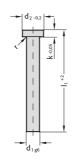
Ejector pin, hardened, DIN ISO 6751







Material:

WS Order No 237.1. Hardness: Shaft 60 ± 2 HRC Head 45 ± 5 HRC

WS = Alloy Tool Steel

Material No 1.2210, 1.2516, 1.2842 or similar.

Characteristics: Hard and tough tool steel, medium wear resistance.

Execution:

Shank hardened and precision ground. Head hot upset-forged.

237.1. Ejector pin, hardened, DIN ISO 6751

d_1	d ₂	k	r	l ₁	l ₁	I ₁	l ₁	I ₁	l ₁					
				40	63	80	100	125	160	200	250	315	400	500
1	2.5	1.2	0.2	•	•	•	•	•	•	•				
1.1	2.5	1.2	0.2	•		•	•	•						
1.2	2.5	1.2	0.2			•								
1.3	3	1.5	0.2			•								
1.4	3	1.5	0.2			•								
1.5	3	1.5	0.2			•								
1.6	3	1.5	0.2			•	•							
1.7	3	1.5	0.2			•								
1.8	3	1.5	0.2			•								
1.9	3	1.5	0.2			•	•							
2	4	2	0.2							•		•		
2.2	4	2	0.2				•					•		
2.5	5	2	0.3											
2.7	5	2	0.3				•					•		
3	6	3	0.3										•	
3.2 3.5	6	3	0.3									•	•	
3.5	7	3	0.3				•		_				•	
3.7	7	3	0.3				•	•					•	
4	8	3	0.3				•					•	•	
4.2	8	3	0.3					•				•	•	
4.5	8	3	0.3											

Ordering Code (example):

Ejector pin, hardened, DIN ISO 6751	=237.1.	
Shaft diameter d ₁	1 mm = 0100.	
Length I₁	40 mm = 040	
Order No	=237.1.0100.040	

Ejector pin, hardened, DIN ISO 6751

237.1.

Material:

WS Order No 237.1. Hardness:

Shaft 60 ± 2 HRC Head 45 ± 5 HRC

WS = Alloy Tool Steel

Material No 1.2210, 1.2516, 1.2842 or similar.

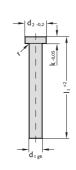
Characteristics: Hard and tough tool steel,

medium wear resistance.

Execution:

Shank hardened and precision ground.

Head hot upset-forged.





237.1. Ejector pin, hardened, DIN ISO 6751

d_1	d ₂	k	r	I_1	l ₁	I_1	l ₁	l ₁	l ₁	I_1	I ₁	l_1	l ₁	l ₁	l_1	l ₁	l ₁	l_1	l ₁
				40	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
4.7	8	3	0.3				•	•	•	•	•	•	•						
5	10	3	0.3	•	•	•		•	•	•	•	•	•	•	•	•			
5.2	10	3	0.3				_	•	•	_	•	•	•	•					
5.5	10	3	0.3				•	•	•		•	•	•	•					
6	12	5	0.5	_	_	_	_	_	_		_	_	_	_	_				
6.2	12	5	0.5				•	•	•		•	•		•	•				
6.5	12	5	0.5					_	_		_	_	_	_					
7	12	5	0.5					•	•		•	•	•	•	•				
8	14	5	0.5		_	_	_	_	_	_	_	_	•	_	_				
8.2	14	5	0.5					•	•		•	•	•	•	•				
8.5	14	5	0.5				_	_	_	_	_	•	•	_	•				
9	14	5	0.5						•			•	•	•	•				
10	16	5	0.5			•	_	_	_	_	•	•	•	_	_				
10.2	16	5	0.5				_	•			_	•							
10.5	16	5	0.5				_	•	_	_	•	•	•	_	•				
11 12	16	5	0.5						_		_	•							
12	18	7	0.8			•			_			_	_	•	•				
12.2 12.5	18	7	0.8					•	•		•	•							
	18	7	0.8				_	•	_		_	•	_	_	_				
14	22	7	0.8			_	_	•	•		•	_	_						
16	22	7	0.8				•	•	•	•	•	•	•	•	•	•	•		
18	24	7	0.8						•		•	_							
20	26	8	1						•	•	•	•	•	•	•	•	•		

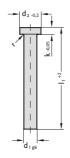
Ordering Code (example):

Ejector pin, hardened, DIN ISO 6751	=237.1.	
Shaft diameter d₁	1 mm = 0100.	
Length I ₁	40 mm = 040	
Order No	=237.1.0100.040	

Ejector pin, nitrided, DIN ISO 6751



237.8.



Material:

NWA
Order No 237.8.
Hardness:
Shaft* ≥ 950 HV 0,3
Head 45 ± 5 HRC
Core strength > 1400 N/mm²

NWA = Hot-Work Tool Steel – Suitable for Nitriding

Material No 1.2344 or similar.

Characteristics: Chrome-Molybdenum-Chrome-Molybdenum-Vanadium hot working die steel; core strength: > 1400 N/mm²; temperature resistant up to 650°C; surface hardness (nitrided) \geq 950 HV 0,3.

Execution:

Shank nitrided and precision ground. Head hot upset-forged.

Note:

*Owing to thinness of nitrided skin, hardness testing on shank restricted to Vickers only. Test load = 3 N max.

237.8. Ejector pin, nitrided, DIN ISO 6751

d_1	d_2	k	r	I_1	l ₁	l ₁	l ₁	I_1	I_1	l_1	l ₁	I ₁	I_1
				100	125	160	200	250	315	400	500	630	800
1.5	3	1.5	0.2	•	•	•	•						
2	4	2	0.2	•	•	•	•	•					
2.2 2.4 2.5	4	2	0.2	•	•	•	•						
2.4	5	2	0.2	•	•	•	•	•	•				
2.5	5	2	0.3	•	•	•	•	•	•				
2.7	5	2	0.3	•	•	•	•						
2.7	5	2	0.3	•	•	•	•	•	•				
3	6	3	0.3	•	•	•	•	•	•	•	•		
3.2	6	3	0.3	•	•	•	•	•	•	•			
3.4	6	3	0.3	•	•	•	•	•	•				
3.5	7	3	0.3	•	•	•	•	•	•	•			
3.7 3.9	7	3	0.3	•	•	•	•	•	•	•			
3.9	7	3	0.3	•	•	•	•	•	•				
4	8	3	0.3	•	•	•	•	•	•	•	•		
4.2	8	3	0.3	•	•	•	•	•	•	•			
4.4 4.5	8	3	0.3	•	•	•	•	•	•				
4.5	8	3	0.3	•	•	•	•	•	•	•			
4.7	8	3	0.3	•	•	•	•	•	•				
4.9	8	3	0.3	•	•	•	•	•	•				
5	10	3	0.3	•	•	•	•	•	•	•	•	•	•
5.2	10	3	0.3	•	•	•	•	•	•	•	•		
5.4 5.5	10	3	0.3	•	•	•	•	•	•				
5.5	10	3	0.3	•	•	•	•	•	•	•	•		
5.7 5.9	10	3	0.3	•	•	•	•	•	•				
5.9	10	3	0.3	•	•	•	•	•	•				
6	12	5	0.5	•	•	•	•	•	•	•	•	•	•

Ejector pin, nitrided, DIN ISO 6751	=237.8.		
Shaft diameter d ₁	1.5 mm = 0	150.	
Length I ₁	100 mm =	100	
Order No	=237.8.01	L50.100	

Ejector pin, nitrided, DIN ISO 6751

Material:

237.8.

NWA Order No 237.8. Hardness:

Shaft* ≥ 950 HV 0,3 Head 45 ± 5 HRC

Core strength > 1400 N/mm²

NWA = Hot-Work Tool Steel – Suitable for Nitriding

Material No 1.2344 or similar.

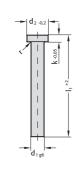
Characteristics: Chrome-Molybdenum-Chrome-Molybdenum-Vanadium hot working die steel; core strength: $> 1400 \text{ N/mm}^2$; temperature resistant up to 650°C_{1} surface hardness (nitrided) $\cong 950 \text{ HV } 0.3$.

Execution:

Shank nitrided and precision ground. Head hot upset-forged.

Note:

*Owing to thinness of nitrided skin, hardness testing on shank restricted to Vickers only. Test load = 3 N max.





237.8. Ejector pin, nitrided, DIN ISO 6751

d_1	d ₂	k	r	l ₁										
				100	125	160	200	250	315	400	500	630	800	1000
6.2	12	5	0.5	•	•	•	•	•	•	•	•	•		
6.5 6.7	12	5	0.5	•	•	•	•	•	•	•	•			
6.7	12	5	0.5	•	•	•	•	•	•					
6.9	12	5	0.5	•	•	•	•	•	•					
7	12	5	0.5	•	•	•	•	•	•	•	•	•		
7.2	12	5	0.5	•	•	•	•	•	•					
7.8	12	5	0.5	•	•	•	•	•	•					
8	14	5	0.5	•	•	•	•	•	•	•	•	•	•	
8.2	14	5	0.5	•	•	•	•	•	•	•	•	•	•	
8.4 8.5	14	5	0.5	•	•	•	•	•	•					
8.5	14	5	0.5	•	•	•	•	•	•	•	•	•		
9	14	5	0.5	•	•	•	•	•	•	•	•	•		
9.7	14	5	0.5	•	•	•	•	•	•					
10	16	- 5	0.5	•	•	•	•	•	•	•	•	•	•	•
10.2	16	5	0.5	•	•	•	•	•	•	•	•	•	•	
10.5	16	- 5	0.5	•	•	•	•	•	•	•	•	•		
11	16	5	0.5	•	•	•	•	•	•	•	•	•		
11 12 12.2	18	7	0.8	•	•	•	•	•	•	•	•	•	•	•
12.2	18	7	0.8	•	•	•	•	•	•	•	•	•	•	
12.5	18	7	0.8	•	•	•	•	•	•	•	•	•	•	
	22	7	0.8	•	•	•	•	•	•	•	•	•	•	•
14 16 18 20 25	22	7	0.8	•	•	•	•	•	•	•	•	•	•	•
18	24	7	0.8			•	•	•	•	•	•	•	•	•
20	26	8	1			•	•	•	•	•	•	•	•	•
25	32	10	1				•	•	•	•	•	•	•	•
32	40	10	1				•	•	•	•	•	•	•	

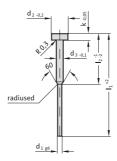
Ordering Code (example):

Ejector pin, nitrided, DIN ISO 6751	=237	.8.			
Shaft diameter d ₁	1.5 mm =	0150.			
Length I₁	100 mm =	100			
Order No	=237	.8.0150.100			

Ejector pin, hardened, round stepped, DIN ISO 8694







Material:

WS Order No 238.1. Hardness: Shaft 60 ± 2 HRC Head 45 ± 5 HRC

WS = Alloy Tool Steel

Material No 1.2210, 1.2516, 1.2842 or similar.

Characteristics: Hard and tough tool steel, medium wear resistance.

Execution:

Shank hardened and precision ground. Head hot upset-forged.

238.1. Ejector pin, hardened, round stepped, DIN ISO 8694

				l ₁	63	80	100	125	160	200
d_1	d ₂	d₃	k	l ₂	30	32	50	50	63	80
0.8	4	2	2		•	•	•	•	•	
0.9	4	2	2		•	•	•	•	•	
1	4	2	2		•	•	•	•	•	•
1.1	4	2	2		•	•	•	•	•	•
1.2	4	2	2		•	•	•	•	•	•
1.3	4	2	2		•	•	•	•	•	•
1.4	4	2	2		•	•	•	•	•	•
1.5	6	3	3		•	•	•	•	•	•
1.6	6	3	3			•	•	•	•	•
1.7	6	3	3			•	•	•	•	•
1.8	6	3	3			•	•	•	•	•
1.9	6	3	3			•	•	•	•	•
2	6	3	3			•	•	•	•	•
2.1	6	3	3				•	•	•	•
2.2	6	3	3			•	•	•	•	•
2.3	6	3	3				•	•	•	•
2.4	6	3	3				•	•	•	•
2.5	6	3	3				•	•	•	•

Ejector pin, hardened, round stepped, DIN ISO 8694	=238.1.	
Diameter d₁	0.8 mm = 0080.	
Length I₁	63 mm = 063	
Order No	=238.1.0080. 063	

Ejector pin, nitrided, round stepped, DIN ISO 8694

Material:

NWA
Order No 238.8.
Hardness:
Shaft* ≥ 950 HV 0,3
Head 45 ± 5 HRC
Core strength > 1400 N/mm²

NWA = Hot-Work Tool Steel – Suitable for Nitriding

Material No 1.2344 or similar.

Characteristics: Chrome-Molybdenum-Chrome-Molybdenum-Vanadium hot working die steel; core strength: > 1400 N/mm²; temperature resistant up to 650°C; surface hardness (nitrided) \(\geq 950 HV 0, 3. \)

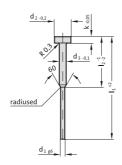
Execution:

Shank nitrided and precision ground. Head hot upset-forged.

Note

*Owing to thinness of nitrided skin, hardness testing on shank restricted to Vickers only. Test load = 3 N max.

238.8.





238.8. Ejector pin, nitrided, round stepped, DIN ISO 8694

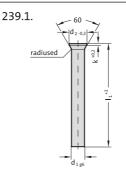
				11	63	80	100	125	160	200
d_1	d ₂	d₃	k	12	30	32	50	50	63	80
0.8	4	2	2		•	•	•	•	•	
0.9	4	2	2		•	•	•	•	•	
1	4	2	2		•	•	•	•	•	
1.1	4	2	2		•	•	•	•	•	
1.2	4	2	2		•	•	•	•	•	
1.3	4	2	2		•	•	•	•	•	
1.4	4	2	2		•	•	•	•	•	
1.5	6	3	3		•	•	•	•	•	•
1.6	6	3	3			•	•	•	•	•
1.7	6	3	3			•	•	•	•	•
1.8	6	3	3			•	•	•	•	•
1.9	6	3	3			•	•	•	•	•
2	6	3	3			•	•	•	•	•
2.2	6	3	3			•	•	•	•	•
2.5	6	3	3				•	•	•	•

Ordering Code (example):

Ejector pin, nitrided, round stepped, DIN ISO 8694	=238.8.	
Diameter d₁	0.8 mm = 008	0.
Length I ₁	63 mm =	063
Order No	=238.8. 008	0. 063

Ejector pin, hardened, similar to DIN 1530 Shape D





Material:

WS Order No 239.1. Hardness: Shaft 60 ± 2 HRC Head 45 ± 5 HRC

WS = Alloy Tool Steel

Material No 1.2210, 1.2516, 1.2842 or similar.

Characteristics: Hard and tough tool steel, medium wear resistance.

Execution:

Shank hardened and precision ground. Head hot upset-forged.

239.1. Ejector pin, hardened, similar to DIN 1530 Shape D

	-											
d_1	d ₂	k	l_1	I ₁	I_1	I ₁	l ₁	I ₁	l_1	l ₁	I_1	l ₁
			40	60	71	80	100	125	160	200	250	315
0.8	1.4	0.5					•	•	•	•		
0.9	1.6	0.5					•	•	•	•		
1	1.8	0.5	•	•	•	•	•	•	•	•		
1.1	1.8	0.5			•		•	•	•	•		
1.2	2	0.5			•		•	•	•	•		
1.25	2	0.5					•	•	•	•		
1.3	2	0.5			•		•	•	•	•		
1.4	2.2	0.5			•		•	•	•	•		
0.9 1 1.1 1.2 1.25 1.3 1.4 1.5	2.2	0.5	•	•	•	•	•	•	•	•		
1.6	2.5	0.5			•		•	•	•	•		
1.6 1.7	2.5	0.5			•		•	•	•	•		
1 75	2.8	0.5					•	•	•	•		
1.8	2.8	0.5			•		•	•	•	•		
1.9	2.8	0.5			•		•	•	•	•		
1.8 1.9 2	3	0.5	•	•	•	•	•	•	•	•	•	
2.1	3.2	0.5			•		•	•	•	•		
2.2	3.2	0.5			•		•	•	•	•	•	
2.25	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	0.5			•		•	•	•	•		
2.7	4	0.5			•		•	•	•	•	•	
2.75	4	0.5			•		•	•	•	•		
2.8	4	0.5			•		•	•	•	•		
2.1 2.2 2.25 2.3 2.4 2.5 2.6 2.7 2.75 2.8 2.9	4	0.5			•		•	•	•	•		
3	4.5	0.5	•	•	•	•	•	•	•	•	•	•
3.1 3.2	4.5	0.5			•		•	•	•	•		
3.2	4.5	0.5			•		•	•	•	•		

Ejector pin, hardened, similar to DIN 1530 Shape D	=239.1.	
Shaft diameter d₁	0.8 mm = 0080.	
Length I ₁	100 mm = 100	
Order No	=239.1.0080. 100	

Ejector pin, hardened, similar to DIN 1530 Shape D

Material: ws Order No 239.1.

Hardness: Shaft 60 ± 2 HRC Head 45 ± 5 HRC

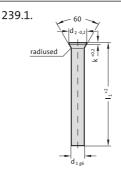
WS = Alloy Tool Steel

Material No 1.2210, 1.2516, 1.2842 or similar.

Characteristics: Hard and tough tool steel, medium wear resistance.

Execution:

Shank hardened and precision ground. Head hot upset-forged.





239.1. Ejector pin, hardened, similar to DIN 1530 Shape D

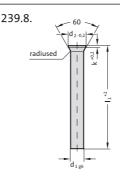
d_1	d ₂	k	I ₁	l ₁	l ₁	I ₁	l ₁	I ₁	l ₁	l ₁	l ₁	l ₁
			40	60	71	80	100	125	160	200	250	315
3.25	4.5	0.5			•		•	•	•	•		
3.5 3.6	5	0.5			•	•	•	•	•	•	•	•
3.6	5	0.5			•		•	•	•	•		
3.75	5	0.5					•	•	•	•		
4	5.5	0.5	•	•	•	•	•	•	•	•	•	•
4.1	5.5	0.5			•		•	•	•	•		
4.2	5.5	0.5			•		•	•	•	•		
4.1 4.2 4.25 4.5	5.5	0.5					•	•	•	•		
4.5	6	0.5			•		•	•	•	•		
4.6	6	0.5			•		•	•	•	•		
5	6.5	0.5	•	•	•	•	•	•	•	•	•	•
5.1 5.2 5.25	6.5	0.5			•		•	•	•	•		
5.2	6.5	0.5			•		•	•	•	•		
5.25	6.5	0.5					•	•	•	•		
5.5	7	0.5		•	•	•	•	•	•	•	•	•
6	8	0.5	•	•	•	•	•	•	•	•	•	•
6.2	8	1				•	•	•	•	•		
6.5	9	1			•	•	•	•	•	•	•	•
	9	1			•	•	•	•	•	•		
7.5	10	1			•		•	•	•	•	•	•
8	10	1		•	•	•	•	•	•	•		
8.2 8.5	10	1					•	•	•	•	•	•
	11	1			•		•	•	•	•	•	•
9	11	1			•		•	•	•	•	•	•
10	12	1			•	•	•	•	•	•	•	•
12	14	1				•	•	•	•	•	•	•
10 12 14 16	16	1.5					•	•	•	•	•	•
16	18	1.5					•	•	•	•	•	•

Ordering Code (example):

Ejector pin, hardened, similar to DIN 1530 Shape D	=239.1.	
Shaft diameter d₁	0.8 mm = 0080.	
Length I ₁	100 mm = 100	
Order No	=239.1.0080. 100	

Ejector pin, nitrided, similar to DIN 1530 Shape D





Material:

NWA
Order No 239.8.
Hardness:
Shaft* ≥ 950 HV 0,3
Head 45 ± 5 HRC
Core strength > 1400 N/mm²

NWA = Hot-Work Tool Steel – Suitable for Nitriding

Material No 1.2344 or similar.

Characteristics: Chrome-Molybdenum-Chrome-Molybdenum-Vanadium hot working discele; core strength: $> 1400 \text{ N/mm}^2$; temperature resistant up to 650°C ; surface hardness (nitrided) $\cong 950 \text{ HV } 0.3$.

Execution:

Shank nitrided and precision ground. Head hot upset-forged.

Note:

*Owing to thinness of nitrided skin, hardness testing on shank restricted to Vickers only. Test load = 3 N max.

239.8. Ejector pin, nitrided, similar to DIN 1530 Shape D

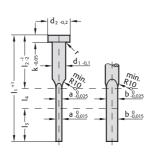
d_1	d ₂	k	I ₁	I ₁	l ₁	l ₁	I_1	l ₁
			100	125	160	200	250	315
3	4.5	0.5	•	•	•	•	•	
4	5.5	0.5	•	•	•	•	•	
5	6.5	0.5	•	•	•	•	•	•
6	8	0.5	•	•	•	•	•	
8	10	1	•	•	•	•	•	•
10	12	1	•	•	•	•	•	•
12	14	1	•	•	•	•	•	•
14	16	1.5			•	•	•	•
16	18	1.5			•	•	•	•

Ejector pin, nitrided, similar to DIN 1530 Shape D	=239.8.	
Shaft diameter d ₁	3 mm = 300.	
Length I ₁	100 mm = 100	
Order No	=239.8. 300.100	_

Flat ejector pin, hardened, similar to DIN ISO 8693



263.1.



Material:

WS Order No 263.1. Hardness: Shaft 60 ± 2 HRC Head 45 ± 5 HRC

WS = Alloy Tool Steel

Material No 1.2210, 1.2516, 1.2842 or similar.

Characteristics: Hard and tough tool steel, medium wear resistance.

Execution:

Shank hardened and precision ground. Head hot upset-forged.

Note:

Special dimensions a and b available on request.

263.1. Flat ejector pin, hardened, similar to DIN ISO 8693

d_1	4	4.2	4.2	4.2	5	5	5	6	6	6	6	8	8	8	10	10	12	12
d ₂	8	8	8	8	10	10	10	12	12	12	12	14	14	14	16	16	18	18
k	3	3	3	3	3	3	3	5	5	5	5	5	5	5	5	5	7	7
r	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8
a	1	0.8	1	1.2	1	1.2	1.5	1	1.2	1.5	2	1.2	1.5	2	1.5	2	2	2.5
b	3.5	3.8	3.8	3.8	4.5	4.5	4.5	5.5	5.5	5.5	5.5	7.5	7.5	7.5	9.5	9.5	11.5	11.5
I 1 I2 I3 I4																		
63 30 25 10	•	•	•															
80 40 30 10	•	•	•	•	•	•		•	•									
100 50 40 10	•	•	•	•	•	•	•	•	•	•	•	•						
125 60 50 15	•	•	•	•	•	•	•	•	•	•	•	•	•					
160 80 50 30			•	•	•	•	•	•	•	•	•	•	•	•	•			
200 100 60 40				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
250 125 60 65													•	•	•	•	•	
315 160 70 85																•	•	•

Ordering Code (example):

Flat ejector pin, hardened, similar to DIN ISO 8693	=263.1.
Width a	1 mm = 10.
Length b	3.5 mm= 035.
Length I ₁	63 mm = 063
Order No	=263.1.10.035.063

Flat ejector pin, nitrided, similar to DIN ISO 8693

Material:

NWA
Order No 263.8.
Hardness:
Shaft* ≥ 950 HV 0,3
Head 45 ± 5 HRC
Core strength > 1400 N/mm²

NWA = Hot-Work Tool Steel – Suitable for Nitriding

Material No 1.2344 or similar.

Characteristics: Chrome-Molybdenum-Chrome-Molybdenum-Vanadium hot working die steel; core strength: > 1400 N/mm²; temperature resistant up to 650°C; surface hardness (nitrided) ≥ 950 HV 0,3.

Execution:

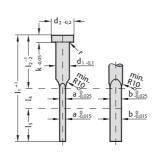
Shank nitrided and precision ground. Head hot upset-forged.

Note:

*Owing to thinness of nitrided skin, hardness testing on shank restricted to Vickers only. Test load = 3 N max.

Special dimensions a and b available on request.

263.8.





263.8. Flat ejector pin, nitrided, similar to DIN ISO 8693

d	4	4.2	4.2	4.2	5	5	5	6	6	6	6	8	8	8	10	10	12	12	16	16
a ₁																				
d ₂	8	8	8	8	10	10	10	12	12	12	12	14	14	14	16	16	18	18	22	22
k	3	3	3	3	3	3	3	5	5	5	5	5	5	5	5	5	7	7	7	7
r	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8
a	1	0.8	1	1.2	1	1.2	1.5	1	1.2	1.5	2	1.2	1.5	2	1.5	2	2	2.5	2	2.5
b	3.5	3.8	3.8	3.8	4.5	4.5	4.5	5.5	5.5	5.5	5.5	7.5	7.5	7.5	9.5	9.5	11.5	11.5	15.5	15.5
I 1 I2 I3 I4																				
63 30 25 10	•	•	•																	
80 40 30 10	•	•	•	•	•	•		•	•											
100 50 40 10	•	•	•	•	•	•	•	•	•	•		•								
125 60 50 15		•	•	•	•	•	•	•	•	•	•	•	•							
160 80 50 30			•	•	•	•	•	•	•	•	•	•	•	•	•					
200 100 60 40				•			•			•	•	•	•	•	•	•	•	•	•	•
250 125 60 65													•	•	•	•	•	•	•	•
315 160 70 85														•	•	•	•	•	•	•
400 200 95 105																•	•		•	•

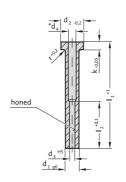
Ordering Code (example):

Flat ejector pin, nitrided, similar to DIN ISO 8693	=263.8.
Width a	1 mm = 10.
Length b	3.5 mm= 35.
Length I ₁	63 mm = 63
Order No	=263.8. 10.35.63

Ejector sleeve, hardened, DIN ISO 8405



264.1.



Material:

WS Order No 264.1. Hardness: Shaft 60 ± 2 HRC Head 45 ± 5 HRC

WS = Alloy Tool Steel

Material No 1.2210, 1.2516, 1.2842 or similar.

Characteristics: Hard and tough tool steel, medium wear resistance.

Execution:

Shank hardened and precision ground. Head hot upset-forged. Guide bore precision ground and honed. *up to \emptyset d₄ = 4,5 tolerance +0,2/-0,1 *from \emptyset d₄ = 5 tolerance +0,3/-0,1

264.1. Ejector sleeve, hardened, DIN ISO 8405

d_1	d₃	d ₄	d_2	k	r	I ₂	l ₁	I_1	I ₁	I ₁	I_1	l_1	I_1	l ₁	I_1	l ₁	l ₁	l ₁
							70	75	80	90	100	125	150	175	200	225	250	275
2.5	1.25	1.6	5	2	0.3	20	•		•	•	•							
3	1.5	1.8	6	3	0.3	35		•			•	•	•					
3	1.6	1.9	6	3	0.3	35		_				_		_				
4	2	2.5	8	3	0.3	35		•			•	•			•	•		
4	2.2	2.4	8	3	0.3	35		_				_		_				
5	2.5	3	10	3	0.3	35		•			•	•		•	•	•		
5	2.7	3	10	3	0.3	45		_				_		_				
5	3	3.5	10	3	0.3	45		•			•	•		•	•	•	•	
5	3.2	3.5	10	3	0.3	45		_			•	_		_				
6	3.5	4	12	5	0.5	45		•			•	•		•		•	•	
6	3.7	4	12	5	0.5	45		•				_		_				
6	4	4.3	12	5	0.5	45		•			•	•		•		•	•	
8	4.2	5	14	5	0.5	45		•				_		_		_	_	_
8	5	5.5	14	5	0.5	45		•				•		•			•	
8	5.2	5.5	14	5	0.5	45		_			_	•		_		_	_	
10	6	6.5	16	5	0.5	45												
10	6.2	6.5	16	5	0.5	45		•			_	•		•	_	_	_	•
12	8	8.5	20	7	0.8	45												
12	8.2	8.5	20	7	0.8	45		•			•	•	•	•	•	•	•	•
14	10	10.5	22	7	0.8	45					•		•	•	•	•	•	
14	10.5	11	22	7	0.8	45		•			•	•	•	•	•	•	•	
16	12	12.5	22	7	0.8	45		•			•	•	•	•	•	•	•	•
16	12.5	13	22	7	0.8	45		•			•	•	•	•	•	•	•	•

Ordering Code (example):

Ejector sleeve, hardened, DIN ISO 8405	=264.1.	
Diameter ejector pin d₃	1.25 mm= 0125.	
Length I ₁	70 mm = 070	_
Order No	=264.1.0125.070	
	· · · · · · · · · · · · · · · · · · ·	

Ejector sleeve, nitrided, DIN ISO 8405

Material:

NWA
Order No 264.8.
Hardness:
Shaft** ≥ 950 HV 0,3
Head 45 ± 5 HRC
Tensile Strength (core) > 1400 N/mm²

NWA = Hot-Work Tool Steel – Suitable for Nitriding

Material No 1.2344 or similar.

Characteristics: Chrome-Molybdenum-Chrome-Molybdenum-Vanadium hot working die steel; core strength: > 1400 N/mm²; temperature resistant up to 650°C; surface hardness (nitrided) \(\geq 950 HV 0,3. \)

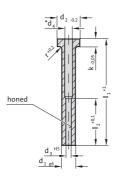
Execution:

Shank nitrided and precision ground. Head hot upset-forged. Guide bore precision ground and honed. *up to \emptyset d₄ = 4,5 tolerance +0,2/-0,1 *from \emptyset d_a = 5 tolerance +0,3/-0,1

Note:

**Owing to thinness of nitrided skin, hardness testing on shank restricted to Vickers only. Test load = 3 N max.

264.8.





264.8. Ejector sleeve, nitrided, DIN ISO 8405

d_1	d₃	d ₄	d_2	k	r	I ₂	I_1	I_1	I_1	I_1	I ₁	l ₁	l ₁	I_1	I_1
							75	100	125	150	175	200	225	250	275
3	1.5	1.8	6	3	0.3	35	•	•	•	•					
3	1.6	1.9	6	3	0.3	35	•	•	•	•					
4	2	2.5	8	3	0.3	35	•	•	•	•					
4	2.2	2.4	8	3	0.3	35	•	•	•	•					
5	2.5	3	10	3	0.3	35	•	•	•	•					
5	2.7	3	10	3	0.3	45	•	•	•	•					
5	3	3.5	10	3	0.3	45	•	•	•	•	•				
5	3.2	3.5	10	3	0.3	45	•	•	•	•	•				
6	3.5	4	12	5	0.5	45	•	•	•	•	•				
6	3.7	4	12	5	0.5	45	•	•	•	•	•				
6	4	4.3	12	5	0.5	45	•	•	•	•	•	•			
8	4.2	5	14	5	0.5	45	•	•	•	•	•	•			
8	5	5.5	14	5	0.5	45	•	•	•	•	•	•			
8	5.2	5.5	14	5	0.5	45	•	•	•	•	•	•			
10	6	6.5	16	5	0.5	45	•	•	•	•	•	•	•	•	
10	6.2	6.5	16	5	0.5	45	•	•	•	•	•	•	•	•	
12	8	8.5	20	7	0.8	45	•	•	•	•	•		•		•
12	8.2	8.5	20	7	0.8	45	•	•	•	•	•	•	•	•	
14	10	10.5	22	7	0.8	45		•	•	•	•	•	•	•	•
14	10.2	10.5	22	7	0.8	45		•	•	•	•	•	•	•	
16	12	12.5	22	7	0.8	45		•	•	•	•	•	•	•	•

Ejector sleeve, nitrided, DIN ISO 8405	=2648.		
Diameter ejector pin d ₃	1.5 mm=	150.	
Length I ₁	75 mm =	75	
Order No	=2648.	150.75	