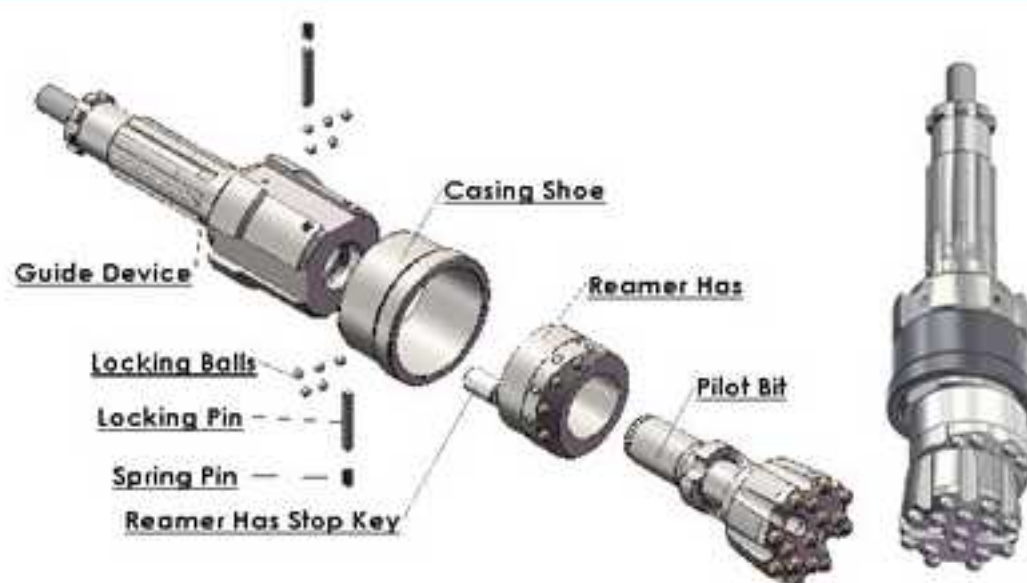
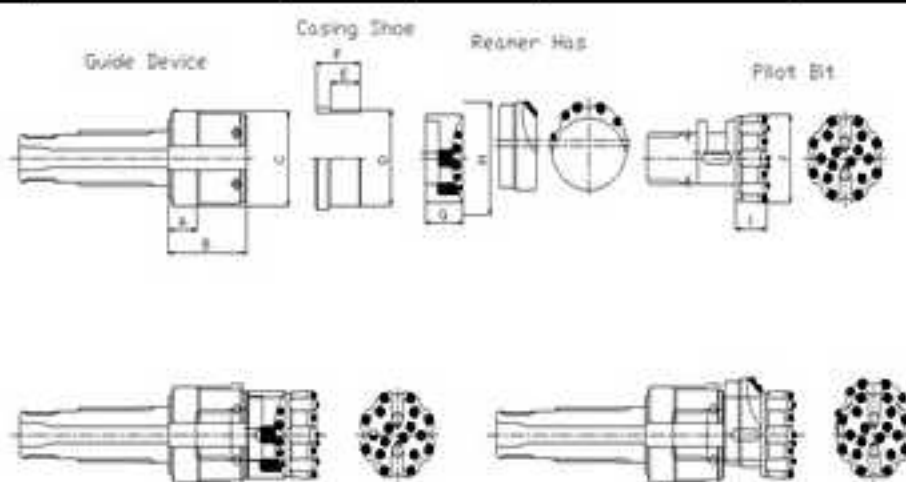


WCODEX Eccentric Overburden Drilling System



Model	Size (mm)	Reamer		Casing Size (mm)			Shoulder Dia.(mm)	Shank Type
		Extended Position	Retracted Position	O.D.	I.D.	Thickness		
WCODEX84	84	123	84	114.0	92.0	11.0	91	MACH303
WCODEX90	90	123	90	115.0	102.0	5.0	100	I.R 3.5
WCODEX115	115	151.2	115	142.0	128.0	6.6	126	IR340, SD4, QL40
WCODEX127	127	165	127	152.4	139.8	6.3	126	IR340, SD4, QL40
WCODEX140	140	185.8	140	171.0	155.6	6.4	153.6	IR350, SD5, QL50
WCODEX165	165	211.2	165	195.6	182.5	6.4	179	IR360, SD6, QL60
WCODEX180	180	232.3	180	219.0	193.7	12.7	191	IR360, SD6, QL60
WCODEX190	190	236.2	190	222.0	205.0	7.0	203	IR360, SD6, QL60
WCODEX230	230	286	230	273.0	250.2	11.4	247	IR380, SD8, QL80
WCODEX235	235	300	235	267.4	254.2	6.6	251	IR380, SD8, QL80
WCODEX240	240	308	240	273.0	260.4	6.4	257	IR380, SD8, QL80
WCODEX280	280	378	280	327.0	304.8	9.5	303	Numa100, SD10
WCODEX365	365	450	365	406.4	387.4	9.5	382	IR112, SD12 Numa120, QL120



Model	Guide Device			Casing Shoe			Reamer			Pilot Bit			
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	No. of Button	I (mm)	J (mm)	No. of Button	
												Guage	Face
WCODEX84	52	131	100	91	40	70	70	123	3	67	84	8	6
WCODEX90	50.6	105	100	101	50	76	70	123	3	67	90	8	6
WCODEX115	50.6	131	126	127	50	76	70	151.2	3	67	115.8	8	6
WCODEX127	50.6	131	138	139	50	76	70	165	4	67	128	8	8
WCODEX140	52.8	155	153.6	155.3	63	90	70	185.8	6	62	141.2	8	10
WCODEX165	62.5	170	179	180.7	65	95	80	211.2	5	67.7	165.8	8	12
WCODEX180	64.5	199	191	192.7	72	110	89	232.3	8	89	179	8	16
WCODEX190	62.8	185	203	204.7	72	110	88.9	236.2	7	87.4	190.8	8	19
WCODEX230	70.2	220	247	248.8	85	138	101	286	12	89	228.5	10	25
WCODEX235	69.7	190	251	252.8	75	111	100	300	13	89.4	235.8	12	27
WCODEX240	69.7	190	257	258.3	75	111	100	308	13	89.4	240.8	12	27
WCODEX280	98.1	255	303	304.7	75	125	120	378	24	143	279.3	12	32
WCODEX365	100	240	382	384.5	70	120	140	450	19	140	365	16	42