUBISHI MATERIALS

Eco - system

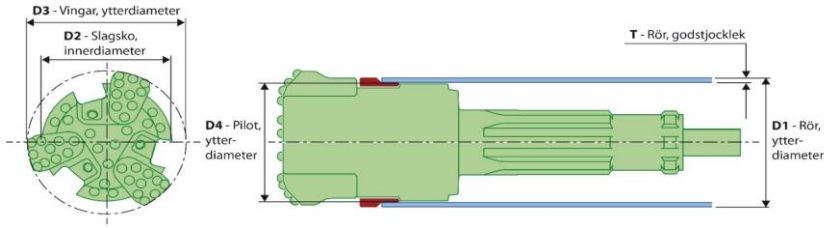
The Eco-system is in short words a budget version of the L-system. It does the same job as the L-system although, intended for shorter casings and easier conditions. By separating the casing shoe from the drilling ring-bit it is easier to produce, hence the lower price. With the Eco-system you cannot do all that you can do with our other ring-systems, but enough for many projects.



Casing dimension		Type	Ring-set		Pilot bit		Hammer
Outide diameter (**D1**)	Wall thickness (**T**)	Model	Inside diam. - reaming (**D2**)	Outside diam. (**D3**)	Outside diam. (**D4**)	Shaft	Size
Rördimension ø114,3 mm							
114,3 mm	8 mm	072 Eco	72 mm	135 mm	95,5 mm	DHD3,5	3,5"
Rördimension ø139,7 mm							
139,7 mm	10 mm	097 Eco	97 mm	158 mm	117,5 mm	DHD340	4"
Rördimension ø168,3 mm							
168,3 mm	12,5 mm	120 Eco	120 mm	188 mm	141 mm	DHD350	5"
Rördimension ø219,1 mm							
219,1 mm	12,5 mm	170 Eco	170 mm	239 mm	192 mm	DHD360	6"

Wing - system

The Wing - system, SMB-G where developed for drilling pile wall, however often used for RD-piling as well. The system contains of a pilot bit with foldable wings and a casing shoe without ring-bit, this means that the wing system often is a economic alternative to regular ring-systems. This drilling system has proven itself by handling rougher drilling conditions than originally intended for.



Casing dimension		Type	Casing shue	Wings	Pilot bit		Hammer
Outide diameter (**D1**)	Wall thickness (**T**)	Model	Inside diam. - reaming (**D2**)	Outside diam. (**D3**)	Outside diam. (**D4**)	Shaft	Size
Rördimension ø168,3 mm							
168,3 mm**	12,5 mm	133 Ving	133 mm	189 mm	141,5 mm	DHD350	5"
Rördimension ø219,1 mm							
219,1 mm**	12,5 mm	177 Ving	177 mm	245 mm	188 mm	DHD360	6"
Rördimension ø273,0 mm							
273,0 mm	12,5 mm	227 Ving	227 mm	328 mm	243 mm	DHD380	8"
Rördimension ø323,9 mm							
323,9 mm	12,5 mm	277 Ving	277 mm	379 mm	294 mm	DHD380/SD10	8/10"
Rördimension ø406,4 mm							
406,4 mm***	12,5 mm	356 Ving	356 mm	461 mm	377 mm	Numa12	12"

For other dimensions, please contact us.

* Not inended for threaded casings
** Not intended for pilewall
*** Only avalible by special order