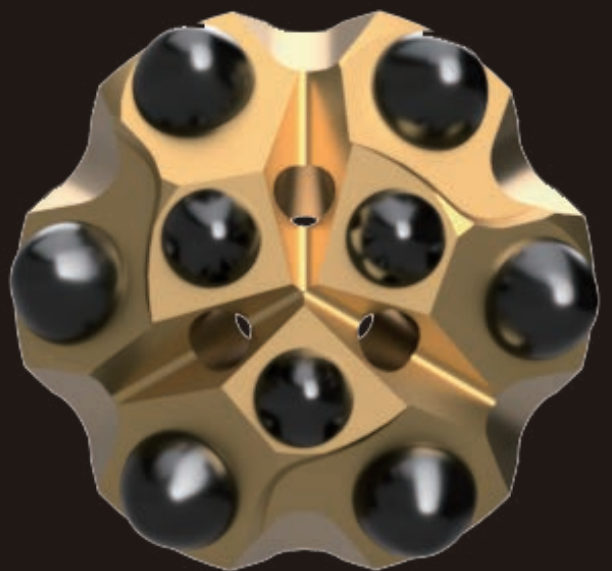
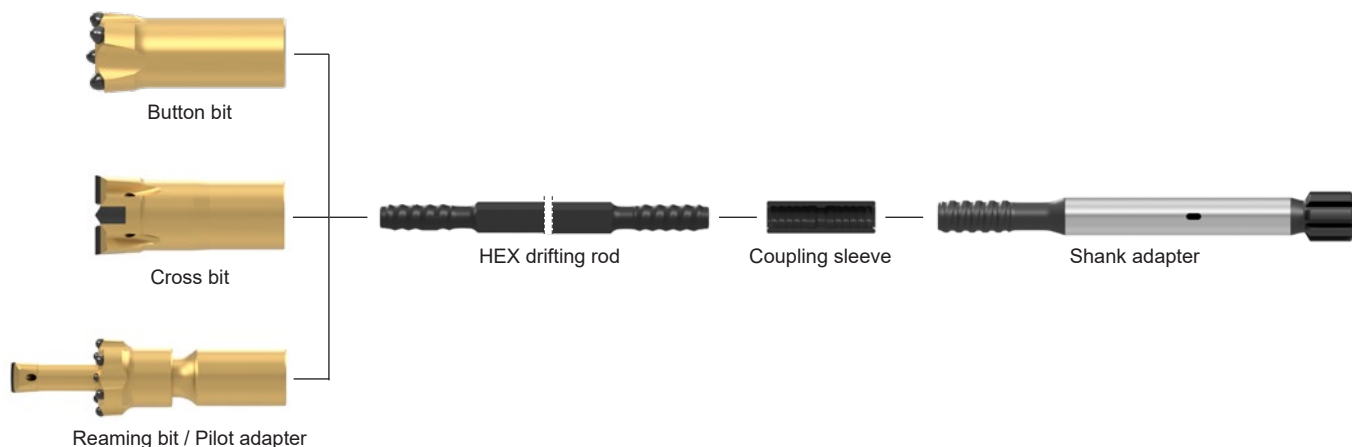


DRIFTING & TUNNELLING EQUIPMENT



DRIFTING&TUNNELING DRILLING EQUIPMENT

R25 SERIES (1") (Recommended Gauge diameter $\phi 33$ - $\phi 45$)



Various type of products are being released. Please feel free to contact us.



Button Bit Type 23



Part Number		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	
25RTPWS37R23L	25RTPWS37BB23L	37	1 15/32"	30°	6× $\phi 8$	3× $\phi 7$	1	3	0.5
25RTPWS38R23L	25RTPWS38BB23L	38	1 1/2"	30°	6× $\phi 8$	3× $\phi 7$	1	3	0.5
25RTPWS41R23L	25RTPWS41BB23L	41	1 5/8"	30°	6× $\phi 8$	3× $\phi 8$	1	3	0.6
25RTPWS43R23L	25RTPWS43BB23L	43	1 11/16"	30°	6× $\phi 9$	3× $\phi 8$	1	3	0.6
25RTPWS45R23L	25RTPWS45BB23L	45	1 3/4"	30°	6× $\phi 9$	3× $\phi 8$	1	3	0.7



Button Bit with Type 06



Part Number		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	
25RTPWS33R06L	25RTPWS33BB06L	33	1 5/16"	30°	5× $\phi 8$	2× $\phi 7$	1	1	0.4
25RTPWS35R06M	25RTPWS35BB06M	35	1 3/8"	35°	5× $\phi 8$	2× $\phi 8$	1	1	0.4
25RTPWS37R06L	25RTPWS37BB06L	37	1 15/32"	30°	5× $\phi 9$	2× $\phi 7$	1	1	0.5
25RTPWS38R06L	25RTPWS38BB06L	38	1 1/2"	30°	5× $\phi 9$	2× $\phi 8$	1	1	0.5
25RTPWS41R06L	25RTPWS41BB06L	41	1 5/8"	30°	5× $\phi 10$	2× $\phi 8$	2	1	0.6
25RTPWS43R06L	25RTPWS43BB06L	43	1 11/16"	30°	5× $\phi 10$	2× $\phi 8$	2	1	0.6
25RTPWS45R06L	25RTPWS45BB06L	45	1 3/4"	30°	5× $\phi 11$	2× $\phi 9$	1	2	0.7



Cross Bit



Part Number	Gauge Diameter		Carbide size	Blow hole		Weight(kg)
	(mm)	(in)		Side	Face	
25RTC35V	35	1 3/8"	10×19	2	1	0.4
25RTC38V	38	1 1/2"	10×19	2	1	0.5
25RTC41V	41	1 5/8"	10×19	2	1	0.6
25RTC45V	45	1 3/4"	10×19	2	1	0.7



Reaming Bit 6° Taper



Part Number	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow Hole		Weight(kg)
	(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	
WTHP64R11	64	2 1/2"	30°	6×φ9	3×φ8	—	—	1.0
WTHP76R11	76	3"	30°	6×φ10	6×φ9	—	—	1.3
WTHP89R15	89	3 1/2"	30°	8×φ11	8×φ10	—	—	1.7



Pilot Adapter 6° Taper

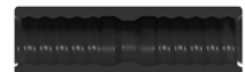
Part Number	Gauge Diameter		Carbide size	Blow hole		Weight(kg)
	(mm)	(in)		Side	Front	
WR25THI26B	26	1"	8×12	1	1	1.1

HEX Rod



Part Number	Thread		Hex		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
EH25R32R25-2175	R25	R32	25	1"	2175	7' 1 5/8"	8.4
EH25R32R25-2475			25	1"	2475	8' 2"	10.2
EH25R32R25-2600			25	1"	2600	8' 6"	10.7
EH25R32R25-2800			25	1"	2800	9' 2"	11.2
EH25R32R25-3100			25	1"	3100	10' 2"	12.7

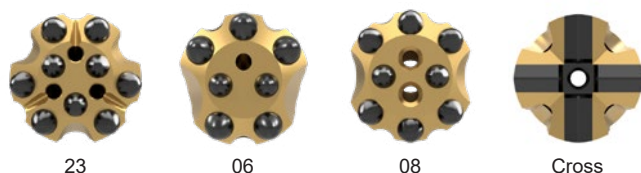
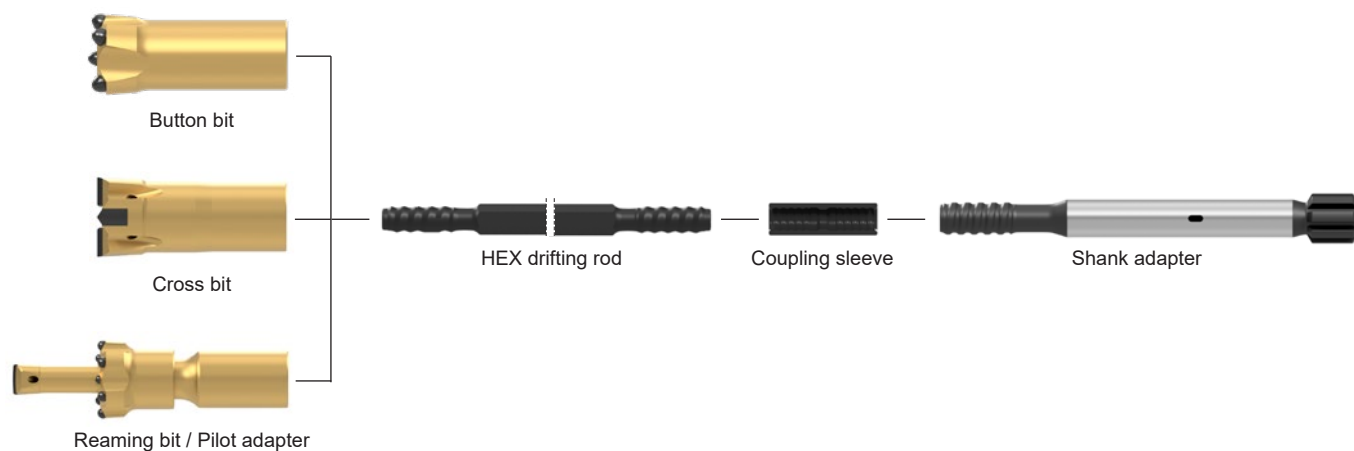
Coupling Sleeve



Part Number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
CR25D	R25	R25	35	1 3/8"	160	6 1/4"	0.7
CR32D	R32	R32	45	1 3/4"	150	6"	1.0

DRIFTING&TUNNELING DRILLING EQUIPMENT

R28 SERIES (1 1/8") (Recommended Gauge diameter $\phi 37$ - $\phi 45$)



Various type of products are being released. Please feel free to contact us.



Button Bit Type 23



Part Number		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	
28RTPWS37R23L	28RTPWS37BB23L	37	1 15/32"	30°	6× $\phi 8$	3× $\phi 7$	1	3	0.5
28RTPWS38R23L	28RTPWS38BB23L	38	1 1/2"	30°	6× $\phi 8$	3× $\phi 7$	1	3	0.5
28RTPWS41R23L	28RTPWS41BB23L	41	1 5/8"	30°	6× $\phi 8$	3× $\phi 8$	1	3	0.6
28RTPWS43R23L	28RTPWS43BB23L	43	1 11/16"	30°	6× $\phi 9$	3× $\phi 8$	1	3	0.7
28RTPWS45R23L	28RTPWS45BB23L	45	1 3/4"	30°	6× $\phi 9$	3× $\phi 8$	1	3	0.7



Button Bit Type 06



Part Number		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	
28RTPWS37R06L	28RTPWS37BB06L	37	1 15/32"	30°	5×φ9	2×φ7	1	1	0.5
28RTPWS38R06L	28RTPWS38BB06L	38	1 1/2"	30°	5×φ9	2×φ8	1	1	0.5
28RTPWS41R06L	28RTPWS41BB06L	41	1 5/8"	30°	5×φ10	2×φ8	2	1	0.7
28RTPWS43R06L	28RTPWS43BB06L	43	1 11/16"	30°	5×φ10	2×φ8	2	1	0.7
28RTPWS45R06L	28RTPWS45BB06L	45	1 3/4"	30°	5×φ11	2×φ9	2	1	0.7



Button Bit Type 08



Part Number		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	
28RTPVS41R08M	28RTPVS41BB08M	41	1 5/8"	35°	6×φ8	2×φ8	—	2	
28RTPVS43R08M	28RTPVS43BB08M	43	1 11/16"	35°	6×φ9	2×φ8	—	2	
28RTPVS45R08M	28RTPVS45BB08M	45	1 3/4"	35°	6×φ9	2×φ9	—	2	
28RTPVS48R08M	28RTPVS48BB08M	48	1 7/8"	35°	6×φ10	2×φ9	—	2	0.9



Cross Bit



Part Number	Gauge Diameter		Carbide size	Blow Hole		Weight(kg)
	(mm)	(in)	W×H(mm)	Side	Face	
28RTC38V	38	1 1/2"	10×19	4	1	0.5
28RTC41V	41	1 5/8"	10×19	4	1	0.6
28RTC43V	43	1 11/16"	10×19	4	1	0.7
28RTC45V	45	1 3/4"	10×19	4	1	0.7

DRIFTING&TUNNELING DRILLING EQUIPMENT

R28 SERIES (1 1/8") (Recommended Gauge diameter $\phi 37$ - $\phi 45$)



Reaming Bit 6° Taper



Part Number	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow Hole		Weight(kg)
	(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	
WTHP64R11	64	2 1/2"	30°	6× $\phi 9$	3× $\phi 8$	—	—	1.0
WTHP76R11	76	3"	30°	6× $\phi 10$	6× $\phi 9$	—	—	1.3
WTHP89R15	89	3 1/2"	30°	8× $\phi 11$	8× $\phi 10$	—	—	1.7



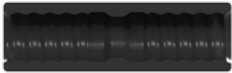
Pilot Adapter 6° Taper

Part Number	Gauge Diameter		Carbide size	Blow Hole		Weight(kg)
	(mm)	(in)	(mm)	Side	Front	
WR28THI26B	26	1"	8×12	1	1	1.1

HEX Rod



Part Number	Thread		Hex		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
EH28R32R28-2440	R28	R32	28	1 1/8"	2440	8'	12.3
EH28R32R28-2800			28	1 1/8"	2800	9' 2"	14.1
EH28R32R28-3100			28	1 1/8"	3100	10' 2"	15.8
EH28R32R28-3400			28	1 1/8"	3400	11' 1 5/8"	17.2
EH28R32R28-3700			28	2 1/8"	3700	12' 2"	19.2
EH28R32R28-4310			32	1 1/4"	4310	14' 2"	23.0



Coupling Sleeve

Part Number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
CR28D	R28	R28	41	1 5/8"	160	6 1/4"	1.0
CR32D	R32	R32	45	1 3/4"	150	6"	1.0

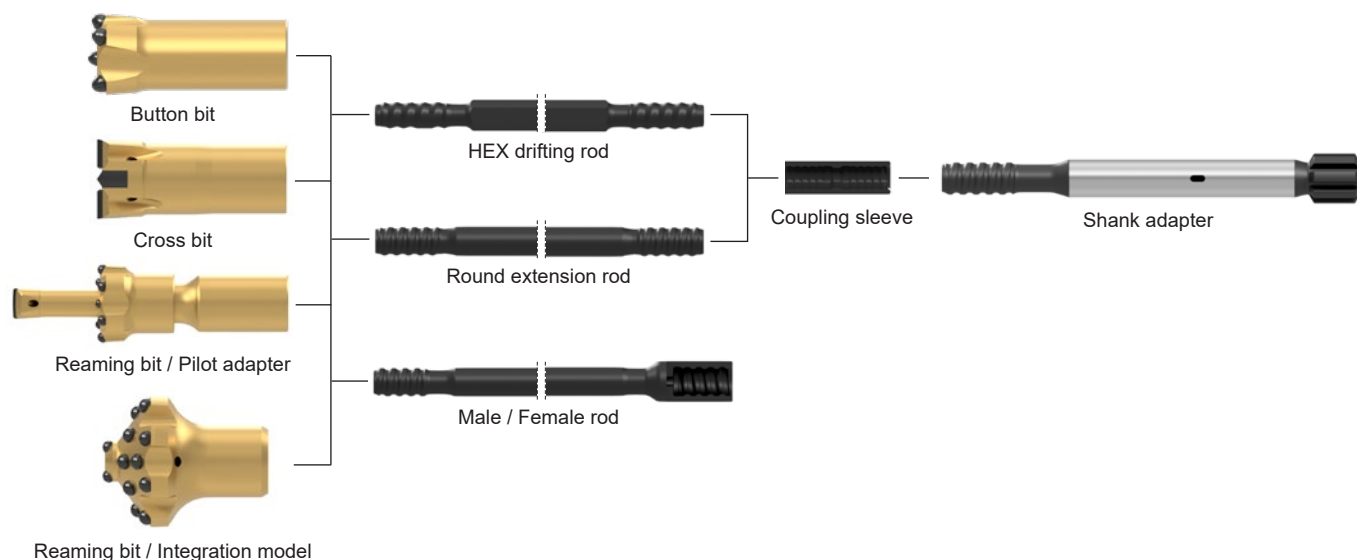


Crossover Coupling Sleeve

Part Number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
CR32R28	R28	R32	45	1 3/4"	171	6 3/4"	1.4

DRIFTING&TUNNELING DRILLING EQUIPMENT

R32 SERIES (1 1/4") (Recommended Gauge diameter $\phi 41\text{--}\phi 64$)



Various type of products are being released. Please feel free to contact us.



Button Bit Type TX



Part Number		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	
—	32RTPVS43BB23MTX	43	1 11/16"	35°	6× $\phi 9$	3× $\phi 8$	—	3	0.7
—	32RTPVS45BB23MTX	45	1 3/4"	35°	6× $\phi 10$	3× $\phi 8$	—	3	0.7
—	32RTPVS48BB23MTX	48	1 7/8"	35°	6× $\phi 10$	3× $\phi 9$	—	3	0.8
—	32RTPVS51BB23MTX	51	2"	35°	6× $\phi 10$	3× $\phi 10$	—	3	1.0
—	32RTPVS54BB23MTX	54	2 1/8"	35°	6× $\phi 11$	3× $\phi 10$	—	3	1.1
—	32RTPVS57BB23MTX	57	2 1/4"	35°	6× $\phi 11$	3× $\phi 11$	—	3	1.2



Button Bit Type 03



Part Number		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	
32RTPWS41R03L	32RTPWS41BB03L	41	1 5/8"	30°	6× $\phi 9$	3× $\phi 8$	1	3	0.6
32RTPWS43R03M	32RTPWS43BB03L	43	1 11/16"	35°	6× $\phi 9$	3× $\phi 8$	1	3	0.7
32RTPWS45R03L	32RTPWS45BB03L	45	1 3/4"	30°	6× $\phi 10$	3× $\phi 8$	1	3	0.8
32RTPWS48R03M	32RTPWS48BB03L	48	1 7/8"	35°	6× $\phi 10$	3× $\phi 9$	1	3	0.9
32RTPWS51R03L	32RTPWS51BB03L	51	2"	30°	6× $\phi 11$	3× $\phi 9$	1	3	1.0



Button Bit Type 23



Part Number		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	
32RTPWS43R23L	32RTPWS43BB23L	43	1 11/16"	30°	6×φ9	3×φ8	1	3	0.7
32RTPWS45R23L	32RTPWS45BB23L	45	1 3/4"	30°	6×φ9	3×φ8	1	3	0.8
32RTPWS48R23L	32RTPWS48BB23L	48	1 7/8"	30°	6×φ10	3×φ9	1	3	0.9
32RTPWS51R23L	32RTPWS51BB23L	51	2"	30°	6×φ10	3×φ9	1	3	1.0
32RTPWS54R23L	32RTPWS54BB23L	54	2 1/8"	30°	6×φ10	3×φ10	1	3	1.1
32RTPWS57R23L	32RTPWS57BB23L	57	2 1/4"	30°	6×φ11	3×φ10	1	3	1.2
32RTPWS64R23M	32RTPWS64BB23M	64	2 1/2"	35°	6×φ12	3×φ11	1	3	1.4



Button Bit Type 06



Part Number		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	
32RTPWS41R06L	32RTPWS41BB06L	41	1 5/8"	30°	5×φ10	2×φ8	2	1	0.6
32RTPWS43R06L	32RTPWS43BB06L	43	1 11/16"	30°	5×φ10	2×φ8	2	1	0.7
32RTPWS45R06L	32RTPWS45BB06L	45	1 3/4"	30°	5×φ11	2×φ9	2	1	0.8
32RTPWS48R06L	32RTPWS48BB06L	48	1 7/8"	30°	5×φ11	2×φ9	2	1	0.9
32RTPWS51R06L	32RTPWS51BB06L	51	2"	30°	5×φ12	2×φ10	2	1	1.0



Button Bit Type 08



Part Number		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	
32RTPVS41R08M	32RTPVS41BB08M	41	1 5/8"	35°	6×φ8	2×φ8	—	2	0.6
32RTPVS43R08M	32RTPVS43BB08M	43	1 11/16"	35°	6×φ9	2×φ8	—	2	0.7
32RTPVS45R08M	32RTPVS45BB08M	45	1 3/4"	35°	6×φ9	2×φ9	—	2	0.8
32RTPVS48R08M	32RTPVS48BB08M	48	1 7/8"	35°	6×φ10	2×φ9	—	2	0.9

DRIFTING&TUNNELING DRILLING EQUIPMENT

R32 SERIES (1 1/4") (Recommended Gauge diameter $\phi 41$ – $\phi 64$)



Cross Bit



Part Number	Gauge Diameter		Carbide size W×H(mm)	Blow Hole		Weight(kg)
	(mm)	(in)		Side	Face	
32RTC41V	41	1 5/8"	10×19	4	1	0.6
32RTC45V	45	1 3/4"	10×19	4	1	0.7
32RTC48V	48	1 7/8"	10×19	4	1	0.9
32RTC51V	51	2"	10×19	4	1	1.0



Reaming Bit 6° Taper



Part Number	Gauge Diameter		Gauge Angle (°)	Gauge Button	Face Button	Blow Hole		Weight(kg)
	(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	
WTHP64R11	64	2 1/2"	30°	6× $\phi 9$	3× $\phi 8$	—	—	1.0
WTHP76R11	76	3"	30°	6× $\phi 10$	6× $\phi 9$	—	—	1.3
WTHP89R15	89	3 1/2"	30°	8× $\phi 11$	8× $\phi 10$	—	—	1.7



Pilot Adapter 6° Taper

Part number	Gauge Diameter		Carbide size (mm)	Blow Hole		Weight(kg)
	(mm)	(in)		(mm)	(ft/in)	
WR32THI26B	26	1"	8×12	1	1	1.4



Reaming Bit 12° Taper



Part Number	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow Hole		Weight(kg)
	(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	
WTKP89R15	89	3 1/2"	30°	8×φ11	4×φ10	—	—	1.6
WTKP102R16	102	4"	35°	8×φ14	6×φ12	—	—	2.3
WTKP127R16	127	5"	35°	12×φ13	8×φ13	—	—	4.8



Pilot Adapter 12° Taper

Part Number	Gauge Diameter		Carbide size	Blow Hole		Weight(kg)
	(mm)	(in)	(mm)	Side	Face	
WR32TKI40B	40	1 5/8"	8×12	3	1	1.6



Reaming Bit Integration Model



Part Number	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow hole			Weight(kg)
	(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	Reverse	
WI32RTPJ76R-30R	76	3"	35°	8×φ12	6×φ10	2	1	2	2.2
WI32RTPJ89R-30R	89	3 1/2"	35°	8×φ12	10×φ10	2	1	2	2.5
WI32RTPJ102R-30R	102	4"	35°	8×φ12	9×φ12, 2×φ10	2	1	2	2.7

DRIFTING&TUNNELING DRILLING EQUIPMENT

R32 SERIES (1 1/4")

HEX Rod



Part Number	Thread		Hex		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
EH32R38R32-3100	R32	R38	32	1 1/4"	3100	10' 2"	19.7
EH32R38R32-3700			32	1 1/4"	3700	12' 2"	23.3
EH32R38R32-4310			32	1 1/4"	4310	14' 2"	27.0
EH32R38R32-4920			32	1 1/4"	4920	16' 2"	30.9
EH35R38R32-3100			35	1 3/8"	3100	10' 2"	23.9
EH35R38R32-3700			35	1 3/8"	3700	12' 2"	28.5
EH35R38R32-4310			35	1 3/8"	4310	14' 2"	33.2
EH35R38R32-4920			35	1 3/8"	4920	16' 2"	36.7
EH35R38R32-5530			35	1 3/8"	5530	18' 2"	41.3
EH32M38R32-3100			32	1 1/4"	3100	10' 2"	19.7
EH32M38R32-3700			32	1 1/4"	3700	12' 2"	23.3
EH32M38R32-4310			32	1 1/4"	4310	14' 2"	27.0
EH32M38R32-4920			32	1 1/4"	4920	16' 2"	30.9
EH35M38R32-3100			35	1 3/8"	3100	10' 2"	23.9
EH35M38R32-3700			35	1 3/8"	3700	12' 2"	28.5
EH35M38R32-4310			35	1 3/8"	4310	14' 2"	33.2
EH35M38R32-4920			35	1 3/8"	4920	16' 2"	36.7
EH35M38R32-5530			35	1 3/8"	5530	18' 2"	41.3

Round Rod



Part Number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
ER32R32-1830	R32	R32	32	1 1/4"	1830	6'	8.0
ER32R32-2440			32	1 1/4"	2440	8'	11.5
ER32R32-3050			32	1 1/4"	3050	10'	16.2
ER32R32-3660			32	1 1/4"	3660	12'	19.5

Male/ Female Rod



Part Number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
ER32R32MF-1525	R32	R32	32	1 1/4"	1525	5'	8.9
ER32R32MF-1830			32	1 1/4"	1830	6'	9.4
ER32R32MF-2440			32	1 1/4"	2440	8'	12.9
ER32R32MF-3050			32	1 1/4"	3050	10'	17.4
ER32R32MF-3660			32	1 1/4"	3660	12'	20.6

Coupling Sleeve



Part Number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
CR32D	R32	R32	45	1 3/4"	150	6"	1.0
CR38D	R38	R38	54	2 1/8"	170	6 3/4"	1.7

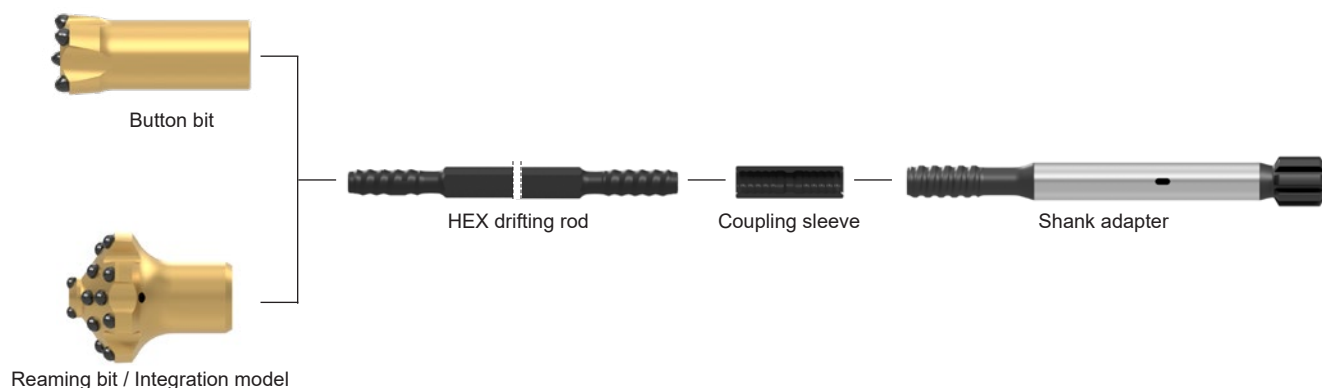
Crossover Coupling



Part Number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
CR32R25	R32	R25	45	1 3/4"	175	6 7/8"	1.5
CR32R28		R28	45	1 3/4"	171	6 3/4"	1.4
CR38R32		R38	54	2 1/8"	181	7 1/8"	2.1
CM38R32		T38	54	2 1/8"	188	7 1/2"	2.2

DRIFTING&TUNNELING DRILLING EQUIPMENT

NR34 SERIES (1 3/1") (Recommended Gauge diameter $\phi 45$ - $\phi 54$)



Various type of products are being released. Please feel free to contact us.



Button Bit Type TX



Part Number		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	
—	34NRTPVS45BB23MTX	45	1 3/4"	35°	6× $\phi 10$	3× $\phi 8$	—	3	0.8
—	34NRTPVS48BB23MTX	48	1 7/8"	35°	6× $\phi 10$	3× $\phi 9$	—	3	0.8
—	34NRTPVS51BB23MTX	51	2"	35°	6× $\phi 10$	3× $\phi 10$	—	3	1.1
—	34NRTPVS54BB23MTX	54	2 1/8"	35°	6× $\phi 11$	3× $\phi 10$	—	3	1.2
—	34NRTPVS57BB23MTX	57	2 1/4"	35°	6× $\phi 11$	3× $\phi 11$	—	3	1.3



Button Bit Type 03



Part Number		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	
34NRTPWS45R03L	34NRTPWS45BB03L	45	1 3/4"	30°	6× $\phi 10$	3× $\phi 8$	1	3	0.8
34NRTPWS48R03M	34NRTPWS48BB03M	48	1 7/8"	35°	6× $\phi 10$	3× $\phi 9$	1	3	0.9



Button Bit Type 23



Part Number		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	
34NRTAWS45R23L	34NRTAWS45BB23L	45	1 3/4"	30°	6×φ9	3×φ8	1	3	0.8
34NRTAWS48R23L	34NRTAWS48BB23L	48	1 7/8"	30°	6×φ10	3×φ9	1	3	0.9
34NRTAWS51R23L	34NRTAWS51BB23L	51	2"	30°	6×φ10	3×φ9	1	3	1.0
34NRTAWS54R23L	34NRTAWS54BB23L	54	2 1/8"	30°	6×φ10	3×φ10	1	3	1.1



Reaming Bit Integration Model



Part Number	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow hole			Weight(kg)
	(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	Reverse	
WI34NRTPJ76R-30R	76	3"	35°	8×φ12	6×φ10	2	1	2	2.3
WI34NRTPJ89R-30R	89	3 1/2"	35°	8×φ12	10×φ10	2	1	2	2.6
WI34NRTPJ102R-30R	102	4"	35°	8×φ12	9×φ12, 2×φ10	2	1	2	2.8

HEX Rod



Part Number	Thread		Hex		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
EH35M38NR34-3100	NR34	T38	35	1 3/8"	3100	10' 2"	24.8
EH35M38NR34-3700	NR34	T38	35	1 3/8"	3700	12' 2"	29.5
EH35M38NR34-4310	NR34	T38	35	1 3/8"	4310	14' 2"	34.1
EH35M38NR34-4920	NR34	T38	35	1 3/8"	4920	16' 2"	37.6
EH35M38NR34-5530	NR34	T38	35	1 3/8"	5530	18' 2"	42.3

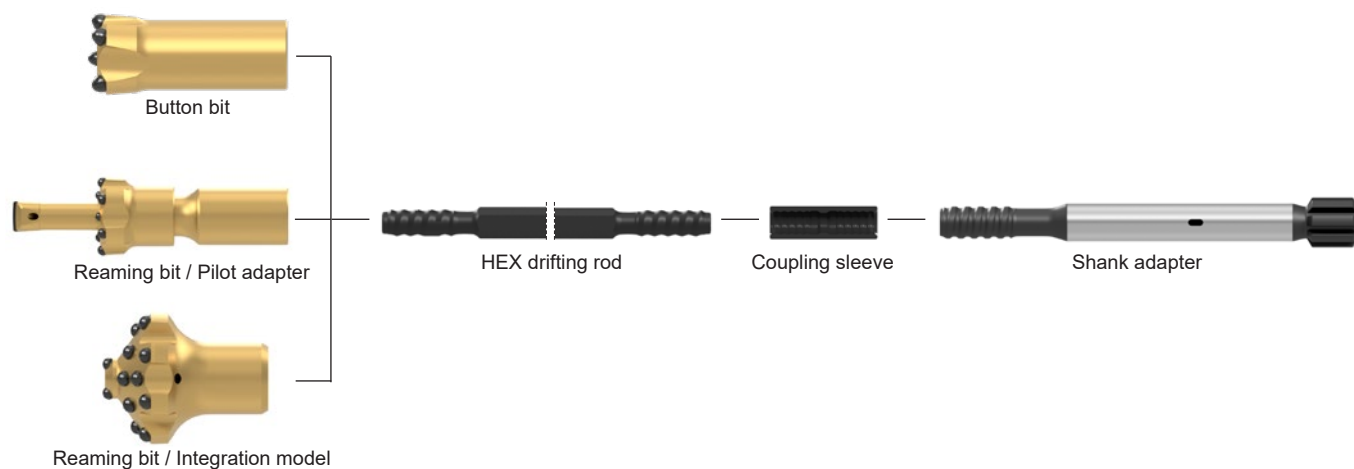
Coupling Sleeve



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

DRIFTING&TUNNELING DRILLING EQUIPMENT

R35 SERIES (1 3/8") (Recommended Gauge diameter $\phi 48$ - $\phi 64$)



Various type of products are being released. Please feel free to contact us.



Button Bit Type TX



Part Number		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	
—	35RTPVS48BB23MTX	48	1 7/8"	35°	6× $\phi 10$	3× $\phi 9$	—	3	0.9
—	35RTPVS51BB23MTX	51	2"	35°	6× $\phi 10$	3× $\phi 10$	—	3	1.0
—	35RTPVS54BB23MTX	54	2 1/8"	35°	6× $\phi 11$	3× $\phi 10$	—	3	1.3
—	35RTPVS57BB23MTX	57	2 1/4"	35°	6× $\phi 11$	3× $\phi 11$	—	3	1.3



Button Bit Type 03



Part Number		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	
35RTPWS48R03M	35RTPWS48BB03M	48	1 7/8"	35°	6×φ10	3×φ9	1	3	0.8
35RTPWS51R03L	35RTPWS51BB03L	51	2"	30°	6×φ11	3×φ9	1	3	1.0



Button Bit Type 23



Part Number		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	
35RTPWS48R23L	35RTPWS48BB23L	48	1 7/8"	30°	6×φ10	3×φ9	1	3	0.8
35RTPWS51R23L	35RTPWS51BB23L	51	2"	30°	6×φ10	3×φ9	1	3	0.9
35RTPWS54R23L	35RTPWS54BB23L	54	2 1/8"	30°	6×φ10	3×φ10	1	3	1.0
35RTPWS57R23L	35RTPWS57BB23L	57	2 1/4"	30°	6×φ11	3×φ10	1	3	1.1
35RTPWS64R23M	35RTPWS64BB23M	64	2 1/2"	30°	6×φ12	3×φ11	1	3	1.3



Button Bit Type 06



Part Number		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	
35RTPWS48R06L	35RTPWS48BB06L	48	1 7/8"	30°	5×φ11	2×φ9	2	1	0.8
35RTPWS51R06L	35RTPWS51BB06L	51	2"	30°	5×φ12	2×φ10	2	1	0.9



Button Bit Type 08



Part Number		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	
35RTPVS48R08M	35RTPVS48BB08M	48	1 7/8"	35°	6×φ10	2×φ9	—	2	0.8

DRIFTING&TUNNELING DRILLING EQUIPMENT

R35 SERIES (1 3/8") (Recommended Gauge diameter $\phi 48$ - $\phi 64$)



Reaming Bit 12° Taper



Part Number	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow Hole		Weight(kg)
	(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	
WTKP89R15	89	3 1/2"	30°	8× $\phi 11$	4× $\phi 10$	—	—	1.6
WTKP102R16	102	4"	35°	8× $\phi 14$	6× $\phi 12$	—	—	2.3
WTKP127R16	127	5"	35°	12× $\phi 13$	8× $\phi 13$	—	—	4.8



Pilot Adapter 12° Taper

Part Number	Gauge Diameter		Carbide size	Blow Hole		Weight(kg)
	(mm)	(in)	W×H(mm)	Side	Face	
WR35TKI40B	40	1 9/16"	8×12	3	1	1.5



Reaming Bit Integration Model



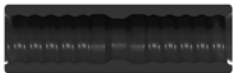
Part Number	Gauge Diameter		Gauge Angle [°]	Gauge Button	Face Button	Blow hole			Weight(kg)
	(mm)	(in)		No × Dia(mm)	No × Dia(mm)	Side	Face	Reverse	
WI35RTPJ76R-30R	76	3"	35°	8× $\phi 12$	6× $\phi 10$	2	1	2	2.3
WI35RTPJ89R-30R	89	3 1/2"	35°	8× $\phi 12$	10× $\phi 10$	2	1	2	2.7
WI35RTPJ102R-30R	102	4"	35°	8× $\phi 12$	9× $\phi 12$, 2× $\phi 10$	2	1	2	2.9

HEX Rod



Part Number	Thread		Hex		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
EH35M38R35-3700	R35	T38	35	1 3/8"	3700	12'2"	28.6
EH35M38R35-4310			35	1 3/8"	4310	14' 2"	33.3
EH35M38R35-4920			35	1 3/8"	4920	16' 2"	36.8
EH35M38R35-5530			35	1 3/8"	5530	18' 2"	41.4

Coupling Sleeve



Part Number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
CM38Z2	T38	T38	55	2 1/6"	190	7 1/2"	2.0
CR35D	R35	R35	48	1 7/8"	160	6 1/4"	1.2

Crossover Coupling Sleeve



Part Number	Thread		Outside Diameter		Length		Weight(kg)
			(mm)	(in)	(mm)	(ft/in)	
CR35R32	R35	R32	48	1 7/8"	171	6 3/4"	1.5