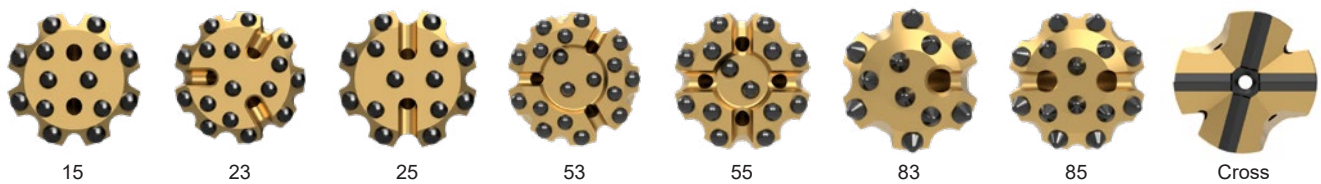
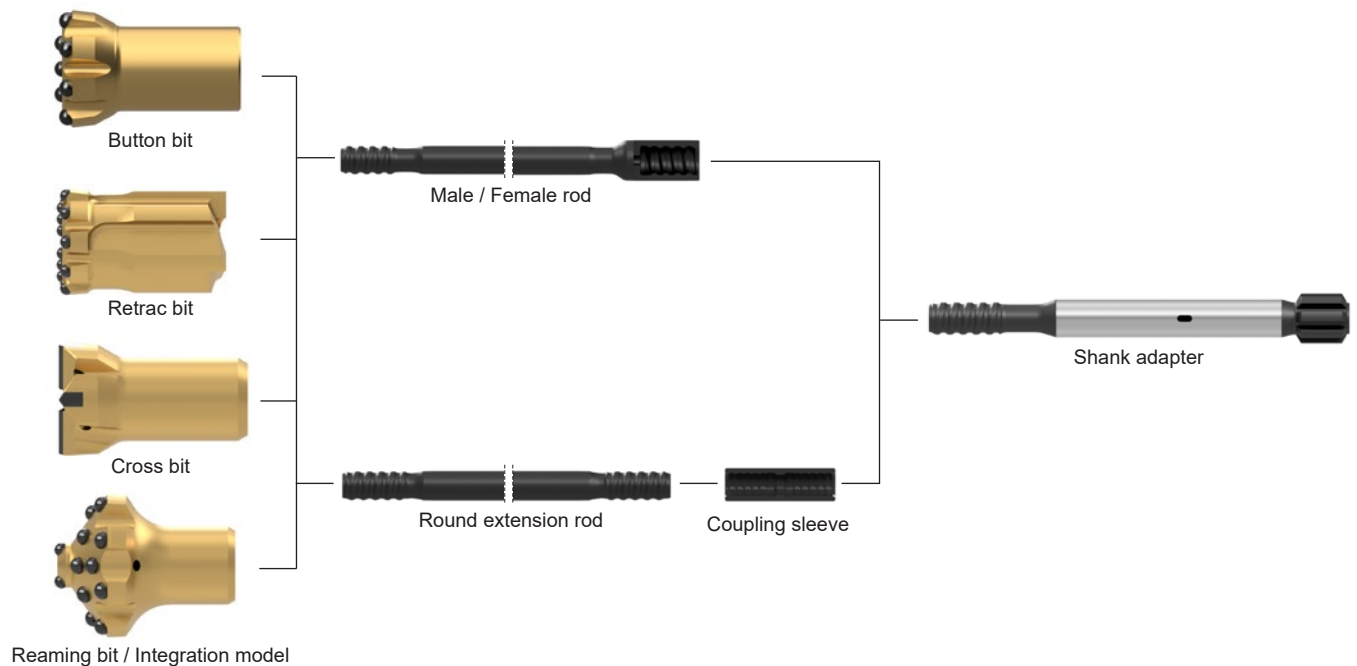


BENCH & LONG HOLE DRILLING EQUIPMENT

T38 SERIES (1 1/2") (Recommended Gauge diameter Ø64–Ø102)



Button Bit with Flat face Type 15



Part Number		Skirt	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow Hole		Weight(kg)
Round	Semi Ballistic		(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	
38MPVS64R15M	38MPVS64BB15M		64	2 1/2"	35°	8×Ø11	4×Ø10	—	2	1.6
38MPVS70R15M	38MPVS70BB15M		70	2 3/4"	35°	8×Ø11	4×Ø11	—	2	1.9
38MPVS76R15M	38MPVS76BB15M		76	3"	35°	8×Ø12	4×Ø11	—	2	2.2
38MPVS89R15M	38MPVS89BB15M		89	3 1/2"	35°	8×Ø13	6×Ø12	—	2	3.4
38MPVS102R15M	—		102	4"	35°	8×Ø14	6×Ø13	—	2	4.5
38MPVR64R15M	38MPVR64BB15M		64	2 1/2"	35°	8×Ø11	4×Ø10	—	2	2.1
38MPVR70R15M	38MPVR70BB15M		70	2 3/4"	35°	8×Ø11	4×Ø11	—	2	2.5
38MPVR76R15M	38MPVR76BB15M		76	3"	35°	8×Ø12	4×Ø11	—	2	3.0
38MPVR89R15M	38MPVR89BB15M		89	3 1/2"	35°	8×Ø13	6×Ø12	—	2	4.6
38MPVR102R15M	—		102	4"	35°	8×Ø14	6×Ø13	—	2	6.8



Button Bit with Groove Type 23 and 25



Part Number		Skirt	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow Hole		Weight(kg)
Round	Semi Ballistic		(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	
38MPVS64R23M	38MPVS64BB23M		64	2 1/2"	35°	6×φ12	3×φ11	—	3	1.7
38MPVS70R23M	38MPVS70BB23M		70	2 3/4"	35°	6×φ12	4×φ11	—	3	1.9
38MPVS76R23M	38MPVS76BB23M		76	3"	35°	6×φ12	4×φ12	—	3	2.3
38MPVS89R23M	38MPVS89BB23M		89	3 1/2"	35°	9×φ12	6×φ12	—	3	3.4
38MPVS102R23M	38MPVS102BB23M		102	4"	35°	9×φ13	7×φ13	—	3	4.5
38MPVR64R23M	38MPVR64BB23M		64	2 1/2"	35°	6×φ12	3×φ11	—	3	2.0
38MPVR70R23M	38MPVR70BB23M		70	2 3/4"	35°	6×φ12	4×φ11	—	3	2.5
38MPVR76R23M	38MPVR76BB23M		76	3"	35°	6×φ12	4×φ12	—	3	3.0
38MPVR89R23M	38MPVR89BB23M		89	3 1/2"	35°	9×φ12	6×φ12	—	3	4.4
38MPVR102R23M	38MPVR102BB23M		102	4"	35°	9×φ13	7×φ13	—	3	6.8

Part Number		Skirt	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow Hole		Weight(kg)
Round	Semi Ballistic		(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	
38MPVS89R25M	38MPVS89BB25M		89	3 1/2"	35°	8×φ13	6×φ12	—	2	3.3
38MPVS102R25M	38MPVS102BB25M		102	4"	35°	8×φ14	6×φ13	—	2	4.4
38MPVR89R25M	38MPVR89BB25M		89	3 1/2"	35°	8×φ13	6×φ12	—	2	4.7
38MPVR102R25M	38MPVR102BB25M		102	4"	35°	8×φ14	6×φ13	—	2	6.8



Button Bit with Drop Center Type 53 and 55

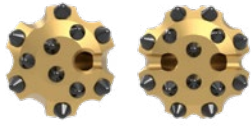


Part Number		Skirt	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow Hole		Weight(kg)
Round	Semi Ballistic		(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	
38MPVS64R53M	38MPVS64BB53M		64	2 1/2"	35°	6×φ10	4×φ10	—	3	1.6
38MPVS70R53M	38MPVS70BB53M		70	2 3/4"	35°	6×φ11	4×φ11	—	3	1.8
38MPVS76R53M	38MPVS76BB53M		76	3"	35°	6×φ12	4×φ11	—	3	2.1
38MPVS89R53M	—		89	3 1/2"	35°	6×φ13	5×φ12	—	3	3.3
38MPVR64R53M	38MPVR64BB53M		64	2 1/2"	35°	6×φ10	4×φ10	—	3	2.0
38MPVR70R53M	38MPVR70BB53M		70	2 3/4"	35°	6×φ11	4×φ11	—	3	2.5
38MPVR76R53M	38MPVR76BB53M		76	3"	35°	6×φ12	4×φ11	—	3	2.8
38MPVR89R53M	—		89	3 1/2"	35°	6×φ13	5×φ12	—	3	4.2

Part Number		Skirt	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow Hole		Weight(kg)
Round	Semi Ballistic		(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	
38MPVS64R55M	38MPVS64BB55M		64	2 1/2"	35°	8×φ10	5×φ9	—	4	1.6
38MPVS70R55M	38MPVS70BB55M		70	2 3/4"	35°	8×φ11	5×φ10	—	4	1.8
38MPVS76R55M	38MPVS76BB55M		76	3"	35°	8×φ11	5×φ11	—	4	2.2
38MPVS89R55M	38MPVS89BB55M		89	3 1/2"	35°	8×φ12	6×φ12	—	4	3.4
38MPVS102R55M	—		102	4"	35°	8×φ14	6×φ14	—	4	4.4
38MPVR64R55M	38MPVR64BB55M		64	2 1/2"	35°	8×φ10	5×φ9	—	4	2.1
38MPVR70R55M	38MPVR70BB55M		70	2 3/4"	35°	8×φ11	5×φ10	—	4	2.5
38MPVR76R55M	38MPVR76BB55M		76	3"	35°	8×φ11	5×φ11	—	4	3.0
38MPVR89R55M	38MPVR89BB55M		89	3 1/2"	35°	8×φ12	6×φ12	—	4	4.5
38MPVR102R55M	—		102	4"	35°	8×φ14	6×φ14	—	4	6.4

BENCH & LONG HOLE DRILLING EQUIPMENT

T38 SERIES (1 1/2") (Recommended Gauge diameter Ø64–Ø102)



Button Bit with Convex Type 83 and 85



Part Number	Skirt	Gauge Diameter		Gauge Angle [°]	Gauge Button No × Dia(mm)	Face Button No × Dia(mm)	Blow Hole		Weight(kg)
		(mm)	(in)				Side	Face	
38MPWS64SA83H		64	2 1/2"	20–40	6×Ø10	3×Ø10, 2×Ø9	1	1	1.5
38MPWS70SA83H		70	2 3/4"	20–40	6×Ø11	5×Ø10	1	1	1.8
38MPWS76SA83H		76	3"	20–40	6×Ø11	3×Ø11, 2×Ø10	1	1	2.3
38MPWS76SA85H		76	3"	20–40	8×Ø11	6×Ø10	2	2	2.1
38MPWS89SA85H		89	3 1/2"	20–40	8×Ø12	6×Ø12	2	2	3.2
38MPVS102SA85H		102	4"	20–40	8×Ø12	7×Ø12	—	2	4.2



Cross Bit



Part Number	Gauge Diameter		Carbide size W×H(mm)	Blow Hole		Weight(kg)
	(mm)	(in)		Side	Face	
38MX64S	64	2 1/2"	13×22	4	1	1.8
38MX76S2	76	3"	13×22	4	1	2.4
38MX89S	89	3 1/2"	13×22	4	1	3.7



Reaming Bit Integration model



Part Number	Gauge Diameter		Gauge Angle [°]	Gauge Button No × Dia(mm)	Face Button No × Dia(mm)	Blow Hole		Weight(kg)
	(mm)	(in)				Side	Face	
WI38MP127R-60	127	5"	30°	9×Ø13	6×Ø13	—	3	6.3
WI38MP152R-60	152	6"	30°	9×Ø14	9×Ø14	—	3	9.8
WI38MP152R-110Z2	152	6"	30°	9×Ø14	3×Ø14	—	3	14.6

Round Rod



Part number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
ER38M38-3050	T38	T38	38	1 1/2"	3050	10'	24.7
ER38M38-3660					3660	12'	29.4
ER38M38-4270					4270	14'	34.7
ER38M38-4880					4880	16'	40.0
ER38M38-5490					5490	18'	44.6

Male / Female Rod



Part number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
ER38M38MF-1220	T38	T38	38	1 1/2"	1220	4'	9.7
ER38M38MF-1525					1525	5'	13.3
ER38M38MF-1830					1830	6'	16.0
ER38M38MF-3050H					3050	10'	25.3
ER38M38MF-3660H					3660	12'	30.1
ER38M38MF-4270H					4270	14'	35.0

Coupling / Cross Over Coupling



Part number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
CM38Z2	T38		55	2 1/6"	190	7 1/2"	2.0

Part number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
CM38R32	T38	R32	54	2 1/8"	188	7 1/2"	2.2
CM38R38		R38	54	2 1/8"	195	7 11/16"	2.0
CM45M38		T45	63	2 1/2"	215	8 1/2"	3.4