

METRIC DIN

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Complete line of Metric DIN Mold Components

- In stock
- Wide variety of standard sizes and components
- Easily cross reference Metric DIN products on our website
- Custom sizes available upon request

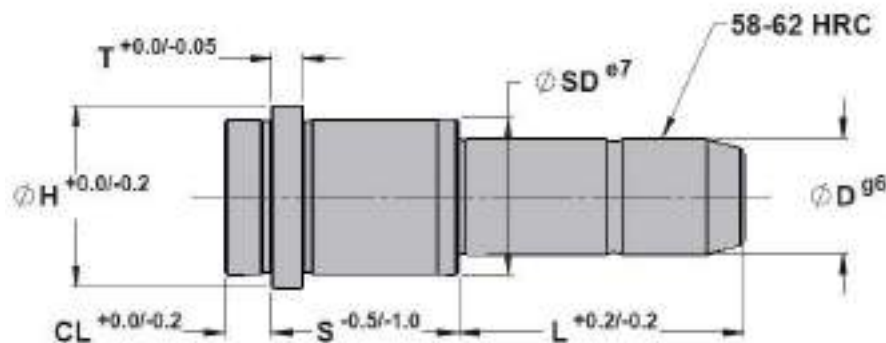


Metric DIN Guide Pins - with Collar

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Tolerances allow for mating with Metric DIN Guide Bushings
- Custom sizes available upon request



SPECIFICATIONS	
Actual Pin Diameter Tolerance	g6
Collar Length Tolerance	+0.0 / -0.2
H Head Diameter Tolerance	-0.20
L Length Tolerance	+/-0.2
S Shoulder Length Tolerance	-0.5 / -1.0
SD Shoulder Diameter Tolerance	e7
T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

- Stocked items
- 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	CL	S	L																						
							020	025	030	035	045	050	055	060	065	070	075	085	090	095	105	110	125	135	145	150	155	165	
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GDP-EC-09-017-						17																							
GDP-EC-09-022-						22																							
GDP-EC-09-027-						27																							
GDP-EC-09-036-						36																							
GDP-EC-09-046-						46																							
GDP-EC-09-056-						56																							
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GDP-EC-10-027-						27																							
GDP-EC-10-036-						36																							
GDP-EC-10-046-						46																							
GDP-EC-10-056-						56																							

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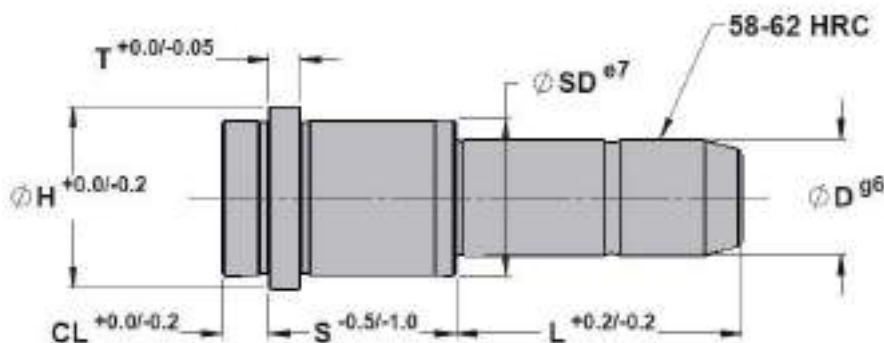
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GDP-EC-14-066-						66																												
GDP-EC-14-076-						76																												
GDP-EC-14-086-						86																												
GDP-EC-14-096-						96																												
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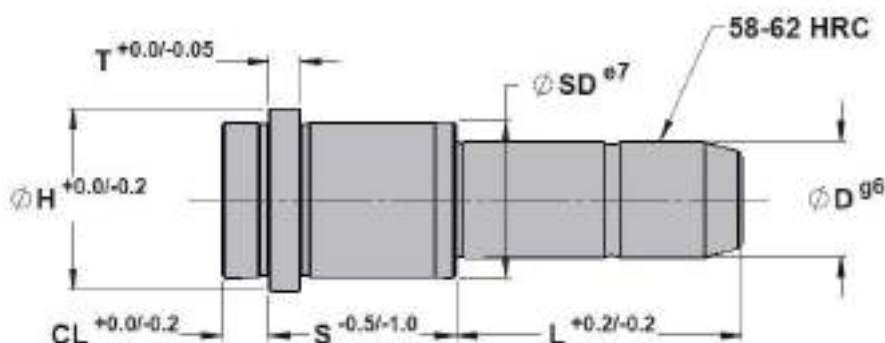
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GDP-EC-15-027-						27	●			●			●																					
GDP-EC-15-036-						36		●				●																						
GDP-EC-15-046-						46		●	●				●																					
GDP-EC-15-056-						56		●				●																						
GDP-EC-15-066-						66						●																						
GDP-EC-15-076-						76																												
GDP-EC-15-086-						86																												
GDP-EC-15-096-						96																												
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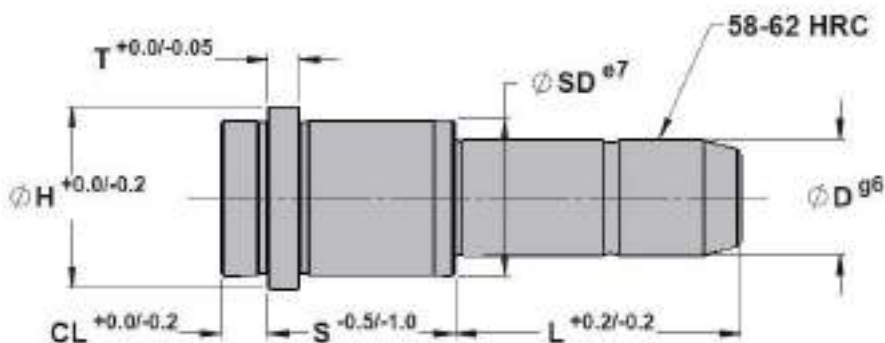
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GDP-EC-18-022-						22		■	■			■			■					■														
GDP-EC-18-027-						27		●	●			●			●			■				■					■	■	■					
GDP-EC-18-036-						36		●			●			●			●			■			■				■	■	■		■			
GDP-EC-18-046-						46		●	●			●			●			●					■				■	■	■		■			
GDP-EC-18-056-						56		●			●			●			●									■								
GDP-EC-18-066-						66		■			●			●			■							■										
GDP-EC-18-076-						76					●			●										■										
GDP-EC-18-086-						86					■			■									■											
GDP-EC-18-096-						96					■							●																
GDP-EC-18-116-						116								■								■												
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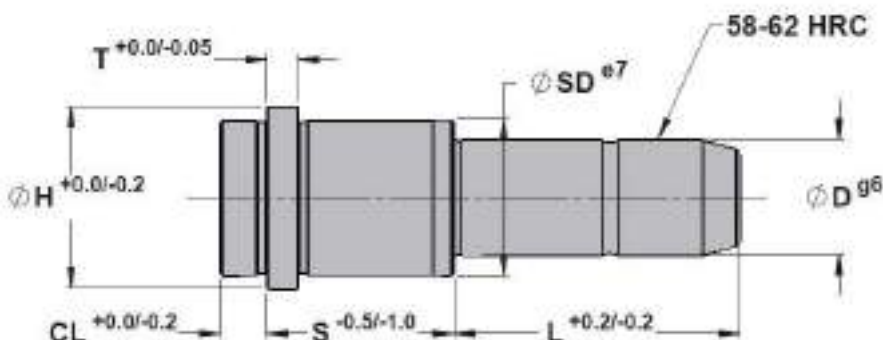
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							035	045	055	065	075	085	095	105	115	120	125	130	135	145	155	165	205	225	245	255	285							
GDP-EC-20-017-	20	26	31	6	9	17	■		■		■					■																		
GDP-EC-20-022-						22	■	■		■		■			■																			
GDP-EC-20-027-						27	●	●		●		●		■			■					■		■	■									
GDP-EC-20-036-						36	●		●		●		●		■					■			■		■		■							
GDP-EC-20-046-						46	●	●		●		●		●		●					■			■			■							
GDP-EC-20-056-						56	●		●		●		●										■											
GDP-EC-20-066-						66	■		●		●		■									■												
GDP-EC-20-076-						76			●		●		■									■												
GDP-EC-20-086-						86			■		■		■					■																
GDP-EC-20-096-						96			■		■		●																					
GDP-EC-20-116-						116					■				■																			
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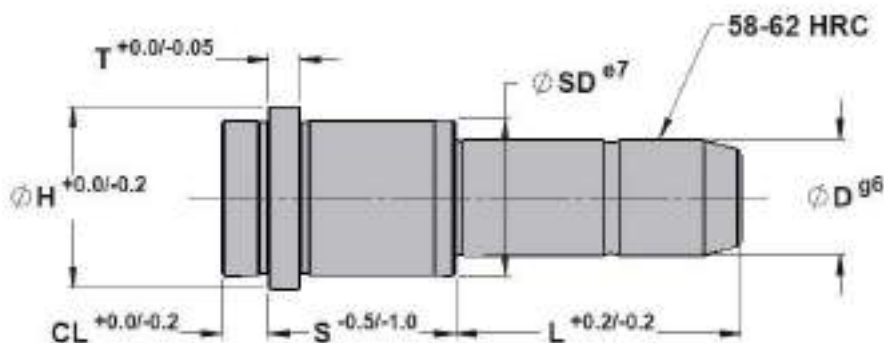
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							035	045	055	065	075	085	095	105	115	120	125	130	135	145	155	165	205	225	245	255	285							
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GDP-EC-22-022-						22																												
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GDP-EC-22-036-						36																												
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GDP-EC-22-096-						96																												
GDP-EC-22-116-						116																												
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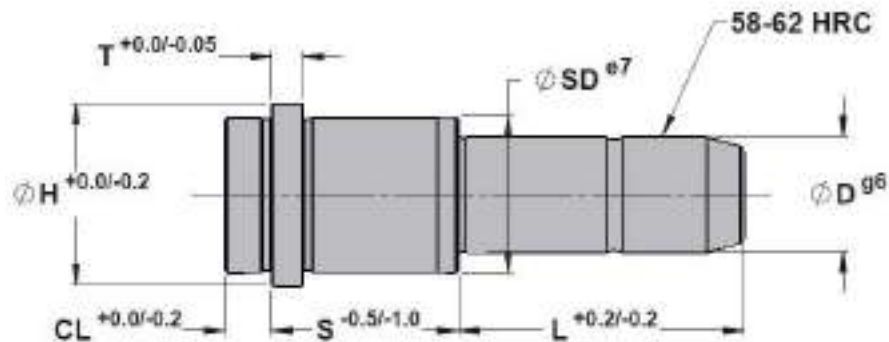
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							035	045	055	065	075	085	095	105	115	125	130	135	145	155	165	175	185	195	205	225	245	285	295						
GDP-EC-24-017-	24	30	35	6	9	17	■		■		■						■																		
GDP-EC-24-022-						22	■		■		■						■																		
GDP-EC-24-027-						27	●	●		●		●		●			■					■				■		■	■						
GDP-EC-24-036-						36	●		●		●		●		●			●				●				●		●							
GDP-EC-24-046-						46	●	●		●		●		●		●		■					●			●									
GDP-EC-24-056-						56	●		●		●		●		●		●					●				■									
GDP-EC-24-066-						66	■		●		●		●		●							●													
GDP-EC-24-076-						76			●		●		●		●		●				■														
GDP-EC-24-086-						86			●		●		●		●					■															
GDP-EC-24-096-						96			●		●		●		●			■																	
GDP-EC-24-116-						116					●				●							●													
GDP-EC-24-136-						136							●						■																
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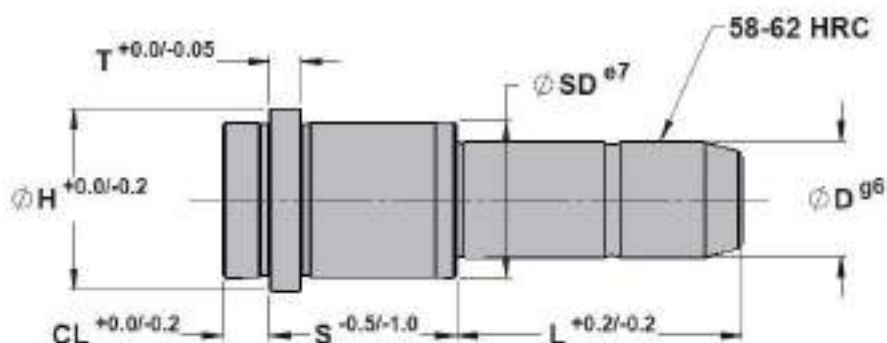
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							035	045	055	065	075	085	095	105	115	125	130	135	145	155	165	175	185	195	205	225	245	285	295					
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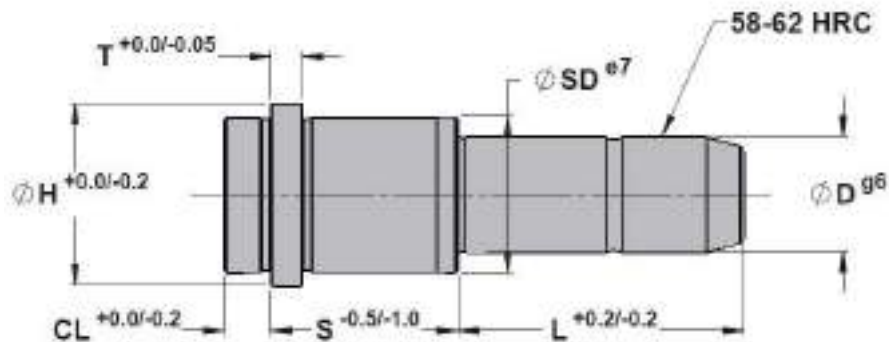
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							045	055	065	075	085	095	105	115	125	135	155	165	175	185	195	205	215	225	235	245	285	295						
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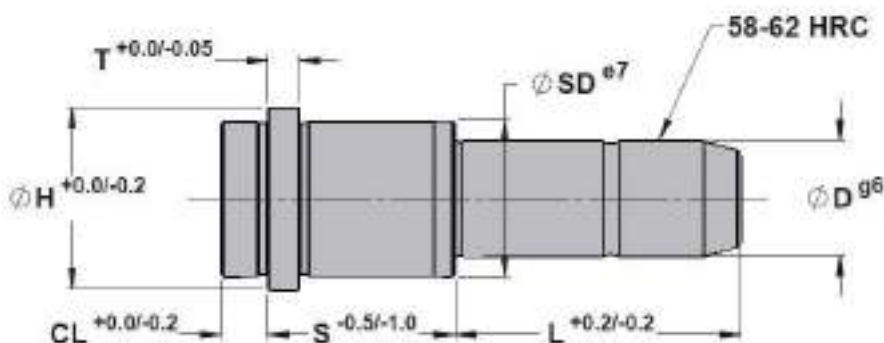
Turn To The Industry Experts

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							045	055	065	075	085	095	105	115	125	135	155	165	175	185	195	205	215	225	235	245	285	295			
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GDP-EC-40-076-						76																									
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GDP-EC-40-116-						116																									
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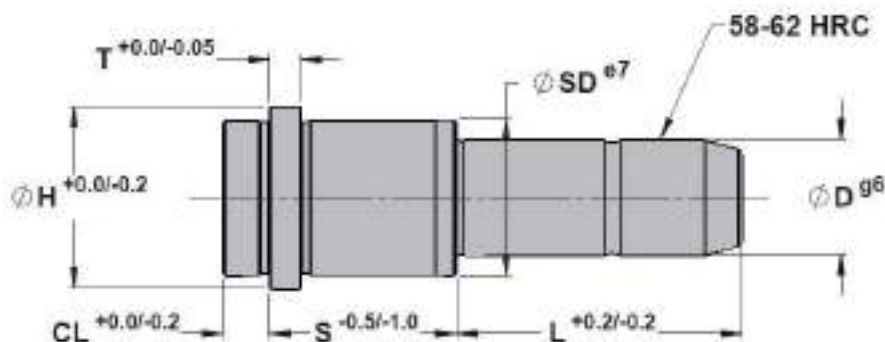
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GDP-EC-42-056-	42	54	60	10	12	56																								
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GDP-EC-42-136-						136																								
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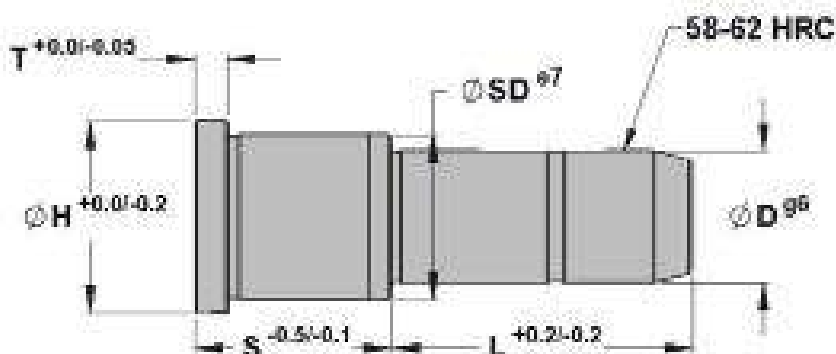
Metric DIN Guide Pins - without Collar

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T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	S	L																	
						020	025	030	035	040	045	050	055	065	070	075	085	090	095	105	110		
GDP-ES-09-017-	9	14	16	3	17																		
GDP-ES-09-022-					22																		
GDP-ES-09-027-					27																		
GDP-ES-09-036-					36																		
GDP-ES-09-046-					46																		
GDP-ES-10-017-	10	14	16	3	17																		
GDP-ES-10-022-					22																		
GDP-ES-10-027-					27																		
GDP-ES-10-036-					36																		
GDP-ES-10-046-					46																		

Add length to end of catalog number (i.e. GDP-ES-09-017-020)

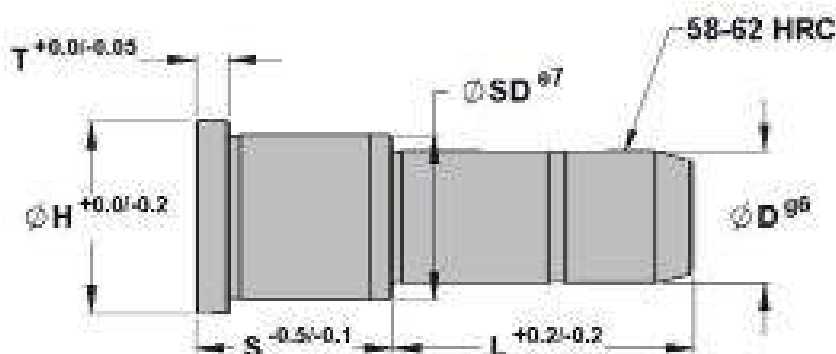
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Metric DIN Guide Pins - without Collar

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Tolerances allow for mating with Metric DIN Guide Bushings
- Custom sizes available upon request



SPECIFICATIONS	
Actual Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.20
L Length Tolerance	+/-0.2
S Shoulder Length Tolerance	-0.5 / -1.0
SD Shoulder Diameter Tolerance	e7
T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	S	L																		
						020	025	030	035	040	045	050	055	065	070	075	085	090	095	105	110			
GDP-ES-14-022-	14	20	25	6	22																			
GDP-ES-14-027-					27																			
GDP-ES-14-036-					36																			
GDP-ES-14-046-					46																			
GDP-ES-14-056-					56																			
GDP-ES-14-066-					66																			
GDP-ES-14-076-					76																			
GDP-ES-14-086-					86																			

Add length to end of catalog number (i.e. GDP-ES-14-022-020)

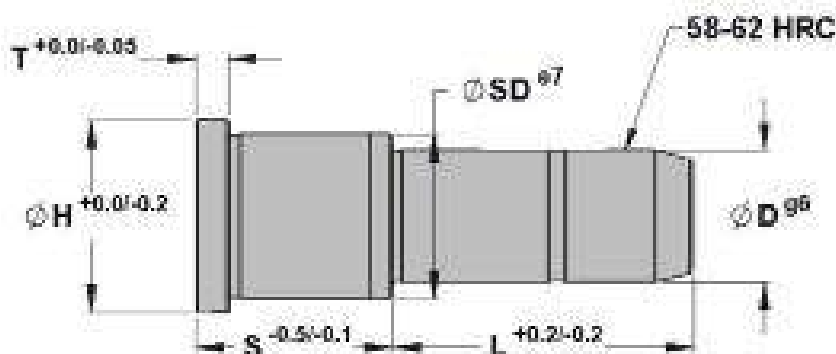
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Metric DIN Guide Pins - without Collar

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Tolerances allow for mating with Metric DIN Guide Bushings
- Custom sizes available upon request



SPECIFICATIONS	
Actual Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.20
L Length Tolerance	+/-0.2
S Shoulder Length Tolerance	-0.5 / -1.0
SD Shoulder Diameter Tolerance	e7
T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	S	L																	
						020	025	030	035	040	045	050	055	065	070	075	085	090	095	105	110		
GDP-ES-15-022-	15	20	25	6	22																		
GDP-ES-15-027-					27																		
GDP-ES-15-036-					36																		
GDP-ES-15-046-					46																		
GDP-ES-15-056-					56																		
GDP-ES-15-066-					66																		
GDP-ES-15-076-					76																		
GDP-ES-15-086-					86																		

Add length to end of catalog number (i.e. GDP-ES-15-022-020)

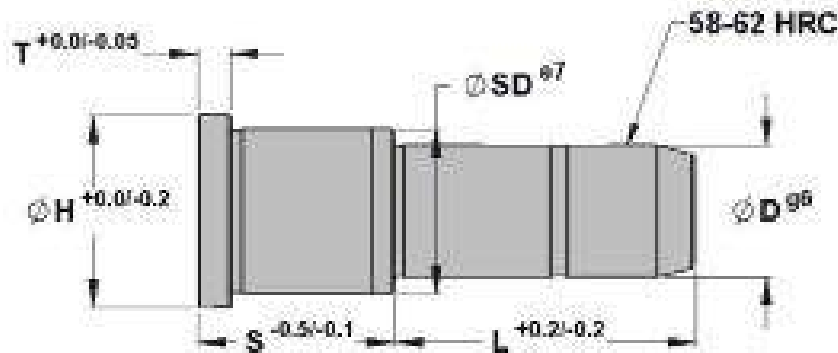
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Metric DIN Guide Pins - without Collar

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Tolerances allow for mating with Metric DIN Guide Bushings
- Custom sizes available upon request



SPECIFICATIONS	
Actual Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.20
L Length Tolerance	+/-0.2
S Shoulder Length Tolerance	-0.5 / -1.0
SD Shoulder Diameter Tolerance	e7
T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

- Stocked items
- 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	S	L																				
						020	025	035	040	045	050	055	060	065	070	075	080	085	095	105	115	125	135	155	165	
GDP-ES-18-022-	18	26	31	6	22																					
GDP-ES-18-027-					27																					
GDP-ES-18-036-					36																					
GDP-ES-18-046-					46																					
GDP-ES-18-056-					56																					
GDP-ES-18-066-					66																					
GDP-ES-18-076-					76																					
GDP-ES-18-086-					86																					
GDP-ES-18-096-					96																					
GDP-ES-18-116-					116																					

Add length to end of catalog number (i.e. GDP-ES-18-022-020)

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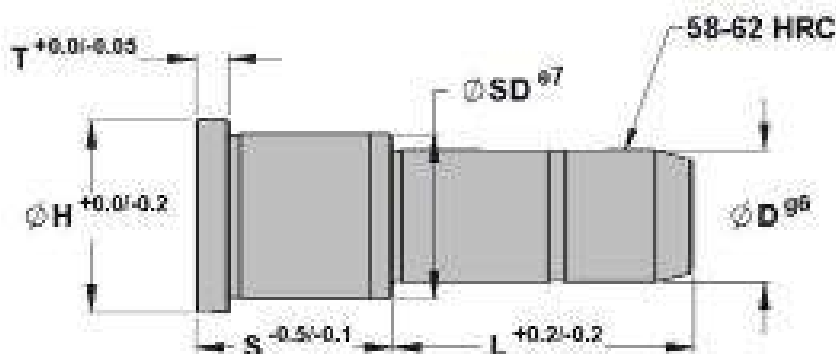
Metric DIN Guide Pins - without Collar

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Tolerances allow for mating with Metric DIN Guide Bushings
- Custom sizes available upon request



SPECIFICATIONS

Actual Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.20
L Length Tolerance	+/-0.2
S Shoulder Length Tolerance	-0.5 / -1.0
SD Shoulder Diameter Tolerance	e7
T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	S	L																					
						020	025	035	040	045	050	055	060	065	070	075	080	085	095	105	115	125	135	155	165		
GDP-ES-20-022-	20	26	31	6	22																						
GDP-ES-20-027-					27																						
GDP-ES-20-036-					36																						
GDP-ES-20-046-					46																						
GDP-ES-20-056-					56																						
GDP-ES-20-066-					66																						
GDP-ES-20-076-					76																						
GDP-ES-20-086-					86																						
GDP-ES-20-096-					96																						
GDP-ES-20-116-					116																						

Add length to end of catalog number (i.e. GDP-ES-20-022-020)

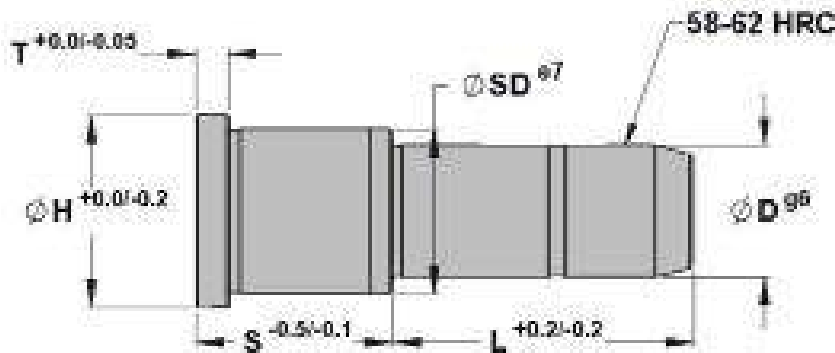
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Metric DIN Guide Pins - without Collar

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Tolerances allow for mating with Metric DIN Guide Bushings
- Custom sizes available upon request



SPECIFICATIONS	
Actual Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.20
L Length Tolerance	+/-0.2
S Shoulder Length Tolerance	-0.5 / -1.0
SD Shoulder Diameter Tolerance	e7
T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

- Stocked items
- 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	S	L																				
						020	025	035	040	045	050	055	060	065	070	075	080	085	095	105	115	125	135	155	165	
GDP-ES-22-027-	22	30	35	6	27																					
GDP-ES-22-036-					36																					
GDP-ES-22-046-					46																					
GDP-ES-22-056-					56																					
GDP-ES-22-066-					66																					
GDP-ES-22-076-					76																					
GDP-ES-22-086-					86																					
GDP-ES-22-096-					96																					
GDP-ES-22-116-					116																					
GDP-ES-22-136-					136																					

Add length to end of catalog number (i.e. GDP-ES-22-027-025)

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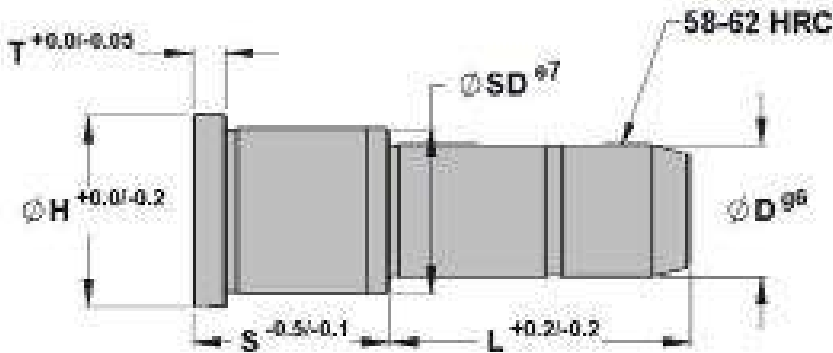


Metric DIN Guide Pins - without Collar

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Tolerances allow for mating with Metric DIN Guide Bushings
- Custom sizes available upon request



SPECIFICATIONS	
Actual Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.20
L Length Tolerance	+/-0.2
S Shoulder Length Tolerance	-0.5 / -1.0
SD Shoulder Diameter Tolerance	e7
T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

- Stocked items
- 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	S	L																		
						025	045	050	055	060	065	070	075	080	085	095	105	115	125	135	155	165	175	195
GDP-ES-24-027-	24	30	35	6	27		●																	
GDP-ES-24-036-					36		●		●						●		●		●					
GDP-ES-24-046-					46		●			●						●		●						
GDP-ES-24-056-					56			●				●												
GDP-ES-24-066-					66			●				●												
GDP-ES-24-076-					76																			
GDP-ES-24-086-					86																			
GDP-ES-24-096-					96																			
GDP-ES-24-116-					116																			
GDP-ES-24-136-					136																			

Add length to end of catalog number (i.e. GDP-ES-24-027-025)

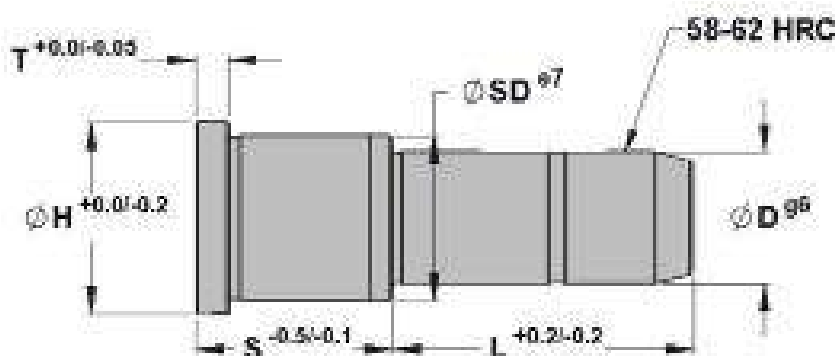
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Metric DIN Guide Pins - without Collar

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Tolerances allow for mating with Metric DIN Guide Bushings
- Custom sizes available upon request



SPECIFICATIONS	
Actual Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.20
L Length Tolerance	+/-0.2
S Shoulder Length Tolerance	-0.5 / -1.0
SD Shoulder Diameter Tolerance	e7
T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	S	L																				
						025	045	050	055	060	065	070	075	080	085	095	105	115	125	135	155	165	175	195		
GDP-ES-30-027-	30	42	47	6	27																					
GDP-ES-30-036-					36																					
GDP-ES-30-046-					46																					
GDP-ES-30-056-					56																					
GDP-ES-30-066-					66																					
GDP-ES-30-076-					76																					
GDP-ES-30-086-					86																					
GDP-ES-30-096-					96																					
GDP-ES-30-116-					116																					
GDP-ES-30-136-					136																					
GDP-ES-30-156-					156																					
GDP-ES-30-196-					196																					

Add length to end of catalog number (i.e. GDP-ES-30-027-045)

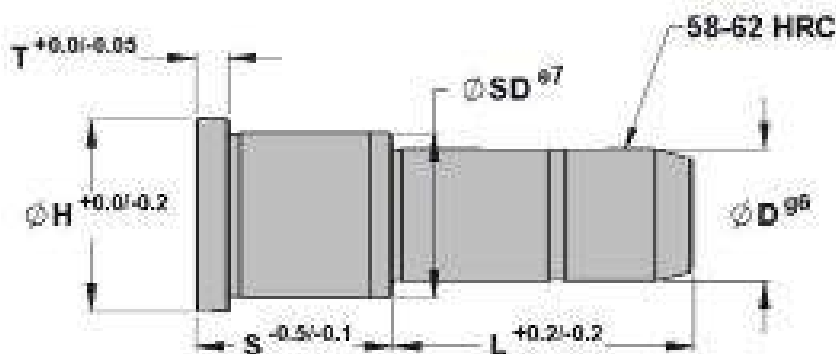
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Metric DIN Guide Pins - without Collar

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Tolerances allow for mating with Metric DIN Guide Bushings
- Custom sizes available upon request



SPECIFICATIONS	
Actual Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.20
L Length Tolerance	+/-0.2
S Shoulder Length Tolerance	-0.5 / -1.0
SD Shoulder Diameter Tolerance	e7
T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	S	L															
						045	055	065	075	095	105	115	135	155	165	175	195	215	235		
GDP-ES-32-027-	32	42	47	6	27																
GDP-ES-32-036-					36																
GDP-ES-32-056-					56																
GDP-ES-32-066-					66																
GDP-ES-32-076-					76																
GDP-ES-32-086-					86																
GDP-ES-32-096-					96																
GDP-ES-32-116-					116																
GDP-ES-32-136-					136																
GDP-ES-32-156-					156																
GDP-ES-32-196-					196																

Add length to end of catalog number (i.e. GDP-ES-32-027-045)

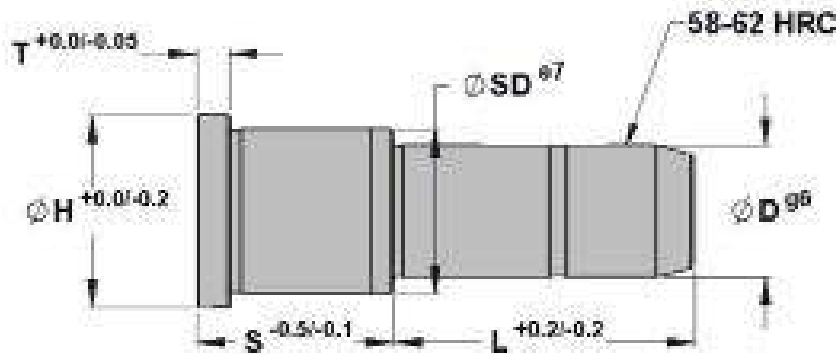
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Metric DIN Guide Pins - without Collar

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Tolerances allow for mating with Metric DIN Guide Bushings
- Custom sizes available upon request



SPECIFICATIONS	
Actual Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.20
L Length Tolerance	+/-0.2
S Shoulder Length Tolerance	-0.5 / -1.0
SD Shoulder Diameter Tolerance	e7
T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

- Stocked items
- 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	S	L													
						045	055	065	075	095	105	115	135	155	165	175	195	215	235
GDP-ES-40-056-	40	54	60	10	56														
GDP-ES-40-066-					66														
GDP-ES-40-076-					76														
GDP-ES-40-086-					86														
GDP-ES-40-096-					96														
GDP-ES-40-116-					116														
GDP-ES-40-136-					136														
GDP-ES-40-156-					156														
GDP-ES-40-196-					196														

Add length to end of catalog number (i.e. GDP-ES-40-056-075)

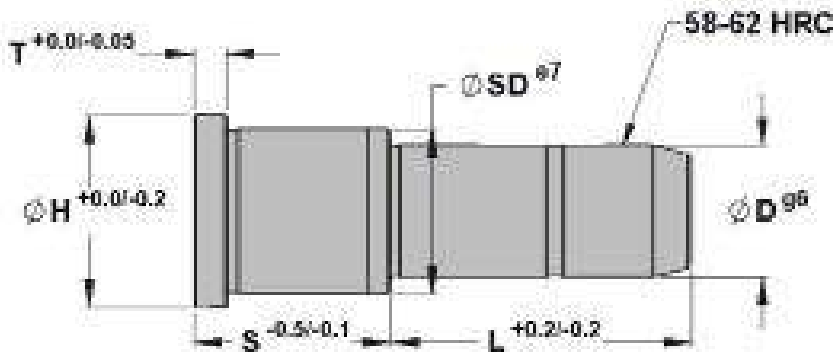
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Metric DIN Guide Pins - without Collar

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Tolerances allow for mating with Metric DIN Guide Bushings
- Custom sizes available upon request



SPECIFICATIONS	
Actual Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.20
L Length Tolerance	+/-0.2
S Shoulder Length Tolerance	-0.5 / -1.0
SD Shoulder Diameter Tolerance	e7
T Head Thickness Tolerance	-0.05 / -0.25



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

- Stocked items
- 2-3 Week Delivery

CATALOG NO.	D	SD	H	T	S	L												
						045	055	065	075	095	105	115	135	155	165	175	195	215
GDP-ES-42-056-	42	54	60	10	56													
GDP-ES-42-066-					66													
GDP-ES-42-076-					76													
GDP-ES-42-086-					86													
GDP-ES-42-096-					96													
GDP-ES-42-116-					116													
GDP-ES-42-136-					136													
GDP-ES-42-156-					156													
GDP-ES-42-196-					196													

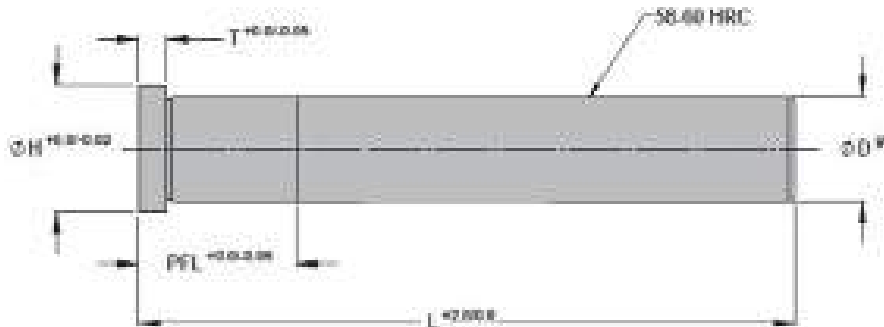
Add length to end of catalog number (i.e. GDP-ES-42-056-075)

Metric DIN Leader Pins

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Custom sizes available upon request



SPECIFICATIONS	
D Pin Diameter Tolerance	-.025/-.030
PF Press Fit Diameter Tolerance	+.025/+.038
H Head Diameter Tolerance	+.00/-.25
T Head Thickness Tolerance	+.00/-.13
PFL Press Fit Length Tolerance	+.0/- .05
L Length Tolerance	-.76/-1.52



Standard: Metric DIN

Material: 4150 Steel

Surface Treatment: Case-hardened 58 - 60 HRC & Finish Ground

LENGTH L	D = 20 MM		D = 25 MM		D = 30 MM		D = 40 MM		D = 50 MM		D = 60 MM	
	PFL	CATALOG NO.	PFL	CATALOG NO.	PFL	CATALOG NO.	PFL	CATALOG NO.	PFL	CATALOG NO.	PFL	CATALOG NO.
50	25	MLP-20 X 50	25	MLP-25 X 50								
60	25	MLP-20 X 60	25	MLP-25 X 60								
70	25	MLP-20 X 70	25	MLP-25 X 70	25	MLP-30 X 70						
80	25	MLP-20 X 80	25	MLP-25 X 80	25	MLP-30 X 80						
90	25	MLP-20 X 90	25	MLP-25 X 90	25	MLP-30 X 90	35	MLP-40 X 90				
100	25	MLP-20 X 100	25	MLP-25 X 100	25	MLP-30 X 100	35	MLP-40 X 100				
120	35	MLP-20 X 120	35	MLP-25 X 120	35	MLP-30 X 120	35	MLP-40 X 120				
140	35	MLP-20 X 140	35	MLP-25 X 140	35	MLP-30 X 140	35	MLP-40 X 140				
150									45	MLP-50 X 150	60	MLP-60 X 150
160	45	MLP-20 X 160	35	MLP-25 X 160	35	MLP-30 X 160	35	MLP-40 X 160				
175									45	MLP-50 X 175	60	MLP-60 X 175
180	45	MLP-20 X 180	45	MLP-25 X 180	45	MLP-30 X 180	45	MLP-40 X 180				
200	45	MLP-20 X 200	45	MLP-25 X 200	45	MLP-30 X 200	45	MLP-40 X 200	45	MLP-50 X 200	60	MLP-60 X 200
220	45	MLP-20 X 220	45	MLP-25 X 220	45	MLP-30 X 220	45	MLP-40 X 220				
225									45	MLP-50 X 225	60	MLP-60 X 225
240	45	MLP-20 X 240	45	MLP-25 X 240	45	MLP-30 X 240	45	MLP-40 X 240				
250									45	MLP-50 X 250	60	MLP-60 X 250
260			45	MLP-25 X 260	45	MLP-30 X 260	45	MLP-40 X 260				

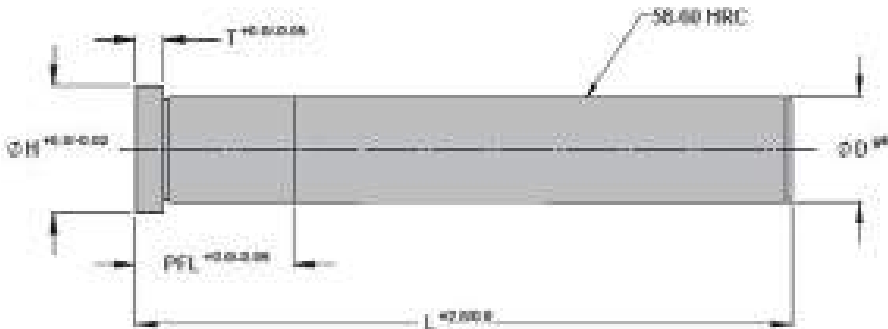
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Metric DIN Leader Pins

- Provides initial alignment of cavity and core halves
- Press-fit installation
- Custom sizes available upon request



SPECIFICATIONS	
D Pin Diameter Tolerance	-.025/-.030
PF Press Fit Diameter Tolerance	+.025/+.038
H Head Diameter Tolerance	+.00/-.25
T Head Thickness Tolerance	+.00/-.13
PFL Press Fit Length Tolerance	+.0/-.05
L Length Tolerance	-.76/-1.52



Standard: Metric DIN
Material: 4150 Steel
Surface Treatment: Case-hardened 58 - 60 HRC & Finish Ground

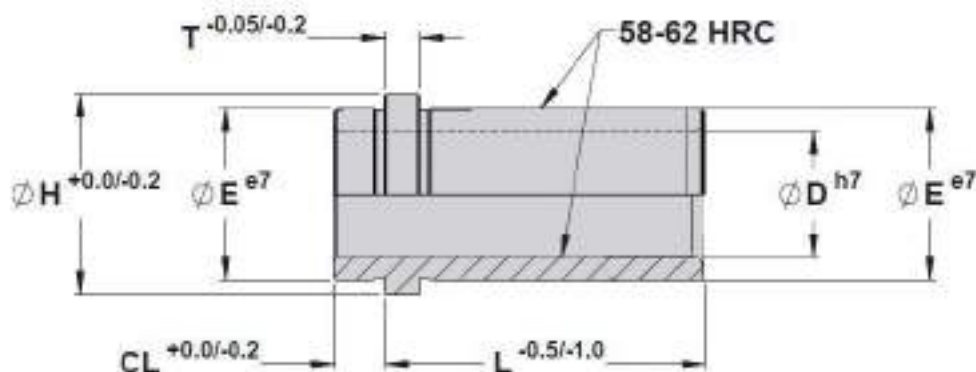
LENGTH L	D = 20 MM		D = 25 MM		D = 30 MM		D = 40 MM		D = 50 MM		D = 60 MM	
	PFL	CATALOG NO.	PFL	CATALOG NO.	PFL	CATALOG NO.	PFL	CATALOG NO.	PFL	CATALOG NO.	PFL	CATALOG NO.
275									45	MLP-50 X 275	60	MLP-60 X 275
280			45	MLP-25 X 280	45	MLP-30 X 280	45	MLP-40 X 280				
300			45	MLP-25 X 300	45	MLP-30 X 300	45	MLP-40 X 300	45	MLP-50 X 300	60	MLP-60 X 300
325									45	MLP-50 X 325	60	MLP-60 X 325
350									45	MLP-50 X 350	60	MLP-60 X 350
375									45	MLP-50 X 375	60	MLP-60 X 375
400									45	MLP-50 X 400	60	MLP-60 X 400

Metric DIN Guide Pin Bushings - With Collar

- Eliminates galling to Guide Pins
- Custom sizes available upon request



SPECIFICATIONS	
D I.D. Tolerance	H7
E O.D. Tolerance	e7
H Head Diameter Tolerance	0.0 / -0.2
T Head Thickness Tolerance	-0.05 / -0.20
Collar Length Tolerance	0.0 / -0.2
L Length Tolerance	-0.5/-1.0



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D	E	H	T	CL	L												
						017	022	027	036	046	056	066	076	086	096	116	136	156
GDB-ECS-14-	14	20	25	6	9	●	●	●	●	●								
GDB-ECS-15-	15					●	●	●	●	●								
GDB-ECS-18-	18	26	31	6	9		●	●	●	●	●		●					
GDB-ECS-20-	20						●	●	●	●	●		●					
GDB-ECS-22-	22	30	35	6	9		●	●	●	●	●	●	●					
GDB-ECS-24-	24						●	●	●	●	●	●	●	●				
GDB-ECS-30-	30	42	47	6	9						●		●	●	●	●		
GDB-ECS-32-	32										●			●	●	●	●	
GDB-ECS-40-	40	54	60	10	12													
GDB-ECS-42-	42																	

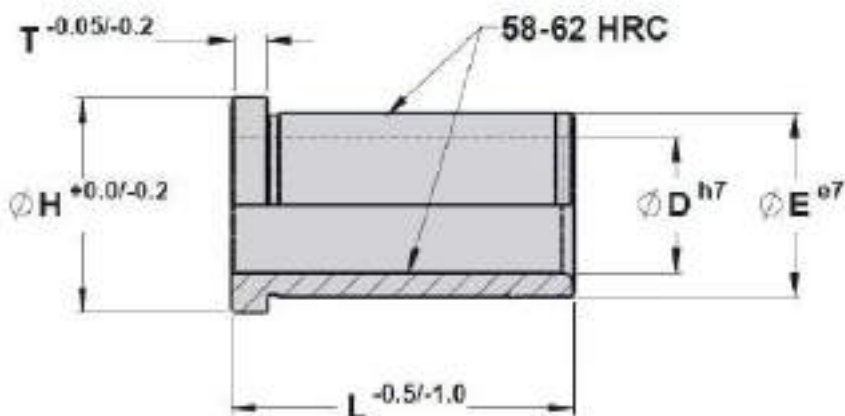
Add length to end of item number (i.e. GDB-ECS-14-017)

Metric DIN Guide Pin Bushings - Without Collar

- Eliminates galling to Guide Pins
- Custom sizes available upon request



SPECIFICATIONS	
D I.D. Tolerance	H7
E O.D. Tolerance	e7
H Head Diameter Tolerance	0.0 / -0.2
T Head Thickness Tolerance	-0.05 / -0.20
Collar Length Tolerance	0.0 / -0.2
L Length Tolerance	-0.5/-1.0



Standard: Metric DIN

Material: 1.7131 (AISI 5115 Type) Steel

Surface Treatment: Case-hardened 58 - 62 HRC & Finish Ground

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D	E	H	T	L															
					009	012	017	022	027	036	046	056	066	076	086	096	116	136	156	246
GDB-ESS-09-	09	14	16	6	■	■	■	■	■	■	■	■	■							
GDB-ESS-10-	10				■	■	■	■	■	■	■	■	■							
GDB-ESS-14-	14	20	25	6		■	■	■	●	●	●	●	■	■	■	■				
GDB-ESS-15-	15					■	■	■	●	●	●	●	■	■	■	■				
GDB-ESS-18-	18	26	31	6		■	■	■	●	●	●	●	●	■	●	■	●			
GDB-ESS-20-	20					■	■	■	●	●	●	●	●	■	●	■	●			
GDB-ESS-22-	22	30	35	6		■	■	■	●	●	●	●	●	●	●	●	●	■		
GDB-ESS-24-	24					■	■	■	●	●	●	●	●	●	●	●	●	■		
GDB-ESS-30-	30	42	47	6		■	■	■		●					●	●		●	■	
GDB-ESS-32-	32					■	■	■		●					●	●		●	■	
GDB-ESS-40-	40	54	60	10		■	■	■												■
GDB-ESS-42-	42					■	■	■												■

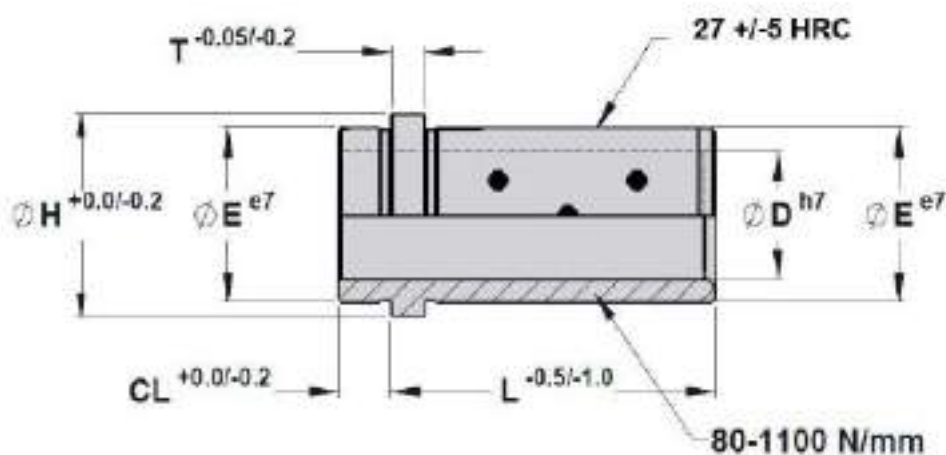
Add length to end of catalog number (i.e. GDB-ESS-09-009)

Metric DIN Self-Lube Guide Pin Bushings - With Collar

- Eliminates galling to Guide Pins
- Does not require grease
- Custom sizes available upon request



SPECIFICATIONS	
D I.D. Tolerance	H7
E O.D. Tolerance	k6
H Head Diameter Tolerance	0.0 / -0.2
T Head Thickness Tolerance	0.0 / -0.2
Collar Length Tolerance	-0.05 / -0.20
L Length Tolerance	-0.5 / -1.0



Standard: Metric DIN

Material: 2.0975 Aluminum Bronze with graphite plugs

Surface Treatment: Finish Ground

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D	E	H	T	CL	L												
						017	022	027	036	046	056	066	076	086	096	116	136	156
GDB-ECL-09-	09	14	16	3	3			●	●									
GDB-ECL-10-	10							●	●									
GDB-ECL-14-	14	20	25	6	9			●	●	●								
GDB-ECL-15-	15							●	●	●								
GDB-ECL-18-	18	26	31	6	9			●	●	●		●						
GDB-ECL-20-	20							●	●	●		●						
GDB-ECL-22-	22	30	35	6	9			●	●	●		●	●					
GDB-ECL-24-	24							●	●	●		●	●					
GDB-ECL-30-	30	42	47	6	9									●	●			
GDB-ECL-32-	32															●	●	
GDB-ECL-40	40	51	60	10	12													
GDB-ECL-42	42																	

Add length to end of catalog number (i.e. GDB-ECL-09-017)

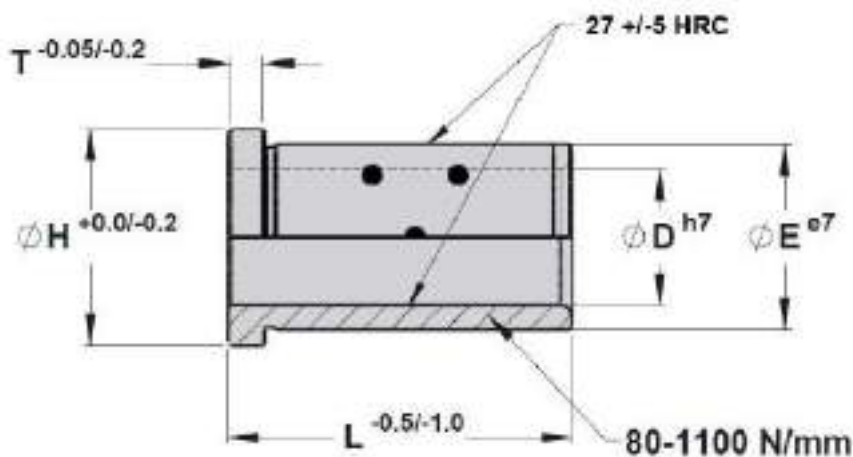
Phone: 800-521-0546 E-mail: sales@pcs-company.com Fax: 800-505-3299
www.pcs-company.com

Metric DIN Self-Lube Guide Pin Bushings - Without Collar

- Eliminates galling to Guide Pins
- Does not require grease
- Custom sizes available upon request



SPECIFICATIONS	
E O.D. Tolerance	k6
D I.D. Tolerance	H7
H Head Diameter Tolerance	+0.0 / -0.2
T Head Thickness Tolerance	-0.05 / -0.20
L Length Tolerance	-0.5 / -1.0



Standard: Metric DIN

Material: 2.0975 Aluminum Bronze with graphite plugs

Surface Treatment: Finish Ground

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D	E	H	T	L											
					017	022	027	036	046	056	066	076	086	096	116	136
GDB-ESL-09	09	14	16	3	■	■	■	■								
GDB-ESL-10	10				■	■	■	■								
GDB-ESL-14-	14	20	25	6	■	■	●	●	●	■						
GDB-ESL-15-	15				■	■	●	●	●	■						
GDB-ESL-18-	18	26	31	6		■	●	●	●	■	●					
GDB-ESL-20-	20					■	●	●	●	■	●					
GDB-ESL-22-	22	30	35	6		■	●	●	●	■	●	■				
GDB-ESL-24-	24					■	●	●	●	■	●	■				
GDB-ESL-30-	30	42	47	6			■	■	■	■	■		●	●		
GDB-ESL-32-	32						■	■	■	■	■		●	●		
GDB-ESL-40-	40	54	60	10						■	■	■	■	■	■	■
GDB-ESL-42-	42									■	■	■	■	■	■	■

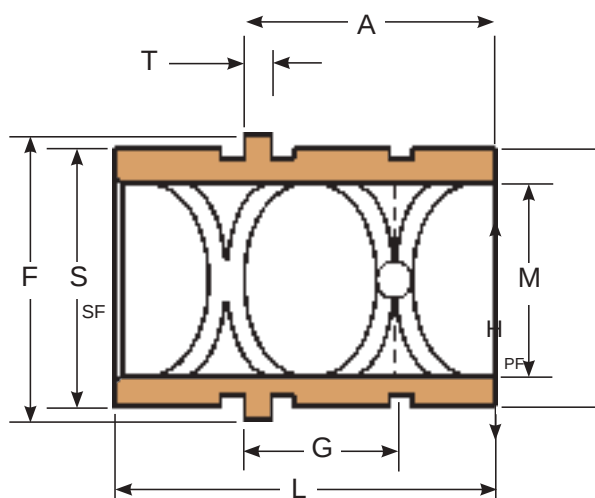
Add length to end of catalog number (i.e. GDB-ESL-09-017)

Metric DIN Bronze Plated - Guided Ejector Bushings

- Press-fit diameter ground to size
- Internal grease grooves help prevent galling
- Opposite end ground for ejector plate removal
- Plating thickness 0.10mm - 0.12mm
- Custom sizes available upon request



SPECIFICATIONS	
M I.D. Tolerance	+0.013 / +0.026
H Press Fit O.D. Tolerance	+0.013 / -.000
L Length Tolerance	+0.00 / -.78
F Rib O.D. Tolerance	+0.000 / -.130
S Slip Fit O.D. Tolerance	+0.000 / -.026
A Ejector Plate Length Tolerance	+0.00 / -.38
G Lube Hole Location Tolerance	+0.38 / -.38
T Rib Thickness	5
T Rib Thickness Tolerance	+0.00 / -.13
Plating Thickness/ per side	0.10 mm - 0.12 mm



SF Slip-Fit
PF Press-Fit

Standard: Metric DIN

Material: Bronze Plated Steel

Surface Treatment: Finish Ground

CATALOG NO.	M	H	L	F	S	A	G	T
EJM-20	20 mm	26 mm	37 mm	28 mm	26 mm	25 mm	15 mm	5 mm
EJM-25	25 mm	32 mm	45 mm	35 mm	32 mm	29 mm	16 mm	5 mm
EJM-30	30 mm	38 mm	45 mm	41 mm	38 mm	29 mm	16 mm	5 mm

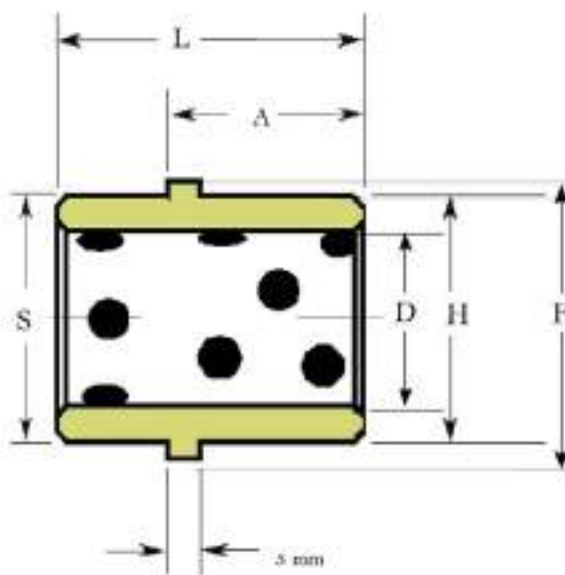
Metric DIN Self-Lubricating Guided Ejector Bushings

- Finish Ground surface
- Resists abrasion
- Excellent wear characteristics
- Aluminum bronze with graphite plugs
- Custom sizes available upon request



SPECIFICATIONS

D I.D. Tolerance	+0.013/+0.026
H Press Fit O.D. Tolerance	+0.013 / -.000
I.D. Tolerance	+0.013 / +0.026
S Slip Fit O.D. Tolerance	+0.000 / -.026
F Rib O.D. Tolerance	+0.00 / -.13
A Ejector Plate Length Tolerance	+0.00 / -.38
L Length Tolerance	+0.00 / -.76
T Rib Thickness	5 mm
T Rib Thickness Tolerance	+0.00 / -.13



Standard: Metric DIN

Material: 2.0975 Aluminum Bronze with graphite plugs

Surface Treatment: Finish Ground

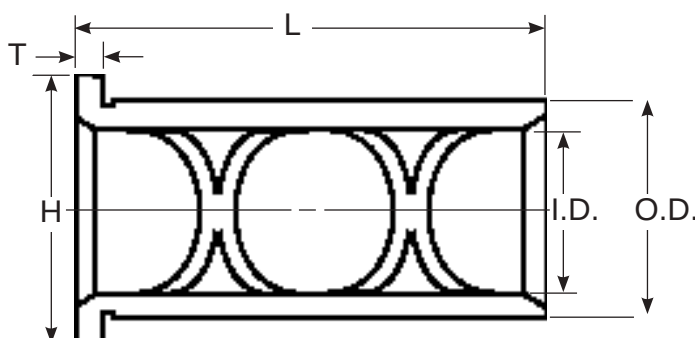
CATALOG NO.	D	H	S	F	A	L
MME-20	20 mm	26 mm	26 mm	28 mm	25 mm	37 mm
MME-25	25 mm	32 mm	32 mm	35 mm	29 mm	45 mm
MME-30	30 mm	38 mm	38 mm	41 mm	29 mm	45 mm

Metric DIN Shoulder Bushings - Bronze Plated

- Eliminates galling to Leader Pins
- Contains internal grease grooves
- Plating thickness of 0.10 mm - 0.12 mm
- Custom sizes available upon request



SPECIFICATIONS	
O.D. Tolerance	+0.013/-0.000 mm
I.D. Tolerance	+0.013/-0.000 mm
H Head Diameter Tolerance	+0.00/-0.13 mm
T Head Thickness	5.00 mm
T Head Thickness Tolerance	+0.00/-0.26 mm
L Length Tolerance	+0.00/-0.76 mm



Note: ID and OD sizes are ± 0.013 mm ± 0.026 mm

Standard: Metric DIN

Material: Bronze Plated Steel

Surface Treatment: Finish Ground

LENGTH L	I.D.					
	20 mm	25 mm	30 mm	40 mm	50 mm	60 mm
	H = 28 mm O.D. = 26	H = 35 O.D. = 32	H = 41 O.D. = 38	H = 53 O.D. = 50	H = 63 O.D. = 60	H = 73 O.D. = 70
25 mm	LBBM-20 X 25	LBBM-25 X 25	LBBM-30 X 25	LBBM-40 X 25		
30 mm	LBBM-20 X 30	LBBM-25 X 30	LBBM-30 X 30	LBBM-40 X 30	LBBM-50 X 30	LBBM-60 X 30
40 mm	LBBM-20 X 40	LBBM-25 X 40	LBBM-30 X 40	LBBM-40 X 40	LBBM-50 X 40	LBBM-60 X 40
50 mm	LBBM-20 X 50	LBBM-25 X 50	LBBM-30 X 50	LBBM-40 X 50	LBBM-50 X 50	LBBM-60 X 50
65 mm	LBBM-20 X 65	LBBM-25 X 65	LBBM-30 X 65	LBBM-40 X 65	LBBM-50 X 65	LBBM-60 X 65
80 mm	LBBM-20 X 80	LBBM-25 X 80	LBBM-30 X 80	LBBM-40 X 80	LBBM-50 X 80	LBBM-60 X 80
100 mm	LBBM-20 X 100	LBBM-25 X 100	LBBM-30 X 100	LBBM-40 X 100	LBBM-50 X 100	LBBM-60 X 100
120 mm	LBBM-20 X 120	LBBM-25 X 120	LBBM-30 X 120	LBBM-40 X 120	LBBM-50 X 120	LBBM-60 X 120
140 mm		LBBM-25 X 140	LBBM-30 X 140	LBBM-40 X 140	LBBM-50 X 140	LBBM-60 X 140
150 mm		LBBM-25 X 150	LBBM-30 X 150	LBBM-40 X 150	LBBM-50 X 150	LBBM-60 X 150

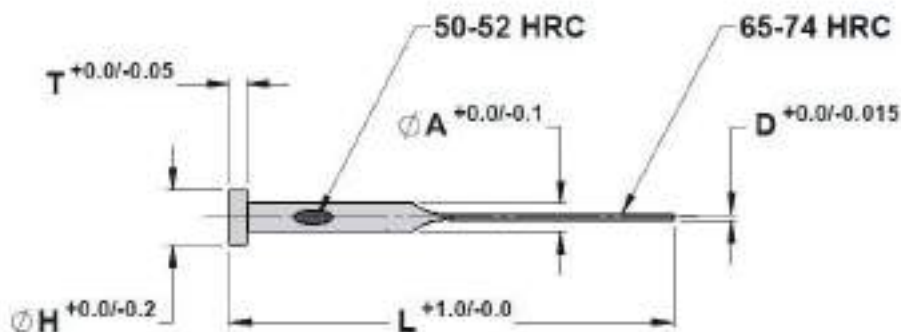
Metric DIN Nitrided Ejector Blades

- One piece construction to improve strength
- Core hardness 50 - 52 Rc
- Nitrided 65 - 74 Rc
- Heads annealed for easier machining
- Corner radius on blade cross-section can be special ordered
- Custom sizes available upon request



SPECIFICATIONS

W Blade Width Tolerance	+0.000 / -0.015
D Blade Thickness Tolerance	+0.0 / -0.015
A Pin Diameter Tolerance	+0.00 / -0.10
H Head Diameter Tolerance	+0.00 / -0.20
T Head Thickness Tolerance	+0.00 / -0.05
BL Blade Length Tolerance	+2.00 / -0.00
Shoulder Length Tolerance	-1.0 / -0.2
L Overall Length Tolerance	+2.00 / -0.00
Etched for Identification	Yes



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	W BLADE WIDTH	D BLADE THICK.	A PIN DIA.	H HEAD DIA.	T HEAD THICK.	L OVERALL LENGTH								
						063	080	100	125	160	200	250	315	400
						SHOULDER LENGTH								
						32	40	50	63	80	100	125	155	200
MB03510-	3.5	1	4	8	3					●				
MB03512-	3.5	1.2	4	8	3			●						
MB03808-	3.8	0.8	4.2	8	3									
MB03810-	3.8	1	4.2	8	3	●				●				
MB03812-	3.8	1.2	4.2	8	3					●				
MB04510-	4.5	1	5	10	3				●	●				
MB04512-	4.5	1.2	5	10	3				●					

Add length to end of catalog number (i.e. MB03510-063)

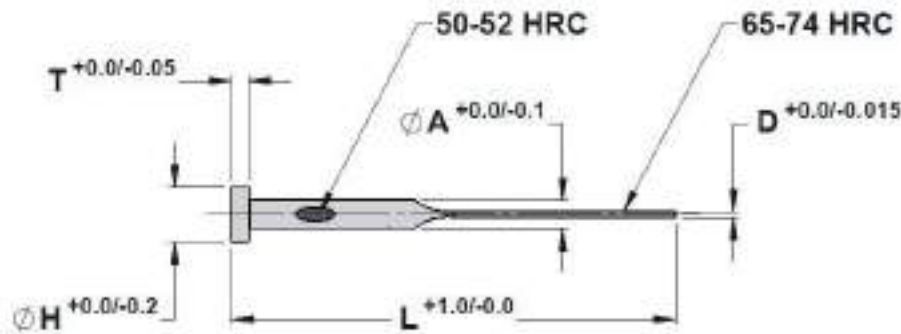
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Metric DIN Nitrided Ejector Blades

- One piece construction to improve strength
- Core hardness 50 - 52 Rc
- Nitrided 65 - 74 Rc
- Heads annealed for easier machining
- Corner radius on blade cross-section can be special ordered
- Custom sizes available upon request



SPECIFICATIONS	
W Blade Width Tolerance	+0.000 / -0.015
D Blade Thickness Tolerance	+0.0 / -0.015
A Pin Diameter Tolerance	+0.00 / -0.10
H Head Diameter Tolerance	+0.00 / -0.20
T Head Thickness Tolerance	+0.00 / -0.05
BL Blade Length Tolerance	+2.00 / -0.00
Shoulder Length Tolerance	-1.0 / -0.2
L Overall Length Tolerance	+2.00 / -0.00
Etched for Identification	Yes



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

Stocked items

2-3 Week Delivery

CATALOG NO.	W BLADE WIDTH	D BLADE THICK.	A PIN DIA.	H HEAD DIA.	T HEAD THICK.	L OVERALL LENGTH								
						063	080	100	125	160	200	250	315	400
						SHOULDER LENGTH								
						32	40	50	63	80	100	125	155	200
MB04515-	4.5	1.5	5	10	3			•	•	•	•			
MB05510-	5.5	1	6	12	5					•				
MB05512-	5.5	1.2	6	12	5				•	•				
MB05515-	5.5	1.5	6	12	5			•			•			
MB05520-	5.5	2	6	12	5									
MB07512-	7.5	1.2	8	14	5									
MB07515-	7.5	1.5	8	14	5				•		•			
MB07520-	7.5	2	8	14	5					•			•	
MB09515-	9.5	1.5	10	16	5									

Add length to end of catalog number (i.e. MB04515-080)

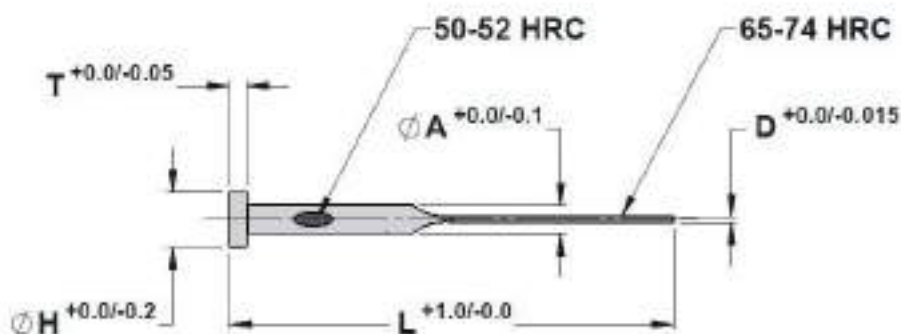
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Metric DIN Nitrided Ejector Blades



- One piece construction to improve strength
- Core hardness 50 - 52 Rc
- Nitrided 65 - 74 Rc
- Heads annealed for easier machining
- Corner radius on blade cross-section can be special ordered
- Custom sizes available upon request

SPECIFICATIONS	
W Blade Width Tolerance	+0.000 / -0.015
D Blade Thickness Tolerance	+0.0 / -0.015
A Pin Diameter Tolerance	+0.00 / -0.10
H Head Diameter Tolerance	+0.00 / -0.20
T Head Thickness Tolerance	+0.00 / -0.05
BL Blade Length Tolerance	+2.00 / -0.00
Shoulder Length Tolerance	-1.0 / -0.2
L Overall Length Tolerance	+2.00 / -0.00
Etched for Identification	Yes



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	W BLADE WIDTH	D BLADE THICK.	A PIN DIA.	H HEAD DIA.	T HEAD THICK.	L OVERALL LENGTH								
						063	080	100	125	160	200	250	315	400
						SHOULDER LENGTH								
						32	40	50	63	80	100	125	155	200
MB09520-	9.5	2	10	16	5						●			
MB11520-	11.5	2	12	18	7									
MB11525-	11.5	2.5	12	18	7									
MB15520-	15.5	2	16	22	7									
MB15525-	15.5	2.5	16	22	7									

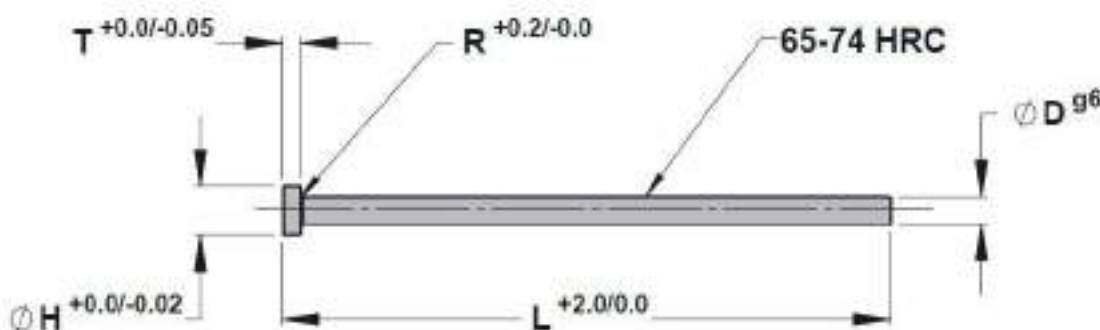
Add length to end of catalog number (i.e. MB09520-160)

Metric DIN Nitrided Ejector Pins

- Manufactured from premium hotwork steel
- Nitrided surface reduces galling
- Custom sizes available upon request



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.2
T Head Thickness Tolerance	-0.05
R Pin to Head Radius Tolerance	+0.2
L Overall Length Tolerance	+ 2.0
Core Hardness	42 - 47 Rc
Etched for Identification	No



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

● Stocked items

■ 2-3 Week Delivery

Catalog No.	D Pin Dia.	H Head Dia.	T Head Thick.	R Radius	L Overall Length										
					100	125	160	200	250	315	400	500	630	800	1000
MP012-	1.2	3	1.5	0.2	●		●								
MP015-	1.5	3	1.5	0.2	●	●	●	●							
MP016-	1.6	3	1.5	0.2											
MP02-	2	4	2	0.2	●	●	●	●	●	●					
MP022-	2.2	4	2	0.2		●		●		●					
MP025-	2.5	5	2	0.3		●	●	●		●					
MP027-	2.7	5	2	0.3		●	●	●		●					
MP03-	3	6	3	0.3	●	●	●	●	●	●	●	●			
MP032-	3.2	6	3	0.3		●	●	●		●	●				
MP035-	3.5	7	3	0.3		●	●	●		●	●				
MP037-	3.7	7	3	0.3		●	●			●	●				
MP04-	4	8	3	0.3	●	●	●	●	●	●	●	●			
MP041-	4.1	8	3	0.3											

Add length to end of catalog number (i.e. MP012-100)

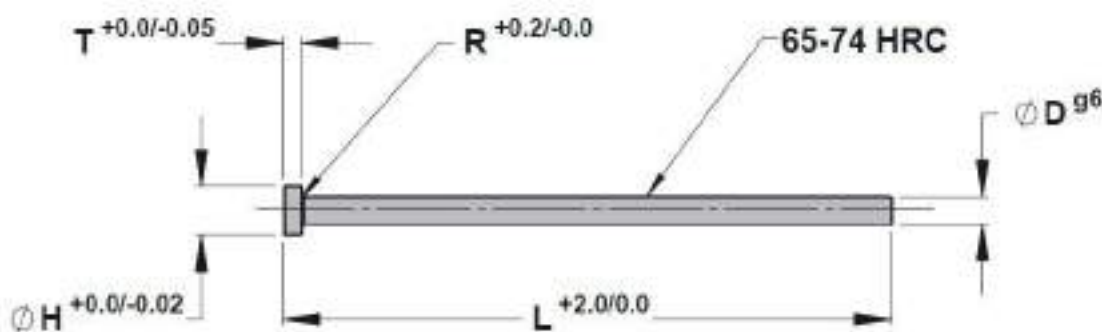
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Metric DIN Nitrided Ejector Pins

- Manufactured from premium hotwork steel
- Nitrided surface reduces galling
- Custom sizes available upon request



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.2
T Head Thickness Tolerance	-0.05
R Pin to Head Radius Tolerance	+0.2
L Overall Length Tolerance	+ 2.0
Core Hardness	42 - 47 Rc
Etched for Identification	No



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

- Stocked items
- 2-3 Week Delivery

CATALOG NO.	D PIN DIA.	H HEAD DIA.	T HEAD THICK.	R RADIUS	L OVERALL LENGTH										
					100	125	160	200	250	315	400	500	630	800	1000
MP042-	4.2	8	3	0.3		●	●	●		●					
MP045-	4.5	8	3	0.3	●	●	●	●		●	●				
MP05-	5	10	3	0.3		●	●	●	●	●	●	●	●	●	
MP052-	5.2	10	3	0.3				●		●	●				
MP055-	5.5	10	3	0.3		●	●	●		●	●	●			
MP06-	6	12	5	0.5		●	●	●	●	●	●	●	●	●	●
MP061-	6.1	12	5	0.5											
MP062-	6.2	12	5	0.5	●		●		●	●	●	●	●		
MP065-	6.5	12	5	0.5		●	●	●		●	●	●			
MP07-	7	12	5	0.5		●	●	●		●	●	●	●		
MP075-	7.5	12	5	0.5											
MP08-	8	14	5	0.5		●	●	●	●	●	●	●	●	●	●
MP082-	8.2	14	5	0.5		●		●		●	●	●			
MP085-	8.5	14	5	0.5	●	●		●	●	●	●		●		

Add length to end of catalog number (i.e. MP042-100)

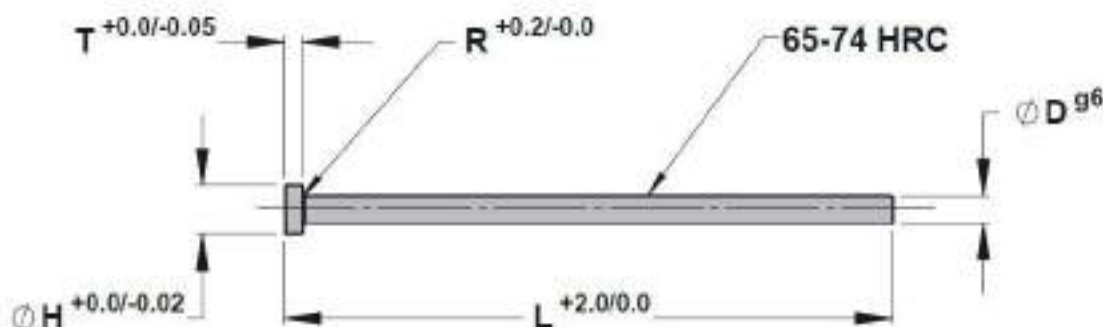
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Metric DIN Nitrided Ejector Pins

- Manufactured from premium hotwork steel
- Nitrided surface reduces galling
- Custom sizes available upon request



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.2
T Head Thickness Tolerance	-0.05
R Pin to Head Radius Tolerance	+0.2
L Overall Length Tolerance	+ 2.0
Core Hardness	42 - 47 Rc
Etched for Identification	No



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

- Stocked items
- 2-3 Week Delivery

Catalog No.	D Pin Dia.	H Head Dia.	T Head Thick.	R Radius	L Overall Length										
					100	125	160	200	250	315	400	500	630	800	1000
MP09-	9	14	5	0.5	●	●	●	●		●	●	●			
MP095-	9.5	14	5	0.5											
MP10-	10	16	5	0.5		●	●	●	●	●	●	●	●	●	
MP102-	10.2	16	5	0.5	●	●									
MP105-	10.5	16	5	0.5	●	●	●	●	●						
MP11-	11	16	5	0.5		●	●	●		●					
MP12-	12	18	7	0.8		●	●	●	●	●	●	●	●	●	●
MP122-	12.2	18	7	0.8	●	●	●	●		●		●			
MP125-	12.5	18	7	0.8	●		●					●	●		
MP14-	14	22	7	0.8	●	●	●			●	●	●	●	●	
MP16-	16	22	7	0.8		●	●	●	●	●	●	●	●	●	
MP162-	16.2	22	7	0.8											
MP18-	18	24	7	0.8	●	●	●	●	●	●	●	●	●		
MP20-	20	26	8	1	●	●	●	●	●	●	●	●	●	●	●
MP25-	25	32	10	1			●			●			●	●	
MP32-	32	40	10	1				●		●	●	●	●		

Add length to end of catalog number (i.e. MP09-100)

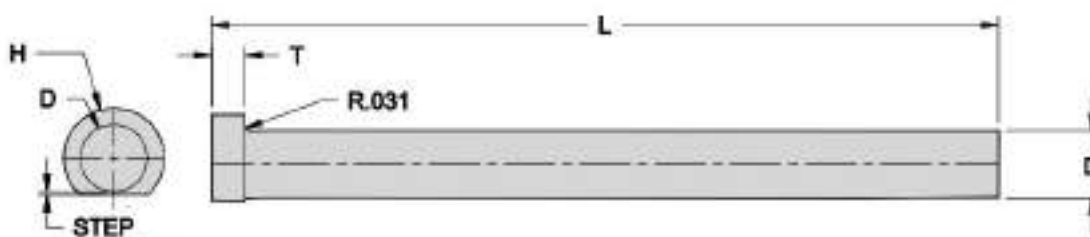
Phone: 800-521-0546 E-mail: sales@pcs-company.com Fax: 800-505-3299
www.pcs-company.com

Metric DIN Nitrided Ejector Pins - D Head

- Manufactured from premium hotwork steel
- Nitrided surface reduces galling
- Custom sizes available upon request



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
H Head Diameter Tolerance	-0.2
T Head Thickness Tolerance	-0.05
R Pin to Head Radius Tolerance	+0.2
L Overall Length Tolerance	+ 2.0
Step Tolerance	0 / +0.1
Core Hardness	42 - 47 Rc
Etched for Identification	No



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

- Stocked items
■ 2-3 Week Delivery

CATALOG NO.	D PIN DIA.	H HEAD DIA.	T HEAD THICK.	R RADIUS	L OVERALL LENGTH						
					125	160	200	315	400	500	630
DMP025-	2.5	5	2	0.3	●						
DMP035-	3.5	7	3	0.3			●				
DMP05-	5	10	3	0.3	●	●	●	●	●		
DMP055-	5.5	10	3	0.3			●				
DMP06-	6	12	5	0.5	●	●	●				
DMP062-	6.2	12	5	0.5				●			
DMP07-	7	12	5	0.5				●			
DMP08-	8	14	5	0.5		●	●	●	●	●	●
DMP10-	10	16	5	0.5	●	●		●	●	●	
DMP125-	12.5	18	7	0.8	●					●	
DMP14-	14	22	7	0.8					●		
DMP18-	18	24	7	0.8					●		
DMP32-	32	40	10	1			●				

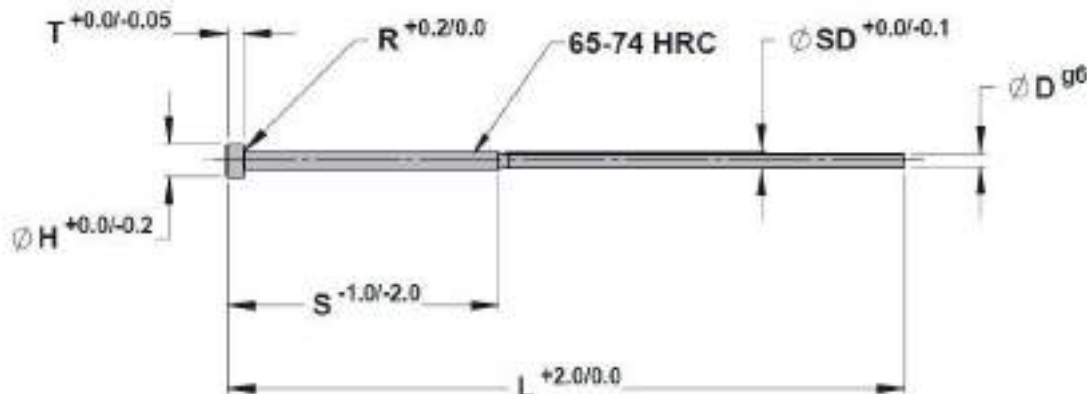
Add length to end of catalog number (i.e. DMP0025-125)

Metric DIN Nitrided Step Pins

- Manufactured from premium hotwork steel
- Nitrided surface reduces galling
- Heads annealed to reduce brittleness & allow for easier machining
- Custom sizes available upon request



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
SD Shoulder Diameter Tolerance	-0.10
H Head Diameter Tolerance	-0.20
T Head Thickness Tolerance	-0.05
R Pin to Head Radius Tolerance	+0.2
S Shoulder Length Tolerance	-1.0/-2.0
L Overall Length Tolerance	+2.0
Core Hardness	50 - 52 Rc
Etched for Identification	Yes



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D PIN DIA.	SD SHOULDER DIA.	H HEAD DIA.	T HEAD THICK.	R RADIUS	L OVERALL LENGTH							
						80	100	120	125	140	160	200	250
						S SHOULDER LENGTH							
						32	50	50	50	50	63	80	80
MS07-2-	0.7	2	4	2	0.2								
MS08-2-	0.8	2	4	2	0.2								
MS09-2-	0.9	2	4	2	0.2								
MS10-2-	1	2	4	2	0.2	●				●	●	●	
MS10-3-	1	3	6	3	0.2						●	●	
MS11-2-	1.1	2	4	2	0.2								
MS12-2-	1.2	2	4	2	0.2					●	●	●	
MS13-2-	1.3	2	4	2	0.2								
MS14-2-	1.4	2	4	2	0.2					●	●		

Add length to end of catalog number (i.e. MS07-2-100)

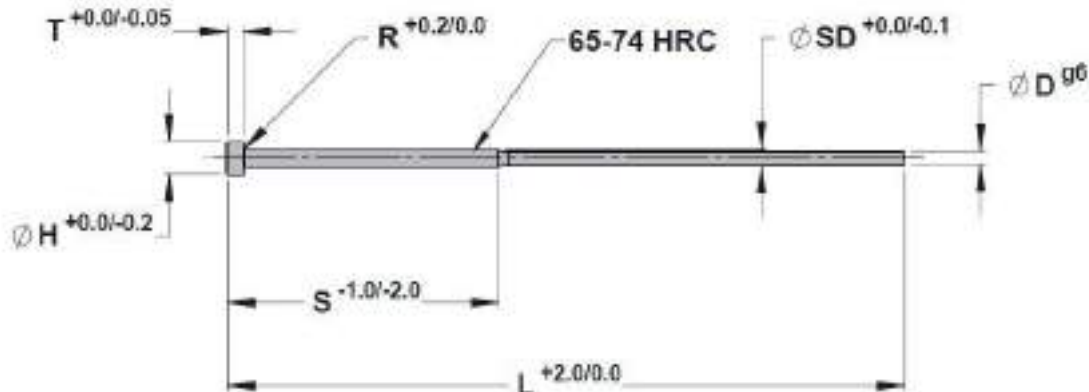
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Metric DIN Nitrided Step Pins

- Manufactured from premium hotwork steel
- Nitrided surface reduces galling
- Heads annealed to reduce brittleness & allow for easier machining
- Custom sizes available upon request



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
SD Shoulder Diameter Tolerance	-0.10
H Head Diameter Tolerance	-0.20
T Head Thickness Tolerance	-0.05
R Pin to Head Radius Tolerance	+0.2
S Shoulder Length Tolerance	-1.0/-2.0
L Overall Length Tolerance	+2.0
Core Hardness	50 - 52 Rc
Etched for Identification	Yes



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D PIN DIA.	SD SHOULDER DIA.	H HEAD DIA.	T HEAD THICK.	R RADIUS	L OVERALL LENGTH							
						80	100	120	125	140	160	200	250
						S SHOULDER LENGTH							
						32	50	50	50	50	63	80	80
MS15-3-	1.5	3	6	3	0.3	●				●	●	●	
MS16-3-	1.6	3	6	3	0.3								
MS17-3-	1.7	3	6	3	0.3						●	●	
MS18-3-	1.8	3	6	3	0.3						●	●	
MS19-3-	1.9	3	6	3	0.3								
MS20-3-	2	3	6	3	0.3						●	●	
MS21-3-	2.1	3	6	3	0.3								
MS22-3-	2.2	3	6	3	0.3					●	●	●	
MS24-3-	2.4	3	6	3	0.3								

Add length to end of catalog number (i.e. MS15-3-80)

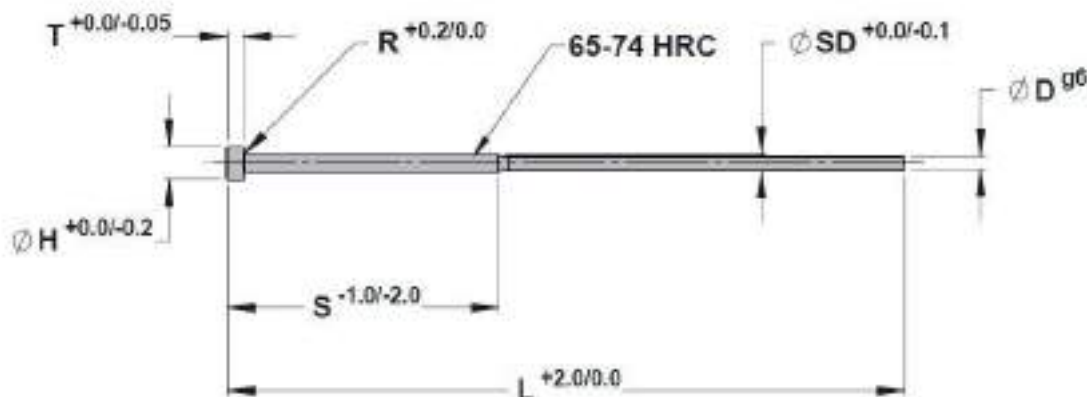
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Metric DIN Nitrided Step Pins

- Manufactured from premium hotwork steel
- Nitrided surface reduces galling
- Heads annealed to reduce brittleness & allow for easier machining
- Custom sizes available upon request



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
SD Shoulder Diameter Tolerance	-0.10
H Head Diameter Tolerance	-0.20
T Head Thickness Tolerance	-0.05
R Pin to Head Radius Tolerance	+0.2
S Shoulder Length Tolerance	-1.0/-2.0
L Overall Length Tolerance	+2.0
Core Hardness	50 - 52 Rc
Etched for Identification	Yes



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D PIN DIA.	SD SHOULDER DIA.	H HEAD DIA.	T HEAD THICK.	R RADIUS	L OVERALL LENGTH							
						80	100	120	125	140	160	200	250
						S SHOULDER LENGTH							
						32	50	50	50	50	63	80	80
MS25-3-	2.5	3	6	3	0.3						●	●	
MS27-3-	2.7	3	6	3	0.3								
MS30-4-	3	4	8	3	0.4								
MS32-4-	3.2	4	8	3	0.4								
MS35-4-	3.5	4	8	3	0.4								

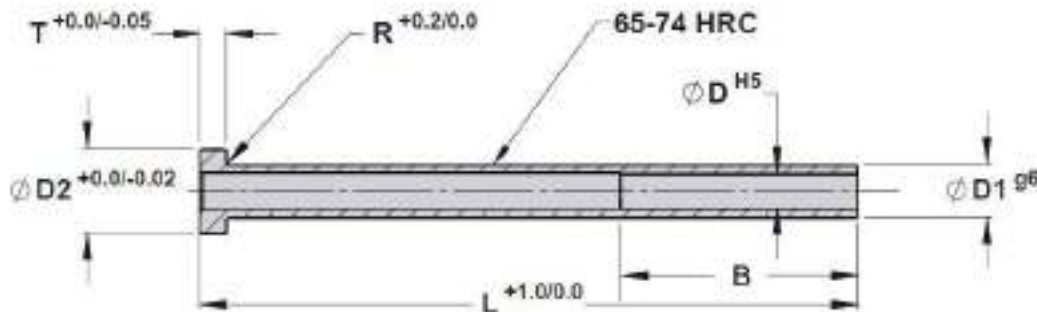
Add length to end of catalog number (i.e. MS25-3-100)

Metric DIN Nitrided Ejector Sleeves

- Nitrided O.D. and I.D. 65 - 74 Rc
- Custom sizes available upon request



SPECIFICATIONS	
D I.D. Tolerance	H5
D1 O.D. Tolerance	g6
D2 Head Diameter Tolerance	+.000 / -.250
T Head Thickness Tolerance	+.0000 / -.0508
B Bearing Length Tolerance	+2.00
R Pin to Head Radius Tolerance	+0.20
L Overall Length Tolerance	+.813 / -.000
I.D. Hardness	65 - 74 Rc
O.D. Hardness	65 - 74 Rc



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D I.D.	D1 O.D.	D2 HEAD DIA.	T HEAD THICK.	B BEARING LENGTH	R RADIUS	L OVERALL LENGTH										
							75	100	125	150	175	200	225	250	275	300	350
S315-	1.5	3	6	3	35	0.3	■	■	●	■							
S317-	1.7	3	6	3	35	0.3	●	●	●	●							
S420-	2.0	4	8	3	35	0.3	■	●	■	●	●	■					
S422-	2.2	4	8	3	35	0.3	■		●	●	●	■					
S525-	2.5	5	10	3	35	0.3	■			●	●	●	●	●			
S527-	2.7	5	10	3	45	0.3	■				■	●	●	●			
S530-	3.0	5	10	3	45	0.3	■		●	●	●	●	●	●			
S532-	3.2	5	10	3	45	0.3	●	●	●	●	■	●	●	●			
S635-	3.5	6	12	5	45	0.5	■				●	●	●	●			
S637-	3.7	6	12	5	45	0.5	■					●	●	●			
S640-	4.0	6	12	5	45	0.5	■	●	●	●		●		●			
S642-	4.2	6	14	5	45	0.5	■										
S842-	4.2	8	14	5	45	0.5	●						●	●			
S845-	4.5	8	14	5	45	0.5	●	●	●	●	●	●	●	●			

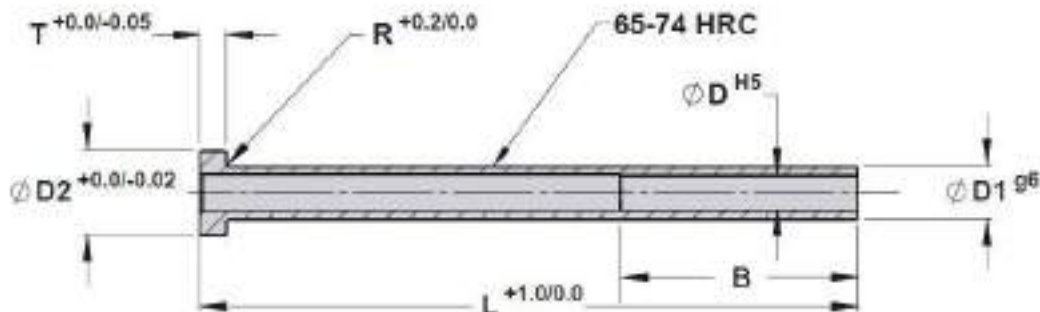
Add length to end of catalog number (i.e. S315-75)

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Metric DIN Nitrided Ejector Sleeves

- Nitrided O.D. and I.D. 65 - 74 Rc
- Custom sizes available upon request

SPECIFICATIONS	
D I.D. Tolerance	H5
D1 O.D. Tolerance	g6
D2 Head Diameter Tolerance	+0.000 / -.250
T Head Thickness Tolerance	+0.0000 / -.0508
B Bearing Length Tolerance	+2.00
R Pin to Head Radius Tolerance	+0.20
L Overall Length Tolerance	+.813 / -.000
I.D. Hardness	65 - 74 Rc
O.D. Hardness	65 - 74 Rc



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D I.D.	D1 O.D.	D2 HEAD DIA.	T HEAD THICK.	B BEARING LENGTH	R RADIUS	L OVERALL LENGTH										
							75	100	125	150	175	200	225	250	275	300	350
S850-	5.0	8	14	5	45	0.5	●	■	●	●	■	●	●	●			
S852-	5.2	8	14	5	45	0.5	■	●	●	●	●	■					
S1060-	6.0	10	16	5	45	0.5	●	●	■		●	●	●	●			
S1062-	6.2	10	16	5	45	0.5	■		●		●	●	●	■			
S1065-	6.5	10	16	5	45	0.8	●	●	●	●			●	●	●	●	
S1280-	8.0	12	18	7	45	0.8	■		●		●	●	●		●	●	●
S1282-	8.2	12	18	7	45	0.8	■										
S1285-	8.5	12	18	7	45	0.8	●	●	●	●	●	●	●	●	●	●	
S1410-	10.0	14	22	7	45	0.8		●	●		●	●	●	■		●	●
S14105-	10.5	14	22	7	55	0.8		●	●	●	●	●	●	●		●	●
S1411-	11.0	14	22	7	55	0.8		●	●	●	●	●	●	●	●	●	●
S1612-	12.0	16	22	7	55	0.8		●	●	●	●	●	●	●	●	●	
S16125-	12.5	16	22	7	55	0.8	■	●	●	●	●	●	●	●	●	●	●
S1814-	14.0	18	24	9	55	0.8			●				●	●	●	●	●

Add length to end of catalog number (i.e. S850-75)

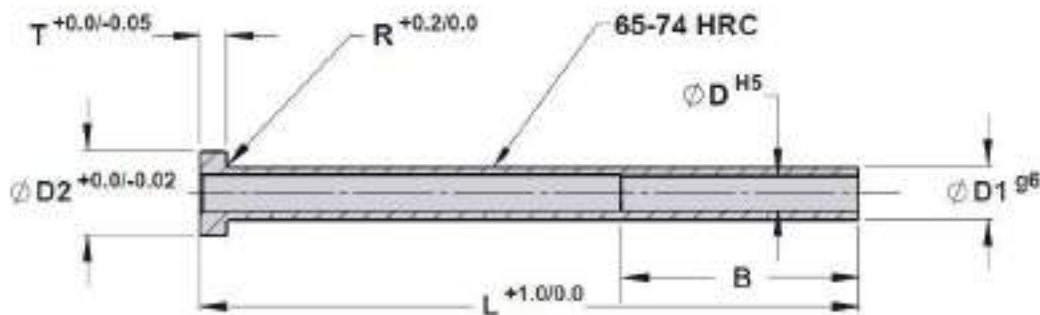
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Metric DIN Nitrided Ejector Sleeves

- Nitrided O.D. and I.D. 65 - 74 Rc
- Custom sizes available upon request



SPECIFICATIONS	
D I.D. Tolerance	H5
D1 O.D. Tolerance	g6
D2 Head Diameter Tolerance	+0.000 / -.250
T Head Thickness Tolerance	+.0000 / -.0508
Bearing Length Tolerance	+2.00
R Pin to Head Radius Tolerance	+0.20
L Overall Length Tolerance	+.813 / -.000
I.D. Hardness	65 - 74 Rc
O.D. Hardness	65 - 74 Rc



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D I.D.	D1 O.D.	D2 HEAD DIA.	T HEAD THICK.	B BEARING LENGTH	R RADIUS	L OVERALL LENGTH										
							75	100	125	150	175	200	225	250	275	300	350
S2016-	16.0	20	26	9	55	0.8		●		●	●	●	●	●	●	●	●
S2218-	18.0	22	28	9	55	0.8	●	●	●	●	●	●	●	●	●	●	●

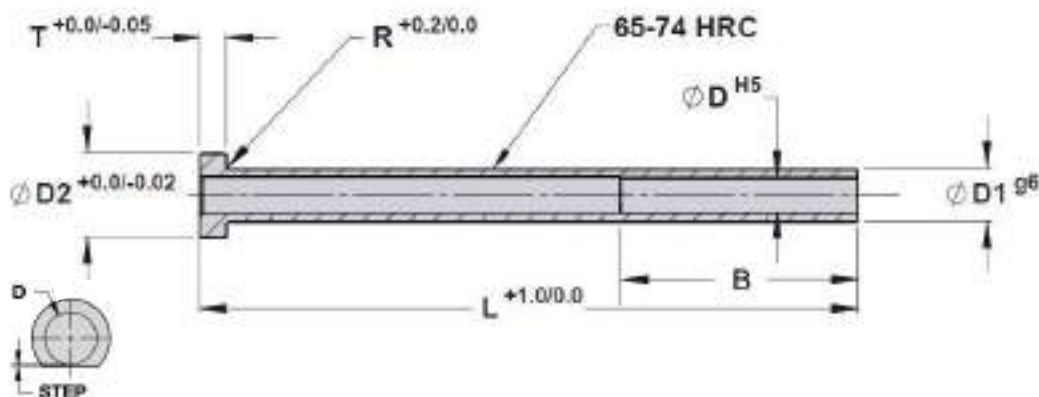
Add length to end of catalog number (i.e. S2016-100)

Metric DIN Nitrided Ejector Sleeves - D Head

- Nitrided O.D. and I.D. 65 - 74 Rc
- Custom sizes available upon request



SPECIFICATIONS	
D I.D. Tolerance	H5
D1 O.D. Tolerance	g6
D2 Head Diameter Tolerance	+0.000 / -.250
T Head Thickness Tolerance	+.0000 / -.0508
Bearing Length Tolerance	+2.00
R Pin to Head Radius Tolerance	+0.20
L Overall Length Tolerance	+.813 / -.000
Step Tolerance	0 / +0.1
I.D. Hardness	65 - 74 Rc
O.D. Hardness	65 - 74 Rc



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Surface Treatment: Nitrided 65 - 74 HRC

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D I.D.	D1 O.D.	D2 HEAD DIA.	T HEAD THICK.	B BEARING LENGTH	R RADIUS	L OVERALL LENGTH	
							175	100
DS850-	5.0	8	14	5	45	0.5	●	●

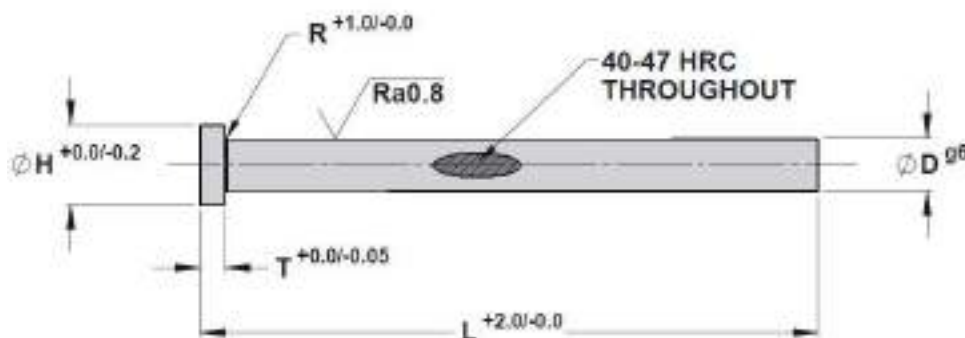
Add length to end of catalog number (i.e. DS850-175)

Metric DIN Core Pins

- Premium hotwork steel
- Tolerances ensure close fit for coring purposes
- Etched for easy Identification
- Heads annealed on core pins 6" or longer



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
Annealed Head	Yes
H Head Diameter Tolerance	-0.20
T Head Thickness Tolerance	-0.05
R Pin to Head Radius Tolerance	+0.20
L Overall Length Tolerance	+2.0
Etched for Identification	Yes



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Through-Hardened: 40 - 47 HRC

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D PIN DIA.	H HEAD DIA.	T HEAD THICK.	R RADIUS	L OVERALL LENGTH											
					80	100	125	160	200	250	315	400	500	630	800	1000
MC15-	1.5	3	1.5	0.2		●			●							
MC18-	1.8	3	1.5	0.2												
MC20-	2.0	4	2	0.2		●		●								
MC22-	2.2	4	2	0.2		●										
MC25-	2.5	5	2	0.3		●		●								
MC27-	2.7	5	2	0.3				●								
MC30-	3.0	6	3	0.3		●		●	●							
MC32-	3.2	6	3	0.3					●							
MC34-	3.4	6	3	0.3												
MC35-	3.5	7	3	0.3		●		●	●							
MC37-	3.7	7	3	0.3		●			●							
MC40-	4.0	8	3	0.3		●		●	●		●					
MC42-	4.2	8	3	0.3				●								
MC45-	4.2	8	3	0.3		●		●								

Add length to end of catalog number (i.e. MC15-100)

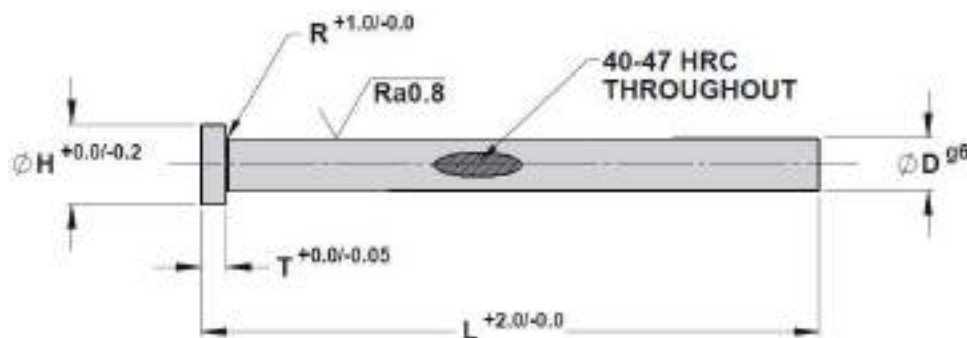
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Metric DIN Core Pins

- Premium hotwork steel
- Tolerances ensure close fit for coring purposes
- Etched for easy Identification
- Heads annealed on core pins 6" or longer



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
Annealed Head	Yes
H Head Diameter Tolerance	-0.20
T Head Thickness Tolerance	-0.05
R Pin to Head Radius Tolerance	+0.20
L Overall Length Tolerance	+2.0
Etched for Identification	Yes



Standard: Metric DIN
Material: H-13 / 1.2344 Steel
Through-Hardened: 40 - 47 HRC

- Stocked items
- 2-3 Week Delivery

CATALOG NO.	D PIN DIA.	H HEAD DIA.	T HEAD THICK.	R RADIUS	L OVERALL LENGTH											
					80	100	125	160	200	250	315	400	500	630	800	1000
MC50-	5.0	10	3	0.3		●		●	●		●					
MC52-	5.2	10	3	0.3		●										
MC55-	5.5	10	3	0.3		●		●								
MC60-	6.0	12	5	0.5		●		●	●		●					
MC62-	6.2	12	5	0.5		●										
MC65-	6.5	12	5	0.5		●					●					
MC70-	7.0	12	5	0.5	●		●			●						
MC75-	7.5	12	5	0.5			●			●						
MC80-	8.0	14	5	0.5	●		●	●		●	●					
MC82-	8.2	14	5	0.5			●									
MC85-	8.5	14	5	0.5	●		●			●						
MC90-	9.0	14	5	0.5	●		●	●								
MC100	10.0	16	5	0.5	●		●	●								
MC102	10.2	16	5	0.5			●									

Add length to end of catalog number (i.e. MC50-100)

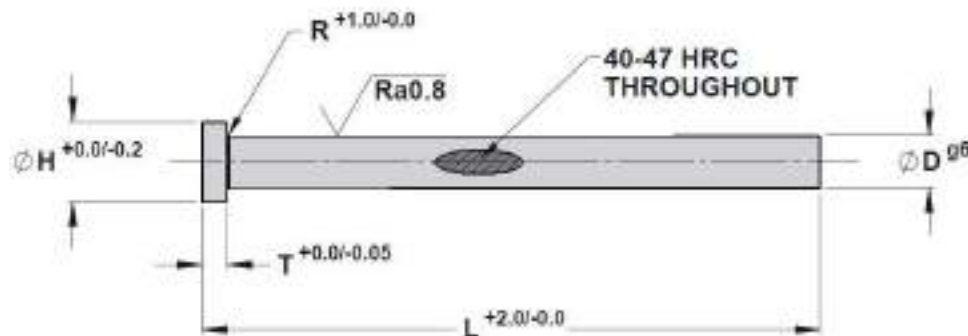
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Metric DIN Core Pins

- Premium hotwork steel
- Tolerances ensure close fit for coring purposes
- Etched for easy Identification
- Heads annealed on core pins 6" or longer



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
Annealed Head	Yes
H Head Diameter Tolerance	-0.20
T Head Thickness Tolerance	-0.05
R Pin to Head Radius Tolerance	+0.20
L Overall Length Tolerance	+2.0
Etched for Identification	Yes



Standard: Metric DIN

Material: H-13 / 1.2344 Steel

Through-Hardened: 40 - 47 HRC

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D PIN DIA.	H HEAD DIA.	T HEAD THICK.	R RADIUS	L OVERALL LENGTH											
					80	100	125	160	200	250	315	400	500	630	800	1000
MC105	10.5	16	5	0.5	●		●									
MC110	11.0	16	5	0.5	●		●									
MC120	12.0	18	7	0.8	●		●	●		●						
MC122	12.2	18	7	0.8												
MC125	12.5	18	7	0.8			●									
MC140	14.0	22	7	0.8	●		●	●		●						
MC160	16.0	22	7	0.8	●		●	●								
MC180	18.0	24	7	0.8			●			●						
MC200	20.0	26	8	1			●									
MC250	25.0	32	10	1							●		●			
MC320	32.0	40	10	1												

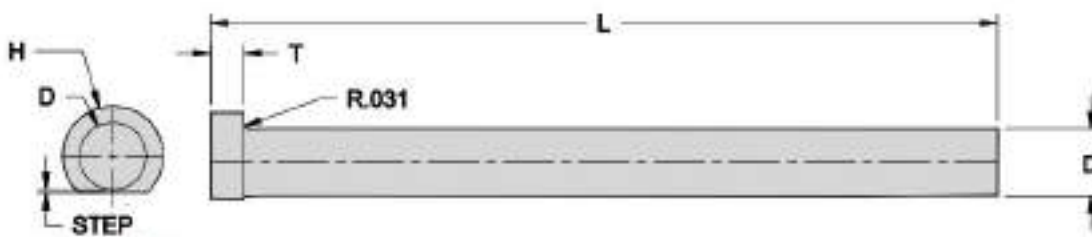
Add length to end of catalog number (i.e. MC105-80)

Metric DIN Core Pins - D Head

- Premium hotwork steel
- Tolerances ensure close fit for coring purposes
- Etched for easy Identification
- Heads annealed on core pins 6" or longer



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
Annealed Head	Yes
H Head Diameter Tolerance	-0.20
T Head Thickness Tolerance	-0.05
R Pin to Head Radius Tolerance	+0.20
L Overall Length Tolerance	+2.0
Step Tolerance	0 / +0.1
Etched for Identification	Yes



Standard: Metric DIN
Material: H-13 / 1.2344 Steel
Through-Hardened: 40 - 47 HRC

- Stocked items
- 2-3 Week Delivery

CATALOG NO.	D PIN DIA.	H HEAD DIA.	T HEAD THICK.	R RADIUS	L OVERALL LENGTH	
					160	200
DMC55	10.5	16	5	0.5	•	
DMC60	11.0	16	5	0.5		•

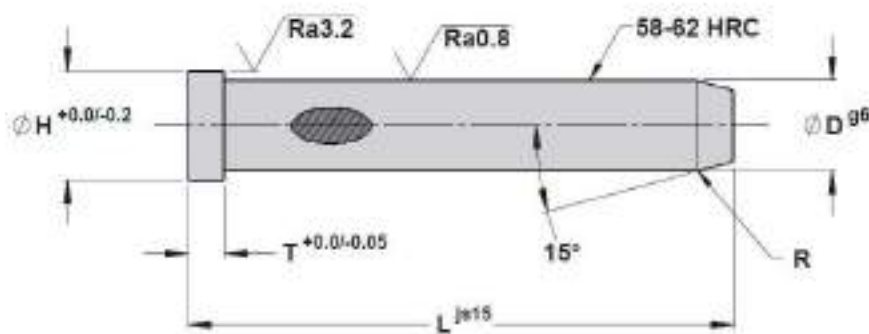
Add length to end of catalog number (i.e. DMC55-160)

Metric DIN Angle Pins

- Premium hotwork steel
- Commonly used to actuate slides
- Custom sizes available upon request



SPECIFICATIONS	
D Pin Diameter Tolerance	g6
H Head Diameter Tolerance	+0.0/-0.2
T Head Thickness Tolerance	+0.0/-0.05
L Overall Length Tolerance	js15
Core Hardness	27 +/- 5 Rc
Surface Hardness	60 +/- 2 Rc



Standard: Metric DIN

Material: AISI 5115 Steel

Surface Treatment: Case Hardened 58 - 62 Rc

● Stocked items

■ 2-3 Week Delivery

CATALOG NO.	D PIN DIA.	H HEAD DIA.	T HEAD THICK.	R RADIUS	L OVERALL LENGTH																	
					40	60	80	100	110	120	140	160	180	200	210	220	230	240	250	270	300	360
APD10	10	12	3	5			●				●											
APD12	12	16	6	5			●	●			●		●									
APD14	14	18	8	6							●		●					●				
APD16	16	20	8	7				●			●	●	●	●	●		●			●		
APD18	18	22	8	8									●	●	●			●				
APD20	20	24	8	8							●	●	●	●			●			●		
APD22	22	26	15	8																		
APD24	24	28	15	8								●	●		●		●					
APD30	30	34	15	8										●					●		●	●
APD40	40	48	15	10															●			●
APD42	42	48	15	10																		
APD50	50	58	15	10															●			●

Add length to end of catalog number (i.e. APD1060)

Tolerance Chart

Metric DIN Tolerances in (1/1000) Inches

mm	H6	H7	m6	k6	h9	g6	d9
from .039 up to .118	0 +.2362	0 +.3937	+.3150 +.0787	+.2362 +0	0 -.9843	-.0787 -.3150	-.7874 -1.7717
from .118 up to .236	0 +.3150	0 +.4724	+.4724 +.1575	+.3543 +.0394	0 -1.181	-.1575 -.4724	-1.1811 -2.3622
from .236 up to .394	0 +.3543	0 +.5905	+.5905 +.2362	+.3937 +.0394	0 -1.4173	-.1968 -.5512	-1.5748 -2.9921
from .394 up to .709	0 +.4331	0 +.7087	+.7087 +.2756	+.4724 +.0394	0 -1.6929	-.2362 -.6693	-1.9685 -3.6614
from .709 up to 1.181	0 +.5118	0 +.8268	+.8268 +.3150	+.5905 +.0787	0 -2.0472	-.2756 -.7874	-2.5591 -4.6063

Metric DIN Tolerances in (1/1000) Millimeters

mm	H6	H7	m6	k6	h9	g6	d9
from 1 up to 3	0 +6	0 +10	+8 +2	+6 +0	0 -25	-2 -8	-20 -45
from 3 up to 6	0 +8	0 +12	+12 +4	+9 +1	0 -30	-4 -12	-30 -60
from 6 up to 10	0 +9	0 +15	+15 +6	+10 +1	0 -36	-5 -14	-40 -76
from 10 up to 18	0 +11	0 +18	+18 +7	+12 +1	0 -43	-6 -17	-50 -93
from 18 up to 30	0 +13	0 +21	+21 +8	+15 +2	0 -52	-7 -20	-65 -117