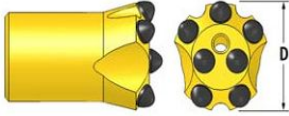


TAPERED EQUIPMENT

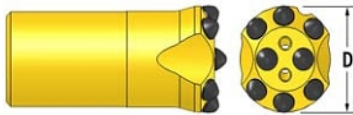
Description	Gauge diameter		Angle	Button No. size		Flushing hole			Weight	Part No.
	mm	in		Gauge	Face	Side	Face	kg		

Button bit-Hex.22 7° tapered bit, long skirt



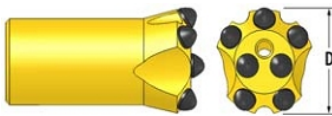
30	1 3/16	35	5×7	2×7	1	1	0.2	1431-30722-27/57-45-51
32	1 1/4	35	5×7	2×7	1	1	0.3	1431-32722-27/57-45-51
34	1 11/32	40	5×7	2×7	1	1	0.3	1431-34722-27/57-45-51
36	1 13/32	40	5×8	2×7	1	1	0.4	1431-35722-27/58-45-51
38	1 1/2	40	5×8	2×7	1	1	0.4	1431-38722-27/58-45-51
40	1 9/16	40	5×9	2×8	1	1	0.4	1431-40722-28/59-45-51
41	1 5/8	40	5×9	2×8	1	1	0.4	1431-41722-28/59-45-51

Button bit-Hex22 7° tapered bit, long skirt



33	1 5/16	40	6×7	2×7	1	2	0.3	1435-33722-27/67-42-53
34	1 11/32	40	6×7	2×7	1	2	0.3	1435-34722-27/67-42-53
38	1 1/2	40	6×8	2×7	1	2	0.4	1435-38722-27/68-42-53

Button bit-Hex25 7° tapered bit, long skirt

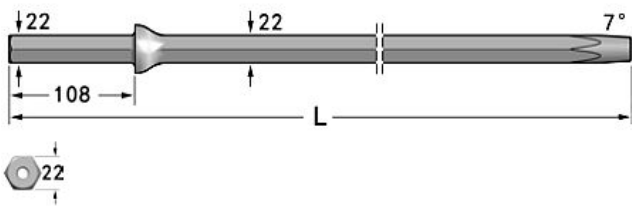


41	1 5/8	40	5×9	2×8	1	1	0.4	1435-41725-28/59-45-31
41	1 5/8	40	5×9	2×8	1	1	0.4	1435-41725-28/59-45-51
43	1 11/16	40	5×9	2×8	1	1	0.5	1435-43725-28/59-45-31
43	1 11/16	40	5×9	2×8	1	1	0.5	1435-43725-28/59-45-51

TAPERED EQUIPMENT

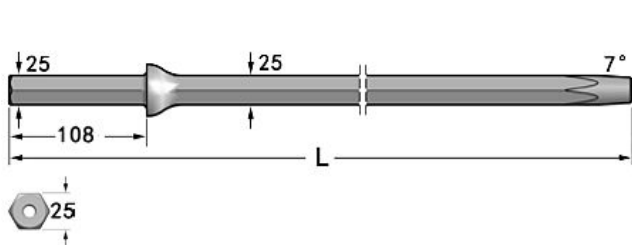
Description	Effective Length(L)			Diameter		Weight	Part No.
	mm	ft	in	mm	in		

Tapered rods, Hex.22×108mm, 7° taper angle



400	1	3 3/4	22	7/8	1.7	21H22-7/108-0400-40
800	2	7 1/2	22	7/8	2.7	21H22-7/108-0800-40
1600	5	3	22	7/8	5.4	21H22-7/108-1600-40
1830	6	-	22	7/8	6	21H22-7/108-1830-40
2000	6	6 3/4	22	7/8	6.7	21H22-7/108-2000-40
2435	8	-	22	7/8	7.7	21H22-7/108-2435-40
3050	10	-	22	7/8	9.8	21H22-7/108-3050-40
3200	10	6	22	7/8	10.1	21H22-7/108-3200-40
3660	12	-	22	7/8	11.4	21H22-7/108-3660-40
4000	13	1 1/2	22	7/8	12.7	21H22-7/108-4000-40
4800	15	9	22	7/8	15.1	21H22-7/108-4800-40

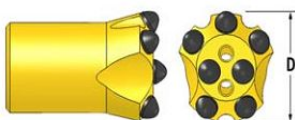
Tapered rods, Hex.25×108mm, 7° taper angle



1500	4	11	22	7/8	6,5	21H25-7/108-1500-40
1600	5	3	22	7/8	6,9	21H25-7/108-1600-40
1800	5	10 7/8	22	7/8	8,0	21H25-7/108-1800-40
2200	7	2 5/8	22	7/8	9,3	21H25-7/108-2200-40
2400	7	10 1/2	22	7/8	10,1	21H25-7/108-2400-40
2600	8	6 3/8	22	7/8	10,9	21H25-7/108-2600-40
3900	12	9 1/2	22	7/8	16,1	21H25-7/108-3900-40

Description	Gauge diameter		Angle	Button No. size		Flushing hole			Weight	Part No.
	mm	in		Gauge	Face	Side	Face	kg		

Button bit-Hex22 11° tapered bit, short skirt

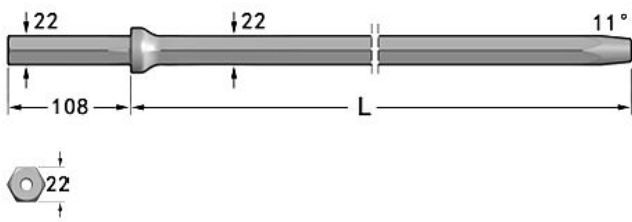


32	1 1/4	35	5×7	2×7	1	2	0.3	1431-321122-27/57-45-51
33	1 5/16	40	5×7	2×7	1	2	0.3	1431-331122-27/57-45-51
35	1 3/8	40	5×8	2×7	1	2	0.3	1431-351122-27/58-45-51
36	1 13/32	35	5×8	2×7	1	2	0.3	1431-361122-27/58-45-51
38	1 1/2	35	5×9	2×7	1	2	0.4	1431-381122-27/59-45-51
40	1 9/16	35	5×9	2×8	1	2	0.4	1431-401122-28/59-45-51
41	1 5/8	35	5×9	2×8	1	2	0.4	1431-411122-29/59-45-51

TAPERED EQUIPMENT

Description	Effective Length(L)			Diameter		Weight	Part No.
	mm	ft	in	mm	in		

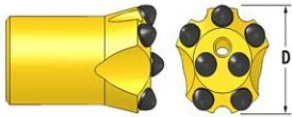
Tapered rods, Hex.22×108mm, 11° taper angle



800	2	7 1/2	22	7/8	2.8	21H22-11/108-0800-40
1220	4	-	22	7/8	4.2	21H22-11/108-1220-40
1525	5	-	22	7/8	5.3	21H22-11/108-1525-40
1600	5	3	22	7/8	5.4	21H22-11/108-1600-40
1830	6	-	22	7/8	5.9	21H22-11/108-1830-40
2000	6	6 3/4	22	7/8	6.6	21H22-11/108-2000-40
2435	8	-	22	7/8	7.7	21H22-11/108-2435-40
3200	10	6	22	7/8	10.3	21H22-11/108-3200-40
3655	11	11 7/8	22	7/8	11.7	21H22-11/108-3655-40
4000	13	1 1/2	22	7/8	12.8	21H22-11/108-4000-40
4800	15	9	22	7/8	15.2	21H22-11/108-4800-40

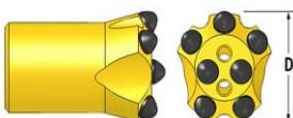
Description	Gauge diameter		Angle	Button No. size		Flushing hole			Weight	Part No.
	mm	in		°	Gauge	Face	Side	Face		

Button bit-Hex.22 12° tapered bit, short skirt



30	1 3/16	30	5×7	2×7	1	1	0.2	1431-301222-27/57-45-51
32	1 1/4	35	5×7	2×7	1	1	0.2	1431-321222-27/57-45-51
33	1 5/16	35	5×7	2×7	1	1	0.2	1431-331222-27/57-45-51
33	1 5/16	40	5×8	2×7	1	1	0.2	1431-331222-27/58-45-51
34	1 11/32	35	5×8	2×7	1	1	0.2	1431-341222-27/58-45-51
35	1 3/8	35	5×9	2×7	1	1	0.2	1431-351222-27/59-45-51
36	1 13/32	35	5×9	2×7	1	1	0.3	1431-361222-27/59-45-51
37	1 15/32	40	5×9	2×7	1	1	0.3	1431-371222-27/59-45-51
38	1 1/2	40	5×9	2×7	1	1	0.4	1431-381222-27/59-45-51
38	1 1/2	35	5×9	2×7	1	1	0.4	1431-381222-27/59-45-31
41	1 5/8	35	5×9	2×7	1	1	0.5	1431-411222-27/59-45-51
45	1 3/4	35	5×9	2×7	1	1	0.5	1431-451222-27/59-45-51

Button bit-Hex.22 12° tapered bit, short skirt

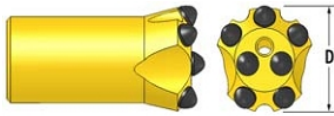


32	1 1/4	35	5×7	2×7	1	2	0.2	1431-321222B-27/57-45-51
33	1 5/16	35	5×7	2×7	1	2	0.2	1431-331222B-27/57-45-51

TAPERED EQUIPMENT

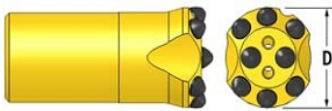
Description	Gauge diameter		Angle	Button No. size		Flushing hole			Weight	Part No.
	mm	in		Gauge	Face	Side	Face	kg		

Button bit- Hex.22 12° tapered bit, long skirt



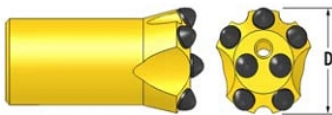
32	1 1/4	35	5×7	2×7	1	1	0.3	1435-321222-27/57-45-51
33	1 5/16	35	5×7	2×7	1	1	0.3	1435-331222-27/57-45-51
38	1 1/2	35	5×9	2×7	1	1	0.4	1435-381222-27/59-45-51

Button bit-Hex.22 12° tapered bit, long skirt



33	1 5/16	40	6×7	2×7	1	2	0.3	1435-331222-27/67-45-51
35	1 3/8	45	6×8	2×7	1	2	0.3	1435-351222-27/68-45-51

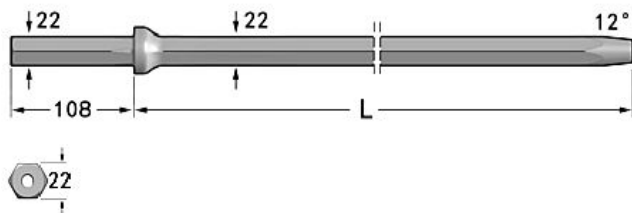
Button bit-Hex.25 12° tapered bit, long skirt



36	1 13/32	35	5×9	2×7	1	1	0.3	1435-361225-27/59-45-51
38	1 1/2	40	5×9	2×7	1	2	0.4	1435-381225-27/59-45-51
41	1 5/8	40	5×9	2×7	1	1	0.4	1435-411225-27/59-45-51

Description	Effective Length(L)			Diameter		Weight	Part No.
	mm	ft	in	mm	in		

Tapered rods, Hex.22×108mm, 12° taper angle

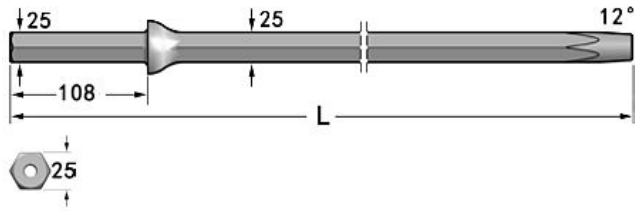


610	2	-	22	7/8	2.2	21H22-12/108-0610-40
800	2	7 1/2	22	7/8	2.8	21H22-12/108-0800-40
1220	4	-	22	7/8	4.2	21H22-12/108-1220-40
1525	5	-	22	7/8	4.9	21H22-12/108-1525-40
1830	6	-	22	7/8	6.1	21H22-12/108-1830-40
2000	6	6 3/4	22	7/8	6.8	21H22-12/108-2000-40
2435	8	-	22	7/8	7.6	21H22-12/108-2435-40
3050	10	-	22	7/8	9.9	21H22-12/108-3050-40
3200	10	6	22	7/8	9.9	21H22-12/108-3200-40
3655	12	-	22	7/8	11.7	21H22-12/108-3660-40
3965	13	-	22	7/8	12.2	21H22-12/108-3965-40
4800	15	9	22	7/8	14.7	21H22-12/108-4800-40

TAPERED EQUIPMENT

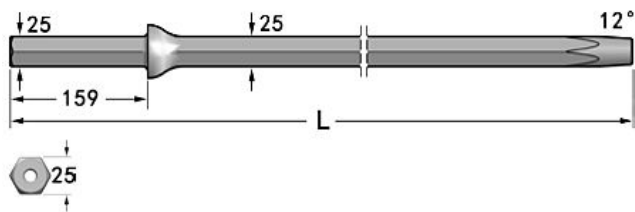
Description	Effective Length(L)			Diameter		Weight	Part No.
	mm	ft	in	mm	in		

Tapered rods, Hex.25×108mm, 12° taper angle



3660	12	-	22	7/8	15.3	21H25-12/108-3660-40
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Tapered rods, Hex.25×159mm, 12° taper angle



2400	7	10 1/2	22	7/8	10.4	21H25-12/159-2400-40
3965	13	-	22	7/8	16.0	21H25-12/159-3965-40