

SPIRAL FLUSH®



HORIZONTAL RING BIT SYSTEMS

HORIZONTAL RING BIT SYSTEMS are made for horizontal drilling of utility lines. High casing friction calls for heavy duty ring bit system. Drilling under roads and railways requires advanced air control. Due to strong design the ring bit system can be used several times.



Main **applications** for horizontal systems are:

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

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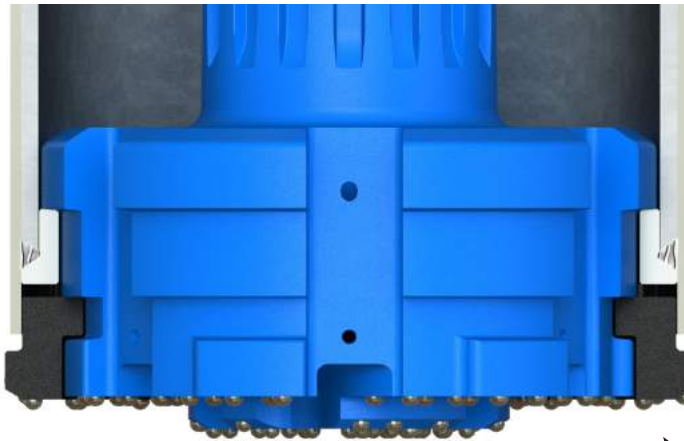
HORIZONTAL SYSTEM DESIGN FEATURES

Extra strong casing shoe

Extra large impact
shoulders for multi use

Slot for guide sleeve to prevent
air escape, keep drilling direc-
tion and integration.
(sleeve not included)

Ring bit protects the
pilot gauge buttons



System is available from 219 to 1524 mm casings and for all major shank designs.

System product code	Casing OD		Max wall		Ring bit ID		Ring bit OD		Pilot bit OD	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
HZ219-12.7-138	219,1	8.625"	12,7	0.5"	138	5.433"	237	9.331"	191	7.520"
HZ273-12.7-170	273	10.75"	12,7	0.5"	170	6.693"	285	11.220"	245	9.646"
HZ323-12.7-215	323,9	12.75"	12,7	0.5"	215	8.465"	341	13.425"	294	11.575"
HZ406-12.7-300	406,4	16"	12,7	0.5"	300	11.811"	440	17.323"	376	14.803"
HZ508-12.7-400	508	20"	12,7	0.5"	400	15.748"	540	21.260"	477	18.780"
HZ610-16-495	609,6	24"	16	0.625"	495	19.488"	640	25.197"	572	22.520"
HZ711-16-590	711,2	28"	16	0.625"	590	23.228"	740	29.134"	675	26.575"
HZ813-16-675	812,8	32"	16	0.625"	675	26.575"	845	33.268"	774	30.472"
HZ914-16-775	914,4	36"	16	0.625"	775	30.512"	945	37.205"	874	34.409"
HZ1016-16-860	1016	40"	16	0.625"	860	33.858"	1050	41.339"	974	38.346"
HZ1219-16-1050*	1219,2	48"	16	0.625"	1050	41.339"	1239	48.780"	1176	46.299"
HZ1321-16-1150*	1320,8	52"	16	0.625"	1150	45.276"	1341	52.800"	1273	50.118"
HZ1422-20-1250*	1422,4	56"	20	0.787"	1250	49.213"	1442	56.772"	1366	53.780"
HZ1524-20-1340*	1524	60"	20	0.787"	1340	52.756"	1544	60.787"	1466	57.717"

*Large diameter system can be engineered based on the specific customer requirements