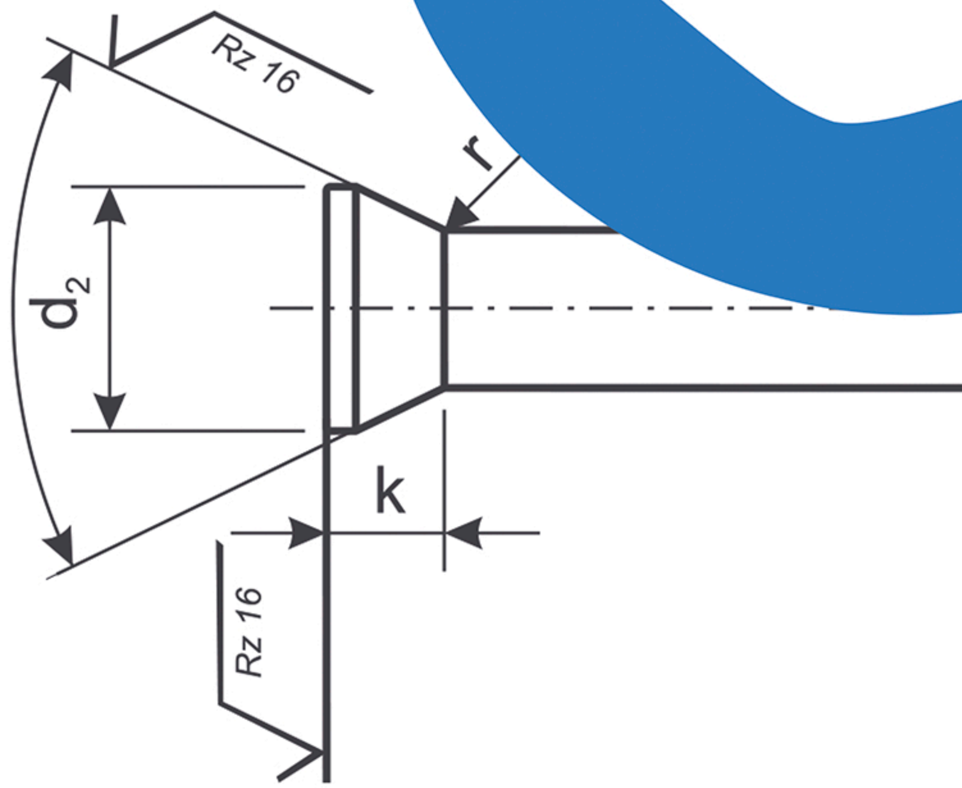
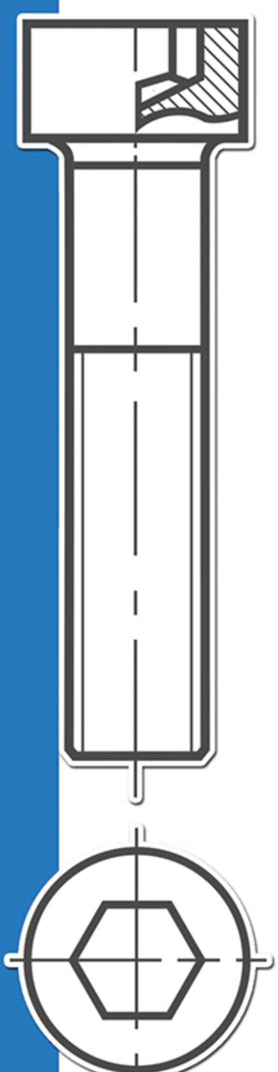
DIN 179
AJV
DIN 912
DIN 912
DIN 7979
DIN 6325
ISO 10243
ISO 4762
TYP A1
TYP A1,5
TYP B1
TYP B1,5
VHM

DIN 1530 AH
DIN ISO6751
DIN 1530D
DIN 1530C
DIN 1530CH
DIN 1530FA
DIN 1530FAH
DIN 1530F
DIN 16756
DIN 16756
DIN 9861D
DIN 8020A





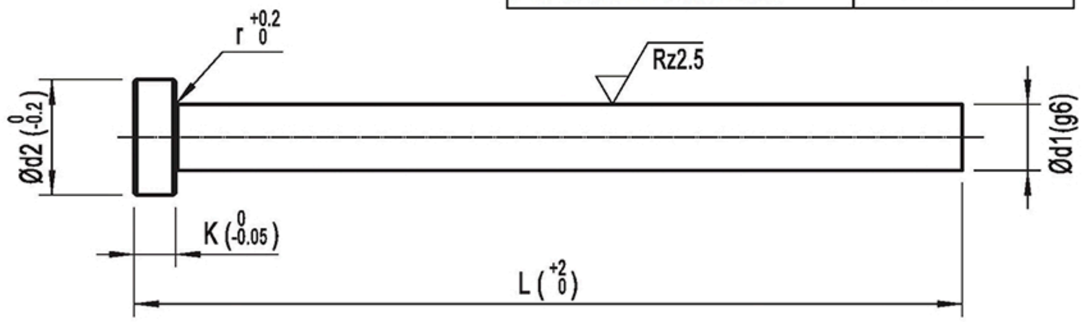
KATALOG PRODUKTÓW

ROMAX

ROMAX

Wypychacz azotowany DIN 1530A

Materiał	SKD61(1.2343)
Twardość powierzchni	>HV950
Twardość rdzenia	HRC40-45

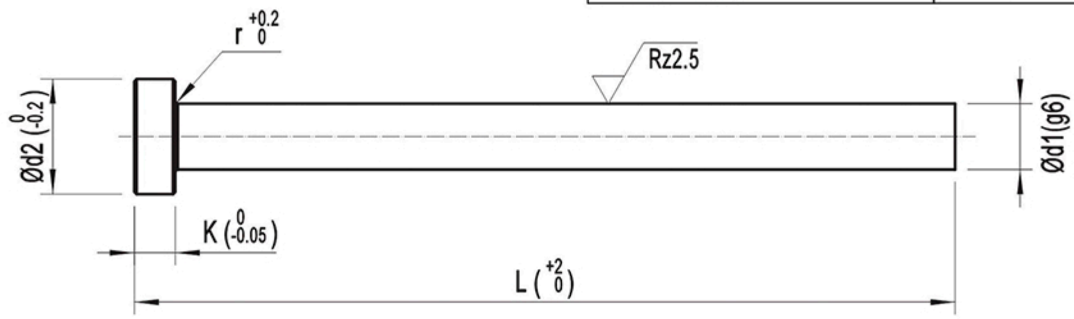


(mm)

d1	d2	K	L										
			100	125	160	200	250	315	400	500	630	800	1000
1	2.5	1.2	●	●	●	●	●						
1.5	3	1.5	●	●	●	●							
2	4	2	●	●	●	●	●	●	●				
2.2			●	●	●	●	●	●	●				
2.5	5		●	●	●	●	●	●	●				
3	6	3	●	●	●	●	●	●	●	●	●		
3.2			●	●	●	●	●	●	●	●			
3.5	7		●	●	●	●	●	●	●	●			
3.7			●	●	●	●	●	●	●				
4	8		●	●	●	●	●	●	●	●	●		
4.2			●	●	●	●	●	●	●				
4.5			●	●	●	●	●	●	●				
5	10		●	●	●	●	●	●	●	●	●		
5.2			●	●	●	●	●	●	●				
5.5			●	●	●	●	●	●	●				
6	12	5	●	●	●	●	●	●	●	●	●	●	●
6.2			●	●	●	●	●	●	●	●			
6.5			●	●	●	●	●	●	●	●			
7			●	●	●	●	●	●	●	●	●		
7.5			●	●	●	●	●	●	●	●			
8	14		●	●	●	●	●	●	●	●	●	●	●
8.2			●	●	●	●	●	●	●	●			
8.5			●	●	●	●	●	●	●	●			
10	16		●	●	●	●	●	●	●	●	●	●	●
10.2			●	●	●	●	●	●	●	●			
10.5			●	●	●	●	●	●	●	●			
11			●	●	●	●	●	●	●	●	●		
12	18	7	●	●	●	●	●	●	●	●	●	●	●
12.5			●	●	●	●	●	●	●	●	●		
14	22		●	●	●	●	●	●	●	●	●	●	●
16			●	●	●	●	●	●	●	●	●	●	●
18	24		●	●	●	●	●	●	●	●	●	●	●
20	26	8	●	●	●	●	●	●	●	●	●	●	●
25	32	10				●	●	●	●	●	●	●	●
32	40					●	●	●	●	●	●	●	●

Wypychacz hartowany DIN 1530AH

Materiał	SUJ2(1.2210)
Twardość główki	HRC45±5
Twardość	HRC60±2



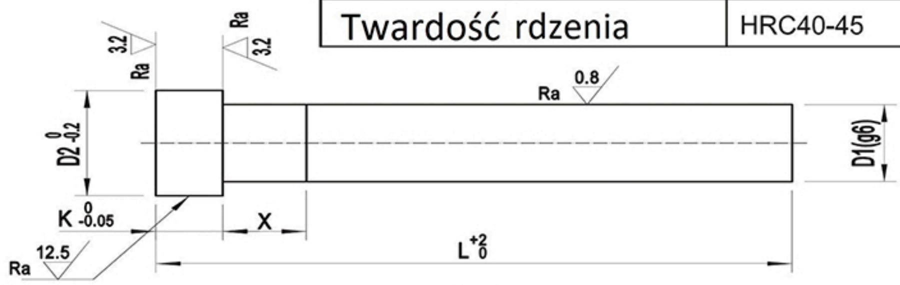
(mm)

d1	d2	K	L										
			100	125	160	200	250	315	400	500	630	800	1000
1	2.5	1.2	●	●	●	●	●						
1.5	3	1.5	●	●	●	●							
2	4	2	●	●	●	●	●	●	●				
2.2			●	●	●	●	●	●	●				
2.5	5		●	●	●	●	●	●	●				
3	6	3	●	●	●	●	●	●	●	●	●		
3.2			●	●	●	●	●	●	●	●			
3.5	7		●	●	●	●	●	●	●	●			
3.7			●	●	●	●	●	●	●				
4	8		●	●	●	●	●	●	●	●	●		
4.2			●	●	●	●	●	●	●				
4.5			●	●	●	●	●	●	●				
5	10		●	●	●	●	●	●	●	●	●		
5.2			●	●	●	●	●	●	●				
5.5			●	●	●	●	●	●	●				
6	12	5	●	●	●	●	●	●	●	●	●	●	●
6.2			●	●	●	●	●	●	●	●			
6.5			●	●	●	●	●	●	●	●			
7			●	●	●	●	●	●	●	●	●		
7.5			●	●	●	●	●	●	●	●			
8	14		●	●	●	●	●	●	●	●	●	●	●
8.2			●	●	●	●	●	●	●	●			
8.5			●	●	●	●	●	●	●	●			
10	16		●	●	●	●	●	●	●	●	●	●	●
10.2			●	●	●	●	●	●	●	●			
10.5			●	●	●	●	●	●	●	●			
11			●	●	●	●	●	●	●	●	●		
12	18	7	●	●	●	●	●	●	●	●	●	●	●
12.5			●	●	●	●	●	●	●	●	●		
14	22		●	●	●	●	●	●	●	●	●	●	●
16			●	●	●	●	●	●	●	●	●	●	●
18	24		●	●	●	●	●	●	●	●	●	●	●
20	26	8	●	●	●	●	●	●	●	●	●	●	●
25	32	10				●	●	●	●	●	●	●	●
32	40					●	●	●	●	●	●	●	●

Materiał SKH-51 jest dostępny na żądanie

Wypychacz czarny azotowany plazmowo DIN ISO6751

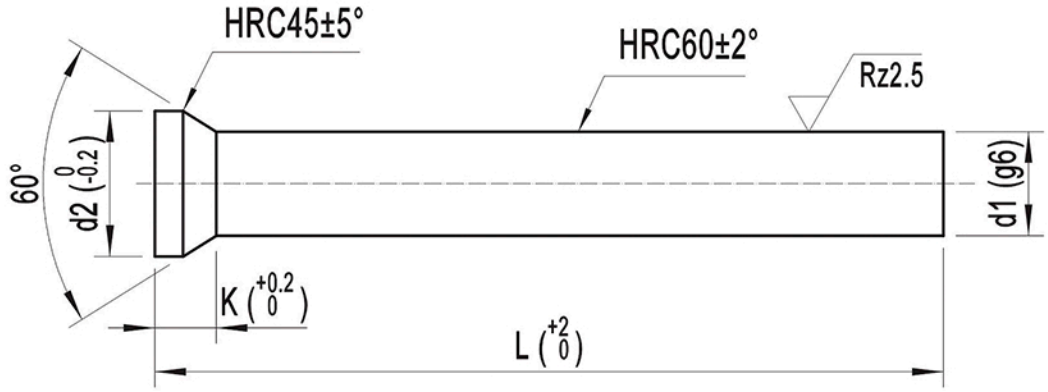
Materiał	SKD61(1.2343)
Twardość powierzchni	>HV950
Twardość rdzenia	HRC40-45



Specyfikacja wymiaru				Element nr. BR08												
Wałek ΦD1 g6	Główka ΦD2 -0.2	Wysokość główki K-0.05	Promień +0.2	Całkowita długość L_{+2}												
				100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1.5	3	1.5	0.2													
2.0	4	2														
2.2																
2.5	5		0.3													
2.7																
3.0	6	3														
3.2																
3.5	7															
3.7																
4.0	8															
4.2																
4.5																
5.0	10															
5.2																
5.5																
6.0	12	5	0.5													
6.2																
6.5																
7.0																
7.5																
8.0	14															
8.2																
8.5																
9.0																
9.5																
10.0	16															
10.2																
10.5																
11.0																
12.0	18	7	0.8													
12.2																
12.5																
14.0	22															
14.5																
16.0																
16.5																
18.0	24															
18.5																
20.0	26	8	1.0													
20.5																
25.0	32	10														

Wypychacz hartowany DIN 1530D

Materiał	WS(1.2210)
Twardość główki	HRC45±5
Twardość	HRC60±2

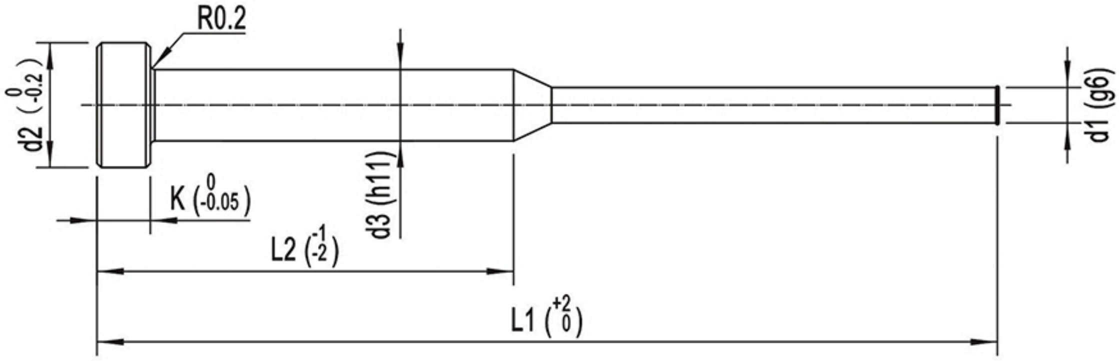


(mm)

d1	d2	K	L				
			100	125	160	200	250
1.0	1.8	1.20	●	●	●	●	
1.2	2.0	1.20	●	●	●	●	
1.5	2.2	1.11	●	●	●	●	
1.6	2.5	1.30	●	●	●	●	
1.8	2.8	1.40	●	●	●	●	
2.0	3.0	1.40	●	●	●	●	
2.2	3.2	1.45	●	●	●	●	
2.5	3.5	1.40	●	●	●	●	
2.6	4.0	1.70	●	●	●	●	
2.8	4.0	1.54	●	●	●	●	
3.0	4.5	1.80	●	●	●	●	
3.2	4.5	1.63	●	●	●	●	●
3.5	5.0	1.80	●	●	●	●	●
3.6	5.0	1.70	●	●	●	●	●
3.8	5.0	1.70	●	●	●	●	●
4.0	5.5	1.80	●	●	●	●	●
4.2	5.5	1.80	●	●	●	●	●
4.5	6.0	1.80	●	●	●	●	●
5.0	6.5	1.80	●	●	●	●	●
5.2	6.5	1.80	●	●	●	●	●
5.5	7.0	1.80	●	●	●	●	●
6.0	8.0	2.20	●	●	●	●	●
6.2	8.0	2.20	●	●	●	●	●
6.5	9.0	3.20	●	●	●	●	●
7.0	9.0	2.70	●	●	●	●	●
7.5	10.0	3.20	●	●	●	●	●
8.0	10.0	2.70	●	●	●	●	●
8.2	10.0	2.70	●	●	●	●	●
8.5	11.0	3.20	●	●	●	●	●
9.0	11.0	2.70	●	●	●	●	●
10.0	12.0	2.70	●	●	●	●	●
12.0	14.0	2.70	●	●	●	●	●
14.0	16.0	3.23	●	●	●	●	●
16.0	18.0	3.23	●	●	●	●	●
17.0	19.0	2.23	●	●	●	●	●
18.0	20.0	3.20	●	●	●	●	●
19.0	21.0	3.20	●	●	●	●	●
20.0	22.0	3.20	●	●	●	●	●

Wypychacz odsadzony azotowany DIN 1530C

Materiał	SKD61(1.2343)
Twardość powierzchni	>HV950
Twardość rdzenia	HRC40-45

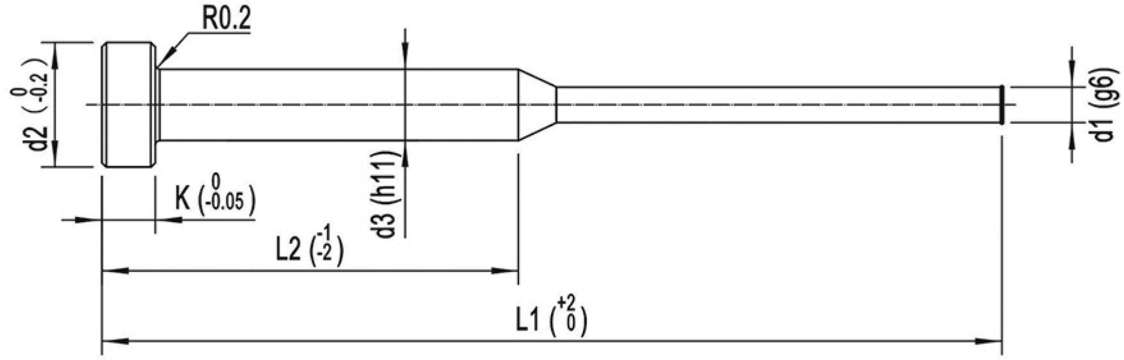


(mm)

d1	d3	d2	k	L2			
				50	50	63	80
g6	h11	0 −0.2	0 −0.05	$L1^{+2}_{0}$			
				100	125	160	200
1	2	4	2	•	•	•	•
1.2				•	•	•	•
1.5	3	6	3	•	•	•	•
2				•	•	•	•
2.2				•	•	•	•
2.5				•	•	•	•

Wypychacz odsadzony hartowany DIN 1530CH

Materiał	SKD61(1.2343)
Twardość powierzchni	>HV950
Twardość rdzenia	HRC40-45

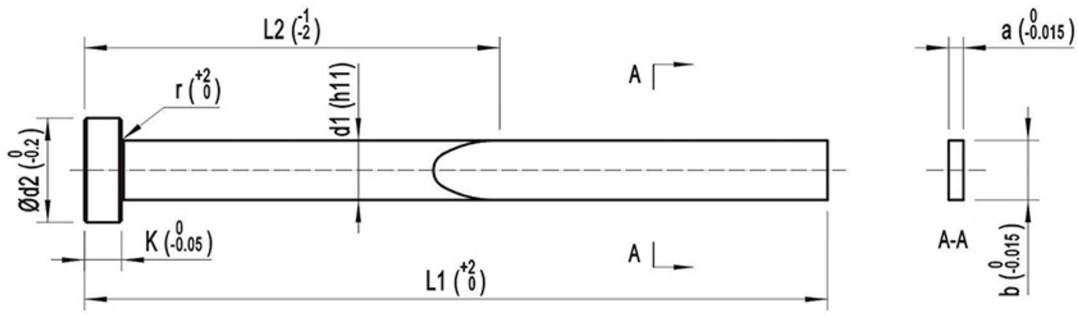


(mm)

d1	d3	d2	k	L2			
				50	50	63	80
g6	h11	0 −0.2	0 −0.05	L1 $^{+2}_{0}$			
				100	125	160	200
1	2	4	2	•	•	•	•
1.2				•	•	•	•
1.5	3	6	3	•	•	•	•
2				•	•	•	•
2.2				•	•	•	•
2.5				•	•	•	•

Wypychacz płaski azotowany DIN 1530FA

Materiał	SKD61(1.2343)
Twardość powierzchni	>HV950
Twardość rdzenia	HRC40-45

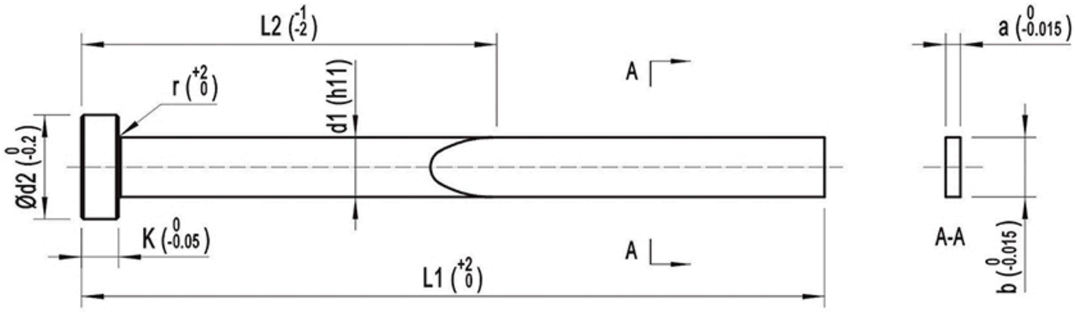


(mm)

d1	a	b	d2	k	L2						
					50	60	80	100	125	160	200
h11	0 −0.015	0 −0.015	0 −0.2	0 −0.05	L1						
					100	125	160	200	250	315	400
4	1	3.5	8	3	•	•					
4.2	1	3.8		3	•	•	•				
	1.2			3	•	•	•				
6	1.2	5.5	12	5	•	•	•				
	1.5			5	•	•	•				
	2			5	•	•	•	•			
8	1.2	7.5	14	5	•	•	•	•			
	1.5			5	•	•	•	•	•		
	2			5	•	•	•	•	•	•	
10	1.5	9.5	16	5	•	•	•	•	•	•	
	2			5	•	•	•	•	•	•	•
12	2	11.5	18	7	•	•	•	•	•	•	•
	2.5			7	•	•	•	•	•	•	•
16	2	15.5	22	7				•	•	•	•
	2.5			7				•	•	•	•

Wypychacz płaski hartowany DIN 1530FAH

Materiał	WS(1.2210)
Twardość główki	HRC45±5
Twardość	HRC60±2

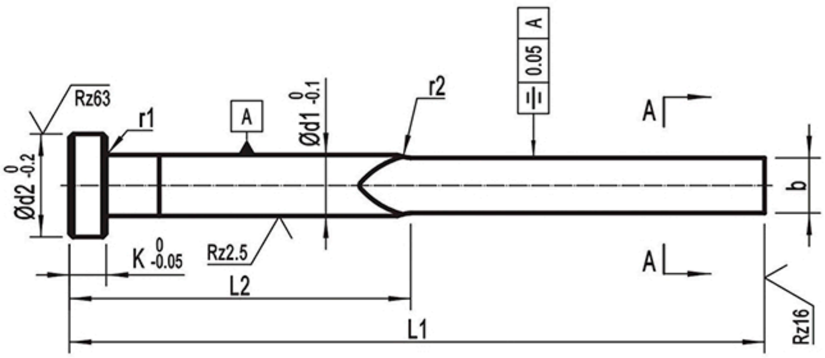


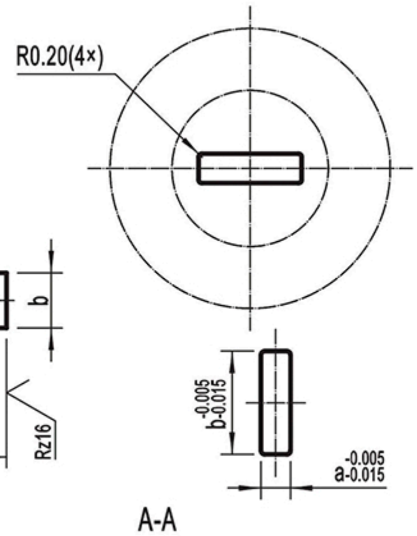
(mm)

d1	a	b	d2	k	L2						
					50	60	80	100	125	160	200
h11	0 −0.015	0 −0.015	0 −0.2	0 −0.05	L1						
					100	125	160	200	250	315	400
4	1	3.5	8	3	•	•					
4.2	1	3.8		3	•	•	•				
	1.2			3	•	•	•				
6	1.2	5.5	12	5	•	•	•				
	1.5			5	•	•	•				
	2			5	•	•	•	•			
8	1.2	7.5	14	5	•	•	•	•			
	1.5			5	•	•	•	•	•		
	2			5	•	•	•	•	•	•	
10	1.5	9.5	16	5	•	•	•	•	•	•	
	2			5	•	•	•	•	•	•	•
12	2	11.5	18	7	•	•	•	•	•	•	•
	2.5			7	•	•	•	•	•	•	•
16	2	15.5	22	7				•	•	•	•
	2.5			7				•	•	•	•

Wypychacz płaski hartowany DIN 1530F

Materiał	WS (1.2210)
Twardość główki	HRC45±5
Twardość	HRC60±2



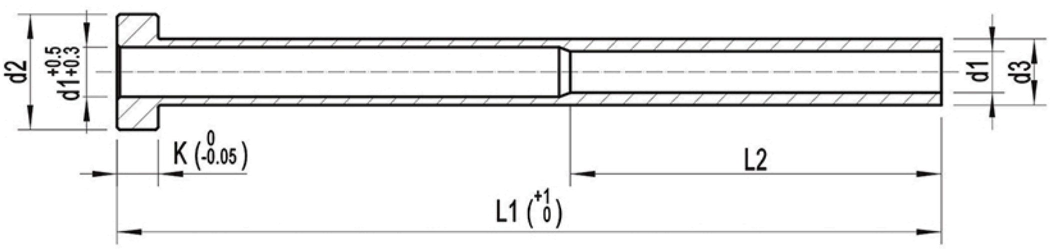


(mm)

d1	a	b	d2	k	L2: 50	60	80	100	125	160	200
h11	−0.005 −0.015	−0.005 −0.015	0 −0.2	0 −0.05	L1: 100	125	160	200	250	315	400
4	1	3.5	8	3	•	•					
4.2	1	3.8		3	•	•	•				
	1.2			3	•	•	•				
6	1.2	5.5	12	5	•	•	•				
	1.5			5	•	•	•				
	2			5	•	•	•	•			
8	1.2	7.5	14	5	•	•	•	•			
	1.5			5	•	•	•	•	•		
	2			5	•	•	•	•	•	•	
10	1.5	9.5	16	5	•	•	•	•	•	•	
	2			5	•	•	•	•	•	•	•
12	2	11.5	18	7	•	•	•	•	•	•	•
	2.5			7	•	•	•	•	•	•	•
16	2	15.5	22	7				•	•	•	•
	2.5			7				•	•	•	•

Wypychacz tulejowy azotowany DIN 16756

Materiał	SKD61 (1.2343)
Twardość głowki	HRC45±5
Twardość powierzchni	HV1000±100

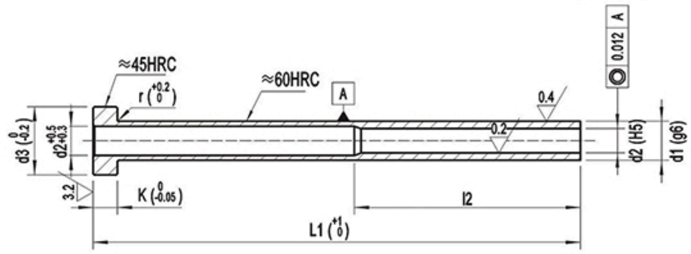


(mm)

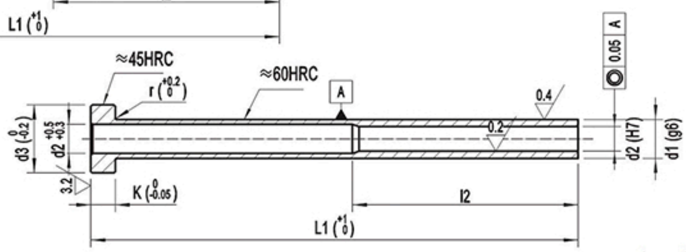
d1	d3	d2	k	L2	$L1^{+1}_{0}$							
H5/H7	g6	0 −0.2	0 −0.05	+2	75	100	125	150	175	200	225	250
2	4	8	3	25	•	•	•	•	•	•	•	•
2.2	4	8	3	25	•	•	•	•	•	•	•	•
3	5	10	3	35	•	•	•	•	•	•	•	•
3.2	5	10	3	35	•	•	•	•	•	•	•	•
4	6	12	5	35	•	•	•	•	•	•	•	•
4.2	8	14	5	45	•	•	•	•	•	•	•	•
5	8	14	5	45	•	•	•	•	•	•	•	•
5.2	8	14	5	45	•	•	•	•	•	•	•	•
6	10	16	5	45	•	•	•	•	•	•	•	•
6.2	10	16	5	45	•	•	•	•	•	•	•	•
8	12	20	7	45	•	•	•	•	•	•	•	•
8.2	12	20	7	45	•	•	•	•	•	•	•	•
10	14	22	7	45	•	•	•	•	•	•	•	•
12	16	22	7	45	•	•	•	•	•	•	•	•

Wypychacz tulejowy hartowany DIN 16756

Materiał	WS(1.2210)
Twardość główki	HRC45±5
Twardość	HRC60±2



▲BES-1(H5)



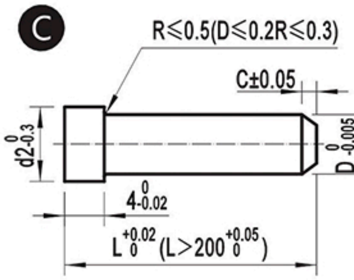
▶BES-2(H7)

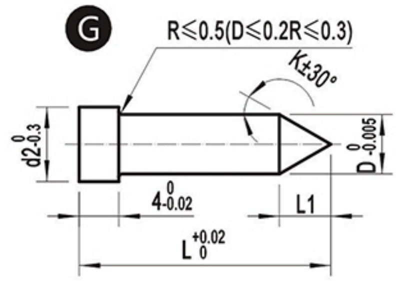
(mm)

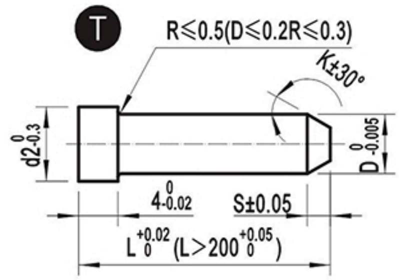
d1	d2	d3	l2	l3	L												
					60	75	100	125	150	175	200	225	250	275	300	325	350
4	2	8	35	3	•	•	•	•	•	•	•	•	•				
4	2.2	8	35	3	•	•	•	•	•	•	•	•	•				
4	2.5	8	35	3	•	•	•	•	•	•	•						
4.5	3	8	45	3	•	•	•	•	•	•	•						
5	2.5	10	35	3	•	•	•	•	•	•	•	•	•				
5	2.7	10	35	3	•	•	•	•	•	•	•	•	•				
5	3	10	45	3	•	•	•	•	•	•	•	•	•	•	•		
5	3.2	10	45	3	•	•	•	•	•	•	•	•	•	•	•		
5	3.5	10	45	3	•	•	•	•	•	•	•						
5.5	4	10	45	3	•	•	•	•	•	•	•	•					
6	3.5	12	45	5	•	•	•	•	•	•	•	•	•	•	•		
6	3.7	12	45	5	•	•	•	•	•	•	•	•	•	•	•		
6	4	12	45	5	•	•	•	•	•	•	•	•	•	•	•		
6	4.2	12	45	5	•	•	•	•	•	•	•	•	•	•	•		
6	4.5	12	45	5	•	•	•	•	•	•	•	•	•	•	•		
7	5	12	45	5	•	•	•	•	•	•	•	•	•				
8	4.2	14	45	5	•	•	•	•	•	•	•	•	•	•	•		
8	4.5	14	45	5	•	•	•	•	•	•	•	•	•				
8	5	14	45	5	•	•	•	•	•	•	•	•	•	•	•	•	
8	5.2	14	45	5	•	•	•	•	•	•	•	•	•	•	•	•	
8	5.5	14	45	5	•	•	•	•	•	•	•	•	•	•	•	•	
9	6	14	45	5	•	•	•	•	•	•	•	•	•	•	•		
10	6	16	45	5	•	•	•	•	•	•	•	•	•	•	•	•	
10	6.2	16	45	5	•	•	•	•	•	•	•	•	•	•	•	•	
10	6.5	16	45	5	•	•	•	•	•	•	•	•	•	•	•	•	
10	7	16	45	5	•	•	•	•	•	•	•	•	•	•	•	•	
11	8	16	45	5	•	•	•	•	•	•	•	•	•	•	•		
12	8	20	45	7	•	•	•	•	•	•	•	•	•	•	•	•	•
12	8.2	20	45	7	•	•	•	•	•	•	•	•	•	•	•	•	•
12	8.5	20	45	7	•	•	•	•	•	•	•	•	•	•	•	•	•
12	9	20	45	7	•	•	•	•	•	•	•	•	•	•	•	•	•
14	10	22	45	7		•	•	•	•	•	•	•	•	•	•	•	•
14	10.2	22	45	7		•	•	•	•	•	•	•	•	•	•	•	
14	10.5	22	45	7		•	•	•	•	•	•	•	•	•	•	•	
14	11	22	45	7		•	•	•	•	•	•	•	•	•	•		
16	12	22	45	7		•	•	•	•	•	•	•	•	•	•	•	
16	12.5	22	45	7		•	•	•	•	•	•	•	•	•	•	•	
20	16	26	45	8		•	•	•	•	•	•	•	•	•	•		

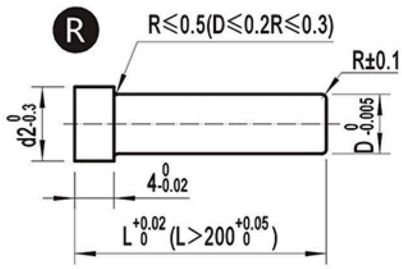
Szpilki rdzeniowe

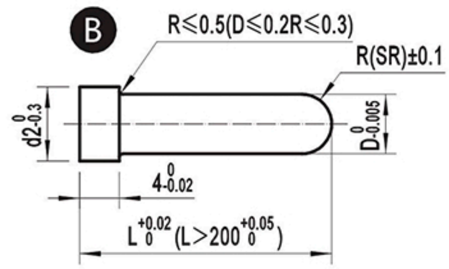
Materiał	HSS
Twardość	HRC62±2









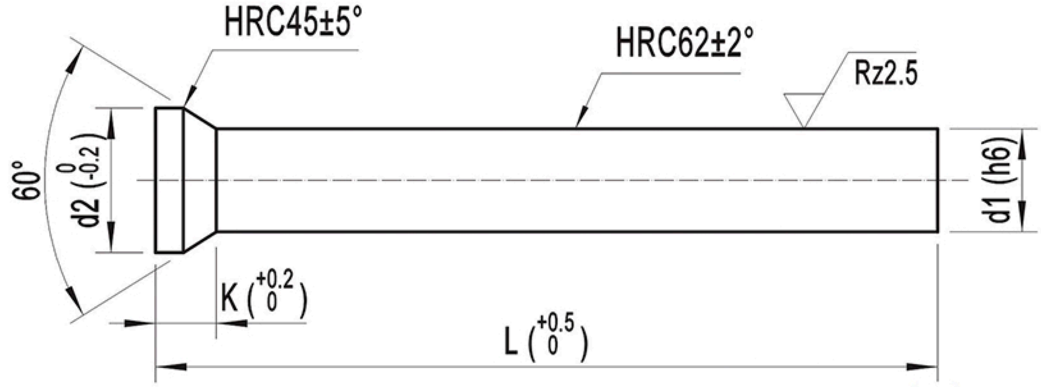


(mm)

d2	D	L=70-150mm	L=150-250mm	L=250.01-300mm
		C/G/T/R/B	C/G/T/R/B	C/G/T/R/B
3	1	•	•	•
	1.5	•	•	•
4	2	•	•	•
5	2.5	•	•	•
6	3	•	•	•
7	3.5	•	•	•
	4	•	•	•
8	4.5	•	•	•
	5	•	•	•
9	5.5	•	•	•
	6	•	•	•
10	6.5	•	•	•
	7	•	•	•
11	8	•	•	•
14	9	•	•	•
15	10	•	•	•
17	12	•	•	•

Stempel standardowy DIN 9861D

Materiał	HSS/SKD11/WS
Twardość główki	HRC45±5
Twardość	HRC62±2



(mm)

d1	d2	K	L			
h6	−0.2	+0.2	71.00	80.00	100.00	130.00
0.5	0.9	0.2	•	•	•	•
0.6	1.1	0.2	•	•	•	•
0.7	1.3	0.2	•	•	•	•
0.8	1.4	0.4	•	•	•	•
0.9	1.6	0.4	•	•	•	•
1.0	1.8	0.5	•	•	•	•
1.1	1.8	0.5	•	•	•	•
1.2	2.0	0.5	•	•	•	•
1.3	2.0	0.5	•	•	•	•
1.4	2.2	0.5	•	•	•	•
1.5	2.5	0.5	•	•	•	•
1.6	2.5	0.5	•	•	•	•
1.7	2.5	0.5	•	•	•	•
1.8	2.8	0.5	•	•	•	•
1.9	2.8	0.5	•	•	•	•
2.0	3.0	0.5	•	•	•	•
2.1	3.2	0.5	•	•	•	•
2.2	3.2	0.5	•	•	•	•
2.3	3.5	0.5	•	•	•	•
2.4	3.5	0.5	•	•	•	•
2.5	3.5	0.5	•	•	•	•
2.6	4.0	0.5	•	•	•	•
2.7	4.0	0.5	•	•	•	•
2.8	4.0	0.5	•	•	•	•
2.9	4.0	0.5	•	•	•	•
3.0	4.5	0.5	•	•	•	•
3.1	4.5	0.5	•	•	•	•
3.2	4.5	0.5	•	•	•	•
3.3	4.5	0.5	•	•	•	•
3.4	4.5	0.5	•	•	•	•
3.5	5.0	0.5	•	•	•	•
3.6	5.0	0.5	•	•	•	•
3.7	5.0	0.5	•	•	•	•
3.8	5.0	0.5	•	•	•	•
3.9	5.0	0.5	•	•	•	•
4.0	5.5	0.5	•	•	•	•
4.1	5.5	0.5	•	•	•	•
4.2	5.5	0.5	•	•	•	•
4.3	5.5	0.5	•	•	•	•
4.4	5.5	0.5	•	•	•	•
4.5	6.0	0.5	•	•	•	•
4.6	6.0	0.5	•	•	•	•
4.7	6.0	0.5	•	•	•	•
4.8	6.0	0.5	•	•	•	•

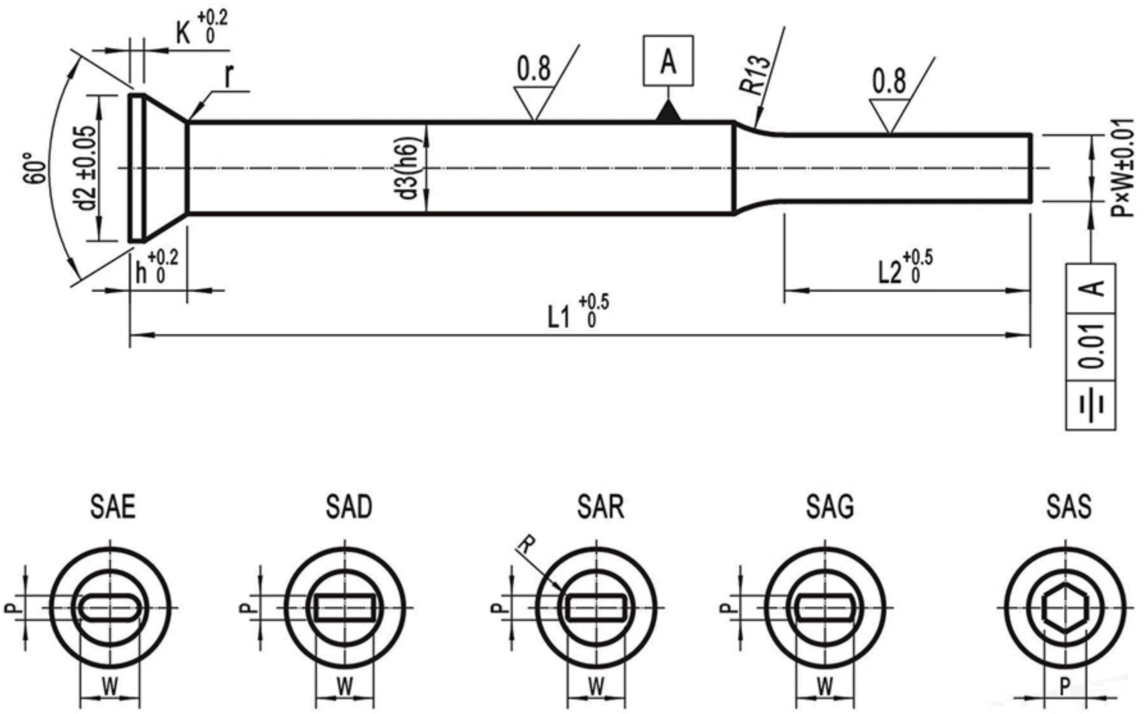
Stempel standardowy DIN 9861

(mm)

d1	d2	K	L			
h6	−0.2	+0.2	71.00	80.00	100.00	130.00
4.9	6.0	0.5	•	•	•	•
5.0	6.5	0.5	•	•	•	•
5.1	6.5	0.5	•	•	•	•
5.2	6.5	0.5	•	•	•	•
5.3	6.5	0.5	•	•	•	•
5.4	6.5	0.5	•	•	•	•
5.5	7.0	0.5	•	•	•	•
5.6	7.0	0.5	•	•	•	•
5.7	7.0	0.5	•	•	•	•
5.8	7.0	0.5	•	•	•	•
5.9	7.0	0.5	•	•	•	•
6.0	8.0	0.5	•	•	•	•
6.1	8.0	0.5	•	•	•	•
6.2	8.0	0.5	•	•	•	•
6.3	8.0	0.5	•	•	•	•
6.4	8.0	0.5	•	•	•	•
6.5	9.0	1.0	•	•	•	•
6.6	9.0	1.0	•	•	•	•
6.7	9.0	1.0	•	•	•	•
6.8	9.0	1.0	•	•	•	•
6.9	9.0	1.0	•	•	•	•
7.0	9.0	1.0	•	•	•	•
7.1	9.0	1.0	•	•	•	•
7.2	9.0	1.0	•	•	•	•
7.3	9.0	1.0	•	•	•	•
7.4	9.0	1.0	•	•	•	•
7.5	10.0	1.0	•	•	•	•
7.6	10.0	1.0	•	•	•	•
7.7	10.0	1.0	•	•	•	•
7.8	10.0	1.0	•	•	•	•
7.9	10.0	1.0	•	•	•	•
8.0	10.0	1.0	•	•	•	•
8.1	10.0	1.0	•	•	•	•
8.2	10.0	1.0	•	•	•	•
8.3	10.0	1.0	•	•	•	•
8.4	10.0	1.0	•	•	•	•
8.5	11.0	1.0	•	•	•	•
8.6	11.0	1.0	•	•	•	•
8.7	11.0	1.0	•	•	•	•
8.8	11.0	1.0	•	•	•	•
8.9	11.0	1.0	•	•	•	•
9.0	11.0	1.0	•	•	•	•
9.5	12.0	1.0	•	•	•	•
10.0	12.0	1.0	•	•	•	•
10.5	13.0	1.0	•	•	•	•
11.0	13.0	1.0	•	•	•	•
11.5	14.0	1.0	•	•	•	•
12.0	14.0	1.0	•	•	•	•
12.5	15.0	1.0	•	•	•	•
13.0	15.0	1.0	•	•	•	•
13.5	16.0	1.5	•	•	•	•
14.0	16.0	1.5	•	•	•	•
15.0	17.0	1.5	•	•	•	•
16.0	18.0	1.5	•	•	•	•
18.0	20.0	1.5	•	•	•	•
20.0	22.0	1.5	•	•	•	•

Stempel specjalny DIN 9861

Materiał	HSS
Twardość	HRC62±2



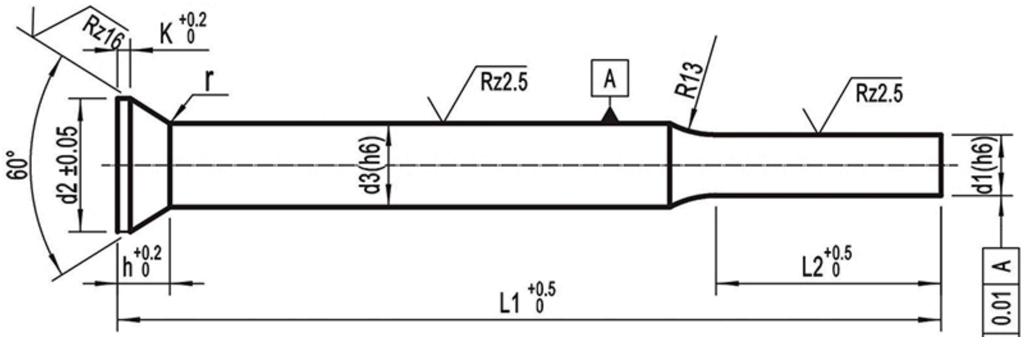
(mm)

d3	P*W ≤ ≥	L2	d2	h	K	r	L 71	L 80	L 100	L 120
3	1.2*2.9	7	4.5	1.8	0.5	$0.6^{+0.4}_{0}$	•	•	•	•
4	1.2*3.9	10	5.5				•	•	•	•
5	1.6*4.9		6.5				•	•	•	•
6	1.6*5.9		8	2.23		$1.0^{+0.5}_{0}$	•	•	•	•
8	2.5*7.9	13	10	2.73	1		•	•	•	•
10	4.0*9.9	17	12				•	•	•	•
12	4.5*11.9		14				•	•	•	•
13	5.0*12.9		15				•	•	•	•
16	8.0*15.9		18	3.23	1.5	$1.5^{+0.5}_{0}$	•	•	•	•
18	10.0*17.9		20.5				•	•	•	•
20	12.0*19.9		22.5				•	•	•	•

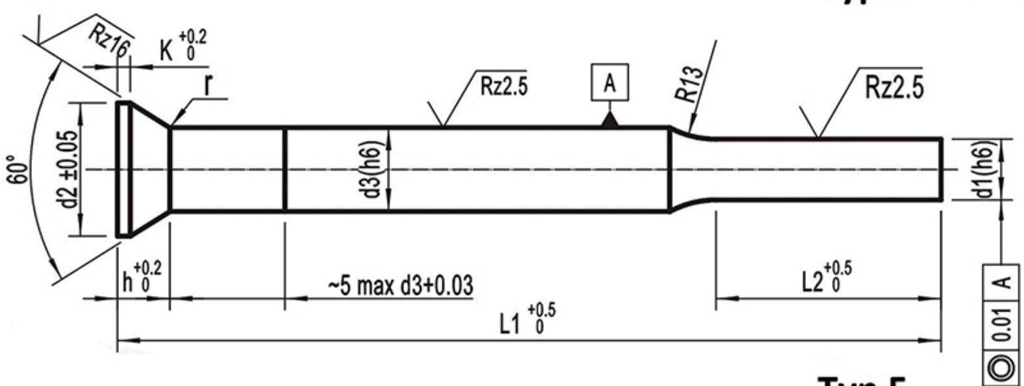
ROMAX

Stempel DIN 9861 Typ D & F

Materiał	HSS
Twardość	HRC62±2



Typ D



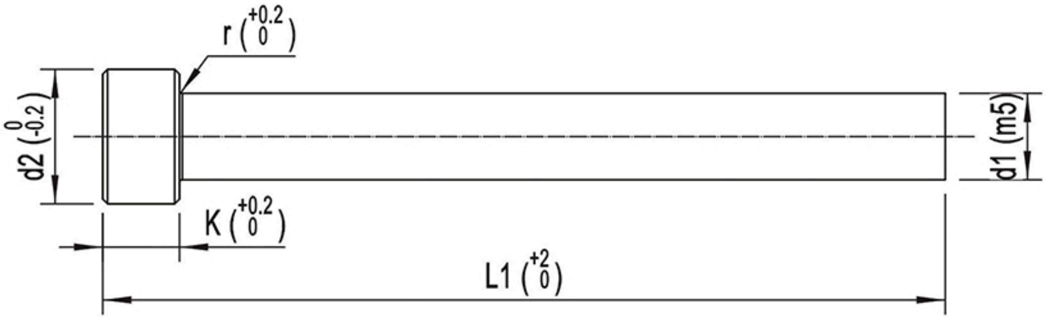
Typ F

(mm)

d3	d1	L2	d2	h	K	r		L1			
								71	80	100	120
1.5	0.5-1.4	7	2.2	1.11	0.5	0.4	+0.3 0	•	•	•	•
2	0.5-1.9		3	1.37				•	•	•	•
3	1.2-2.9		4.5	1.8		0.6	+0.4 0	•	•	•	•
4	1.2-3.9	10	5.5					•	•	•	•
5	1.6-4.9		6.5					•	•	•	•
6	1.6-5.9		8	2.23		1	+0.5 0	•	•	•	•
8	2.5-7.9	13	10	2.73	1			•	•	•	•
10	4.0-9.9	17	12					•	•	•	•
12	4.5-11.9		14					•	•	•	•
13	5.0-12.9		15			1.5	+0.5 0	•	•	•	•
16	8.0-15.9		18	3.23	1.5			•	•	•	•
18	10-17.9		20.5					•	•	•	•
20	12-19.9		22.5					•	•	•	•

Stempel standardowy DIN 8020A

Materiał	HSS/SKD11
Twardość główki	HRC50±5
Twardość	HRC62±2

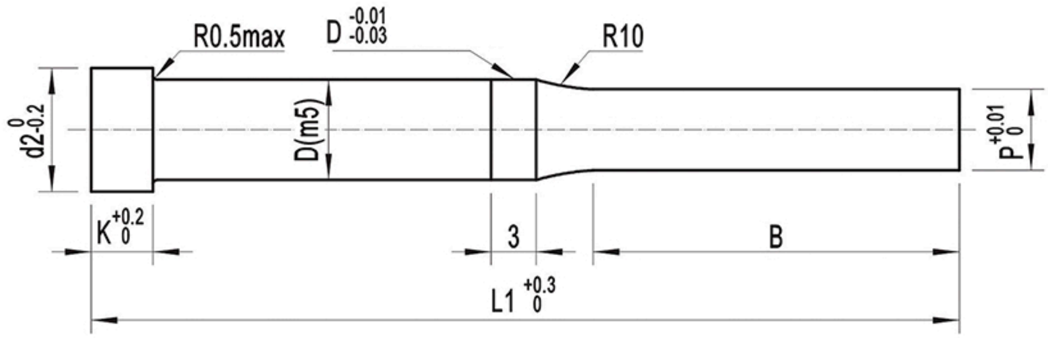


(mm)

d1	d2	K	L1 $^{+2}_{0}$			
m5	0 −0.2	+0.2 0	63	71	80	100
2	4	3	•	•	•	•
3	5		•	•	•	•
4	7		•	•	•	•
5	8	5	•	•	•	•
6	9		•	•	•	•
8	11		•	•	•	•
10	13		•	•	•	•
13	16		•	•	•	•
16	19		•	•	•	•
20	24		•	•	•	•
25	29		•	•	•	•
32	36		•	•	•	•

Stempel standardowy – typ AP

Materiał	HSS(SKH51)
Twardość	HRC62±2

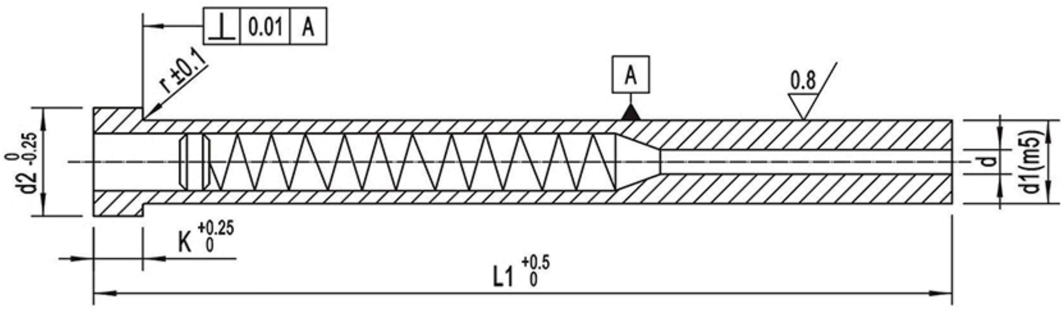


(mm)

D	d2	P	K	B		L1					
				S	L	50	60	70	80	90	100
3	5	1.00-2.99	5	8	13	•	•	•	•	•	•
4	6	1.00-3.99				•	•	•	•	•	•
5	7	2.00-4.99				•	•	•	•	•	•
6	8	2.00-5.99				•	•	•	•	•	•
8	11	3.00-7.99		13	19	•	•	•	•	•	•
10	13	3.00-9.99				•	•	•	•	•	•
13	16	6.00-12.99				•	•	•	•	•	•
16	19	10.00-15.99		19	25	•	•	•	•	•	•
20	23	13.00-19.99				•	•	•	•	•	•
25	28	18-24.99				•	•	•	•	•	•

Stempel precyzyjny typ T ISO 8020

Materiał	SKD11/HSS/ASP23
Twardość	HRC62±2

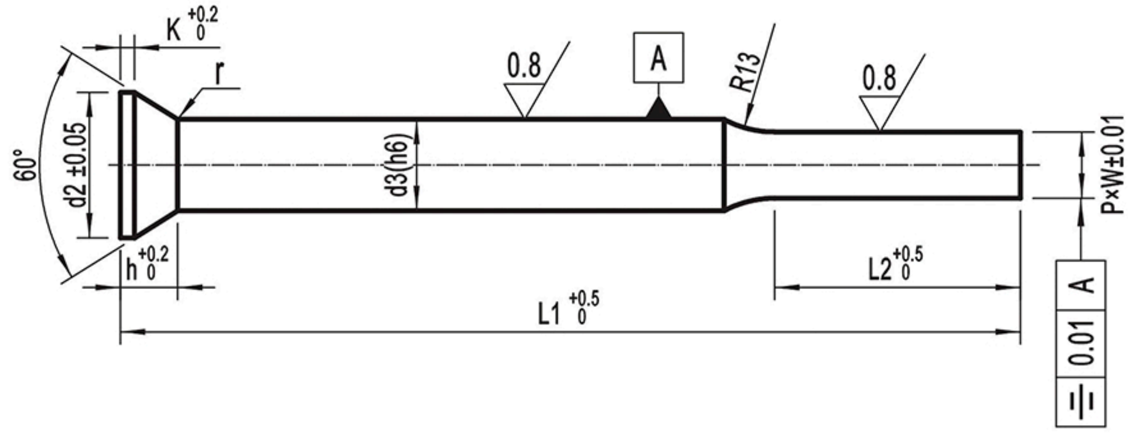


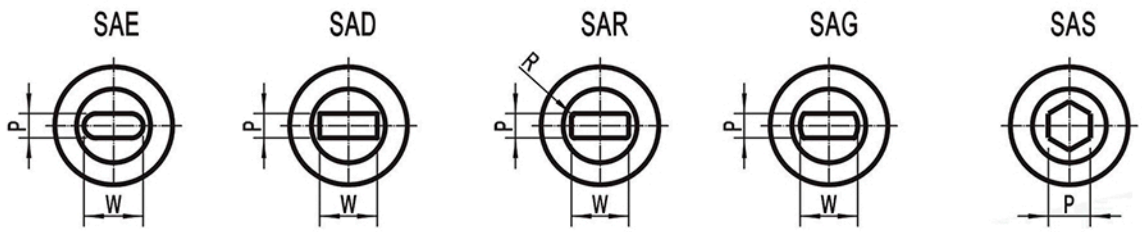
(mm)

d1	d2	K	r	d	L1					
					63	71	80	90	100	130
5	8	5	0.3	1	•	•	•	•	•	•
6	9			1	•	•	•	•	•	•
8	11			1	•	•	•	•	•	•
10	13			1.5	•	•	•	•	•	•
12	15		0.4	1.5	•	•	•	•	•	•
13	16			1.5	•	•	•	•	•	•
16	19			2	•	•	•	•	•	•
18	21			2	•	•	•	•	•	•
20	23/24			2	•	•	•	•	•	•
25	28/29			2.5	•	•	•	•	•	•
32	36/35			2.5	•	•	•	•	•	•

Stempel precyzyjny ze specjalnym kształtem ISO 8020

Materiał	HSS
Twardość	HRC62±2



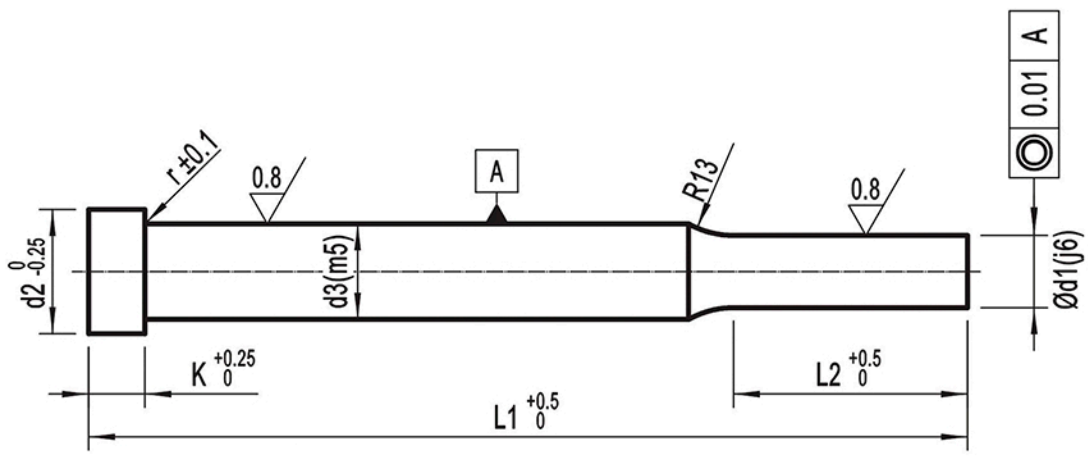


(mm)

d3	P*W ≤ ≥	L2	d2	h	K	r	L 71	L 80	L 100	L 120
3	1.2*2.9	7	4.5	1.8	0.5	$0.6^{+0.4}_{0}$	•	•	•	•
4	1.2*3.9	10	5.5				•	•	•	•
5	1.6*4.9		6.5				•	•	•	•
6	1.6*5.9		8	2.23		$1.0^{+0.5}_{0}$	•	•	•	•
8	2.5*7.9	13	10	2.73	1		•	•	•	•
10	4.0*9.9	17	12				•	•	•	•
12	4.5*11.9		14				•	•	•	•
13	5.0*12.9		15				•	•	•	•
16	8.0*15.9		18	3.23	1.5	$1.5^{+0.5}_{0}$	•	•	•	•
18	10.0*17.9		20.5				•	•	•	•
20	12.0*19.9		22.5				•	•	•	•

Stempel typ B ISO 8020

Materiał	HSS/SKD11
Twardość	HRC62±2

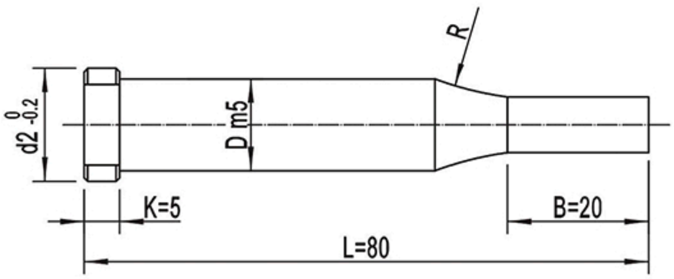


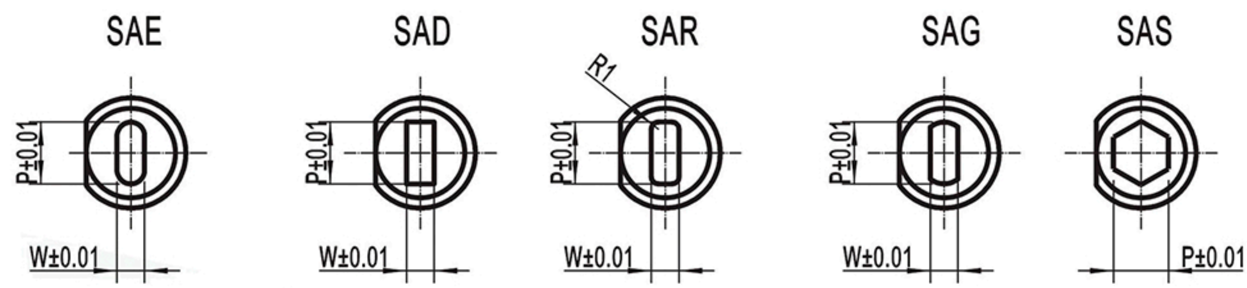
(mm)

d3	d1	L2	d2	K	r	L1					
						63	71	80	90	100	130
3	0.8-2.9	10	6/5	3	0.25	•	•	•	•	•	•
4	1.0-3.9		7/6			•	•	•	•	•	•
5	1.0-4.9		8	5	0.3	•	•	•	•	•	•
6	1.6-5.9		9			•	•	•	•	•	•
8	2.5-7.9	13	11			•	•	•	•	•	•
10	4.0-9.9	17	13			•	•	•	•	•	•
12	4.5-11.9		15		0.4	•	•	•	•	•	•
13	5.0-12.9		16			•	•	•	•	•	•
16	8.0-15.9		19			•	•	•	•	•	•
18	10.0-17.9		21			•	•	•	•	•	•
20	12.0-19.9		24/23			•	•	•	•	•	•
25	16.5-24.9		29/28			•	•	•	•	•	•
32	20.0-31.9		36/35			•	•	•	•	•	•

Zmienno formowany stempel

Materiał	HSS/SKD11
Twardość	HRC62±2



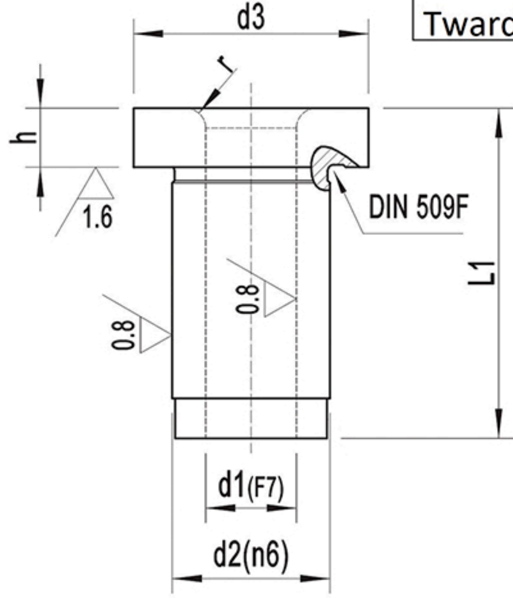


(mm)

D	d2	L	K	B	SAE	SAD	SAR	SAG	SAS
5	7	80	5	20	•	•	•	•	•
6	8				•	•	•	•	•
8	11				•	•	•	•	•
10	13				•	•	•	•	•
13	16				•	•	•	•	•
16	19				•	•	•	•	•
20	23				•	•	•	•	•
25	28				•	•	•	•	•
32	35				•	•	•	•	•

Tulejka DIN 172

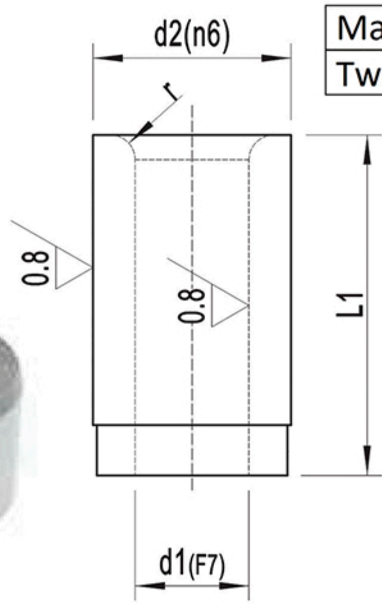
Materiał	WS(1.2210)
Twardość	HRC60±2



(mm)

d1	d2	d3	L1	h	r
0.4-1.0	3	6	6 9	2	1
1.1-1.8	4	7	6 9		
1.9-2.6	5	8	6 9		
2.7-3.3	6	9	8 12 16	2.5	
3.4-4	7	10	8 12 16		
4.1-5	8	11	8 12 16		
5.1-6	10	13	10 16 20	3	1.5
6.1-8	12	15	10 16 20		
8.1-10	15	18	12 20 25		2
10.1-12	18	22	12 20 25	4	
12.1-15	22	26	16 28 36		
15.1-18	26	30	16 28 36		
18.1-22	30	34	20 36 45	5	3
22.1-26	35	39	20 36 45		
26.1-30	42	46	25 45 56		

Tulejka DIN 179



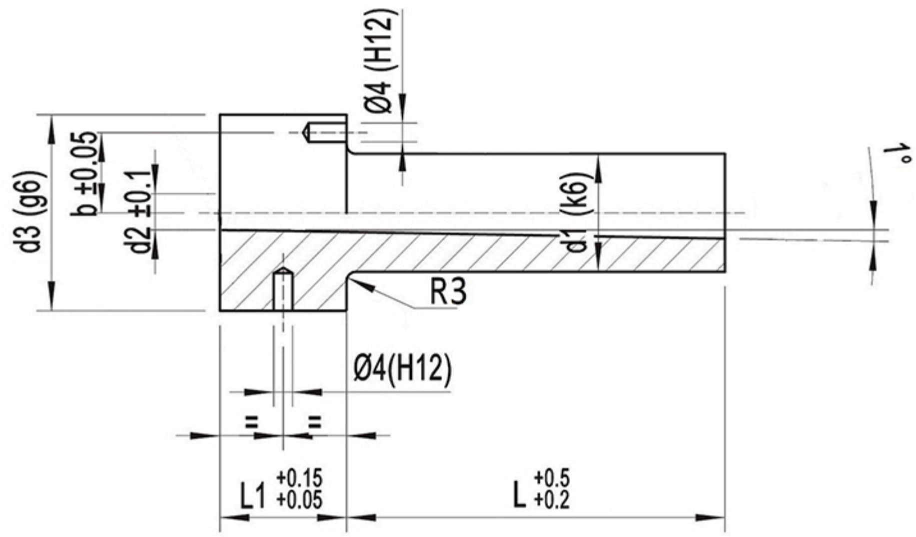
Materiał	WS(1.2210)
Twardość	HRC60±2

(mm)

d1	d2	L1	r
0.4-1.0	3	6	1
		9	
1.1-1.8	4	6	
		9	
1.9-2.6	5	6	
		9	
2.7-3.3	6	8	
		12	
		16	
3.4-4	7	8	
		12	
		16	
4.1-5	8	8	
		12	
		16	
5.1-6	10	10	1.5
		16	
		20	
6.1-8	12	10	
		16	
		20	
8.1-10	15	12	2
		20	
		25	
10.1-12	18	12	
		20	
		25	
12.1-15	22	16	
		28	
		36	
15.1-18	26	16	
		28	
		36	
18.1-22	30	20	3
		36	
		45	
22.1-26	35	20	
		36	
		45	
26.1-30	42	25	
		45	
		56	

Tuleja wtryskowa typ A1

Materiał	WS(1.2210)
Twardość	HRC60±2

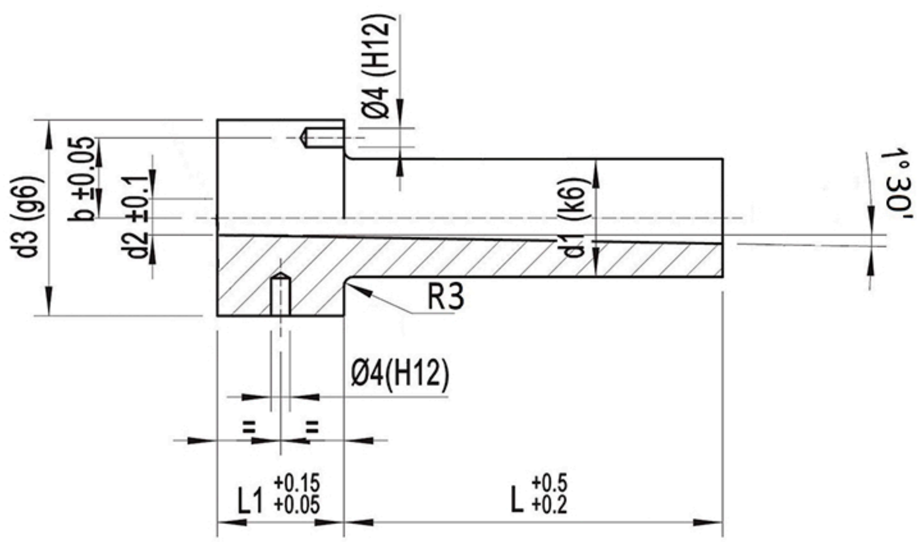


(mm)

d1	d2	d3	L	L1	b
12	2.5	28	22	13	11
			27		
			36		
			46		
	3.5	28	22		
			27		
			36		
			46		
			56		
18	3	38	27	18	15
			36		
			46		
			56		
			66		
			76		
			86		
			96		
			116		
	4	38	27		
			36		
			46		
			56		
			66		
			76		
			86		
			96		
			116		

Tuleja wtryskowa typ A1.5

Materiał	WS(1.2210)
Twardość	HRC60±2

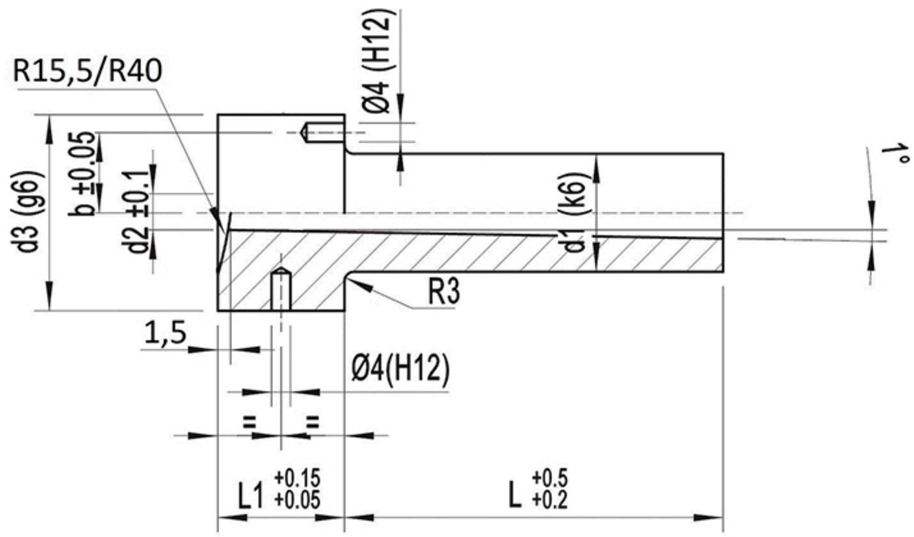


(mm)

d1	d2	d3	L	L1	b
18	3,5	38	27	18	15
			36		
			46		
			56		
	4,5	38	27		
			36		
			46		
			56		
			76		
24	4,5	48	46	23	20
			56		
			76		
	6,5	48	56		
			76		

Tuleja wtryskowa typ B1

Materiał	WS(1.2210)
Twardość	HRC60±2

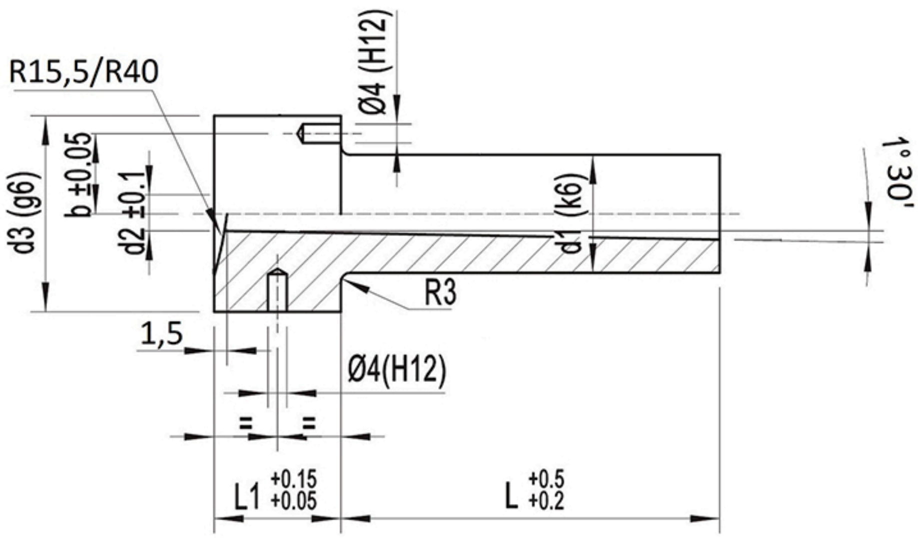


(mm)

R15,5/R40					
d1	d2	d3	L	L1	b
12	2.5	28	22	13	11
			27		
			36		
			46		
			56		
	3.5	28	22		
			27		
			36		
			46		
			56		
18	3	38	27	18	15
			36		
			46		
			56		
			66		
			76		
			86		
			96		
			116		
	4	38	27		
			36		
			46		
			56		
			66		
			76		
			86		
			96		
			116		

Tuleja wtryskowa typ B1.5

Materiał	WS(1.2210)
Twardość	HRC60±2

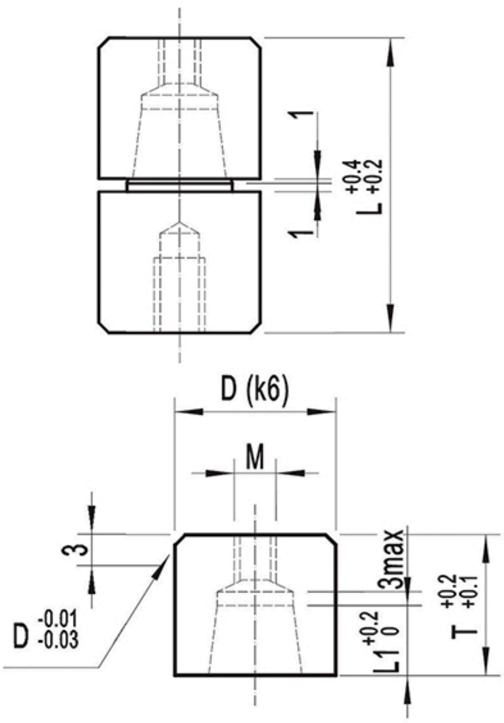


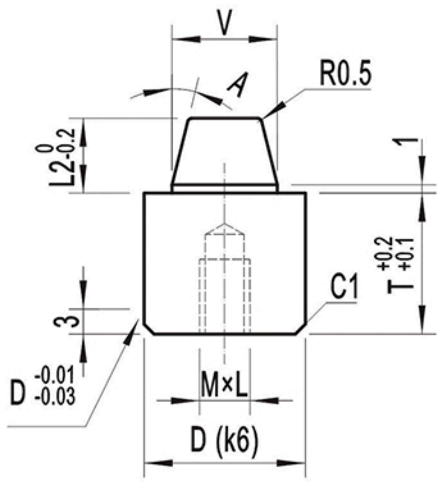
(mm)

R15,5/R40					
d1	d2	d3	L	L1	b
18	3,5	38	27	18	15
			36		
			46		
			56		
	4,5	38	27		
			36		
			46		
			56		
			76		
24	4,5	48	46	23	20
			56		
			76		
	6,5	48	56		
			76		

Blokada stożkowa – okrągła typ BHP

Materiał	WS(1.2210)
Twardość	HRC60±2



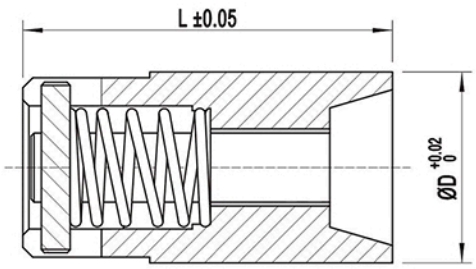


(mm)

CODE	D k6		L	T	M*I	A	V	I1	I2
BHP-13	13	+0.012 +0.001	30	14	M4*10		7	5	6
BHP-16	16		30	14	M5*10		10	5	6
BHP-20	20	+0.015 +0.002	40	19	M6*12		13	8	3
BHP-25	25		50	24	M8*16		16	11	12
BHP-30	30		60	29	M10*20		20	14	15
BHP-32	32	+0.018 +0.002	60	29	M10*20		20	14	15
BHP-35	35		70	34	M12*24		24	17	18

Zawór powietrzny AJV

Materiał	SUS420
Twardość	48°-54°
Ciśnienie robocze	1.5-6BRS

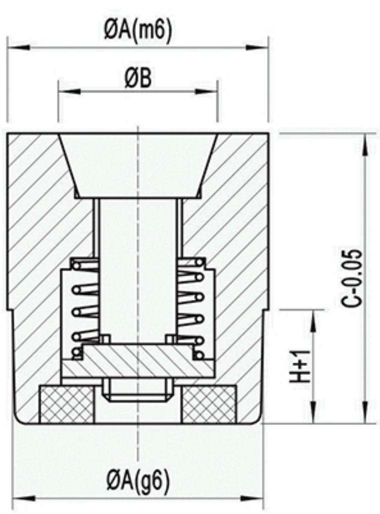


(mm)

Typ	ΦD +0.02	L±0.05	ΦG	N	ΦC
AJV	6	12	6	12	4
	8	15	8	15	6
	10	20	10	20	8
	12	25	12	25	10
	16	30	16	30	14
	20	30	20	30	18
	25	30	25	30	23
	30	30	30	30	28

Zawór powietrzny VA

Materiał	SUS420
Twardość	48-54°
Ciśnienie robocze	1.5-6BRS

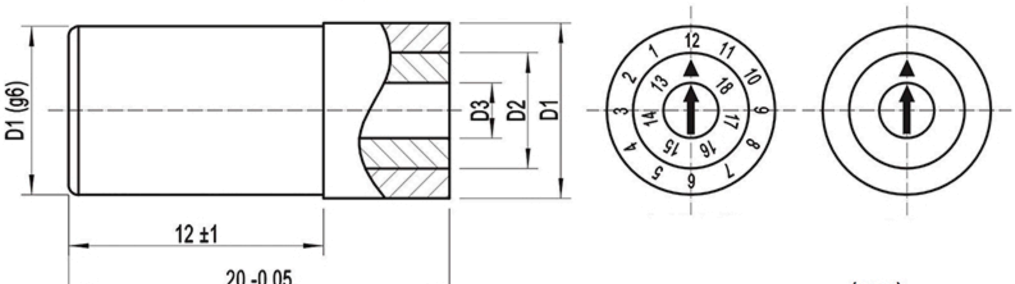


(mm)

Typ	ΦA	ΦB	C	ΦE	H
VA.05	5	3	12	4	7
VA.06	6	5.2	12	4	7
VA.08	8	6.5	12	4	7
VA.10	10	8	12	8	7
VA.12	12	10	12	10	7
VA.16	16	13	20	12	12
VA.20	20	17	20	16	12

Standardowe datowniki

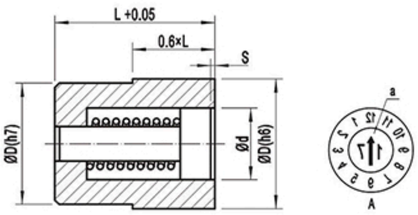
Trój - kombinacyjny datownik

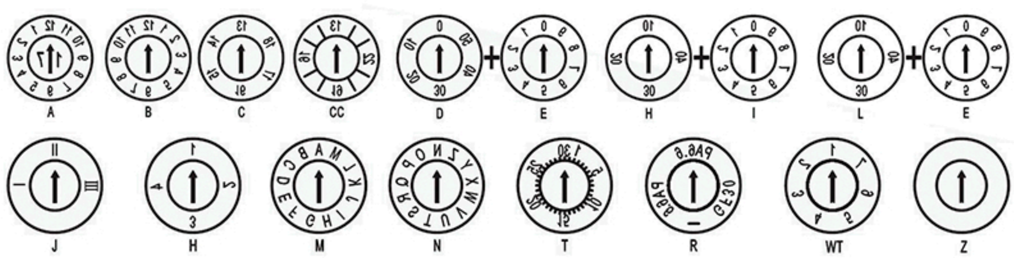


(mm)

Rok/miesiąc	Czysty	D1	D2	D3
BD0805	BD080500	8	5	2.5
BD0612	BD061200	10	6	3
BD0812	BD081200	12	8	4
BD1016	BD101600	16	10	5
BD1220	BD122000	20	12	6

Wymienny datownik





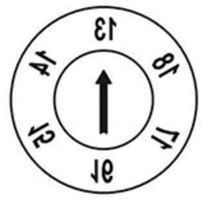
(mm)

D	d	L	a	b	K
2.6	1.4	4	0.2	0.2	1.5
2.8	1.4	4	0.2	0.2	1.5
3	1.5	4	0.2	0.25	1.6
3.5	1.5	5	0.2	0.25	1.8
4	2.1	5	0.3	0.25	2.2
5	3.1	8	0.4	0.2	3.2
6	3.1	8	0.4	0.2	3.2
8	4.4	10	0.4	0.25	4.2
10	5.2	12	0.4	0.35	5.2
12	6.2	14	0.6	0.35	6.2
16	8.2	14	0.6	0.35	8.2

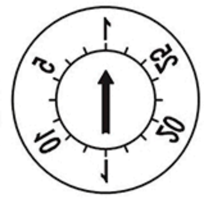
Tradycyjne datowniki

CYM

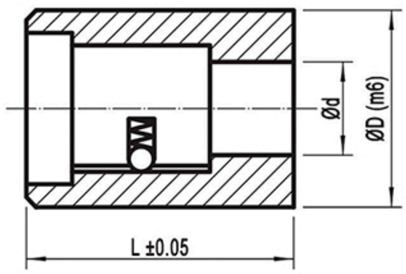
CM

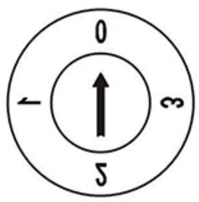


CY

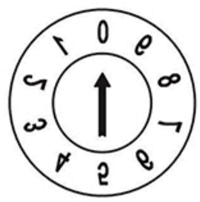


CD

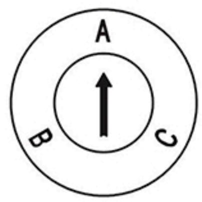




CDD



CDN



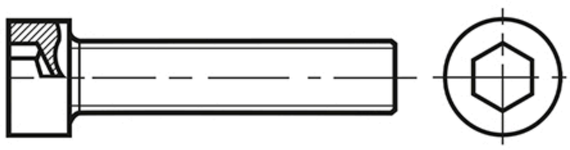
CB

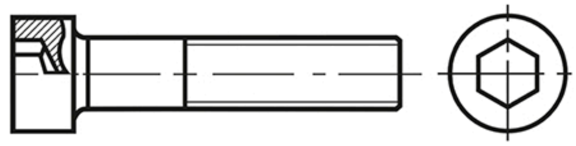
CA

(mm)

Rok/mies	Mies	Rok	Dzień	Dzień	Dzień	Klasa	Alfabet
(17)	(1-12)	(18-22)	(1-31)	cyfra dziesią.	cyfra jedn.	(A-C)	(A-L)
CYM D*L	CM D*L	CY D*L	CD D*L	CDD D*L	CDN D*L	CB D*L	CA D*L
-	3*6	3*6	-	3*6	-	3*6	-
4*6	4*6	4*6	-	4*6	4*6	4*6	4*6
5*8	5*8	5*8	5*8	5*8	5*8	5*8	5*8
6*8	6*8	6*8	6*8	6*8	6*8	6*8	6*8
6*10	6*10	6*10	6*10	6*10	6*10	6*10	6*10
8*10	8*10	8*10	8*10	8*10	8*10	8*10	8*10
10*10	10*10	10*10	10*10	10*10	10*10	10*10	10*10
10*12	10*12	10*12	10*12	10*12	10*12	10*12	10*12
12*12	12*12	12*12	12*12	12*12	12*12	12*12	12*12
16*14	16*14	16*14	16*14	16*14	16*14	16*14	16*14
20*14	20*14	20*14	20*14	20*14	20*14	20*14	20*14

Śruby z łbem walcowym z gniazdem sześciokątnym, ISO 4762, stal kl. 12.9, bez pokrycia - czarne





gwint na całej długości trzpienia					
l/d	M3	M4	M5	M6	M8
3					
4					
5					
6					
8					
10					
12					
14					
16					
18					
20					
25					
30					
35					
40					
45					
50					
55					
60					
65					
70					
75					
80					

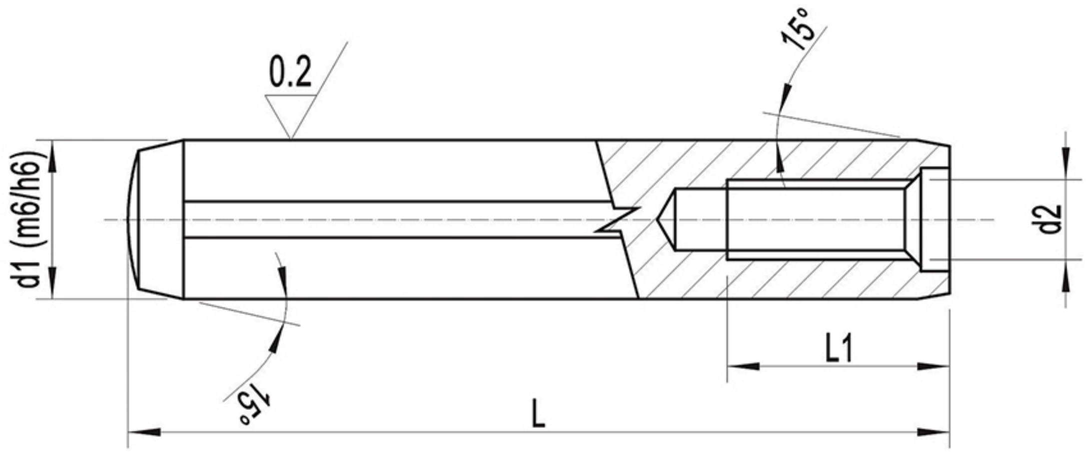
gwint na części długości trzpienia					
l/d	M3	M4	M5	M6	M8
20					
25					
30					
35					
40					
45					
50					
55					
60					
65					
70					
75					
80					
90					
100					
110					
120					
130					
140					
160					
170					
180					
200					
220					
240					

gwint na całej długości trzpienia						
l\d	M10	M12	M14	M16	M18	M20
10						
12						
14						
16						
18						
20						
25						
30						
35						
40						
45						
50						
55						
60						
65						
70						
75						
80						
85						
90						
100						

gwint na części długości trzpienia						
l\d	M10	M12	M14	M16	M18	M20
40						
45						
50						
55						
60						
65						
70						
75						
80						
85						
90						
100						
110						
120						
130						
140						
150						
160						
170						
180						
190						
200						
220						
240						
260						
280						
300						
320						
340						
360						
380						
400						

Kołek DIN 7979

Materiał	WS(1.2210)
Twardość	HRC60±2

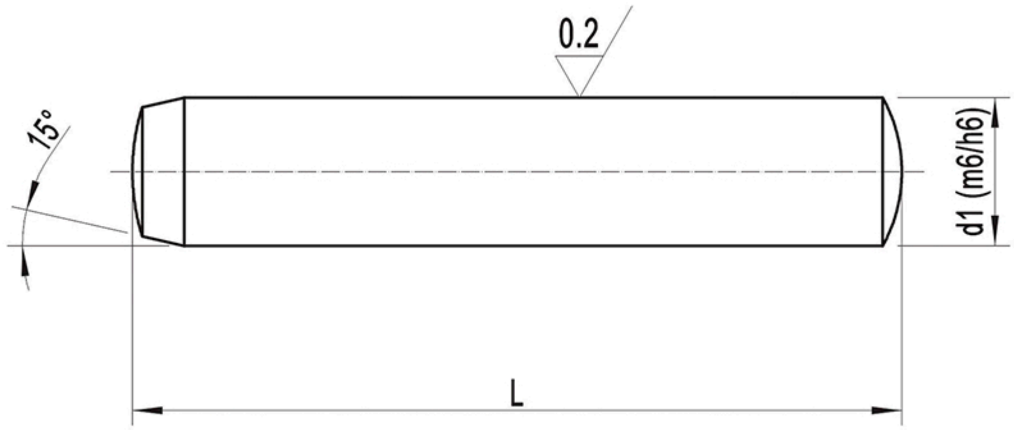


(mm)

Rozmiar	d1(m6/h6)							
	5	6	8	10	12	14	16	20
L	d2(M3)	d2(M4)	d2(M5)	d2(M6)		d2(M8)		d2(M10)
	L1(6)	L1(6)	L1(8)	L1(10)		L1(12)		L1(16)
12	•							
16	•	•	•					
20	•	•	•					
24	•	•	•	•	•			
28	•	•	•	•	•			
30	•	•	•	•	•			
32	•	•	•	•	•		•	
36	•	•	•	•	•		•	
40	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•
55		•	•	•	•	•	•	•
60		•	•	•	•	•	•	•
70		•	•	•	•	•	•	•
80		•	•	•	•	•	•	•
90				•	•	•	•	•
100				•	•	•	•	•
120					•		•	•

Kołek DIN 6325

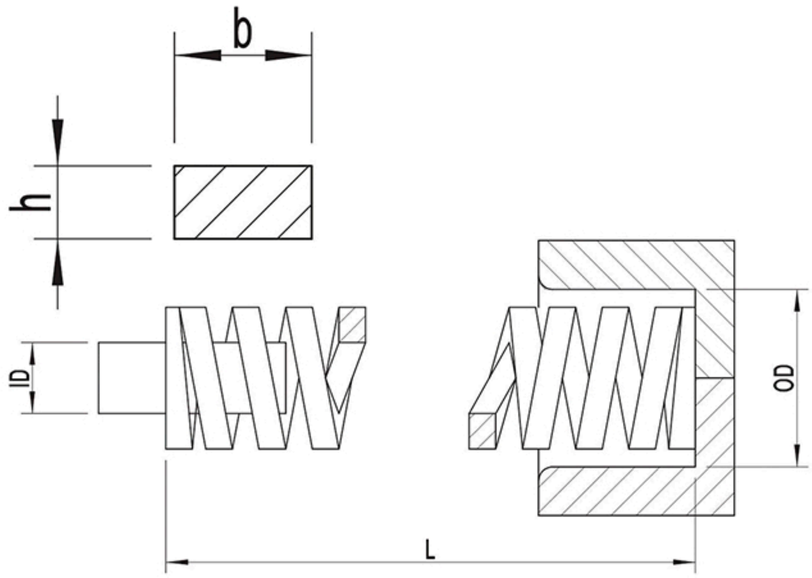
Materiał	WS(1.2210)
Twardość	HRC60±2



(mm)

L	d1(m6/h6)											
	2	3	4	5	6	8	10	12	14	16	18	20
10	●	●	●	●	●	●						
12	●	●	●	●	●	●						
14	●	●	●	●	●	●						
16	●	●	●	●	●	●	●					
18	●	●	●	●	●	●	●					
20	●	●	●	●	●	●	●	●				
24	●	●	●	●	●	●	●	●				
28	●	●	●	●	●	●	●	●		●		
30	●	●	●	●	●	●	●	●		●		
32	●	●	●	●	●	●	●	●	●	●		●
36	●	●	●	●	●	●	●	●	●	●		●
40	●	●	●	●	●	●	●	●	●	●	●	●
45	●	●	●	●	●	●	●	●	●	●	●	●
50	●	●	●	●	●	●	●	●	●	●	●	●
55	●	●	●	●	●	●	●	●	●	●	●	●
60	●	●	●	●	●	●	●	●	●	●	●	●
70			●	●	●	●	●	●	●	●	●	●
80			●	●	●	●	●	●	●	●	●	●
90				●	●	●	●	●	●	●	●	●
100					●	●	●	●	●	●	●	●
120						●	●	●	●	●	●	●

Standardowa sprężyna ISO 10243



TJL lekkie obciążenie (zielona)

(mm)

Kod	OD	ID	b*h	Długość L																
				25	32	38	44	51	64	76	89	102	115	127	139	152	178	203	254	305
TJL	10	5	1.7*1.1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJL	12.5	6.3	2.4*1.4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJL	16	8	3.2*1.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJL	20	10	4*2.1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJL	25	12.5	5.3*2.7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJL	32	16	6.7*3.3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJL	40	20	8.0*4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJL	50	25	11.1*5.3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJL	63	38	11.2*7.8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

TJM średnie obciążenie (niebieska)

(mm)

Kod	OD	ID	b*h	Długość L																
				25	32	38	44	51	64	76	89	102	115	127	139	152	178	203	254	305
TJM	10	5	1.8*1.3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJM	12.5	6.3	2.5*1.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJM	16	8	3.2*2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJM	20	10	4*2.4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJM	25	12.5	5.3*3.2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJM	32	16	6.8*4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJM	40	20	8.2*4.7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJM	50	25	11.0*5.8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TJM	63	38	11.5*9.1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Seria produktów poliuretanowych PU

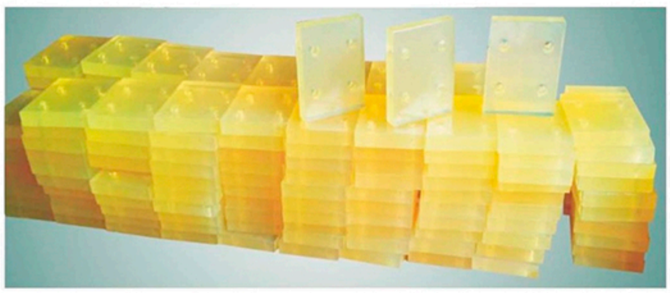
<u>Zastosowania produktu:</u>

Ma zastosowanie do metalurgii, górnictwa, motoryzacji, materiałów budowlanych, sportu, maszyn energetycznych.

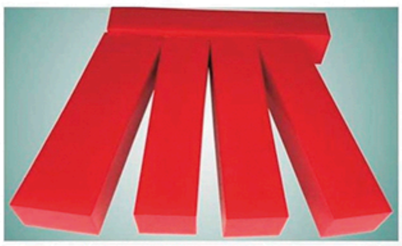
W porównaniu z metalowymi sprężynami może wytrzymać długotrwałe obciążenia, nigdy nie powoduje uszkodzenia metalowych części form, jest łatwy w montażu.

Płyty poliuretanowe

Rurki poliuretanowe

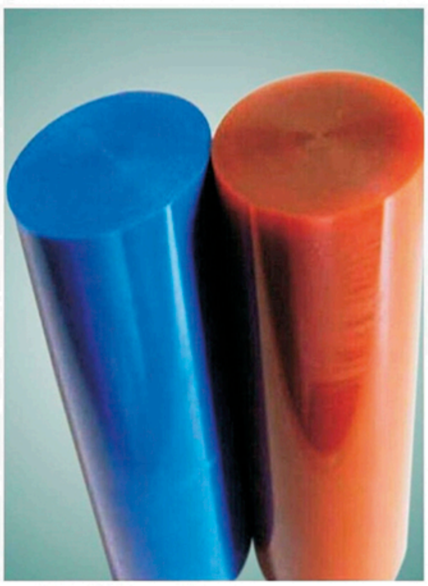


Płytki poliuretanowe



Deski poliuretanowe

Płytki poliuretanowe



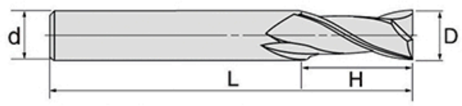
Wałki poliuretanowe

Rurki poliuretanowe

Wałki poliuretanowe

Pręty poliuretanowe

Frezy VHM



Zwykłe użytkowanie

CTX-450 MG 0.6μm CO10% HRC<50 AlTiN

ZHY-550 MG 0.5μm CO10% HRC<55 AlTiN

Szybkie frezowanie

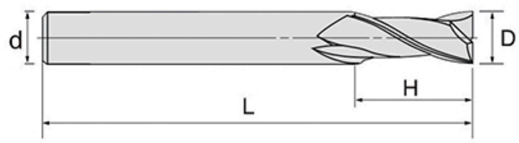
ZHY-600 UMG 0.4μm CO12% HRC<60 AlTiN

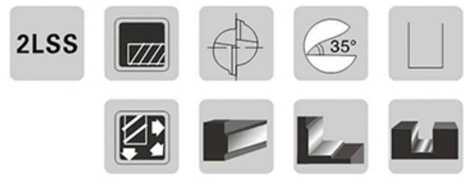
ZHY-650 UMG 0.2μm CO9% HRC<65-68 AlTiN-AS

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2SEM-03010050	1.0	3	50	3
2SEM-03015050	1.5	4		
2SEM-03020050	2.0	6		
2SEM-03025050	2.5	8		
2SEM-03030050	3.0			
2SEM-04010050	1.0	3		4
2SEM-04015050	1.5	4		
2SEM-04020050	2.0	6		
2SEM-04025050	2.5	8		
2SEM-04030050	3.0			
2SEM-04035050	3.5	10		
2SEM-04040050	4.0	11		
2SEM-06010050	1.0	3	50	6
2SEM-06015050	1.5	4		
2SEM-06020050	2.0	6		
2SEM-06025050	2.5	7		
2SEM-06030050	3.0	8		
2SEM-06035050	3.5	10		
2SEM-06040050	4.0	11		
2SEM-06045050	4.5	13		
2SEM-06050050	5.0			
2SEM-06055050	5.5			
2SEM-06060050	6.0	15		
2SEM-08065060	6.5	20	60	8
2SEM-08070060	7.0			
2SEM-08075060	7.5			
2SEM-08080060	8.0			
2SEM-10085075	8.5	23	75	10
2SEM-10090075	9.0			
2SEM-10095075	9.5	25		
2SEM-10100075	10.0			
2SEM-12105075	10.5			12
2SEM-12110075	11.0	30		
2SEM-12115075	11.5			
2SEM-12120075	12.0			
2SEM-14130100	13.0	45	100	14
2SEM-14140100	14.0			
2SEM-16150100	15.0			16
2SEM-16160100	16.0			
2SEM-18170100	17.0			18
2SEM-18180100	18.0			
2SEM-20190100	19.0			20
2SEM-20200100	20.0			
2SEM-25220100	22.0			22
2SEM-25250100	25.0			25

ROMAX

Frezy VHM





Zwykłe użytkowanie

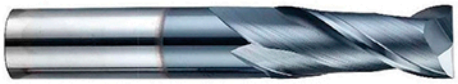
CTX-450	MG	0.6 μm	CO10%	HRC-50	AITIN
ZHY-550	MG	0.5 μm	CO10%	HRC-55	AITIN

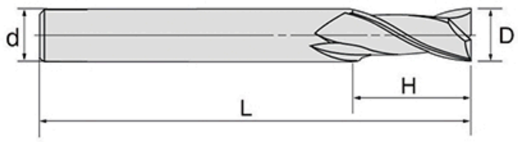
Szybkie frezowanie

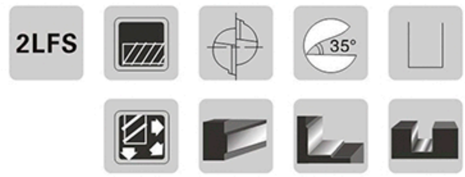
ZHY-600	UMG	0.4 μm	CO12%	HRC-60	AITIN
ZHY-650	UMG	0.2 μm	CO9%	HRC-55-58	AITIN-AS

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2LSS-03010075	1.0	3	75	3
2LSS-03015075	1.5	4.5		
2LSS-03020075	2.0	6		
2LSS-03025075	2.5	8		
2LSS-03030075	3.0	10		
2LSS-04010075	1.0	3		4
2LSS-04015075	1.5	4.5		
2LSS-04020075	2.0	6		
2LSS-04025075	2.5	8		
2LSS-04030075	3.0	10		
2LSS-04035075	3.5	11		
2LSS-04040075	4.0			
2LSS-06045075	4.5	13		6
2LSS-06050075	5.0			
2LSS-06055075	5.5			
2LSS-06060075	6.0	15		
2LSS-08065075	6.5	20		8
2LSS-08070075	7.0			
2LSS-08075075	7.5			
2LSS-08080075	8.0			
2LSS-04030100	3.0	8	100	4
2LSS-04040100	4.0	11		
2LSS-06050100	5.0	13		6
2LSS-06060100	6.0	15		
2LSS-08070100	7.0	20		8
2LSS-08080100	8.0			
2LSS-10090100	9.0	25		10
2LSS-10100100	10.0			
2LSS-12110100	11.0	30		12
2LSS-12120100	12.0			
2LSS-06060150	6.0	40	150	6
2LSS-08080150	8.0			8
2LSS-10100150	10.0			10
2LSS-12120150	12.0			12
2LSS-14140150	14.0	50		14
2LSS-16160150	16.0			16
2LSS-18180150	18.0			18
2LSS-20200150	20.0			20

Frezy VHM







Zwykłe użytkowanie

CTX-450 MG 0.6μm CO10% HRC▸50 AITIN

ZHY-550 MG 0.5μm CO10% HRC▸55 AITIN

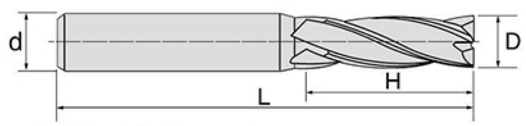
Szybkie frezowanie

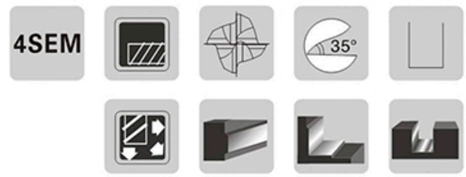
ZHY-600 UMG 0.4μm CO12% HRC▸60 AITIN

ZHY-650 UMG 0.2μm CO9% HRC▸55-58 AITIN-AS

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2LFS-03010075	1.0	5	75	3
2LFS-03015075	1.5	6		
2LFS-03020075	2.0	9		
2LFS-03025075	2.5	10		
2LFS-03030075	3.0	15		
2LFS-04010075	1.0	5		4
2LFS-04015075	1.5	6		
2LFS-04020075	2.0	9		
2LFS-04025075	2.5	10		
2LFS-04030075	3.0	15		
2LFS-04035075	3.5			
2LFS-04040075	4.0	20		
2LFS-06045075	4.5			6
2LFS-06050075	5.0	25		
2LFS-06055075	5.5			
2LFS-06060075	6.0			
2LFS-08065075	6.5	30		8
2LFS-08070075	7.0			
2LFS-08075075	7.5			
2LFS-08080075	8.0			
2LFS-04030100	3.0	30	100	4
2LFS-04040100	4.0			
2LFS-06050100	5.0	35		6
2LFS-06060100	6.0			
2LFS-08070100	7.0	40		8
2LFS-08080100	8.0			
2LFS-10090100	9.0	50		10
2LFS-10100100	10.0			
2LFS-12110100	11.0			12
2LFS-12120100	12.0			
2LFS-06060150	6.0	50	150	6
2LFS-08080150	8.0			8
2LFS-10100150	10.0	70		10
2LFS-12120150	12.0			12
2LFS-14140150	14.0			14
2LFS-16160150	16.0			16
2LFS-18180150	18.0	80		18
2LFS-20200150	20.0			20

Frezy VHM





Zwykłe użytkowanie

CTX-450 MG 0.6μm CO10% HRC-50 AITIN

ZHY-550 MG 0.5μm CO10% HRC-55 AITIN

Szybkie frezowanie

ZHY-600 UMG 0.4μm CO12% HRC-60 AITIN

ZHY-650 UMG 0.2μm CO9% HRC-55-68 AITIN-AS

<table>
<tr><th>Kod produktu</th><th>Średnica ostrza d</th><th>Długość ostrza H</th><th>Pełna dł. L</th><th>Średn. trzp. d</th></tr>
<tr><td>4SEM-03010050</td><td>1.0</td><td>3</td><td rowspan="16">50</td><td rowspan="5">3</td></tr>
<tr><td>4SEM-03015050</td><td>1.5</td><td>4</td></tr>
<tr><td>4SEM-03020050</td><td>2.0</td><td>6</td></tr>
<tr><td>4SEM-03025050</td><td>2.5</td><td rowspan="2">8</td></tr>
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<tr><td>4SEM-04020050</td><td>2.0</td><td>6</td></tr>
<tr><td>4SEM-04025050</td><td>2.5</td><td rowspan="2">8</td></tr>
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<tr><td>4SEM-06060050</td><td>6.0</td><td>15</td></tr>
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<tr><td>4SEM-08070060</td><td>7.0</td></tr>
<tr><td>4SEM-08075060</td><td>7.5</td></tr>
<tr><td>4SEM-08008060</td><td>8.0</td></tr>
<tr><td>4SEM-10085075</td><td>8.5</td><td rowspan="5">25</td><td rowspan="8">75</td><td rowspan="4">10</td></tr>
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<tr><td>4SEM-10095075</td><td>9.5</td></tr>
<tr><td>4SEM-10100075</td><td>10.0</td></tr>
<tr><td>4SEM-12105075</td><td>10.5</td><td rowspan="4">12</td></tr>
<tr><td>4SEM-12110075</td><td>11.0</td><td rowspan="3">30</td></tr>
<tr><td>4SEM-12115075</td><td>11.5</td></tr>
<tr><td>4SEM-12120075</td><td>12.0</td></tr>
<tr><td>4SEM-14130100</td><td>13.0</td><td rowspan="10">45</td><td rowspan="10">100</td><td rowspan="2">14</td></tr>
<tr><td>4SEM-14140100</td><td>14.0</td></tr>
<tr><td>4SEM-16150100</td><td>15.0</td><td rowspan="2">16</td></tr>
<tr><td>4SEM-16160100</td><td>16.0</td></tr>
<tr><td>4SEM-18170100</td><td>17.0</td><td rowspan="2">18</td></tr>
<tr><td>4SEM-18180100</td><td>18.0</td></tr>
<tr><td>4SEM-20190100</td><td>19.0</td><td rowspan="2">20</td></tr>
<tr><td>4SEM-20200100</td><td>20.0</td></tr>
<tr><td>4SEM-25220100</td><td>22.0</td><td rowspan="2">25</td></tr>
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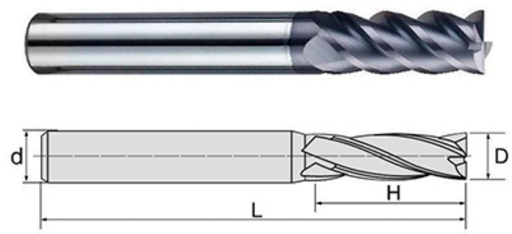
Frezy VHM



Zwykłe użytkowanie

CTX-450 | MG | 0.6μm | CO10% | HRC·50 | AITIN

ZHY-550 | MG | 0.5μm | CO10% | HRC·55 | AITIN

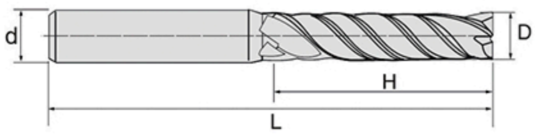
Szybkie frezowanie

ZHY-600 | UMG | 0.4μm | CO12% | HRC·60 | AITIN

ZHY-650 | UMG | 0.2μm | CO9% | HRC·55-65 | AITIN-AS

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
4LSS-03010075	1.0	3	75	3
4LSS-03015075	1.5	4		
4LSS-03020075	2.0	6		
4LSS-03025075	2.5	7		
4LSS-03030075	3.0	8		
4LSS-04010075	1.0	3		4
4LSS-04015075	1.5	4		
4LSS-04020075	2.0	6		
4LSS-04025075	2.5	7		
4LSS-04030075	3.0	8		
4LSS-04035075	3.5	10		
4LSS-04040075	4.0	11		
4LSS-06045075	4.5	13		6
4LSS-06050075	5.0			
4LSS-06055075	5.5			
4LSS-06060075	6.0	15		
4LSS-08065075	6.5	17		8
4LSS-08070075	7.0			
4LSS-08075075	7.5			
4LSS-08080075	8.0	20		
4LSS-04030100	3.0	8	100	4
4LSS-04040100	4.0	11		
4LSS-06050100	5.0	13		6
4LSS-06060100	6.0	15		
4LSS-08070100	7.0	20		8
4LSS-08080100	8.0			
4LSS-10090100	9.0	25		10
4LSS-10100100	10.0			
4LSS-12110100	11.0	30		12
4LSS-12120100	12.0			
4LSS-06060150	6.0	40	150	6
4LSS-08080150	8.0			8
4LSS-10100150	10.0			10
4LSS-12120150	12.0			12
4LSS-14140150	14.0	50		14
4LSS-16160150	16.0			16
4LSS-18180150	18.0			18
4LSS-20200150	20.0			20

Frezy VHM



Zwykłe użytkowanie

CTX-450 | MG | 0.6 μm | CO10% | HRC-50 | AlTIN

ZHY-550 | MG | 0.5 μm | CO10% | HRC-55 | AlTIN

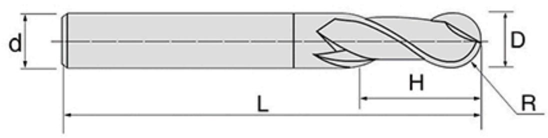
Szybkie frezowanie

ZHY-600 | UMG | 0.4 μm | CO12% | HRC-60 | AlTIN

ZHY-650 | UMG | 0.2 μm | CO9% | HRC-55-58 | AlTIN-AS

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
4LFS-04010075	1.0	5	75	3
4LFS-04015075	1.5	6		
4LFS-04020075	2.0	9		
4LFS-04025075	2.5	10		
4LFS-04030075	3.0	15		
4LFS-04010075	1.0	5		4
4LFS-04015075	1.5	6		
4LFS-04020075	2.0	9		
4LFS-04025075	2.5	10		
4LFS-04030075	3.0	15		
4LFS-04035075	3.5			
4LFS-04040075	4.0	20		
4LFS-06045075	4.5			6
4LFS-06050075	5.0	25		
4LFS-06055075	5.5			
4LFS-06060075	6.0			
4LFS-08065075	6.5			8
4LFS-08070075	7.0			
4LFS-08075075	7.5			
4LFS-08080075	8.0	30		
4LFS-06030100	3.0	15	100	6
4LFS-06040100	4.0	25		
4LFS-06050100	5.0	30		
4LFS-06060100	6.0			
4LFS-08070100	7.0	35		8
4LFS-08080100	8.0			
4LFS-10090100	9.0	40		10
4LFS-10100100	10.0			
4LFS-12110100	11.0	45		12
4LFS-12120100	12.0			
4LFS-06060150	6.0	50	150	6
4LFS-08080150	8.0			8
4LFS-10100150	10.0	70		10
4LFS-12120150	12.0			12
4LFS-14140150	14.0			14
4LFS-16160150	16.0	75		16
4LFS-18180150	18.0	80		18
4LFS-20200150	20.0			20

Frezy VHM



Zwykłe użytkowanie

CTX-450 MG 0.6μm CO10% HRC-50 AlTiN

ZHY-550 MG 0.5μm CO10% HRC-55 AlTiN

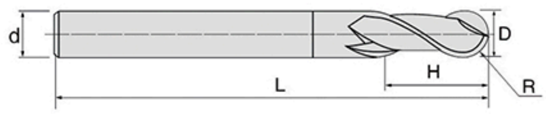
Szybkie frezowanie

ZHY-600 UMG 0.4μm CO12% HRC-60 AlTiN

ZHY-650 UMG 0.2μm CO9% HRC-65 AlTiN-AS

Kod produktu	Promień ostrza R	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2BNM-03010050	R0.50	2.0	50	3
2BNM-03015050	R0.75	3.0		
2BNM-03020050	R1.00	4.0		
2BNM-03025050	R1.25	5.0		
2BNM-03030050	R1.50	6.0		
2BNM-04010050	R0.50	2.0		4
2BNM-04015050	R0.75	3.0		
2BNM-04020050	R1.00	4.0		
2BNM-04025050	R1.25	5.0		
2BNM-04030050	R1.50	6.0		
2BNM-04035050	R1.75	7.0		
2BNM-04040050	R2.00	8.0		
2BNM-06010050	R0.50	2.0		6
2BNM-06015050	R0.75	3.0		
2BNM-06020050	R1.00	4.0		
2BNM-06025050	R1.25	5.0		
2BNM-06030050	R1.50	6.0		
2BNM-06035050	R1.75	7.0		
2BNM-06040050	R2.00	8.0		
2BNM-06045050	R2.25	9.0		
2BNM-06050050	R2.50	10.0		
2BNM-06055050	R2.75	11.0		
2BNM-06060050	R3.00	12.0		
2BNM-08065060	R3.25	13.0	60	8
2BNM-08070060	R3.50	14.0		
2BNM-08075060	R3.75	15.0		
2BNM-08080060	R4.00	16.0		
2BNM-10090075	R4.50	18.0	75	10
2BNM-10100075	R5.00	20.0		
2BNM-12120075	R6.00	25.0		12
2BNM-14140100	R7.00	40.0	100	14
2BNM-16160100	R8.00			16
2BNM-18180100	R9.00			18
2BNM-20200100	R10.0			20
2BNM-25250100	R12.5			25

Frezy VHM



Zwykłe użytkowanie

CTX-450 | MG | 0.6 μm | CO10% | HRC·50 | AITIN

ZHY-550 | MG | 0.5 μm | CO10% | HRC·55 | AITIN

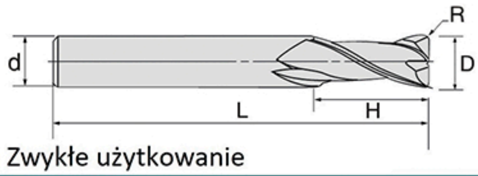
Szybkie frezowanie

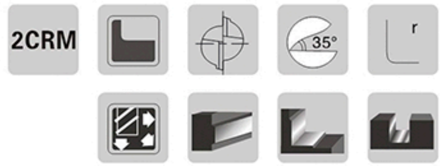
ZHY-600 | UMG | 0.4 μm | CO12% | HRC·60 | AITIN

ZHY-650 | UMG | 0.2 μm | CO9% | HRC·65-68 | AITIN-AS

Kod produktu	Promień ostrza R	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2BNLS-03010075	R0.50	2	75	3
2BNLS-03015075	R0.75	3		
2BNLS-03020075	R1.00	4		
2BNLS-03025075	R1.25	5		
2BNLS-03030075	R1.50	6		
2BNLS-04010075	R0.50	2		4
2BNLS-04015075	R0.75	3		
2BNLS-04020075	R1.00	4		
2BNLS-04025075	R1.25	5		
2BNLS-04030075	R1.50	6		
2BNLS-04035075	R1.75	7		
2BNLS-04040075	R2.00	8		
2BNLS-06045075	R2.25	9		6
2BNLS-06050075	R2.50	10		
2BNLS-06055075	R2.75	11		
2BNLS-06060075	R3.00	12		
2BNLS-08080075	R4.00	16		8
2BNLS-06010100	R0.50	2	100	4
2BNLS-06015100	R0.75	3		
2BNLS-06020100	R1.00	4		
2BNLS-06025100	R1.25	5		
2BNLS-06030100	R1.50	6		
2BNLS-06035100	R1.75	7		
2BNLS-06040100	R2.00	8		
2BNLS-06045100	R2.25	9		6
2BNLS-06050100	R2.50	10		
2BNLS-06055100	R2.75	11		
2BNLS-06060100	R3.00	12		
2BNLS-08080100	R4.00	16		8
2BNLS-10100100	R5.00	20		10
2BNLS-12120100	R6.00	25		12
2BNLS-06060150	R3.00	12	150	6
2BNLS-08080150	R4.00	16		8
2BNLS-10100150	R5.00	20		10
2BNLS-12120150	R6.00	25		12
2BNLS-14140150	R7.00	40		14
2BNLS-16160150	R8.00			16
2BNLS-18180150	R9.00			18
2BNLS-20200150	R10.0			20

Frezy VHM





Zwykłe użytkowanie

CTX-450 | MG | 0.6 μm | CO10% | HRC-50 | AITIN

ZHY-550 | MG | 0.5 μm | CO10% | HRC-55 | AITIN

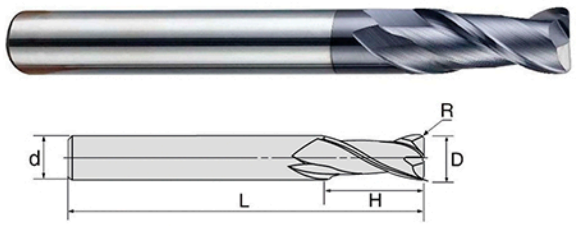
Szybkie frezowanie

ZHY-600 | UMG | 0.4 μm | CO12% | HRC-60 | AITIN

ZHY-650 | UMG | 0.2 μm | CO9% | HRC-[illegible] | AITIN-AS

Kod produktu	Promień ostrza R	R	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2CRM-03020R0.2050	2.0	0.2	6	50	3
2CRM-03020R0.5050		0.5			
2CRM-03025R0.2050	2.5	0.2	8		
2CRM-03025R0.5050		0.5			
2CRM-03030R0.2050	3.0	0.2			
2CRM-03030R0.5050		0.5			
2CRM-03030R1.0050		1.0			
2CRM-04010R0.2050	1.0	0.2	3		4
2CRM-04015R0.2050	1.5	0.2	4		
2CRM-04015R0.5050		0.5			
2CRM-04020R0.2050	2.0	0.2	6		
2CRM-04020R0.5050		0.5			
2CRM-04025R0.2050	2.5	0.2	8		
2CRM-04025R0.5050		0.5			
2CRM-04030R0.2050	3.0	0.2			
2CRM-04030R0.5050		0.5			
2CRM-04030R1.0050		1.0			
2CRM-04040R0.2050	4.0	0.2	11		
2CRM-04040R0.5050		0.5			
2CRM-04040R1.0050		1.0			
2CRM-06050R0.5050	5.0	0.5	15		6
2CRM-06050R1.0050		1.0			
2CRM-06060R0.2050	6.0	0.2			
2CRM-06060R0.5050		0.5			
2CRM-06060R1.0050		1.0			
2CRM-06060R1.5050		1.5			
2CRM-06060R2.0050		2.0			
2CRM-08080R0.5060	8.0	0.5	20	60	8
2CRM-08080R1.0060		1.0			
2CRM-08080R1.5060		1.5			
2CRM-08080R2.0060		2.0			
2CRM-10100R0.5075	10.0	0.5	25	75	10
2CRM-10100R1.0075		1.0			
2CRM-10100R1.5075		1.5			
2CRM-10100R2.0075		2.0			
2CRM-10100R2.5075		2.5			
2CRM-10100R3.0075		3.0			
2CRM-12120R0.5075	12.0	0.5	30		12
2CRM-12120R1.0075		1.0			
2CRM-12120R1.5075		1.5			
2CRM-12120R2.0075		2.0			
2CRM-12120R2.5075		2.5			
2CRM-12120R3.0075		3.0			

Frezy VHM



Zwykłe użytkowanie

CTX-450 | MG | 0.6 μm | CO10% | HRC-50 | AITIN

ZHY-550 | MG | 0.5 μm | CO10% | HRC-55 | AITIN

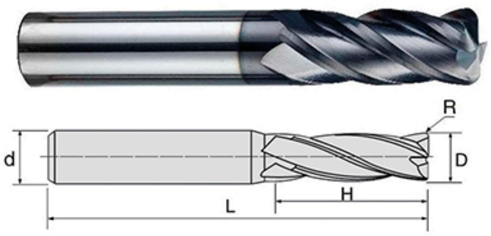
Szybkie frezowanie

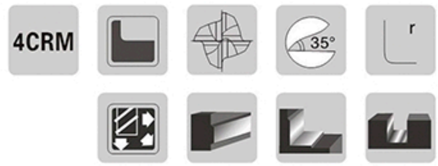
ZHY-600 | UMG | 0.4 μm | CO12% | HRC-60 | AITIN

ZHY-650 | UMG | 0.2 μm | CO9% | HRC-65-68 | AITIN-AS

Kod produktu	Promień ostrza R	R	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2LSCR-04030R0.5075	3.0	0.5	8	75	3
2LSCR-04030R1.0075		1.0			
2LSCR-04030R0.2075	3.0	0.2	8		4
2LSCR-04030R0.5075		0.5			
2LSCR-04030R1.0075		1.0			
2LSCR-04040R0.2075	4.0	0.2	11		
2LSCR-04040R0.5075		0.5			
2LSCR-04040R1.0075		1.0			
2LSCR-06050R0.5075	5.0	0.5	15		6
2LSCR-06050R1.0075		1.0			
2LSCR-06060R0.2075	6.0	0.2			
2LSCR-06060R0.5075		0.5			
2LSCR-06060R1.0075		1.0			
2LSCR-06060R1.5075		1.5			
2LSCR-06060R2.0075		2.0			
2LSCR-08080R0.5075	8.0	0.5	20		8
2LSCR-08080R1.0075		1.0			
2LSCR-08080R1.5075		1.5			
2LSCR-08080R2.0075		2.0			
2LSCR-04040R0.2100	4.0	0.2	11	100	4
2LSCR-04040R0.5100		0.5			
2LSCR-04040R1.0100		1.0			
2LSCR-06050R0.5100	5.0	0.5	15		6
2LSCR-06050R1.0100		1.0			
2LSCR-06060R0.2100	6.0	0.2			
2LSCR-06060R0.5100		0.5			
2LSCR-06060R1.0100		1.0			
2LSCR-06060R1.5100		1.5			
2LSCR-06060R2.0100		2.0			
2LSCR-08080R0.5100	8.0	0.5	20		8
2LSCR-08080R1.0100		1.0			
2LSCR-08080R1.5100		1.5			
2LSCR-08080R2.0100		2.0			
2LSCR-10100R0.5100	10.0	0.5	25		10
2LSCR-10100R1.0100		1.0			
2LSCR-10100R1.5100		1.5			
2LSCR-10100R2.0100		2.0			
2LSCR-10100R2.5100		2.5			
2LSCR-10100R3.0100		3.0			
2LSCR-12120R0.5100	12.0	0.5	30		12
2LSCR-12120R1.0100		1.0			
2LSCR-12120R1.5100		1.5			
2LSCR-12120R2.0100		2.0			
2LSCR-12120R2.5100		2.5			
2LSCR-12120R3.0100		3.0			

Frezy VHM





Zwykłe użytkowanie

CTX-450 | MG | 0.6 μm | CO10% | HRC<50 | AlTIN

ZHY-550 | MG | 0.5 μm | CO10% | HRC<55 | AlTIN

Szybkie frezowanie

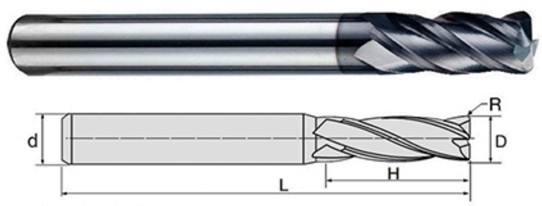
ZHY-600 | UMG | 0.4 μm | CO12% | HRC<60 | AlTIN

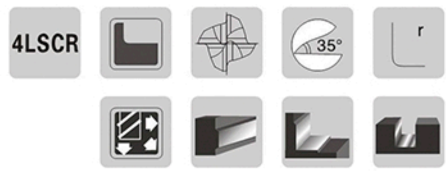
ZHY-650 | UMG | 0.2 μm | CO9% | HRC | AlTIN-AS

Kod produktu	Średnica ostrza d	R	Długość ostrza H	Pełna dł. L	Średn. trzp. d
4CRM-03020R0.2050	2.0	0.2	6	50	3
4CRM-03020R0.5050		0.5			
4CRM-03025R0.2050	2.5	0.2	8		
4CRM-03025R0.5050		0.5			
4CRM-03030R0.2050	3.0	0.2			
4CRM-03030R0.5050		0.5			
4CRM-03030R1.0050		1.0			
4CRM-04010R0.2050	1.0	0.2	3		4
4CRM-04015R0.2050	1.5	0.2	4		
4CRM-04015R0.5050		0.5			
4CRM-04020R0.2050	2.0	0.2	6		
4CRM-04020R0.5050		0.5			
4CRM-04025R0.2050	2.5	0.2	8		
4CRM-04025R0.5050		0.5			
4CRM-04030R0.2050	3.0	0.2			
4CRM-04030R0.5050		0.5			
4CRM-04030R1.0050		1.0			
4CRM-04040R0.2050	4.0	0.2	11		
4CRM-04040R0.5050		0.5			
4CRM-04040R1.0050		1.0			
4CRM-06050R0.5050	5.0	0.5	15		6
4CRM-06050R1.0050		1.0			
4CRM-06060R0.2050	6.0	0.2			
4CRM-06060R0.5050		0.5			
4CRM-06060R1.0050		1.0			
4CRM-06060R1.5050		1.5			
4CRM-06060R2.0050		2.0			
4CRM-08080R0.5060	8.0	0.5	20	60	8
4CRM-08080R1.0060		1.0			
4CRM-08080R1.5060		1.5			
4CRM-08080R2.0060		2.0			
4CRM-10100R0.5075	10.0	0.5	25	75	10
4CRM-10100R1.0075		1.0			
4CRM-10100R1.5075		1.5			
4CRM-10100R2.0075		2.0			
4CRM-10100R2.5075		2.5			
4CRM-10100R3.0075		3.0			
4CRM-12120R0.5075	12.0	0.5	30		12
4CRM-12120R1.0075		1.0			
4CRM-12120R1.5075		1.5			
4CRM-12120R2.0075		2.0			
4CRM-12120R2.5075		2.5			
4CRM-12120R3.0075		3.0			

ROMAX

Frezy VHM





Zwykłe użytkowanie

CTX-450 | MG | 0.6 μm | CO10% | HRC-50 | AlTiN

ZHY-550 | MG | 0.5 μm | CO10% | HRC-55 | AlTiN

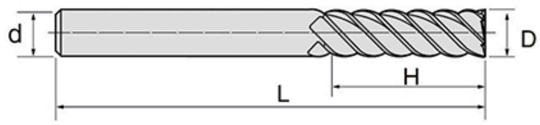
Szybkie frezowanie

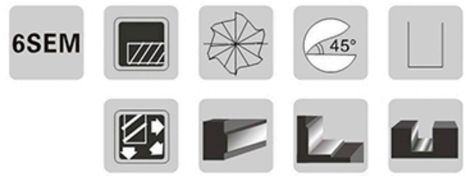
ZHY-600 | UMG | 0.4 μm | CO12% | HRC-60 | AlTiN

ZHY-650 | UMG | 0.2 μm | CO9% | HRC-65-68 | AlTiN-AS

Kod produktu	Średnica ostrza d	R	Długość ostrza H	Pełna dł. L	Średn. trzp. d
4LSCR-04030R0.5075	3.0	0.5	8	75	3
4LSCR-04030R1.0075		1.0			
4LSCR-04030R0.2075	3.0	0.2	8		4
4LSCR-04030R0.5075		0.5			
4LSCR-04030R1.0075		1.0			
4LSCR-04040R0.2075	4.0	0.2	11		
4LSCR-04040R0.5075		0.5			
4LSCR-04040R1.0075		1.0			
4LSCR-06050R0.5075	5.0	0.5	15		6
4LSCR-06050R1.0075		1.0			
4LSCR-06060R0.2075	6.0	0.2			
4LSCR-06060R0.5075		0.5			
4LSCR-06060R1.0075		1.0			
4LSCR-06060R1.5075		1.5			
4LSCR-06060R2.0075		2.0			
4LSCR-08080R0.5075	8.0	0.5	20		8
4LSCR-08080R1.0075		1.0			
4LSCR-08080R1.5075		1.5			
4LSCR-08080R2.0075		2.0			
4LSCR-04040R0.2100	4.0	0.2	11	100	4
4LSCR-04040R0.5100		0.5			
4LSCR-04040R1.0100		1.0			
4LSCR-06050R0.5100	5.0	0.5	15		6
4LSCR-06050R1.0100		1.0			
4LSCR-06060R0.2100	6.0	0.2			
4LSCR-06060R0.5100		0.5			
4LSCR-06060R1.0100		1.0			
4LSCR-06060R1.5100		1.5			
4LSCR-06060R2.0100		2.0			
4LSCR-08080R0.5100	8.0	0.5	20		8
4LSCR-08080R1.0100		1.0			
4LSCR-08080R1.5100		1.5			
4LSCR-08080R2.0100		2.0			
4LSCR-10100R0.5100	10.0	0.5	25		10
4LSCR-10100R1.0100		1.0			
4LSCR-10100R1.5100		1.5			
4LSCR-10100R2.0100		2.0			
4LSCR-10100R2.5100		2.5			
4LSCR-10100R3.0100		3.0			
4LSCR-12120R0.5100	12.0	0.5	30		12
4LSCR-12120R1.0100		1.0			
4LSCR-12120R1.5100		1.5			
4LSCR-12120R2.0100		2.0			
4LSCR-12120R2.5100		2.5			
4LSCR-12120R3.0100		3.0			

Frezy VHM





Zwykłe użytkowanie

ZHY–550 | MG | 0.5 μm | CO10% | HRC•55 | AITIN

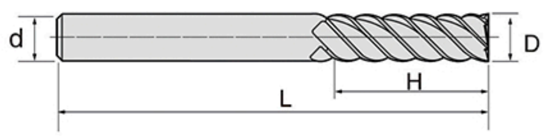
Szybkie frezowanie

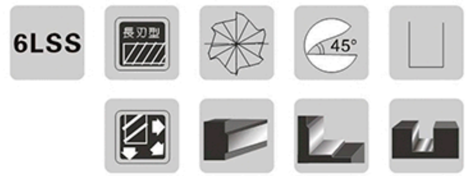
ZHY–600 | UMG | 0.4 μm | CO12% | HRC•60 | AITIN

ZHY–650 | UMG | 0.2 μm | CO9% | HRC•55-58 | AITIN-AS

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
6SEM–06040050	4.0	11	50	6
6SEM–06050050	5.0	13	50	
6SEM–06060050	6.0	15	50	
6SEM–08080060	8.0	20	60	8
6SEM–10100075	10.0	25	75	10
6SEM–12120075	12.0	30	75	12
6SEM–14140100	14.0	45	100	14
6SEM–16160100	16.0			16
6SEM–18180100	18.0			18
6SEM–20200100	20.0			20
6SEM–25250100	25.0			25

Frezy VHM





Zwykłe użytkowanie

ZHY-550 MG 0.5 μm CO10% HRC·55 AITIN

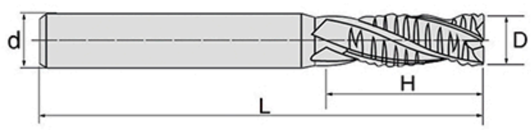
Szybkie frezowanie

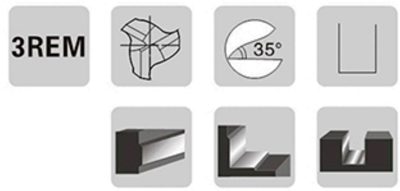
ZHY-600 UMG 0.4 μm CO12% HRC·60 AITIN

ZHY-650 UMG 0.2 μm CO9% HRC·55-58 AITIN-AS

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
6SLF-06040075	4.0	11	75	6
6SLF-06050075	5.0	13		
6SLF-06060075	6.0	15		
6SLF-08080075	8.0	20		8
6SLF-06040100	4.0	11	100	6
6SLF-06050100	5.0	13		
6SLF-06060100	6.0	15		
6SLF-08080100	8.0	20		8
6SLF-10100100	10.0	25		10
6SLF-12120100	12.0	30		12
6SLF-08080150	8.0	40	150	8
6SLF-10100150	10.0			10
6SLF-12120150	12.0			12
6SLF-14140150	14.0	50		14
6SLF-16160150	16.0			16
6SLF-18180150	18.0			18
6SLF-20200150	20.0			20
6SLF-25250150	25.0			25

Frezy VHM





Zwykłe użytkowanie

CTX–450 MG 0.6 µm CO10% HRC-50 AITIN

ZHY–550 MG 0.5 µm CO10% HRC-55 AITIN

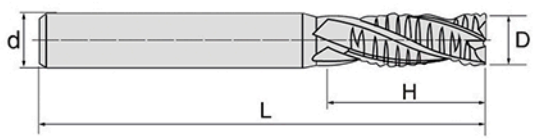
Szybkie frezowanie

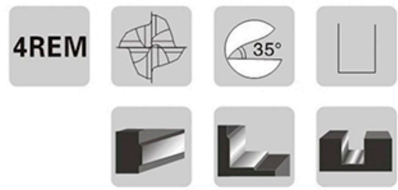
ZHY–600 UMG 0.4 µm CO12% HRC-60 AITIN

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
3REM–06060050	6.0	15	50	6
3REM–08080060	8.0	20	60	8
3REM–10100075	10.0	25	75	10
3REM–12120075	12.0	30		12
3REM–14140100	14.0	45	100	14
3REM–16160100	16.0			16
3REM–18180100	18.0			18
3REM–20200100	20.0			20
3REM–06060100	6.0	15	100	6
3REM–08080100	8.0	20		8
3REM–10100100	10.0	25		10
3REM–12120100	12.0	30		12
3REM–14140150	14.0	45/50	150	14
3REM–16160150	16.0	45/50		16
3REM–18180150	18.0	45/50		18
3REM–20200150	20.0	45/50		20

ROMAX

Frezy VHM





Zwykłe użytkowanie

CTX-450 | MG | 0.6 μm | CO10% | HRC-50 | AITIN

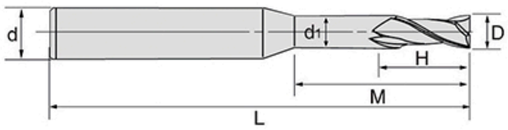
ZHY-550 | MG | 0.5 μm | CO10% | HRC-55 | AITIN

Szybkie frezowanie

ZHY-600 | UMG | 0.4 μm | CO12% | HRC-60 | AITIN

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
4REM-06060050	6.0	15	50	6
4REM-08080060	8.0	20	60	8
4REM-10100075	10.0	25	75	10
4REM-12120075	12.0	30		12
4REM-14140100	14.0	45	100	14
4REM-16160100	16.0			16
4REM-18180100	18.0			18
4REM-20200100	20.0			20
4REM-06060100	6.0	15	100	6
4REM-08080100	8.0	20		8
4REM-10100100	10.0	25		10
4REM-12120100	12.0	30		12
4REM-14140150	14.0	45/50	150	14
4REM-16160150	16.0	45/50		16
4REM-18180150	18.0	45/50		18
4REM-20200150	20.0	45/50		20

Frezy VHM

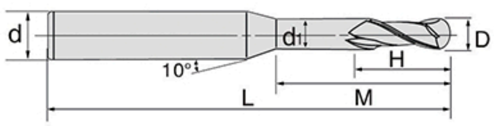


Szybkie frezowanie

ZHY–600 | UMG | 0.4 μm | CO12% | HRC-60 | AlTIN

Kod produktu	Średnica ostrza d	Długość ostrza H	Długość robocza	Pełna dł. L	Średn. trzp. d
SGD2F4D0004L02	0.40	0.4	2	50	4
SGD2F4D0004L04			4		
SGD2F4D0005L02	0.50	0.7	2		
SGD2F4D0005L04			4		
SGD2F4D0005L06			6		
SGD2F4D0006L02	0.60	0.9	2		
SGD2F4D0006L04			4		
SGD2F4D0006L06			6		
SGD2F4D0006L08			8		
SGD2F4D0008L03	0.80	1.2	3		
SGD2F4D0008L04			4		
SGD2F4D0008L06			6		
SGD2F4D0008L08			8		
SGD2F4D0008L10			10		
SGD2F4D0010L04	1.00	1.5	4		
SGD2F4D0010L06			6		
SGD2F4D0010L08			8		
SGD2F4D0010L10			10		
SGD2F4D0010L12			12		
SGD2F4D0015L04	1.50	2.3	4		
SGD2F4D0015L06			6		
SGD2F4D0015L08			8		
SGD2F4D0015L10			10		
SGD2F4D0015L12			12		
SGD2F4D0020L06	2.00	3.0	6		
SGD2F4D0020L08			8		
SGD2F4D0020L10			10		
SGD2F4D0020L12			12		
SGD2F4D0020L14			14		
SGD2F4D0020L16			16		
SGD2F4D0030L08	3.00	4.5	8		
SGD2F4D0030L10			10		
SGD2F4D0030L12			12		
SGD2F4D0030L14			14		
SGD2F4D0030L16			16	75	
SGD2F4D0030L20			20		
SGD2F6D0040L12	4.00	6.0	12	50	6
SGD2F6D0040L14			14		
SGD2F6D0040L16			16	75	
SGD2F6D0040L20			20		
SGD2F6D0040L25			25		

Frezy VHM

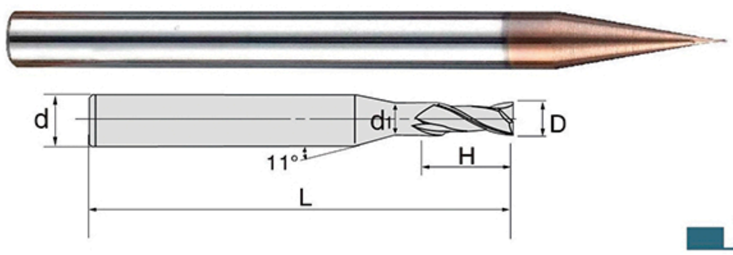


Szybkie frezowanie

ZHY–600 UMG 0.4 μm CO12% HRC-60 AlTIN

Kod produktu	Promień ostrza R	Długość ostrza H	Długość robocza	Pełna dł. L	Średn. trzp. d
2LNSFBN-04020R02L	R0.20	0.4	2	50	4
2LNSFBN-04020R04L			4		
2LNSFBN-04025R02L	R0.25	0.5	2		
2LNSFBN-04025R04L			4		
2LNSFBN-04025R06L			6		
2LNSFBN-04030R02L	R0.30	0.6	2		
2LNSFBN-04030R04L			4		
2LNSFBN-04030R06L			6		
2LNSFBN-04030R08L			8		
2LNSFBN-04040R03L	R0.40	0.8	3		
2LNSFBN-04040R04L			4		
2LNSFBN-04040R06L			6		
2LNSFBN-04040R08L			8		
2LNSFBN-04040R10L			10		
2LNSFBN-04050R04L	R0.50	1.0	4		
2LNSFBN-04050R06L			6		
2LNSFBN-04050R08L			8		
2LNSFBN-04050R10L			10		
2LNSFBN-04050R12L			12		
2LNSFBN-04075R04L	R0.75	1.5	4		
2LNSFBN-04075R06L			6		
2LNSFBN-04075R08L			8		
2LNSFBN-04075R10L			10		
2LNSFBN-04075R12L			12		
2LNSFBN-04100R06L	R1.00	2.0	6		
2LNSFBN-04100R08L			8		
2LNSFBN-04100R10L			10		
2LNSFBN-04100R12L			12		
2LNSFBN-04100R14L			14		
2LNSFBN-04100R16L			16		
2LNSFBN-04150R08L	R1.50	3.0	8		
2LNSFBN-04150R10L			10		
2LNSFBN-04150R12L			12		
2LNSFBN-04150R14L			14		
2LNSFBN-04150R16L			16	75	
2LNSFBN-04150R20L			20		
2LNSFBN-06200R12L	R2.00	4.0	12	50	6
2LNSFBN-06200R14L			14		
2LNSFBN-06200R16L			16	75	
2LNSFBN-06200R20L			20		
2LNSFBN-06200R25L			25		

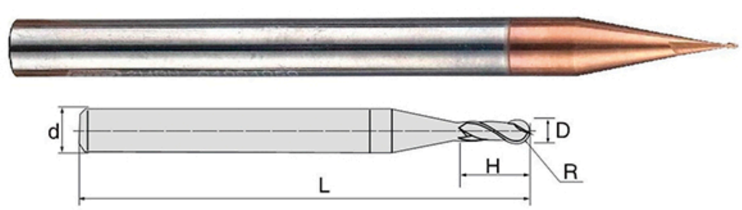
Frezy VHM - mikro

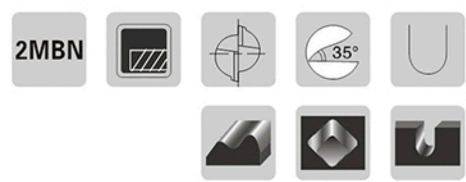


Szybkie frezowanie

ZHY-600 UMG 0.4 μm CO12% HRC›60 AlTiN

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2MSEM-04001050	0.1	0.15	50	4
2MSEM-04002050	0.2	0.4		
2MSEM-04003050	0.3	0.6		
2MSEM-04004050	0.4	0.8		
2MSEM-04005050	0.5	1.0		
2MSEM-04006050	0.6	1.2		
2MSEM-04007050	0.7	1.4		
2MSEM-04008050	0.8	1.6		
2MSEM-04009050	0.9	1.8		



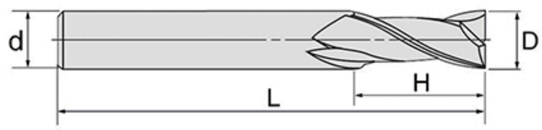


Szybkie frezowanie

ZHY-600 UMG 0.4 μm CO12% HRC›60 AlTiN

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2MBN-04002050	R0.10	0.4	50	4
2MBN-04003050	R0.15	0.6		
2MBN-04004050	R0.20	0.8		
2MBN-04005050	R0.25	1.0		
2MBN-04006050	R0.30	1.2		
2MBN-04007050	R0.35	1.4		
2MBN-04008050	R0.40	1.6		
2MBN-04009050	R0.45	1.8		

Frezy VHM do aluminium



Zwykłe użytkowanie

CTX-500 MG 0.6 μm CO10%

ZHY-550 MG 0.5 μm CO10%

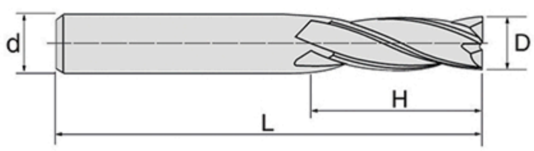
Szybkie frezowanie

ZHY-600 UMG 0.4 μm CO12%

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2AAS-04010050	1.0	3	50	4
2AAS-04015050	1.5	4		
2AAS-04020050	2.0	6		
2AAS-04025050	2.5	8		
2AAS-04030050	3.0			
2AAS-04040050	4.0	11		
2AAS-06050050	5.0	13		6
2AAS-06060050	6.0	15		
2AAS-08070060	7.0	18	60	8
2AAS-08080060	8.0	20		
2AAS-10090075	9.0	23	75	10
2AAS-10100075	10.0	25		
2AAS-12110075	11.0	28		12
2AAS-12120075	12.0	30		
2AAS-14140100	14.0	45	100	14
2AAS-16160100	16.0			16
2AAS-18180100	18.0			18
2AAS-20200100	20.0			20
2AAS-25250100	25.0			25

ROMAX

Frezy VHM do aluminium



Zwykłe użytkowanie

CTX-500 | MG | 0.6 μm | CO10%

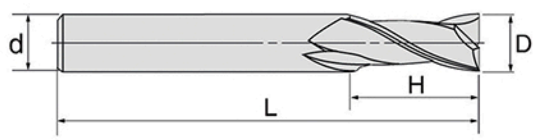
ZHY-550 | MG | 0.5 μm | CO10%

Szybkie frezowanie

ZHY-600 | UMG | 0.4 μm | CO12%

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2AASLS-06030075	3.0	8	75	6
2AASLS-06040075	4.0	11		
2AASLS-06050075	5.0	13		
2AASLS-06060075	6.0	15		
2AASLS-08080075	8.0	20		8
2AASLS-06030100	3.0	8	100	6
2AASLS-06040100	4.0	11		
2AASLS-06050100	5.0	13		
2AASLS-06060100	6.0	15		
2AASLS-08080100	8.0	20		8
2AASLS-10100100	10.0	25		10
2AASLS-12120100	12.0	30		12
2AASLS-08080150	8.0	40	150	8
2AASLS-10100150	10.0	50		10
2AASLS-12120150	12.0			12
2AASLS-14140150	14.0			14
2AASLS-16160150	16.0			16
2AASLS-18180150	18.0			18
2AASLS-20200150	20.0			20
2AASLS-25250150	25.0			25

Frezy VHM do aluminium



Zwykłe użytkowanie

CTX-500 MG 0.6 μm CO10%

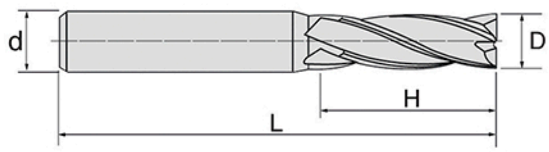
ZHY-550 MG 0.5 μm CO10%

Szybkie frezowanie

ZHY-600 UMG 0.4 μm CO12%

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
3AAS-04010050	1.0	3	50	4
3AAS-04015050	1.5	4		
3AAS-04020050	2.0	6		
3AAS-04025050	2.5	8		
3AAS-04030050	3.0			
3AAS-04040050	4.0	11		
3AAS-06050050	5.0	13		6
3AAS-06060050	6.0	15		
3AAS-08070060	7.0	18	60	8
3AAS-08080060	8.0	20		
3AAS-10090075	9.0	23	75	10
3AAS-10100075	10.0	25		
3AAS-12110075	11.0	28		12
3AAS-12120075	12.0	30		
3AAS-14140100	14.0	45	100	14
3AAS-16160100	16.0			16
3AAS-18180100	18.0			18
3AAS-20200100	20.0			20
3AAS-25250100	25.0			25

Frezy VHM do aluminium



Zwykłe użytkowanie

CTX-500 MG 0.6 μm CO10%

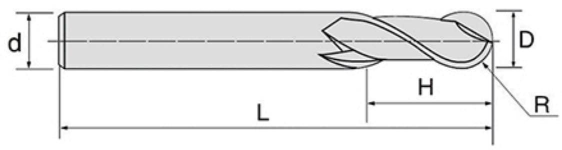
ZHY-550 MG 0.5 μm CO10%

Szybkie frezowanie

ZHY-600 UMG 0.4 μm CO12%

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
3AASLS-04030075	3.0	8	75	4
3AASLS-04040075	4.0	11		
3AASLS-06050075	5.0	13		6
3AASLS-06060075	6.0	15		
3AASLS-08080075	8.0	20		8
3AASLS-06030100	3.0	8	100	4
3AASLS-06040100	4.0	11		
3AASLS-06050100	5.0	13		6
3AASLS-06060100	6.0	15		
3AASLS-08080100	8.0	20		8
3AASLS-10100100	10.0	25		10
3AASLS-12120100	12.0	30		12
3AASLS-08080150	8.0	40	150	8
3AASLS-10100150	10.0	50		10
3AASLS-12120150	12.0			12
3AASLS-14140150	14.0			14
3AASLS-16160150	16.0			16
3AASLS-18180150	18.0			18
3AASLS-20200150	20.0			20
3AASLS-25250150	25.0			25

Frezy VHM do aluminium



Zwykłe użytkowanie

CTX-500 MG 0.6μm CO10%

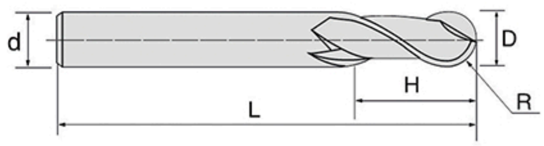
ZHY-550 MG 0.5μm CO10%

Szybkie frezowanie

ZHY-600 UMG 0.4μm CO12%

Kod produktu	Promień ostrza R	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2AASBN-04010050	R0.50	2	50	4
2AASBN-04015050	R0.75	3		
2AASBN-04020050	R1.00	4		
2AASBN-04025050	R1.25	5		
2AASBN-04030050	R1.50	6		
2AASBN-04035050	R1.75	7		
2AASBN-04040050	R2.00	8		
2AASBN-06050050	R2.50	10		6
2AASBN-06060050	R3.00	12		
2AASBN-08080060	R4.00	16	60	8
2AASBN-10100075	R5.00	20	75	10
2AASBN-12120075	R6.00	24		12
2AASBN-14140100	R7.00	30	100	14
2AASBN-16160100	R8.00	40		16
2AASBN-18180100	R9.00			18
2AASBN-20200100	R10.00			20

Frezy VHM do aluminium



Zwykłe użytkowanie

CTX–500 | MG | 0.6 μm | CO10%

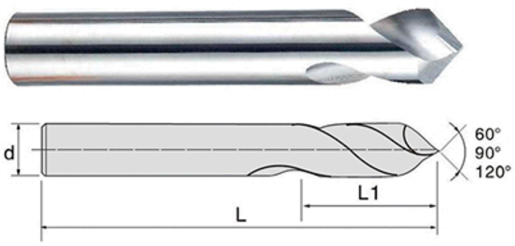
ZHY–550 | MG | 0.5 μm | CO10%

Szybkie frezowanie

ZHY–600 | UMG | 0.4 μm | CO12%

Kod produktu	Promień ostrza R	Długość ostrza H	Pełna dł. L	Średn. trzp. d
3AASBN–04010050	R0.50	2	50	4
3AASBN–04015050	R0.75	3		
3AASBN–04020050	R1.00	4		
3AASBN–04025050	R1.25	5		
3AASBN–04030050	R1.50	6		
3AASBN–04035050	R1.75	7		
3AASBN–04040050	R2.00	8		
3AASBN–06050050	R2.50	10		6
3AASBN–06060050	R3.00	12		
3AASBN–08080060	R4.00	16	60	8
3AASBN–10100075	R5.00	20	75	10
3AASBN–12120075	R6.00	25		12
3AASBN–14140100	R7.00	40	100	14
3AASBN–16160100	R8.00			16
3AASBN–18180100	R9.00			18
3AASBN–20200100	R10.00			20

Nawiertaki - Rozwiertaki VHM

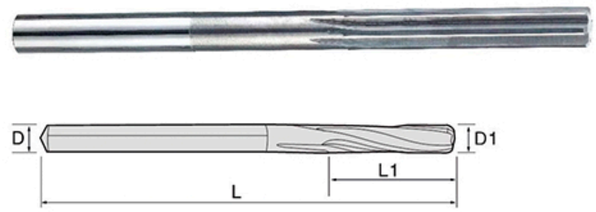


NCSD

20°

Zwykłe użytkowanie

ZHY-550 | MG | 0.5µm | CO10%



PMR

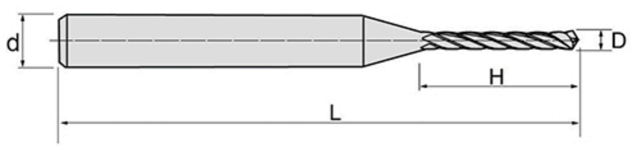
Zwykłe użytkowanie

ZHY-550 | MG | 0.5µm | CO10% | HRC55 | AlTiN

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Kąt	Średn. trzp. d
NCSD-02020 050	2	4	50	60° 90° 120°	2
NCSD-03030 050	3	6			3
NCSD-04040 050	4	8			4
NCSD-05050 050	5	10			5
NCSD-06060 050	6	12			6
NCSD-08080 060	8	16	60		8
NCSD-10100 075	10	20	75		10
NCSD-12120 075	12				12
NCSD-16160 100	16	25	100		16
NCSD-20200 100	20				20
NCSD-03030 075	3	6	75		3
NCSD-04040 075	4	8			4
NCSD-05050 075	5	10			5
NCSD-06060 075	6	12			6
NCSD-08080 075	8	16			8
NCSD-04040 100	4	8	100		4
NCSD-05050 100	5	10			5
NCSD-06060 100	6	12			6
NCSD-08080 100	8	16			8
NCSD-10100 100	10	20			10
NCSD-12120 100	12				12
NCSD-06060 150	6	12	150		6
NCSD-08080 150	8	16			8
NCSD-10100 150	10	20			10
NCSD-12120 150	12				12
NCSD-16160 150	16	25			16
NCSD-20200 150	20				20
NCSD-06060 200	6	12	200		6
NCSD-08080 200	8	16			8
NCSD-10100 200	10	20			10
NCSD-12120 200	12				12
NCSD-16160 200	16	25			16
NCSD-20200 200	20				20

Kod produktu	Średnica ostrza d	Długość ostrza H	Numer ostrza	Pełna dł. L	Średn. trzp. d
PMR-03010 038	1.0	6	4	38	3
PMR-03015 040	1.5	8		40	
PMR-03020 049	2.0	11		49	
PMR-03025 057	2.5	14		57	
PMR-03030 061	3.0	15		61	
PMR-04035 070	3.5	18		70	4
PMR-04040 075	4.0	19		75	
PMR-06045 080	4.5	21		80	6
PMR-06050 086	5.0	23		86	
PMR-06055 093	5.5	26	6	93	
PMR-06060 093	6.0				
PMR-08065 101	6.5	28		101	8
PMR-08070 109	7.0	31		109	
PMR-08075 109	7.5				
PMR-08080 117	8.0	33		117	
PMR-10085 117	8.5				10
PMR-10090 125	9.0	36		125	
PMR-10095 125	9.5				
PMR-10100 133	10.0	38		133	
PMR-12105 133	10.5				12
PMR-12110 142	11.0	41		142	
PMR-12115 142	11.5				
PMR-12120 151	12.0	44		151	
PMR-14125 151	12.5				14
PMR-14130 151	13.0				
PMR-14140 151	14.0				
PMR-16150 151	15.0				16
PMR-16160 151	16.0				
PMR-18170 151	17.0				18
PMR-18180 151	18.0				
PMR-20190 151	19.0				20
PMR-20200 151	20.0				

Wiertła VHM - mikro



Szybkie wiercenie

ZHY-600 UMG 0.4μm CO12% HRC-60 AlTiN

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2MDD-030010 38	0.10	1	38	3.175 (1/8)
2MDD-030015 38	0.15			
2MDD-030020 38	0.20	1.5		
2MDD-030025 38	0.25	2		
2MDD-030030 38	0.30			
2MDD-030035 38	0.35	2.5		
2MDD-030040 38	0.40	3.5		
2MDD-030045 38	0.45			
2MDD-030050 38	0.50			
2MDD-030060 38	0.60	4		
2MDD-030070 38	0.70	5		
2MDD-030080 38	0.80	6		
2MDD-030090 38	0.90			
2MDD-030100 38	1.00	7		
2MDD-030110 38	1.10	8		
2MDD-030120 38	1.20			
2MDD-030130 38	1.30	9		
2MDD-030140 38	1.40	10		
2MDD-030150 38	1.50	11		
2MDD-030160 38	1.60			
2MDD-030170 38	1.70	12		
2MDD-030180 38	1.80	13		
2MDD-030190 38	1.90	14		
2MDD-030200 38	2.00			
2MDD-030210 38	2.10	15		
2MDD-030220 38	2.20			
2MDD-030230 38	2.30			
2MDD-030240 38	2.40			
2MDD-030250 38	2.50			
2MDD-030260 38	2.60			
2MDD-030270 38	2.70			
2MDD-030280 38	2.80			
2MDD-030290 38	2.90			

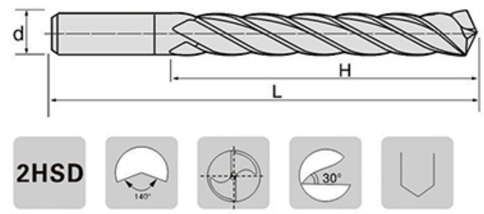
ROMAX

Wiertła VHM

Zwykłe użytkowanie

CTX-450 | MG | 0.6μm | CO10% | HRC•50 | AITIN

ZHY-550 | MG | 0.5μm | CO10% | HRC•55 | AITIN



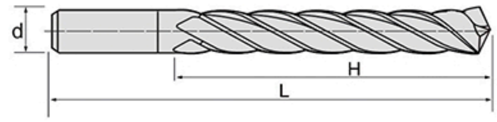
Szybkie wiercenie

ZHY-600 | UMG | 0.4μm | CO12% | HRC•60 | AITIN

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2SFHSD-030050 50	0.5	3	50	3
2SFHSD-030060 50	0.6			
2SFHSD-030070 50	0.7	4		
2SFHSD-030080 50	0.8			
2SFHSD-030090 50	0.9	5		
2SFHSD-030100 50	1.0	6		
2SFHSD-030110 50	1.1	7		
2SFHSD-030120 50	1.2	8		
2SFHSD-030130 50	1.3			
2SFHSD-030140 50	1.4	9		
2SFHSD-030150 50	1.5			
2SFHSD-030160 50	1.6	10		
2SFHSD-030170 50	1.7			
2SFHSD-030180 50	1.8	11		
2SFHSD-030190 50	1.9			
2SFHSD-030200 50	2.0	12		
2SFHSD-030210 50	2.1			
2SFHSD-030220 50	2.2	13		
2SFHSD-030230 50	2.3			
2SFHSD-030240 50	2.4	14		
2SFHSD-030250 50	2.5			
2SFHSD-030260 50	2.6			
2SFHSD-030270 50	2.7	16		
2SFHSD-030280 50	2.8			
2SFHSD-030290 50	2.9			
2SFHSD-030300 50	3.0			
2SFHSD-040310 55	3.1	18	55	4
2SFHSD-040320 55	3.2			
2SFHSD-040330 55	3.3			
2SFHSD-040340 55	3.4	20		
2SFHSD-040350 55	3.5			
2SFHSD-040360 55	3.6			
2SFHSD-040370 55	3.7			
2SFHSD-040380 55	3.8	22		
2SFHSD-040390 55	3.9			
2SFHSD-040400 55	4.0			
2SFHSD-060410 75	4.1		75	6
2SFHSD-060420 75	4.2			
2SFHSD-060430 75	4.3	24		
2SFHSD-060440 75	4.4			
2SFHSD-060450 75	4.5			
2SFHSD-060460 75	4.6			
2SFHSD-060470 75	4.7			
2SFHSD-060480 75	4.8	26		
2SFHSD-060490 75	4.9			
2SFHSD-060500 75	5.0			

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2SFHSD-060510 75	5.1	26	75	6
2SFHSD-060520 75	5.2			
2SFHSD-060530 75	5.3			
2SFHSD-06054 075	5.4	28		
2SFHSD-06055 075	5.5			
2SFHSD-06056 075	5.6			
2SFHSD-06057 075	5.7			
2SFHSD-06058 075	5.8			
2SFHSD-06059 075	5.9			
2SFHSD-06060 075	6.0			
2SFHSD-08061 080	6.1	31	80	8
2SFHSD-08062 080	6.2			
2SFHSD-08063 080	6.3			
2SFHSD-08064 080	6.4			
2SFHSD-08065 080	6.5			
2SFHSD-08066 080	6.6			
2SFHSD-08067 080	6.7			
2SFHSD-08068 080	6.8	34		
2SFHSD-08069 080	6.9			
2SFHSD-08070 080	7.0			
2SFHSD-08071 080	7.1			
2SFHSD-08072 080	7.2			
2SFHSD-08073 080	7.3			
2SFHSD-08074 080	7.4			
2SFHSD-08075 080	7.5			
2SFHSD-08076 080	7.6	37		
2SFHSD-08077 080	7.7			
2SFHSD-08078 080	7.8			
2SFHSD-08079 080	7.9			
2SFHSD-08080 080	8.0			
2SFHSD-10081 090	8.1		90	10
2SFHSD-10082 090	8.2			
2SFHSD-10083 090	8.3			
2SFHSD-10084 090	8.4			
2SFHSD-10085 090	8.5			
2SFHSD-10086 090	8.6	40		
2SFHSD-10087 090	8.7			
2SFHSD-10088 090	8.8			
2SFHSD-10089 090	8.9			
2SFHSD-10090 090	9.0			
2SFHSD-10091 090	9.1			
2SFHSD-10092 090	9.2			
2SFHSD-10093 090	9.3			
2SFHSD-10094 090	9.4			
2SFHSD-10095 090	9.5			

Wiertła VHM



Zwykłe użytkowanie

CTX-450 MG 0.6μm CO10% HRC>50 AlTiN

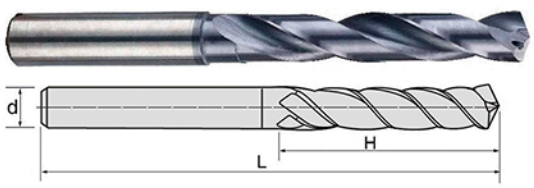
ZHY-550 MG 0.5μm CO10% HRC>55 AlTiN

Szybkie wiercenie

ZHY-600 UMG 0.4μm CO12% HRC>60 AlTiN

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2SFHSD-10096 090	9.6	43	90	10
2SFHSD-10097 090	9.7			
2SFHSD-10098 090	9.8			
2SFHSD-10099 090	9.9			
2SFHSD-10100 090	10.0			
2SFHSD-12101 100	10.1		100	12
2SFHSD-12102 100	10.2			
2SFHSD-12103 100	10.3			
2SFHSD-12104 100	10.4			
2SFHSD-12105 100	10.5			
2SFHSD-12106 100	10.6	47		
2SFHSD-12107 100	10.7			
2SFHSD-12108 100	10.8			
2SFHSD-12109 100	10.9			
2SFHSD-12110 100	11.0			
2SFHSD-12111 100	11.1			
2SFHSD-12112 100	11.2			
2SFHSD-12113 100	11.3			
2SFHSD-12114 100	11.4			
2SFHSD-12115 100	11.5			
2SFHSD-12116 100	11.6	51		
2SFHSD-12117 100	11.7			
2SFHSD-12118 100	11.8			
2SFHSD-12119 100	11.9			
2SFHSD-12120 100	12.0			
2SFHSD-14130 100	13.0			14
2SFHSD-14140 100	14.0			
2SFHSD-16150 100	15.0			16
2SFHSD-16160 100	16.0			
2SFHSD-18170 100	17.0			18
2SFHSD-18180 100	18.0			
2SFHSD-20190 100	19.0			20
2SFHSD-20200 100	20.0			

Wiertła VHM



Zwykłe użytkowanie

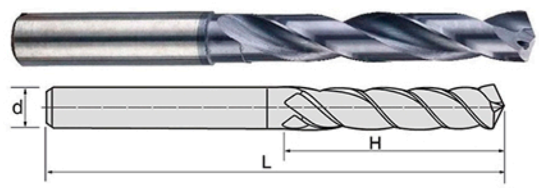
CTX-450 MG 0.6 µm CO10% HRC-50 AlTiN

ZHY-550 MG 0.5 µm CO10% HRC-55 AlTiN

Szybkie wiercenie

ZHY-600 UMG 0.4 µm CO12% HRC-60 AlTiN

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2HSDC-06040066-3xd	4.0	24	66	6
2HSDC-06045066-3xd	4.5			
2HSDC-06050066-3xd	5.0	28		
2HSDC-06055066-3xd	5.5			
2HSDC-06060066-3xd	6.0			
2HSDC-08065079-3xd	6.5	34	79	8
2HSDC-08070079-3xd	7.0	41		
2HSDC-08075079-3xd	7.5			
2HSDC-08080079-3xd	8.0			
2HSDC-10085089-3xd	8.5	47	89	10
2HSDC-10090089-3xd	9.0			
2HSDC-10095089-3xd	9.5			
2HSDC-10100089-3xd	10.0			
2HSDC-12105102-3xd	10.5	55	102	12
2HSDC-12110102-3xd	11.0			
2HSDC-12115102-3xd	11.5			
2HSDC-12120102-3xd	12.0			
2HSDC-14125107-3xd	12.5	60	107	14
2HSDC-14130107-3xd	13.0			
2HSDC-14135107-3xd	13.5			
2HSDC-14140107-3xd	14.0			
2HSDC-16145115-3xd	14.5	65	115	16
2HSDC-16150115-3xd	15.0			
2HSDC-16155115-3xd	15.5			
2HSDC-16160115-3xd	16.0			
2HSDC-18165123-3xd	16.5	73	123	18
2HSDC-18170123-3xd	17.0			
2HSDC-18175123-3xd	17.5			
2HSDC-18180123-3xd	18.0			
2HSDC-20185131-3xd	18.5	79	131	20
2HSDC-20190131-3xd	19.0			
2HSDC-20195131-3xd	19.5			
2HSDC-20200131-3xd	20.0			



Zwykłe użytkowanie

CTX-450 MG 0.6 µm CO10% HRC-50 AlTiN

ZHY-550 MG 0.5 µm CO10% HRC-55 AlTiN

Szybkie wiercenie

ZHY-600 UMG 0.4 µm CO12% HRC-60 AlTiN

Kod produktu	Średnica ostrza d	Długość ostrza H	Pełna dł. L	Średn. trzp. d
2HSDC-06040074-5xd	4.0	36	74	6
2HSDC-06045074-5xd	4.5			
2HSDC-06050082-5xd	5.0	44	82	
2HSDC-06055082-5xd	5.5			
2HSDC-06060082-5xd	6.0			
2HSDC-08065091-5xd	6.5	53	91	8
2HSDC-08070091-5xd	7.0			
2HSDC-08075091-5xd	7.5			
2HSDC-08080091-5xd	8.0			
2HSDC-10085103-5xd	8.5	61	103	10
2HSDC-10090103-5xd	9.0			
2HSDC-10095103-5xd	9.5			
2HSDC-10100103-5xd	10.0			
2HSDC-12105118-5xd	10.5	71	118	12
2HSDC-12110118-5xd	11.0			
2HSDC-12115118-5xd	11.5			
2HSDC-12120118-5xd	12.0			
2HSDC-14125127-5xd	12.5	77	127	14
2HSDC-14130127-5xd	13.0			
2HSDC-14135127-5xd	13.5			
2HSDC-14140127-5xd	14.0			
2HSDC-16145133-5xd	14.5	83	133	16
2HSDC-16150133-5xd	15.0			
2HSDC-16155133-5xd	15.5			
2HSDC-16160133-5xd	16.0			
2HSDC-18165143-5xd	16.5	93	143	18
2HSDC-18170143-5xd	17.0			
2HSDC-18175143-5xd	17.5			
2HSDC-18180143-5xd	18.0			
2HSDC-20185153-5xd	18.5	101	153	20
2HSDC-20190153-5xd	19.0			
2HSDC-20195153-5xd	19.5			
2HSDC-20200153-5xd	20.0			

Narzędzia różne

ROMAX

Narzędzia różne

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