

# Integral drill steels and Tapered equipment

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# S T R E T T O G

Page

Code information ..... 5

Integral steels H 19 (3/4") and threaded integrals ..... 6

Integral steels H 22 (7/8") ..... 7

Tapered equipment, 12° taper ..... 8

Tapered equipment, 11° taper ..... 9

Tapered equipment, 7° taper ..... 10

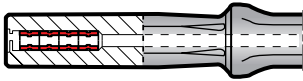
Stone working tools ..... 11

# Integral drill steels, Tapered equipment

## Code information

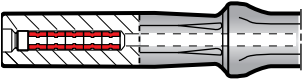
	Third figure group
Integral steels with reduced width of bit (small gauge steel) .....	xxx-xxxx-50
Integral steels with reduced width of bit, + tolerance (small gauge steel).....	xxx-xxxx-5005
Integral steels, Premium plus, H22, insert height 19 mm .....	xxx-xxxx-65
Shank rod, drilled for flushing tube 4.5-5 mm, packing .....	xxxx-xxxx-13
Tapered rod, drilled for flushing tube 4.5-5 mm, carburized.....	xxxx-6xxx-11
Tapered rod, drilled for flushing tube 4.5-5 mm, HF- hardened.....	xxxx-11xx-11
Cross bit, cemented carbide grade 42 .....	xxxx-xxxx-42
Tapered button bits, cemented carbide grade MP 45 with ballistic buttons.....	xxxx-xxxx-B45

### Packing designs for integral steels



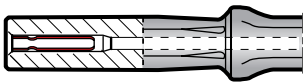
H 22 with 3 forged nibs for waist cylindrical packing, flushing tube 4.5-5 mm

Packing 795-1858 Type 1



H 22 with waist cylindrical packing, flushing tube 4.5-5 mm  
Ringshaped forging, according to DIN 20377

Packing 795-1858 Type 2



H 22 with plastic tube packing, flushing tube 4.5-5 mm

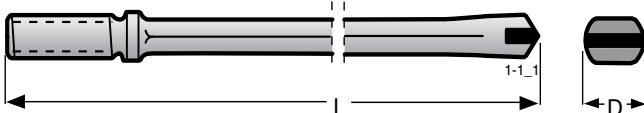
Packing 795-1856 Type 3

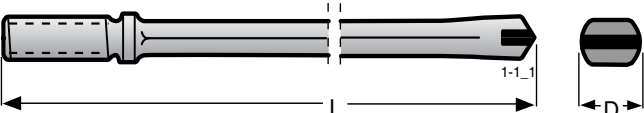
# Integral drill steels

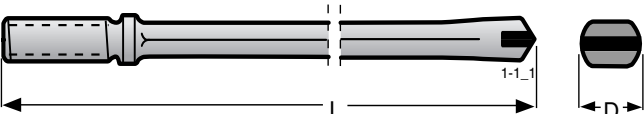
## H19 (3/4) and Threaded integrals

Series	Dimensions L			D		Part No.
	mm	ft	in	mm	in	
<b>Shank 19 x 108 mm (3/4"x 4 1/4")</b>						
21	400	1'	4"	29	19/64"	724-0429
	800	2'	7"	28	1 7/64"	724-0828
	1600	5'	3"	27	1 1/16"	724-1627
	2400	7'	10"	26	1 1/32"	724-2426
24	600	2'	-	27	1 1/16"	724-0627
	1200	3'	11"	26	1 1/32"	724-1226
25	400	1'	4"	35	1 3/8"	724-0435
	800	2'	7"	34	1 11/32"	724-0834
Boulder steel	400	1'	4"	24	15/16"	724-0424
	800	2'	7"	23	29/32"	724-0823

<b>Shank 22 x 108 mm (7/8"x 4 1/4")</b>						
	400	1'	4"	24	15/16"	728-0424
	400	1'	4"	29	1 9/64"	728-0429
	800	2'	7"	28	1 7/64"	728-0828
	1600	5'	3"	27	1 1/16"	728-1627

<b>Threaded integral drill steels, R28 - Hex 22</b>						7429-XXYY-10
						

<b>Threaded integral drill steels, R28 - Hex 25</b>						7439-XXYY-10
						

<b>Threaded integral drill steels, R32 - Hex 25</b>						7433-2532-10
	2515	8'	3"	32	1 1/4"	
						

# Integral drill steels

## H22 (7/8")

Series	Dimensions L			D		Part No.
	mm	ft	in	mm	in	
<b>Shank 22x108 mm (7/8" x 4 1/4")</b>						
11	800	2'	7"	34	1 11/32"	714-0834-65
	1600	5'	3"	33	1 19/64"	714-1633-65
	2400	7'	10"	32	1 1/4"	714-2432-65
	3200	10'	6"	31	1 7/32"	714-3231
	4000	13'	1"	30	1 3/16"	714-4030
	4800	15'	9"	29	1 9/64"	714-4829
	5600	18'	4"	28	1 7/64"	714-5628-50
	6400	21'	-	27	1 1/16"	714-6427-50
7200	23'	8"	26	1 1/32"	714-7226-50	
12	800	2'	7"	40	1 37/64"	714-0840-65
	1600	5'	3"	39	1 17/32"	714-1639-65
	2400	7'	10"	38	1 1/2"	714-2438-65
	3200	10'	6"	37	1 29/64"	714-3237-65
	4000	13'	1"	36	1 27/64"	714-4036-65
	4800	15'	9"	35	1 3/8"	714-4835-65
	5600	18'	4"	34	1 11/32"	714-5634-65
	6400	21'	-	33	1 19/64"	714-6433-65
7200	23'	8"	32	1 1/4"	714-7232-65	
13	400	1'	4"	34	1 11/32"	714-0434-65
	800	2'	7"	33	1 19/64"	714-0833-65
	1200	3'	11"	32	1 1/4"	714-1232-65
	1600	5'	3"	31	1 7/32"	714-1631
	2000	6'	7"	30	1 3/16"	714-2030
16	600	2'	-	35	1 3/8"	714-0635-65
	1200	3'	11"	34	1 11/32"	714-1234-65
	1800	5'	11"	33	1 19/64"	714-1833-65
	2400	7'	10"	32	1 1/4"	714-2432-65
17	600	2'	-	41	1 5/8"	714-0641-65
	1200	3'	11"	40	1 37/64"	714-1240-65
	1800	5'	11"	39	1 17/32"	714-1839-65
	2400	7'	10"	38	1 1/2"	714-2438-65

### Shank 22x108 mm (7/8"x 4 1/4")

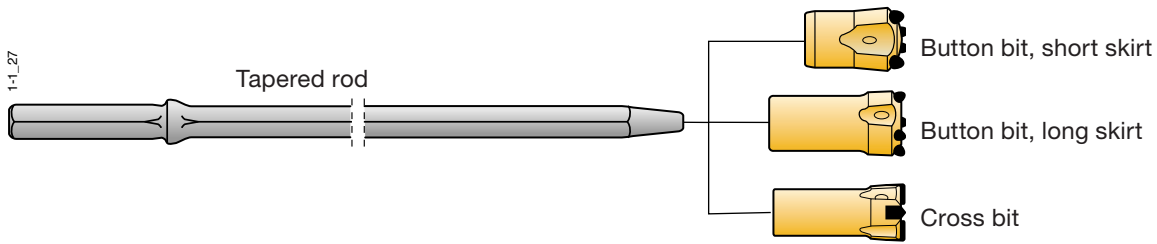
	2000	6'	7"	33	1 19/64"	714-2033-65
	8000	26'	3"	26	1 1/32"	714-8026-50
	8800	28'	11"	25	1"	714-8825-5005
	9600	31'	6"	25	1"	714-9625-5005

### Shank 22x108 mm (7/8"x 4 1/4")

	800	2'	7"	29	1 9/64"	714-0829-50
	1600	5'	3"	28	1 7/64"	714-1628-50
	2400	7'	10"	27	1 1/16"	714-2427-50

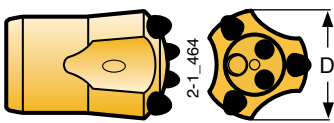
# H22 Tapered equipment

## Taper 12°



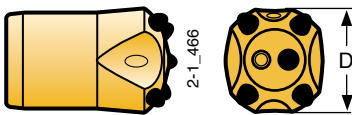
Flushinghole, mm		Buttons, mm		Angle	Dimensions		Part No.
Front	Gauge	Front	Gauge		D		
No	Size	No	No	Size	Size	mm	in

### Button bit



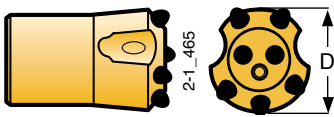
1x6	2x4	2x7	3x8	35°	32	1 1/4"	7795-1932-B45
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### Button bit



1x4	1x6	1x7	4x7	30°	26	1 1/32"	7795-6426-B45
1x5	1x5	1x7	4x7	35°	28	1 1/8"	7795-6428-B45
1x5	1x5	1x7	4x7	35°	30	1 3/16"	7795-6430-B45
1x5.5	1x4	1x7	4x8	35°	32	1 1/4"	7795-6432-B45
1x5.5	1x5.5	2x7	4x8	35°	35	1 3/8"	7795-6435-B45

### Button bit



2x4	1x4	2x7	5x7	40°	32	1 1/4"	7795-5232-R45
1x4.5	1x6	2x7	5x7	35°	35	1 3/8"	7795-5235-R45
1x6	1x5	2x7	5x8	35°	38	1 1/2"	7795-5238-R45

### Button bit



1x4	1x6	2x7	5x7	35°	33	1 9/64"	7770-5233-R45
1x4.5	1x6	2x7	5x7	35°	35	1 3/8"	7770-5235-R45

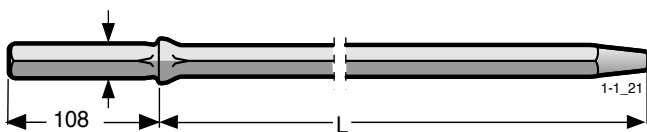
### Cross bit

1x4	2x4	-	-	-	28	1 1/8"	7770-9028-42
1x4	2x4	-	-	-	30	1 3/16"	7770-9030-42
1x6	2x4.5	-	-	-	32	1 1/4"	7770-9032-42
1x6	2x4.5	-	-	-	35	1 3/8"	7770-9035-42

### Dimensions

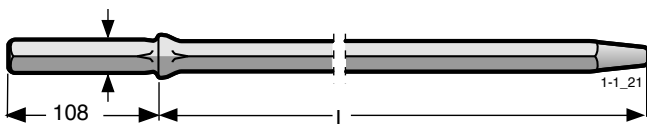
L	Dimensions		D	Part No.
	mm	ft		

### Tapered rod, shank 22x108, carburized



610	2'	22	7/8"	7870-6106-11
1220	4'	22	7/8"	7870-6112-11
1830	6'	22	7/8"	7870-6118-11
1980	6'	22	7/8"	7870-6120-11
2440	8'	22	7/8"	7870-6124-11
3050	10'	22	7/8"	7870-6131-11
3660	12'	22	7/8"	7870-6137-11

### Tapered rod, shank 22x108, HF-hardened



5485	18'	22	7/8"	7870-1155-11
6400	21'	22	7/8"	7870-1164-11
7315	24'	22	7/8"	7870-1173-11

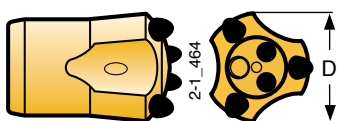
# H22 Tapered equipment

## Taper 11°



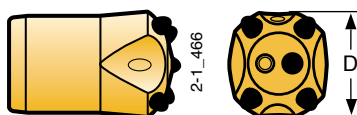
Flushinghole, mm		Buttons, mm		Angle	Dimensions		Part No.
Front	Gauge	Front	Gauge		D		
No Size	No Size	No Size	No Size		mm	in	

### Button bit



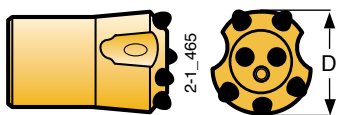
1x6	2x4	2x7	3x8	35°	32	1 1/4"	7776-1932-B45
1x6	1x6	1x8	3x9	40°	36	1 7/16"	7776-1936-B45
1x6	1x6	2x8	3x9	40°	38	1 1/2"	7776-1938-B45
1x6	1x6	2x8	3x9	40°	40	1 37/64"	7776-1940-B45

### Button bit



1x5.5	1x4	1x7	4x8	35°	32	1 1/4"	7776-6432-B45
1x5.5	1x5.5	2x7	4x8	35°	35	1 3/8"	7776-6435-B45
1x6	1x6	2x8	4x8	40°	38	1 1/2"	7776-6438-B45

### Button bit

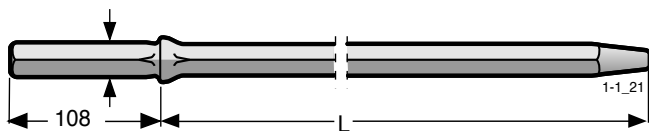


1x4	1x6	2x7	5x7	40°	32	1 1/4"	7776-5232-R45
1x5	1x5	2x7	5x7	35°	35	1 3/8"	7776-5235-R45
1x6	1x5	2x7	5x8	35°	38	1 1/2"	7776-5238-R45

### Dimensions

L		D		Part No.
mm	ft	mm	in	

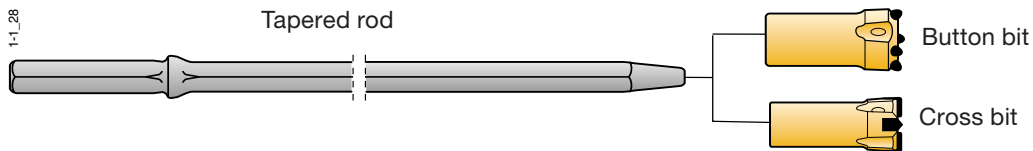
### Tapered rod, shank 22x108, carburized



1220	4'	22	7/8"	7876-6112-11
1830	6'	22	7/8"	7876-6118-11
2440	8'	22	7/8"	7876-6124-11
3050	10'	22	7/8"	7876-6131-11

# H22 Tapered equipment

## Taper 7°



Flushinghole, mm		Buttons, mm			Dimensions		Part No.
Front	Gauge	Front	Gauge	Angle	D		
No Size	No Size	No Size	No Size		mm	in	

### Button bit



2x4	1x6	2x7	5x7	40°	32	1 1/4"	7788-5232-R45
1x1.5	1x6	2x7	5x7	35°	35	1 3/8"	7788-5235-R45
1x6	1x5	2x7	5x8	35°	38	1 1/2"	7788-5238-R45

Flushinghole, mm		Dimensions		Part No.
Front	Gauge	D		
No Size	No Size	mm	in	

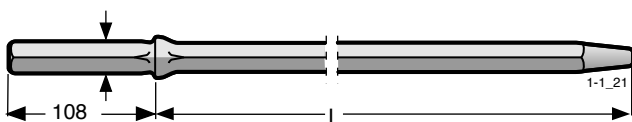
### Cross bit



1x4	2x4	30	1 3/16"	7788-9030-42
1x6	2x4.5	32	1 1/4"	7788-

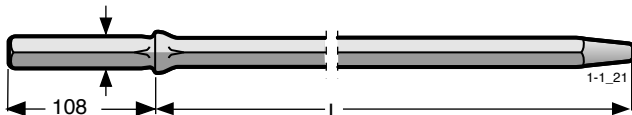
Dimensions		Part No.	
L	D		
mm	ft	mm	in

### Tapered rod, shank 22x108, carburized



610	2'	22	7/8"	7888-6106-11
1220	4'	22	7/8"	7888-6112-11
1830	6'	22	7/8"	7888-6118-11
2440	8'	22	7/8"	7888-6124-11
3050	10'	22	7/8"	7888-6131-11
3660	12'	22	7/8"	7888-6137-11

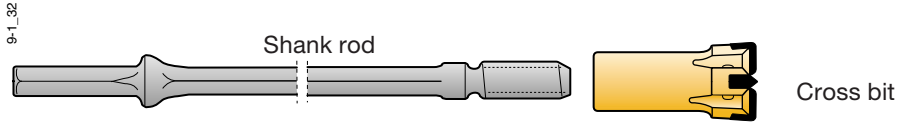
### Tapered rod, shank 22x108, HF-hardened



5485	18'	22	7/8"	7888-1155-11
6400	21'	22	7/8"	7888-1164-11
7315	24'	22	7/8"	7888-1173-11

# Stone working tools

Plug hole integral steel



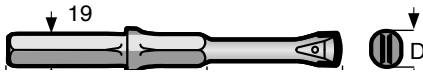
**Dimensions**

L mm ft in D mm in

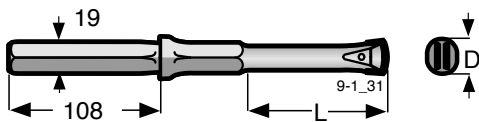
**Part No.**

**Plug hole integral steel**

160	6 1/4"	20	25/32"	<b>722-1620</b>
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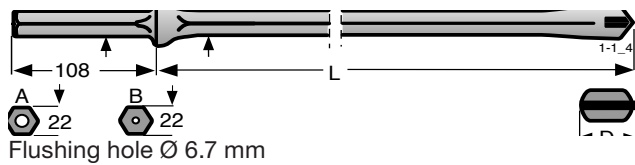


**Plug hole integral steel**



150	6"	17	21/32"	<b>721-1517</b>
160	6 1/4"	20	25/32"	<b>721-1620</b>
200	7 7/8"	20	25/32"	<b>721-2020</b>
240	9 29/64"	20	25/32"	<b>721-2420</b>
280	11 1/32"	20	25/32"	<i>721-2820</i>
160	6 1/4"	22	7/8"	<b>721-1622</b>
190	7 1/2"	22	7/8"	<b>721-1922</b>

**Shank rod, Hex22 - R25**



255	10 3/64"	22	7/8"	<b>7802-6103-13</b>
800	2'	2 1/2"	7/8"	<b>7802-6108-13</b>
1000	3'	3/8"	7/8"	<b>7802-6110-13</b>

*Packing*  
**795-1831**

**Dimensions**

D mm in

**Part No.**

**Cross bit, R25**



38	1 1/2"	<b>7732-1438-42</b>
41	1 5/8"	<b>7732-1441-42</b>
45	1 3/4"	<b>7732-1045-42</b>