



# Porta

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## KEYLESS DRILL CHUCKS

Industrial line for power tools and stationary equipment	2
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Precision grade for CNC machine tools and machining centres	4
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## REVERSING KEYLESS CHUCKS

TAURUS range	9-10-11
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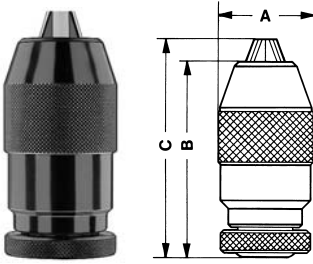
## KEY OPERATED DRILL CHUCKS

Medium and heavy duty line for production drilling machines, industrial and professional power tools	12
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## MACHINE TOOLS ACCESSORIES

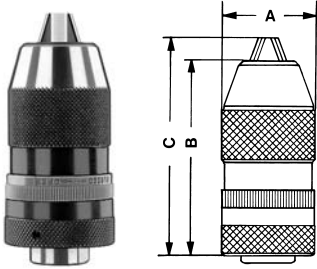
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Validus keyless chucks, **industrial line, self-tightening style**  
for power tools, pedestal and bench drilling machines  
**rotary right hand rotation only**



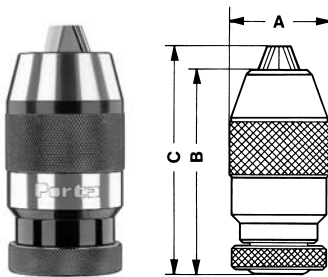
Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Packaging style	Weight g
32B10	0-6	DIN B10	34.5	65	72	Individual box	365
32B12		DIN B12					
32J1		JACOBS 1					
32F38		Female thr. 3/8" x 24					
32F12		Female thr. 1/2" x 20					
34B10	0-8	DIN B10	34.5	65	72	Individual box	365
34B12		DIN B12					
34J2		JACOBS 2					
34J1		JACOBS 1					
34F38		Female thr. 3/8" x 24					
34F12		Female thr. 1/2" x 20					
35B12	1-10	DIN B12	34.5	72	79	Individual box	365
35J2		JACOBS 2				Individual box	
35F38		Female thr. 3/8" x 24				Individual box	
35F38B		Female thr. 3/8" x 24				Blister card	
35F12		Female thr. 1/2" x 20				Individual box	
35F12B		Female thr. 1/2" x 20				Blister card	
375B16	1.5-13	DIN B16	40.5	85	93	Individual box	540
375F38		Female thr. 3/8" x 24				Individual box	
375F38B		Female thr. 3/8" x 24				Blister card	
375F12		Female thr. 1/2" x 20				Individual box	
375F12B		Female thr. 1/2" x 20				Blister card	
37B12	1-13	DIN B12	42.5	90	101	Individual box	660
37B16		DIN B16					
37J6		JACOBS 6					
37J2		JACOBS 2					
37J33		JACOBS 33					
37F38		Female thr. 3/8" x 24					
37F12		Female thr. 1/2" x 20					
40B16	3-16	DIN B16	50.5	98	110	Individual box	1060
40B18		DIN B18					
40J6		JACOBS 6					
40J3		JACOBS 3					
40F12		Female thr. 1/2" x 20					
40F58		Female thr. 5/8" x 16					

**Validus-PK keyless chucks, industrial line, self tightening style with a locking action ring suitable for percussion power tools, right hand rotation only**



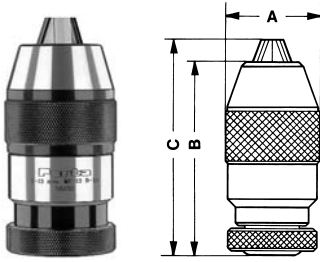
Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Packaging style	Weight g
35PKF38	1-10	Female thr. 3/8" x 24	35.5	79.5	88	Individual box	420
35PKF12		Female thr. 1/2" x 20					410
37PKF38	1-13	Female thr. 3/8" x 24	43	86	100	Individual box	690
37PKF12		Female thr. 1/2" x 20					680

**Super-Validus keyless chucks, high accuracy industrial line, for machine tools and production drilling machines, self tightening style**



Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Packaging style	Weight g
S24J1	0-3	JACOBS 1	24	45	49	Individual box	110
S32B10	0-6	DIN B10	36	65	73	Individual box	380
S32B12		DIN B12					
S32J1		JACOBS 1					
S34B12	0-8	DIN B12	36	65	73	Individual box	380
S34J2		JACOBS 2					
S36B16	0-10	DIN B16	45	81	93	Individual box	740
S36J2		JACOBS 2					
S36J33		JACOBS 33					
S38B16	0-13	DIN B16	51.5	93	105	Individual box	1070
S38J33		JACOBS 33					
S38J6		JACOBS 6					
S40B16	3-16	DIN B16	57.5	96	110	Individual box	1420
S40B18		DIN B18					
S40J6		JACOBS 6					

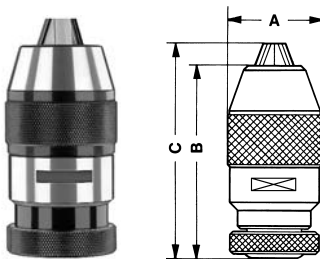
## Porta precision grade keyless chucks for CNC machine tools and machining centres



Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Packaging style	Weight g
MP03F38 inox	0-3	Female thr. 3/8" x 24	24.5	44	47.5	Individual box	200
MP03B6		DIN B6					
MP03B10		DIN B10					
MP03J0		JACOBS 0					
MP03J1		JACOBS 1					
MP06B12	0-6	DIN B12	33	62	70	Individual box	360
MP06J1		JACOBS 1					
MP08B12	0-8	DIN B12	38	67	74	Individual box	460
MP08J2		JACOBS 2					
MP08J1		JACOBS 1					
MP10B12	0-10	DIN B12	43	81	89	Individual box	720
MP10B16		DIN B16					
MP10J2		JACOBS 2					
MP10J33		JACOBS 33					
MP13B16	1-13	DIN B16	49	91	103	Individual box	1000
MP13J2		JACOBS 2					
MP13J6		JACOBS 6					
MP13J33		JACOBS 33					
MP16B16	3-16	DIN B16	55	95	107	Individual box	1320
MP16B18		DIN B18					
MP16J6		JACOBS 6					
MP16J33		JACOBS 33					

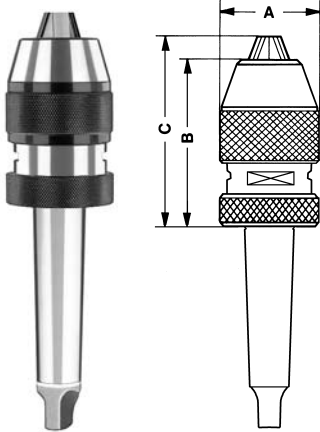
\* Mod. MP03F38 is in stainless steel only, for dental and medical applications

## Porta precision grade keyless chucks for CNC machine tools and machining centres supplied with milled wrench flats and spanner wrench to allow application of supplementary gripping torque



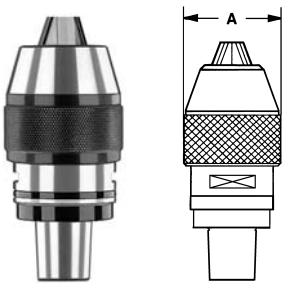
Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Packaging style	Weight g
MPT06B12	0-6	DIN B12	33	62	70	Individual box	360
MPT0601		JACOBS 1					
MPT08B12	0-8	DIN B12	38	67	74	Individual box	460
MPT0801		JACOBS 1					
MPT0802		JACOBS 2					
MPT10B12	0-10	DIN B12	43	81	89	Individual box	720
MPT10B16		DIN B16					
MPT1002		JACOBS 2					
MPT1033		JACOBS 33					
MPT13B16	1-13	DIN B16	49	91	103	Individual box	1000
MPT1302		JACOBS 2					
MPT1333		JACOBS 33					
MPT1306		JACOBS 6					
MPT16B16	3-16	DIN B16	55	95	107	Individual box	1320
MPT16B18		DIN B18					
MPT1633		JACOBS 33					
MPT1606		JACOBS 6					

## Porta precision grade keyless chucks for CNC machine tools and machining centres with **integral shank**



Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Packaging style	Weight g
MT08MT2	0-8	2 Morse taper	37	67	74	Individual box	770
MT10MT2	0-10	2 Morse taper	41	81	89	Individual box	990
MT13MT2	1-13	2 Morse taper	46	88	99	Individual box	1200
MT13MT3		3 Morse taper					1360
MT13R8		R8 Bridgeport					1435
MT16MT2	3-16	2 Morse taper	55	95	107	Individual box	1580
MT16MT3		3 Morse taper					1690
MT16MT4		4 Morse taper					1980
MT16R8		R8 Bridgeport					1650

## Porta precision grade spare chucks for integral shank keyless chucks

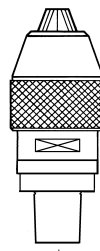


Model No.	Drilling capacity mm	Taper size	A mm	Packaging style	Weight g
MP08A	0-8	DIN B18	37	Individual box	365
MP10A	0-10	DIN B18	41		560
MP13A	1-13	3 Morse taper	46		785
MP16A40	3-16		55		1100
MP16A50	3-16		55		1095

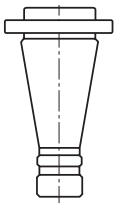
\* for ISO 40 taper  
\*\* for ISO 50 taper

### Way of applications

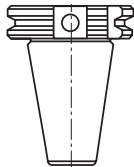
Model	
	MP08A
	MP10A
	MP13A
	MP16A40
	MP16A50



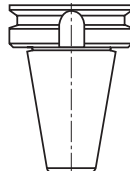
DIN 2080



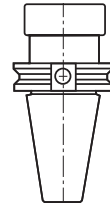
DIN 69871 Form A



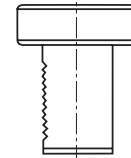
MAS 403 BT



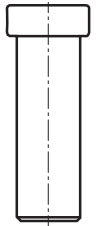
ANSI CATERPILLAR



VDI 3425/2 DIN 69880



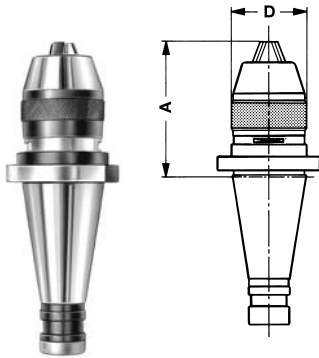
CYLINDRICAL DIN 1835



## Spanner wrench for keyless chucks with integral shank

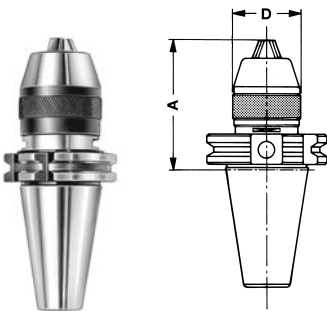
Model No.	Chuck capacity range mm
KMP08	0-8
KMP13	1-13
KMP16	3-16

Porta **precision grade** keyless chucks with **integral shank** for CNC machine tools and machining centres supplied with milled wrench flats and spanner wrench to allow the application of supplementary gripping torque



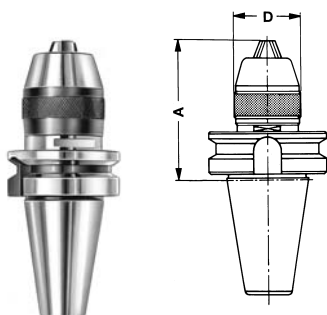
### DIN 2080

Model No.	Drilling capacity mm	Iso taper size	Drawbolt thread	D mm	A mm		Packaging style	Weight g
					min	max		
MP0840D20	0-8	40	M16	36.50	57	64	Individual box	1005
MP1340D20	1-13	40	M16	48.50	78	90	Individual box	1395
MP1350D20		50	M24		75	87		3155
MP1640D20	3-16	40	M16	54.50	90	102	Individual box	1730
MP1650D20		50	M24		72	84		3295



### DIN 69871 Form A

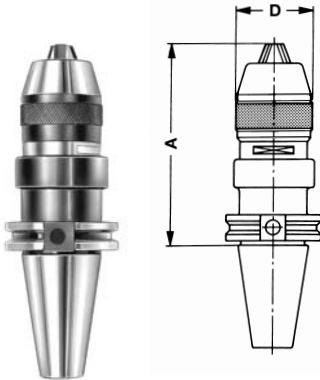
Model No.	Drilling capacity mm	Iso taper size	Drawbolt thread	D mm	A mm		Packaging style	Weight g
					min	max		
MP0840D69A	0-8	40	M16	36.50	64	71	Individual box	1005
MP1340D69A	1-13	40	M16	48.50	80	92	Individual box	1380
MP1350D69A		50	M24		78	90		3170
MP1640D69A	3-16	40	M16	54.50	97	106	Individual box	1780
MP1650D69A		50	M24		76	88		3305



### MAS 403 BT

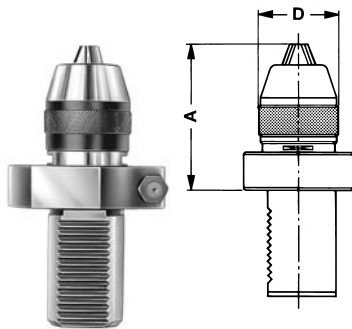
Model No.	Drilling capacity mm	Iso taper size	Drawbolt thread	D mm	A mm		Packaging style	Weight g
					min	max		
MP0830MBT	0-8	30	M12	36.50	77	84	Individual box	695
MP0840MBT		40	M16		72	79		1200
MP1340MBT	1-13	40	M16	48.50	86	98	Individual box	1535
MP1350MBT		50	M24		97	109		4135
MP1640MBT	3-16	40	M16	54.50	105	117	Individual box	1935
MP1650MBT		50	M24		95	107		4275

## ANSI CAT



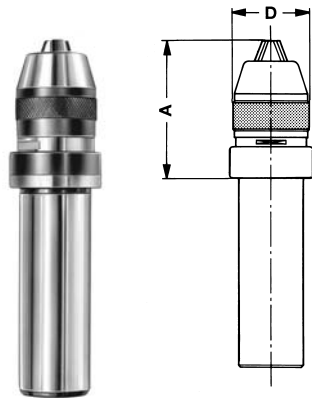
Model No.	Drilling capacity mm	Iso taper size	Drawbolt thread	D mm	A mm min	A mm max	Packaging style	Weight g
MP0840CAT	0-8	40	M16	36.50	82	89	Individual box	1255
MP1340CAT	1-13	40	M16	48.50	115	127	Individual box	1840
MP1350CAT		50	M24		96	108		3650
MP1640CAT	3-16	40	M16	54.50	120	132	Individual box	2230
MP1650CAT		50	M24		94	106		3825

## VDI 3425/2 DIN 69880



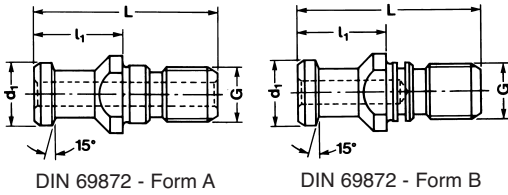
Model No.	Drilling capacity mm	Mount size	D mm	A mm min	A mm max	Packaging style	Weight g
MP1330VDI	1-13	NG16 X Ø30	48,50	108	120	Individual box	1715
MP1340VDI		NG20 X Ø40		81	93		1825
MP1640VDI	3-16	NG20 X Ø40	54,50	93	105	Individual box	2260
MP1650VDI		NG25 X Ø50		87	99		3150

## CYLINDRICAL DIN 1835



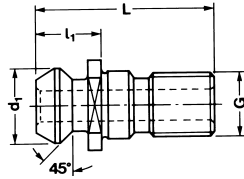
Model No.	Drilling capacity mm	Shank diameter mm	D mm	A mm min	A mm max	Packaging style	Weight g
MP0825CYL	0-8	25	36.50	65	72	Individual box	690
MP1332CYL	1-13	32	48.50	79	91	Individual box	1400
MP1340CYL		40					1890
MP1640CYL	3-16	40	54.50	83	95	Individual box	2225

## Retention knobs for precision keyless chucks with integral shank

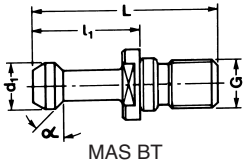


DIN 69872 - Form A

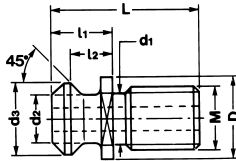
DIN 69872 - Form B



ISO 7388 - Typ B



MAS BT



ANSI B5 - 50

Model No.	Norm	To suit Iso taper	G	d <sub>1</sub> mm	L mm	l <sub>1</sub> mm	α°
TD69A30	DIN 69872 - Form A	30	M12	13	44	25	-
TD69A40	DIN 69872 - Form A	40	M16	19	54	26	
TD69A50	DIN 69872 - Form A	50	M24	28	74	34	
TD69B30	DIN 69872 - Form B	30	M12	13	44	25	
TD69B40	DIN 69872 - Form B	40	M16	19	54	26	
TD69B50	DIN 69872 - Form B	50	M24	28	74	34	

Model No.	Norm	To suit Iso taper	G	d <sub>1</sub> mm	L mm	l <sub>1</sub> mm	α°
TS73B40	ISO 7388/2 - Typ B	40	M16	18.95	44.5	16.4	-
TS73B50	ISO 7388/2 - Typ B	50	M24	29	65.5	25.5	

Model No.	Norm	To suit Iso taper	G	d <sub>1</sub> mm	L mm	l <sub>1</sub> mm	α°
TMBT130	MAS BT - I	30	M12	11	43	23	45
TMBT140	MAS BT - I	40	M16	15	60	35	45
TMBT150	MAS BT - I	50	M24	23	85	45	45
TMBT230	MAS BT - II	30	M12	11	43	23	30
TMBT240	MAS BT - II	40	M16	15	60	35	30
TMBT250	MAS BT - II	50	M24	23	85	45	30

Model No.	Norm	To suit Iso taper	M	L mm	l <sub>1</sub> mm	l <sub>2</sub> mm	D mm	d <sub>1</sub> mm	d <sub>2</sub> mm	d <sub>3</sub> mm
TB55040	ANSI B5-50	40	M16	38	16,4	11	22,5	12,95	12,95	18,95
TB55050	ANSI B5-50	50	M24	59	25,55	17,8	37	19,60	19,60	29,10

## Spare parts for keyless chucks (no more available for Validus industrial line)



Nose



Jaw carrier spindle



Set of jaws

### SUPER VALIDUS

Drilling capacity mm	Order ref.	Nose	Jaw carrier spindle	Set of jaws
0-6		X32220S	X32420S	X32120S
0-8		X34240S	X34440S	X34140S
0-10		X36260S	X36460S	X36160S
0-13		X38280S	X38480S	X38180S
3-16		X40290S	X40490S	X40190S

### PORTA

Drilling capacity mm	Order ref.	Nose	Jaw carrier spindle	Set of jaws
0-8		Y54220	Y54420	Y54120
0-10		Y56260	Y56460	Y56160
0-13		Y58280	Y58480	Y58180
3-16		Y60290	Y60490	Y60190

### PORTA integral shank

Drilling capacity mm	Order ref.	Nose	Jaw carrier spindle	Set of jaws
0-8		W74240	W74440	W74140
0-13		W78280	W78480	W78180
3-16		W80290	W80490	W80190

## TAURUS range keyless chucks

Designed to exceed the performance of conventional drill chucks, the **TAURUS range**, represents a revolutionary new concept in technology and are precision engineered to enable the operator to lock the bit firmly in the chuck by hand.

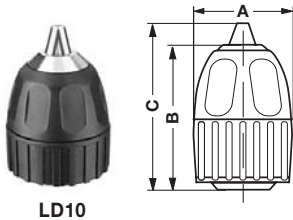
- Suitable for Forward, Reverse and Percussion
- Nylon and Full metal version
- Double and single sleeve suitable for conventional and spindle lock machines
- Antilock mechanism
- Standard and Carbide jaw bite
- High performance for machines up to **1100 Watts** impact applications

Model numbers ending in letter R indicate chuck supplied with through hole to accommodate a left hand locking screw for reversing tools.

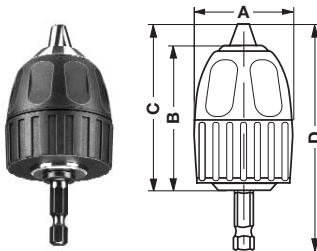
A TORX® wrench can also be used to lock the keyless chucks to the drilling machine spindle. No left hand screw is needed in this case.

### TAURUS REGULAR

Hard nylon two piece sleeve, metal nose cap, suitable for machines in forward and reverse mode. Hand tightening style.



Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
LD10F12R	1.5-10	1/2" x 20	42.7	55	62	Suitable for machines in forward and reverse mode only	Individual box	182
LD10F12RB							Blister card	
LD10F38R		3/8" x 24					Individual box	
LD10F38RB							Blister card	



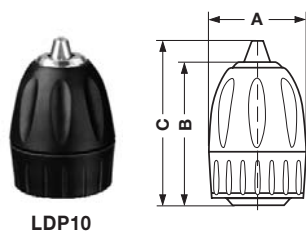
### KEYLESS CHUCKS FOR SCREWDRIVERS

with 1/4" male hexagonal mount to DIN 3126 - E 6.3.

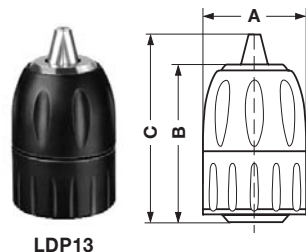
Model No.	Drilling capacity mm	A mm	B mm	C mm	D mm	Packaging style	Weight g
LD10X1B	1.5-10	42.7	55	62	80	Individual box	200

### TAURUS PROFESSIONAL

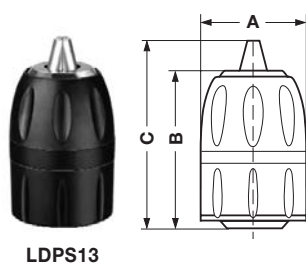
Hard nylon two piece sleeve, metal nose cap, suitable for machines in forward, reverse and percussion mode. Hand tightening style.



Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
LDP10F12R	1.5-10	1/2" x 20	42.7	55	63	450 W	Individual box	172
LDP10F12RB							Blister card	
LDP10F38R		3/8" x 24					Individual box	
LDP10F38RB							Blister card	



LDP13F12R	2-13	1/2" x 20	42.7	62	76	710 W	Individual box	290
LDP13F12RB							Blister card	
LDP13F38R		3/8" x 24					Individual box	
LDP13F38RB							Blister card	
LDP13SDS		SDS					Individual box	
LDP13SDSB	Blister card							



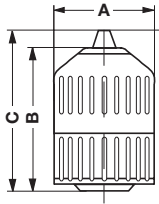
### TAURUS PROFESSIONAL - SPINDLE LOCK SYSTEM

For machines with Spindle Lock system. Hard nylon single sleeve suitable for forward, reverse and percussion mode.

Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
LDPS13F12R	2-13	1/2" x 20	42,7	62	73	710 W	Individual box	280
LDPS13F12RB							Blister card	

**TAURUS SUPER** suitable for forward, reverse and impact mode.  
standard jaws with serrated bite.

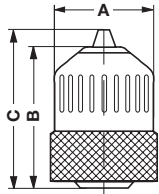
Hard nylon two piece sleeve



TSP10

Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
TSP10F12R	1.5-10	1/2" x 20	42.7	55	64	1100 W	Individual box	165
TSP10F12RB							Blister card	
TSP10F38R		3/8" x 24					Individual box	
TSP10F38RB							Blister card	

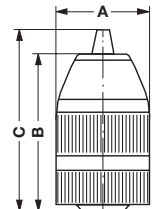
Hard nylon front sleeve and rear metal sleeve



TSMP10

Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
TSMP10F12R	1.5-10	1/2" x 20	42.7	55	64	1100 W	Individual box	195
TSMP10F12RB							Blister card	
TSMP10F38R		3/8" x 24					Individual box	
TSMP10F38RB							Blister card	

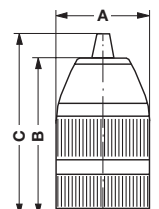
Hard nylon two piece sleeve



TSP13

Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
TSP13F12R	1.5-13	1/2" x 20	42.7	64	75.3	1100 W	Individual box	260
TSP13F12RB							Blister card	

Full metal two piece sleeve



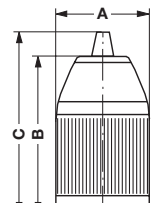
TS13

Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
TS13F12R	1.5-13	1/2" x 20	42.7	64	75.3	1100 W	Individual box	295
TS13F12RB							Blister card	
TS13F38R		3/8" x 24					Individual box	
TS13F38RB							Blister card	
TS13SDS		SDS					Individual box	
TS13SDSB	Blister card							

## TAURUS SUPER - SPINDLE LOCK SYSTEM

For machines with Spindle Lock system, suitable for forward, reverse and impact mode. Standard jaws with serrated bite.

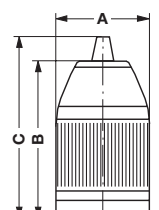
Hard nylon single sleeve



TSSP10

Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
TSSP10F12R	1.5-10	1/2" x 20	42.7	57.5	64	1100 W	Individual box	161
TSSP10F12RB							Blister card	
TSSP10F38R		3/8" x 24					Individual box	
TSSP10F38RB							Blister card	

Full metal single sleeve



TSS13

Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
TSS13F12R	1.5-13	1/2" x 20	42.7	64	75.3	1100 W	Individual box	295
TSS13F12RB							Blister card	

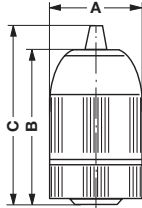


## TAURUS ULTIMATE

Suitable for forward, reverse and impact mode.  
Carbide jaw bite to ensure better gripping.



TUP13

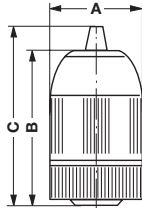


Hard nylon two piece sleeve

Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
TUP13F12R TUP13F12RB	1.5-13	1/2" x 20	42.7	63.5	75.3	1100 W	Individual box Blister card	248



TUMP13

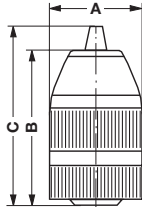


Hard nylon front sleeve and rear metal sleeve

Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
TUMP13F12R TUMP13F12RB	1.5-13	1/2" x 20	42.7	63.5	75.3	1100 W	Individual box Blister card	282



TU13

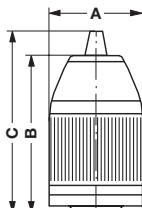


Full metal two piece sleeve

Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
TU13F12R TU13F12RB	1.5-13	1/2" x 20	42.7	64	75.3	1100 W	Individual box Blister card	295



TUS13



## TAURUS ULTIMATE - SPINDLE LOCK SYSTEM

For machines with Spindle Lock system, suitable for forward, reverse and impact mode. Carbide jaws.

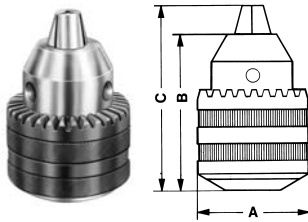
Model No.	Drilling capacity mm	Mount	A mm	B mm	C mm	Max machine rating	Packaging style	Weight g
TUS13F12R TUS13F12RB	1.5-13	1/2" x 20	42.7	64	75.3	1100 W	Individual box Blister card	295

## Key operated chucks

**Medium duty** for professional users of power tools, bench drilling machines, and woodworking machinery.

**Heavy duty** for production drilling machines and industrial power tools.

Packed in individual cartons with key



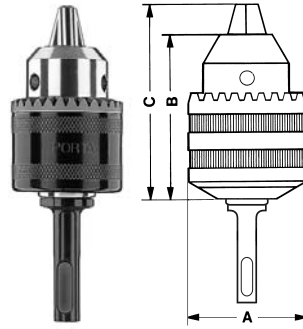
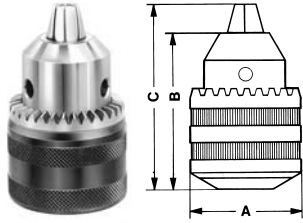
Model No.	Drilling capacity mm	Mount	Through hole diameter mm	With key	A mm	B mm	C mm	Range	Weight g
A04J0	0.5-4	JACOBS 0	-	K0	22	29	35	Medium duty	80
A06B10	0.3-6	DIN B10	-	KS1	30	44	54	Medium duty	140
A06J1		JACOBS 1	-						
A06F38		Female thr. 3/8" x 24	-						
A06F38R		Female thr. 3/8" x 24	5.5						
AS06J1	0.3-6.5	JACOBS 1	-	KS1	30	43	53	Heavy duty	145
AS06F38		Female thr. 3/8" x 24	-						
A08B12	0.3-8	DIN B12	-	KS1	30	44	54	Medium duty	140
A08J1		JACOBS 1	-						
A08F38		Female thr. 3/8" x 24	-						
A08F38R		Female thr. 3/8" x 24	5.5						
A08F12		Female thr. 1/2" x 20	-						
A08F12R		Female thr. 1/2" x 20	6.5						
AP08B12	0-8	DIN B12	-	KS2	36.5	51	60	Heavy duty	225
AP08J2		JACOBS 2	-						
A10B12	0.5-10	DIN B12	-	KS2	36.5	51	60	Medium duty	220
A10J2		JACOBS 2	-						
A10F38		Female thr. 3/8" x 24	-						
A10F38R		Female thr. 3/8" x 24	5.5						
A10F12		Female thr. 1/2" x 20	-						
A10F12R		Female thr. 1/2" x 20	6.5						
AP10B16	0.5-10	DIN B16	-	KS2	42.7	62	76	Heavy duty	375
AP10J2		JACOBS 2	-						
AS10J2	0.5-10	JACOBS 2	-	KS2	36.5	51	60	Heavy duty	225
AS10F38R		Female thr. 3/8" x 24	5.5						
AS10F12R		Female thr. 1/2" x 20	6.5						
A13B12	1.5-13	DIN B12	-	KS2	42.5	59	73	Medium duty	370
A13B16		DIN B16	-						
A13J2		JACOBS 2	-						
A13J6		JACOBS 6	-						
A13J33		JACOBS 33	-						
A13F38		Female thr. 3/8" x 24	-						
A13F38R		Female thr. 3/8" x 24	5.5						
A13F12		Female thr. 1/2" x 20	-						
A13F12R		Female thr. 1/2" x 20	6.5						
A13F14		Female thr. M14 x 2	-						
A13F18		Female thr. M18 x 2.5	-						
* A13F12PKR		1.5-13	Female thr. 1/2" x 20						
AS13J6	1.5-13	JACOBS 6	-	KS2PK	42.5	59	76	Heavy duty	370
AS13J33		JACOBS 33	-				77		
AS13F38R		Female thr. 3/8" x 24	5.5				73		
AS13F12R		Female thr. 1/2" x 20	6.5				73		
AP13B16	0.5-13	DIN B16	-	KS3	51	72	92	Heavy duty	635
AP13J6		JACOBS 6	-						
AP13J2		JACOBS 2	-						
AP13J33		JACOBS 33	-						
AP13F58		Female thr. 5/8" x 16	-						
AP16B16	2.5-16	DIN B16	-	KS3	51	72	92	Medium duty	635
AP16B18		DIN B18	-						
AP16J6		JACOBS 6	-						
AP16J33		JACOBS 33	-						
AP16F12		Female thr. 1/2" x 20	-						
AP16F12R		Female thr. 1/2" x 20	6.5						
AP16F18		Female thr. M18 x 2.5	-						
AP16F58		Female thr. 5/8" x 16	-						
AP16F58R		Female thr. 5/8" x 16	6.5						
AS16F12	2.5-16	Female thr. 1/2" x 20	-	KS3	51	67	87	Heavy duty	600
APP16B18	0.5-16	DIN B18	-	KS3	60	80	104	Heavy duty	950
APP16J6		JACOBS 6	-						
APP16J3		JACOBS 3	-						
APP16F58		Female thr. 5/8" x 16	-						
AP20B22	5-20	DIN B22	-	KS3	60	89	112	Heavy duty	970
AP20J3		JACOBS 3	-						
AP20F34		Female thr. 3/4" x 16	-						
AP20F58		Female thr. 5/8" x 16	-						
AP26B24	5-26	DIN B24	-	K20	75	114	139	Heavy duty	2095
AP26J4		JACOBS 4	-						

Model numbers ending in letter R indicate chuck supplied with through hole to accommodate a left hand locking screw for reversing tools.

\* Model A13F12PKR is designed to give exceptional gripping power on heavy duty drilling applications.

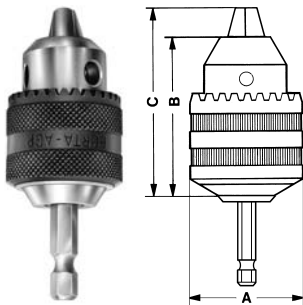
## Standard duty key operated chucks the popular chucks for portable power tools

Model numbers ending in letter R indicate chuck supplied with through hole to accommodate a left hand locking screw for reversing tools



AH13SDS

Model No.	Drilling capacity mm	Mount	Through hole diameter mm	With key	A mm	B mm	C mm	Packaging style	Weight g
AH08M38	0-8	Male thr. 3/8" x 24	-	KH810	30	43	52	Individual box	135
AH08M38B		Male thr. 3/8" x 24	-					Blister card	135
AH08F38		Female thr. 3/8" x 24	-					Individual box	120
AH08F38R		Female thr. 3/8" x 24	5.5					Individual box	120
AH08F38B		Female thr. 3/8" x 24	-					Blister card	120
AH08F38RB		Female thr. 3/8" x 24	5.5					Blister card	120
AH10B12	1.5-10	DIN B12	-	KH810	33	49	60	Individual box	160
AH10M38		Male thr. 3/8" x 24	-					Individual box	180
AH10M38B		Male thr. 3/8" x 24	-					Blister card	180
AH10F38		Male thr. 3/8" x 24	-					Individual box	165
AH10F38R		Male thr. 3/8" x 24	5.5					Individual box	165
AH10F38B		Female thr. 3/8" x 24	-					Blister card	165
AH10F38RB		Female thr. 3/8" x 24	5.5					Blister card	160
AH10F12		Female thr. 1/2" x 20	-					Individual box	160
AH10F12R		Female thr. 1/2" x 20	6.5					Individual box	160
AH10F12B		Female thr. 1/2" x 20	-					Blister card	160
AH10F12RB	Female thr. 1/2" x 20	6.5	Blister card	160					
AH13B12	1.5-13	DIN B12	-	KS2	42.5	59	74	Individual box	280
AH13B16		DIN B16	-					Individual box	280
AH13M38		Male thr. 3/8" x 24	-					Individual box	295
AH13M38B		Male thr. 3/8" x 24	-					Blister card	295
AH13F38		Female thr. 3/8" x 24	-					Individual box	285
AH13F38R		Female thr. 3/8" x 24	5.5					Individual box	285
AH13F38B		Female thr. 3/8" x 24	-					Blister card	285
AH13F38RB		Female thr. 3/8" x 24	5.5					Blister card	280
AH13F12		Female thr. 1/2" x 20	-					Individual box	280
AH13F12R		Female thr. 1/2" x 20	6.5					Individual box	280
AH13F12B		Female thr. 1/2" x 20	-					Blister card	280
AH13F12RB		Female thr. 1/2" x 20	6.5					Blister card	280
AH13SDS		SDS	6.5					Individual box	330
AH13SDSB		SDS	6.5					Blister card	330
A16F12	3.5-16	Female thr. 1/2" x 20	-	KS2	46	61	78	Individual box	445
A16B16		DIN B16				63	81		



## Key operated chucks for screwdrivers with 1/4" hexagonal male mount to DIN 3126 - E 6.3

Model No.	Drilling capacity mm	With key	A mm	B mm	C mm	Packaging style	Weight g
AH08X1	0-8	KH810	30	43	52	Individual box	135
AH08X1B						Blister card	
AH10X1	1.5-10	KH810	33	49	60	Individual box	180
AH10X1B						Blister card	

## Chuck keys

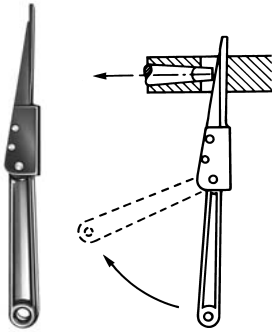


Model No.	Key model	Standard	A mm	Teeth No.	For key chucks type	Packaging style	Weight g
KS1	<b>KS1</b>	DIN S1	4	10	A06-A08	Bulk	10
KS1B						Blister card	
KS1P50						50 pcs. box	
KS2	<b>KS2</b>	DIN S2	6	12	AP08-AP10-A10 A13-A16-AH13	Bulk	40
KS2B						Blister card	
KS2P50						50 pcs. box	
KS2PK	<b>KS2PK</b>	DIN S2	6	12	A13F12PKR	Bulk	59
KS3	<b>KS3</b>	DIN S3	8	12	AP13-AP16 APP16-AP20	Bulk	80
KS3B						Blister card	
KS3P25						25 pcs. box	
KH810	<b>KH810</b>	DIN S14	6	11	AH08-AH10	Bulk	20
KH810B		JACOBS KG				Blister card	
KH810P50		50 pcs. box					
K20	<b>K20</b>	DIN S13 JACOBS K4	9,5	12	AP26	Bulk	120
KS8	<b>KS8</b>	DIN S8 JACOBS K30S	6	10	Black & Decker 13 mm	Bulk	40
KS8B						Blister card	
KS8P50						50 pcs. box	
K1	<b>K1</b>	DIN S7 JACOBS K1	4	11	-	Bulk	10
K1B						Blister card	
K2	<b>K2</b>	JACOBS K2	6,3	11	-	Bulk	40
K2B						Blister card	
K32	<b>K32</b>	DIN S9 JACOBS K32	6,3	10	-	Bulk	60
K32B						Blister card	
KS10	<b>KS10</b>	DIN S10 JACOBS K3	8	11	-	Bulk	70
KS10B						Blister card	
KS4	<b>KS4</b>	DIN S4	9	14	-	Bulk	150
KS4B						Blister card	
K0	<b>K0</b>	JACOBS K0	3	11	A04	Bulk	20
K0B						Blister card	
KJ6	<b>KJ6</b>	CK-3	4	12	Makita 6 mm	Bulk	36
KJ6B						Blister card	
KJ10	<b>KJ10</b>	CK-4	5,5	12	Makita 10 mm	Bulk	53
KJ10B						Blister card	
KJ13	<b>KJ13</b>	CK-5	6,5	12	Makita 13 mm	Bulk	61
KJ13B						Blister card	
KL0	Rubber strap to attach key on power tool cable					Bulk	-

**Morse taper ejecting drifts** according to DIN 317, hardened and black oxide special steel



Model No.	Morse taper	Lenght mm	Packaging style	Weight g
DR0	0	90	Bulk	14
DR12	1-2	140		70
DR23	2-3	148		80
DR34	3-4	190		150
DR45	4-5	225		310
DR56	5-6	265		650



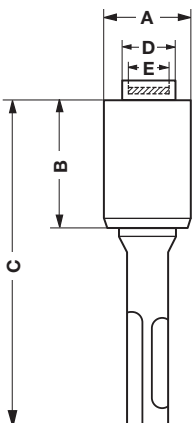
**Automatic Morse taper ejecting drifts**

Model No.	Morse taper	Lenght mm	Packaging style	Weight g
DRA123	1-2-3	320	Bulk	320
DRA456	4-5-6	380		580

**Nail attachment** with SDS adaptor to be fitted in a percusson power tool. A magnetic disc on front side provide nail catching for a quick and easy riveting.



Model No.	A mm	B mm	C mm	D mm	E Max size of nail head mm	Packaging style	Weight g
NASDS	23	29	78	13	10	Individual box	100
NASDSB						Blister card	



## Right angle drill attachment

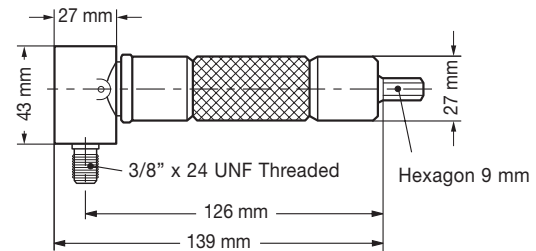


- The right angle drill attachment enables drilling of holes where no other conventional drill will fit.
- Fits to any drill with 10 mm or larger capacity chuck.
- The right angle drill attachment is equipped with a 3/8" x 24 threaded mount and can be supplied:
  - 1) Without chuck code RADA
  - 2) With key type chuck code RADACK
  - 3) With keyless chuck code RADACL
- Double heat treated helical gear.
- Aluminum alloy metal housing industrial quality guaranteed.
- Gear ratio 1:1.
- Max drilling capacity:
  - 10 mm in steel
  - 16 mm in wood.
- Maximum speed: 2.100 rpm.

Model No.	Packaging style	Weight g
RADA	Individual box	310
RADAB	Blister card	



RADA

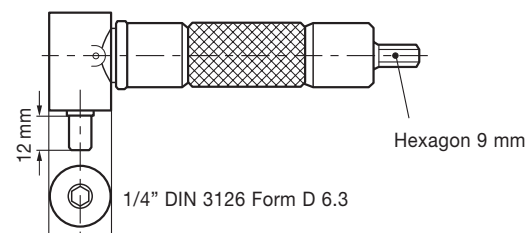


This model for screw driving applications only. It's equipped with magnetic hexagon hole to insert screwing bits.

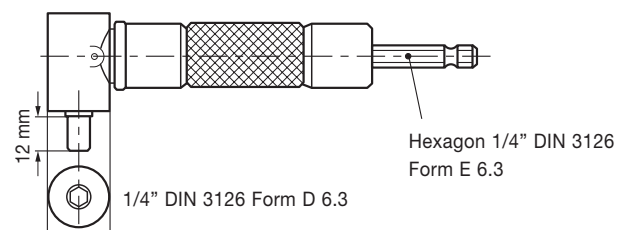
Model No.	Packaging style	Weight g
RADAX	Individual box	315
RADAXB	Blister card	




RADAX

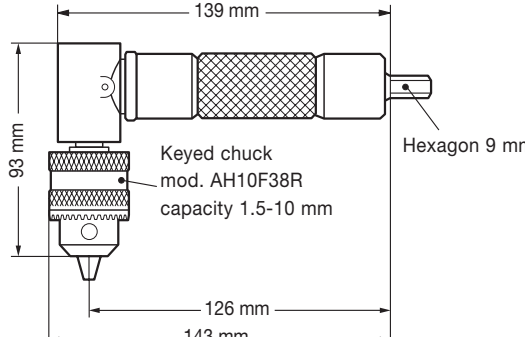


RADAV




Model No.	Packaging style	Weight g
RADAV	Individual box	315
RADAVB	Blister card	

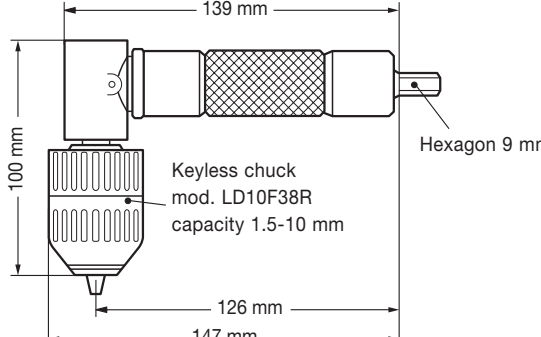
	Model No.	Packaging style	Weight g
 <p><b>RADACK</b></p>	RADACK	Individual box	455



Keyed chuck  
mod. AH10F38R  
capacity 1.5-10 mm

Hexagon 9 mm

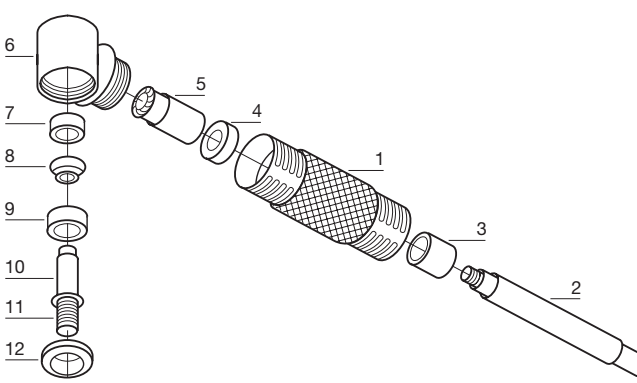
	Model No.	Packaging style	Weight g
 <p><b>RADACL</b></p>	RADACL	Individual box	490



Keyless chuck  
mod. LD10F38R  
capacity 1.5-10 mm

Hexagon 9 mm

### Spare parts

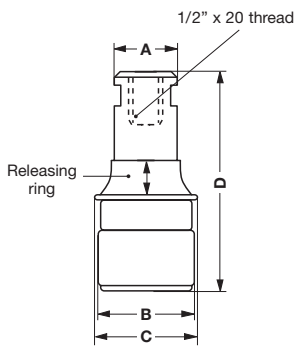
	Model No.	Item No.	Description	Quantity
	XRADA01	1	Body with bushing	1
	XRADA02	2	Clutch pin	1
	XRADA03	3	Needle bearing	1
	XRADA04	4	Ball bearing	1
	XRADA05	5	Bevel gear pin	1
	XRADA06	6	Angle head	1
	XRADA07	7	Ball bearing	1
	XRADA08	8	Bevel gear	1
	XRADA09	9	Ball bearing	1
	XRADA10	10	Key	1
	XRADA11	11	Chuck casing	1
	XRADA12	12	Bearing cap	1

**Quick change SDS converter for regular percussion power tools**

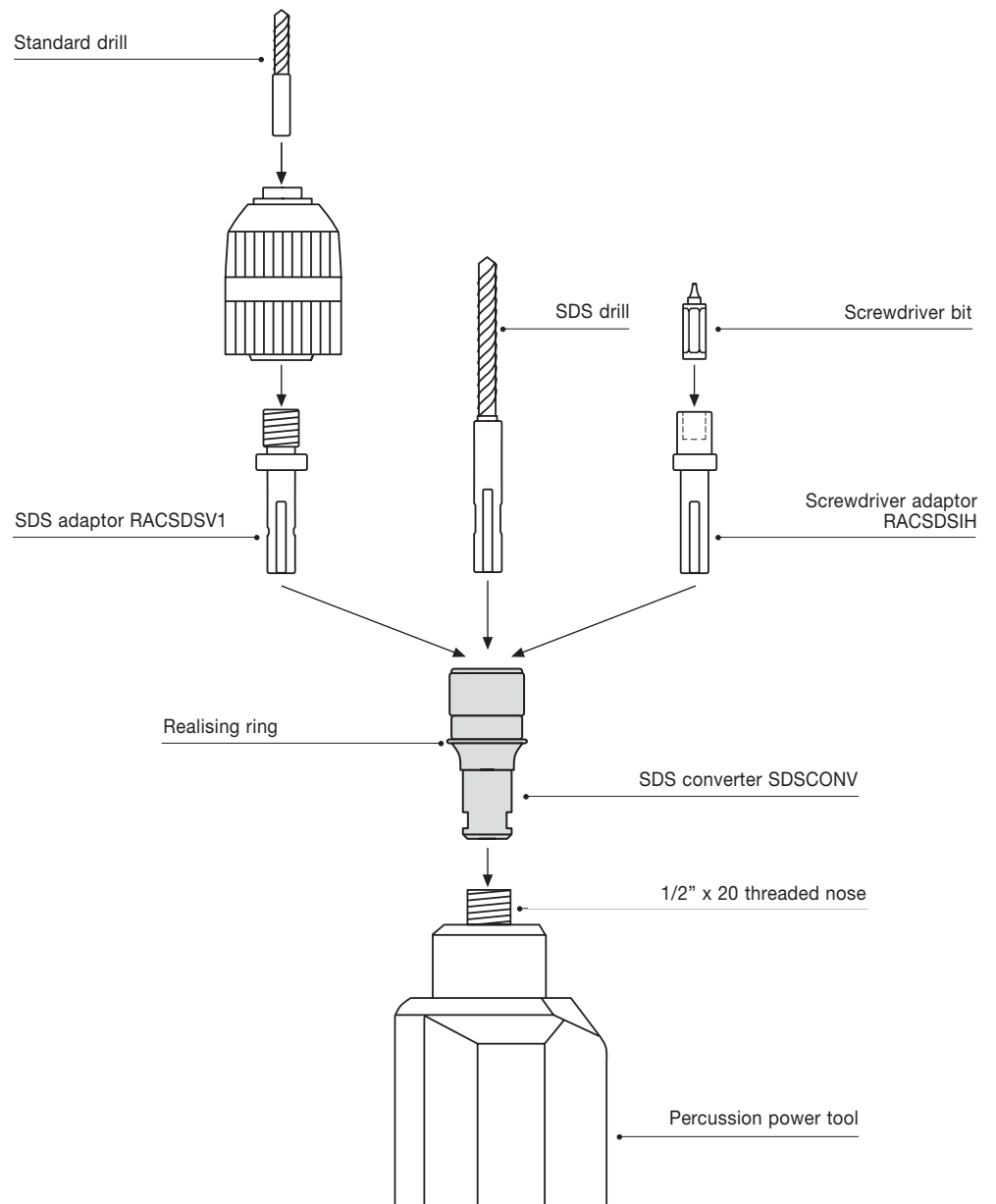


This converter adapts regular percussion impact machines to receive SDS shank tools. Quick change of SDS shank tools through the axial sliding releasing ring. Robust all steel production.

Model No.	Power tool nose	A mm	B mm	C mm	D mm	Packaging style	Weight g
SDSCONV	1/2" x 20	22	28	30	58	Individual box	160
SDSCONVB						Blister card	



**DIFFERENT WAYS OF APPLICATION**

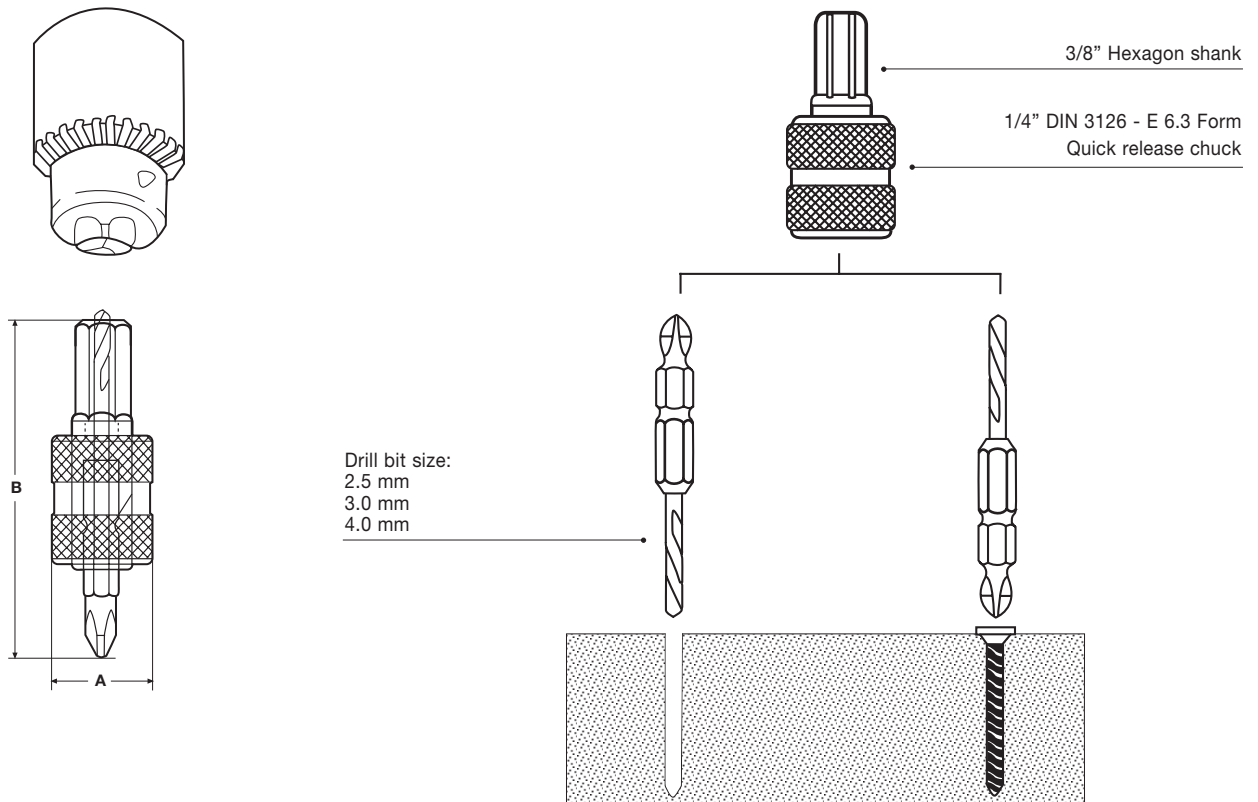


## Drilling and screwing bits quick change holder set



Tool set includes 1/4" quick release chuck with 3/8" hexagon shank to be fitted in a power tool and three unique drill and drive bit combinations which enable easy and fast way to change tool for drilling hole and screwing.

Model No.	A mm	B mm	Packaging style	Weight g
DSTS	20.5	54	Blister card	90



## Chuck adaptors



RACSDSV1

RACSDSIH

Model No.	Style	Description	Packaging style	Weight g
RACSDSV1	BOSCH SDS+	To convert SDS and other direct drive systems to accept 1/2" x 20 female chuck for rotary only work Supplied complete with M6 left hand threaded retaining screw	Individual box	55
RACSDSV1B			Blister card	55
RACSDSMAKB	MAKITA		Blister card	50
RACSDSIH magnetic	BOSCH SDS+	To convert SDS system to accept tools with 1/4" hexagon shanks for rotary rotation work	Bulk	50
RACSDSIHB magnetic			Blister card	

Model No.	Description	Packaging style	Weight g
VSR10D5	M5 left hand thread spare screw total length 18 mm for use with 10 mm 3/8" x 24 threaded keyed chucks	Bulk	6
VSR10D6	M6 left hand thread spare screw total length 23 mm for use with 10 mm 1/2" x 20 threaded keyed chucks		
VSR13D6	M6 left hand thread spare screw total length 27 mm for use with SDS adaptors and 13 mm 1/2" x 20 threaded keyed chucks		



Model No.	Description	Packaging style	Weight g
RAC3812M	To convert 1/2" x 20 female to 3/8" x 24 male	Individual box	26
RAC3812MB		Blister card	
RAC3838M	To convert 3/8" x 24 female to 3/8" x 24 male	Individual box	19
RAC3838MB		Blister card	



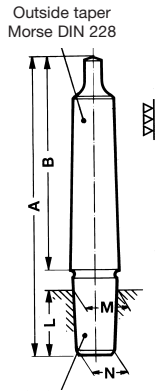
Model No.	Description	Packaging style	Weight g
RAC3812F	To convert 1/2" x 20 female to 3/8" x 24 female	Individual box	11
RAC3812FB		Blister card	



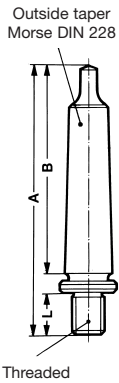


## Morse taper arbors with taper and threaded mounts, precision ground, hardened and tempered

Model No.	Morse taper DIN 228	Chuck mount	A mm	B mm	M mm	N mm	L mm	Packaging style	Weight g
C1B10	1	DIN B10	83	65.5	10.094	9.4	14.5	Individual box	55
C1B12		DIN B12	89		12.065	11.1	18.5		65
C1B16		DIN B16	99		15.733	14.5	24.0		90
C1B18		DIN B18	99		17.780	16.2	32.0		110
C1J0		JACOBS 0	81		6.35	5.802	11.112		50
C1J1		JACOBS 1	86		9.754	8.468	16.67		50
C1J2		JACOBS 2	92		14.2	12.39	22.23		60
C1J3		JACOBS 3	102		20.6	18.95	30.96		60
C1J6		JACOBS 6	96		17.17	15.85	25.4		60
C1J33		JACOBS 33	96		15.85	14.24	25.4		60
C1F38		Thr. 3/8" x 24	83		-	-	14.3		60
C1F12		Thr. 1/2" x 20	85		-	-	14.3		60
C2B10		2	DIN B10		105	80	10.094		9.4
C2B12	DIN B12		106	12.065	11.1		18.5	135	
C2B16	DIN B16		112	15.733	14.5		24.0	160	
C2B18	DIN B18		119	17.780	16.2		32.0	180	
C2B22	DIN B22		130	21.793	19.8		40.5	245	
C2J0	JACOBS 0		96	6.35	5.802		11.112	125	
C2J1	JACOBS 1		101	9.754	8.468		16.67	130	
C2J2	JACOBS 2		107	14.2	12.39		22.23	160	
C2J3	JACOBS 3		117	20.6	18.95		30.96	200	
C2J4	JACOBS 4		129	28.55	26.346		42.07	210	
C2J6	JACOBS 6		111	17.17	15.85		25.4	165	
C2J33	JACOBS 33		112	15.85	14.24		25.4	160	
C2F38	Thr. 3/8" x 24		96	-	-		14.3	160	
C2F12	Thr. 1/2" x 20	104	-	-	14.3	165			
C2F58	Thr. 5/8" x 16	117	-	-	17.5	180			
C2F34	Thr. 3/4" x 16	107	-	-	17.5	190			
C3B12	3	DIN B12	125	99	12.065	11.1	18.5	Individual box	280
C3B16		DIN B16	134		15.733	14.5	24.0		310
C3B18		DIN B18	140		17.780	16.2	32.0		320
C3B22		DIN B22	147		21.793	19.8	40.5		390
C3B24		DIN B24	157		23.825	21.3	50.5		440
C3J1		JACOBS 1	125		9.754	8.468	16.67		290
C3J2		JACOBS 2	126		14.2	12.39	22.23		310
C3J3		JACOBS 3	136		20.6	18.95	30.96		350
C3J6		JACOBS 6	130		17.17	15.85	25.4		310
C3J33		JACOBS 33	130		15.85	14.24	25.4		310
C3J4		JACOBS 4	147		28.55	26.346	42.07		330
C3F38		Thr. 3/8" x 24	114		-	-	14.3		310
C3F12		Thr. 1/2" x 20	122		-	-	14.3		320
C3F58	Thr. 5/8" x 16	126	-	-	17.5	340			
C3F34	Thr. 3/4" x 16	126	-	-	17.5	350			
C4B16	4	DIN B16	156	124	15.733	14.5	24.0	Individual box	625
C4B18		DIN B18	164		17.780	16.2	32.0		660
C4B22		DIN B22	176		21.793	19.8	40.5		715
C4B24		DIN B24	186		23.825	21.3	50.5		770
C4J2		JACOBS 2	153		14.2	12.39	22.23		600
C4J3		JACOBS 3	162		20.6	18.95	30.96		660
C4J4		JACOBS 4	173		28.55	26.346	42.07		700
C4J5		JACOBS 5	179		35.89	33.422	47.625		750
C4J6		JACOBS 6	156		17.17	15.85	25.4		650
C4J33	JACOBS 33	156	15.85	14.24	25.4	640			
C5B16	5	DIN B16	198	156	15.733	14.5	24.0	Individual box	1600
C5B18		DIN B18	198		17.780	16.2	32.0		1600
C5B22		DIN B22	207		21.793	19.8	40.5		1650
C5B24		DIN B24	217		23.825	21.3	50.5		1700
C5J3		JACOBS 3	198		20.6	18.95	30.96		1600
C5J4		JACOBS 4	210		28.55	26.346	42.07		1650
C5J5		JACOBS 5	216		35.89	33.422	47.625		1700
C5J6	JACOBS 6	198	17.17	15.85	25.4	1650			



Chuck taper  
DIN 238 or JACOBS



Threaded

**Iso taper arbors hardened and tempered according to DIN 2080**



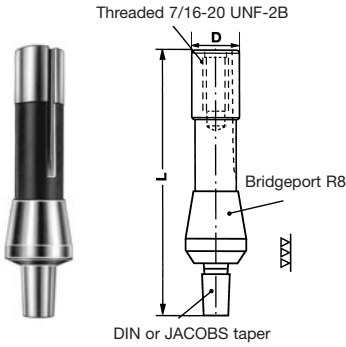
Model No.	Iso taper	Chuck mount	Drawbolt thread	Packaging style	Weight g
ISO30J6	30	JACOBS 6	M12	Individual box	425
ISO30B12		DIN B12			420
ISO30B16		DIN B16			425
ISO40J6	40	JACOBS 6	M16	Individual box	970
ISO40B12		DIN B12			965
ISO40B16		DIN B16			970
ISO40B18		DIN B18			970
ISO50J6	50	JACOBS 6	M24	Individual box	2560
ISO50B16		DIN B16			
ISO50B18		DIN B18			

**Parallel arbors with Jacobs taper mounts**

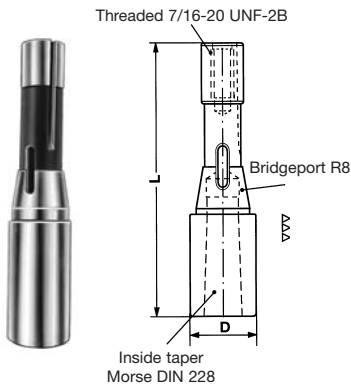


Model No.	A	B mm	Jacobs taper mount	Packaging style	Weight g
PA38J0	3/8"	60	0	Individual box	57
PA38J1			1		63
PA12J0	1/2"	64	0	Individual box	86
PA12J1			1		93
PA12J2			2		115
PA12J6			6		129
PA12J33			33		122
PA58J1	5/8"	64	1	Individual box	127
PA58J2			2		145
PA58J3			3		160
PA58J6			6		160
PA58J33			33		155
PA34J1	3/4"	72	1	Individual box	200
PA34J2			2		218
PA34J3			3		275
PA34J6			6		235
PA34J33			33		225
PA1J2	1"	74	2	Individual box	349
PA1J3			3		355
PA1J6			6		365
PA1J33			33		365

### Bridgeport R8 taper adaptors for chucks with DIN or Jacobs mount



Model No.	Taper	Mount	D mm	L mm	Drawbolt thread	Packaging style	Weight g
CR8B12	Bridgeport R8	DIN B12	24.10	132	7/16"-20	Individual box	400
CR8B16		DIN B16		135			425
CR8B18		DIN B18		137			435
CR8J2	Bridgeport R8	JACOBS 2	24.10	132	7/16"-20	Individual box	400
CR8J3		JACOBS 3		141			460
CR8J6		JACOBS 6		135			430
CR8J33		JACOBS 33		135			420



### Bridgeport R8 taper adaptors for Morse taper

Model No.	Taper	Morse taper	D mm	L mm	Drawbolt thread	Packaging style	Weight g
CR8MT1	Bridgeport R8	1	32	124	7/16"-20	Individual box	450
CR8MT2		2		137			460
CR8MT3		3		139			320

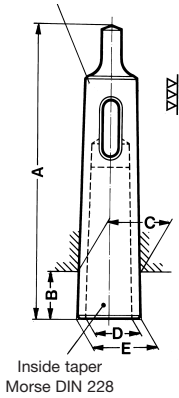
**Reducing sleeves according to DIN 2185, hardened and tempered, precision ground internally and externally**



Model No.	Morse taper		A mm	B mm	C mm	D mm	E mm	Packaging style	Weight g
	inside	outside							
B01	0	- 1	80	19	12.065	9.045	13.0	Individual box	30
B12	1	- 2	92	17	17.780	12.065	18.6		95
B13	1	- 3	99	5	23.825	12.065	24.1		250
B23	2	- 3	112	18	23.825	17.780	24.7		190
B14	1	- 4	124	6.5	31.267	12.065	31.6		550
B24	2	- 4	124	6.5	31.267	17.780	31.6		480
B34	3	- 4	140	22.5	31.267	23.825	32.4		360
B15	1	- 5	156	6.5	44.399	12.065	44.7		1700
B25	2	- 5	156	6.5	44.399	17.780	44.7		1520
B35	3	- 5	156	6.5	44.399	23.825	44.7		1360
B45	4	- 5	171	21.5	44.399	31.267	45.5		1020
B36	3	- 6	218	8	63.348	23.825	63.8		5300
B46	4	- 6	218	8	63.348	31.267	63.8		5010
B56	5	- 6	218	8	63.348	44.399	63.8		4200

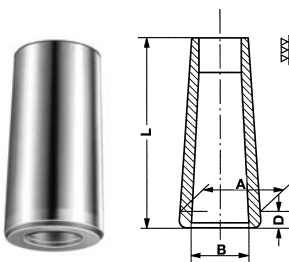
**Oil toughened reducing sleeves externally precision ground with hardened tang**

Outside taper Morse DIN 228



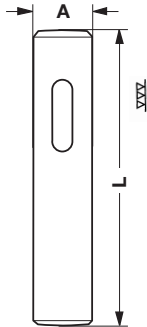
Model No.	Morse taper		A mm	B mm	C mm	D mm	E mm	Packaging style	Weight g
	inside	outside							
B01OT	0	- 1	80	19	12.065	9.045	13.0	Individual box	30
B12OT	1	- 2	92	17	17.780	12.065	18.6		95
B13OT	1	- 3	99	5	23.825	12.065	24.1		250
B23OT	2	- 3	112	18	23.825	17.780	24.7		190
B14OT	1	- 4	124	6.5	31.267	12.065	31.6		550
B24OT	2	- 4	124	6.5	31.267	17.780	31.6		480
B34OT	3	- 4	140	22.5	31.267	23.825	32.4		360
B15OT	1	- 5	156	6.5	44.399	12.065	44.7		1700
B25OT	2	- 5	156	6.5	44.399	17.780	44.7		1520
B35OT	3	- 5	156	6.5	44.399	23.825	44.7		1360
B45OT	4	- 5	171	21.5	44.399	31.267	45.5		1020
B36OT	3	- 6	218	8	63.348	23.825	63.8		5300
B46OT	4	- 6	218	8	63.348	31.267	63.8		5010
B56OT	5	- 6	218	8	63.348	44.399	63.8		4200

**Reducing sleeves with plain through hole, hardened and tempered, precision ground internally and externally**



Model No.	Morse taper		L mm	D mm	A mm	B mm	Packaging style	Weight g
	inside	outside						
B12TH	1	- 2	50	4	17.780	12.065	Individual box	50
B13TH	1	- 3	55	4.5	23.825	12.065		140
B23TH	2	- 3	60	4.5	23.825	17.780		90
B14TH	1	- 4	65	5.3	31.267	12.065		320
B24TH	2	- 4	70	5.3	31.267	17.780		260
B34TH	3	- 4	75	5.3	31.267	23.825		170
B25TH	2	- 5	80	6.3	44.400	17.780		770
B35TH	3	- 5	90	6.3	44.400	23.825		740
B45TH	4	- 5	95	6.3	44.400	31.267		560
B36TH	3	- 6	110	7.9	63.380	23.825		2200
B46TH	4	- 6	120	7.9	63.380	31.267		2100
B56TH	5	- 6	125	7.9	63.380	44.400		1510

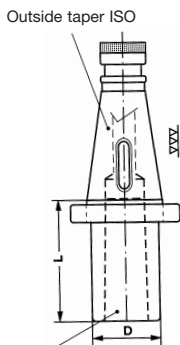
**Morse taper turret sockets, hardened case, ground internally and externally**



Inside taper Morse DIN 228

Model No.	Diameter A	Morse taper	L mm	Packaging style	Weight g
TS75MT1	3/4"	1	89	Individual box	280
TS1MT1	1"	1	89	Individual box	300
TS1MT2		2	102		
TS15MT1	1.1/2"	1	89	Individual box	600
TS15MT2		2	102		770
TS15MT3		3	121		820
TS15MT4		4	153		1150
TS2MT3	2"	3	121	Individual box	1500
TS2MT4		4	153		1800
TS2125MT3	2.1/8"	3	121	Individual box	1750
TS2125MT4		4	153		2100
TS2125MT5		5	228		2500
TS25MT3	2.1/2"	3	121	Individual box	2500
TS25MT4		4	153		2900
TS25MT5		5	228		4500
TSM20MT1	20 mm	1	89	Individual box	280
TSM25MT1	25 mm	1	89	Individual box	300
TSM25MT2		2	102		
TSM30MT3	30 mm	3	121	Individual box	750
TSM40MT2	40 mm	2	102	Individual box	770
TSM40MT3		3	121		820
TSM40MT4		4	153		1150
TSM50MT3	50 mm	3	121	Individual box	1750
TSM50MT4		4	153		2100

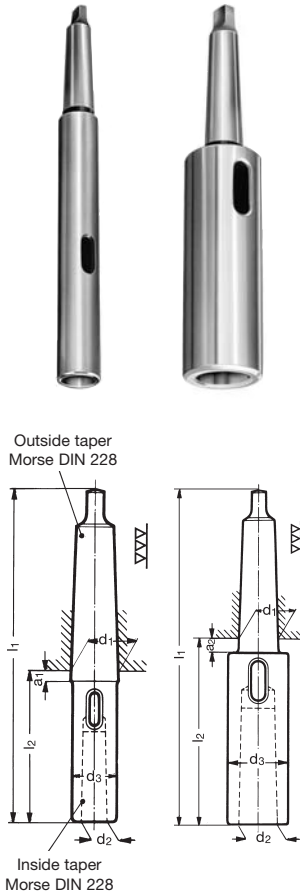
**Iso taper to Morse taper adaptors according to DIN 2080 hardened and tempered, precision ground internally and externally**



Inside taper Morse DIN 228

Model No.	Iso taper outside	Morse taper inside	D mm	L mm	Drawbolt thread	Packaging style	Weight g
ISO30MT2	30	2	34	50	M12	Individual box	400
ISO30MT3		3	40	70			600
ISO40MT2	40	2	34	50	M16	Individual box	900
ISO40MT3		3	40	65			1000
ISO40MT4		4	50	95			1300
ISO50MT3	50	3	40	65	M24	Individual box	2800
ISO50MT4		4	50	70			2800
ISO50MT5		5	65	105			3200

## Extension sockets according to DIN 2187, hardened and tempered, precision ground internally and externally

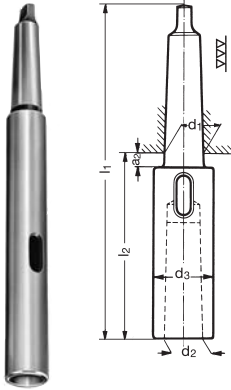


Model No.	Morse taper outside	Morse taper inside	a <sub>1</sub> mm	a <sub>2</sub> mm	d <sub>1</sub> mm	d <sub>2</sub> mm	d <sub>3</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	Packaging style	Weight g
BL11145	1	1	-	7	12.065	12.065	20	145	83	Individual box	190
BL12160		2				17.780	30	160	98		250
BL21160	2	1	-	9	17.780	12.065	20	160	85	Individual box	340
BL22175		2				17.780	30	175	100		400
BL23196		3				23.825	36	196	121		550
BL31175	3	1	5	-	23.825	12.065	20	175	81	Individual box	400
BL32194		2	-	9		17.780	30	194	100		840
BL33215		3	-	9		23.825	36	215	121		1000
BL34240		4	-	9		31.267	48	240	146		1300
BL41200	4	1	6.5	-	31.267	12.065	20	200	82.5	Individual box	800
BL42215		2	6.5	-		17.780	30	215	97.5		850
BL43240		3	-	10.5		23.825	36	240	122.5		1500
BL44265		4	-	10.5		31.267	48	265	147.5		1900
BL45300		5	-	10.5		44.399	63	300	182.5		2750
BL51232	5	1	6.5	-	44.399	12.065	20	232	82.5	Individual box	1600
BL52247		2	6.5	-		17.780	30	247	97.5		1600
BL53268		3	6.5	-		23.825	36	268	118.5		2840
BL54300		4	-	13.5		31.267	48	300	150.5		3310
BL55335		5	-	13.5		44.399	63	335	185.5		4200

## Oil toughened extension sockets externally precision ground with hardened tang

Model No.	Morse taper outside	Morse taper inside	a <sub>1</sub> mm	a <sub>2</sub> mm	d <sub>1</sub> mm	d <sub>2</sub> mm	d <sub>3</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	Packaging style	Weight g
BL11145OT	1	1	-	7	12.065	12.065	20	145	83	Individual box	190
BL12160OT		2				17.780	30	160	98		250
BL21160OT	2	1	-	9	17.780	12.065	20	160	85	Individual box	340
BL22175OT		2				17.780	30	175	100		400
BL23196OT		3				23.825	36	196	121		550
BL31175OT	3	1	5	-	23.825	12.065	20	175	81	Individual box	400
BL32194OT		2	-	9		17.780	30	194	100		840
BL33215OT		3	-	9		23.825	36	215	121		1000
BL34240OT		4	-	9		31.267	48	240	146		1300
BL41200OT	4	1	6.5	-	31.267	12.065	20	200	82.5	Individual box	800
BL42215OT		2	6.5	-		17.780	30	215	97.5		850
BL43240OT		3	-	10.5		23.825	36	240	122.5		1500
BL44265OT		4	-	10.5		31.267	48	265	147.5		1900
BL45300OT		5	-	10.5		44.399	63	300	182.5		2750
BL51232OT	5	1	6.5	-	44.399	12.065	20	232	82.5	Individual box	1600
BL52247OT		2	6.5	-		17.780	30	247	97.5		1600
BL53268OT		3	6.5	-		23.825	36	268	118.5		2840
BL54300OT		4	-	13.5		31.267	48	300	150.5		3310
BL55335OT		5	-	13.5		44.399	63	335	185.5		4200

## Oil toughened long pattern extension sockets externally precision ground with hardened tang



Model No.	Morse taper outside	Morse taper inside	a <sub>1</sub> mm	a <sub>2</sub> mm	d <sub>1</sub> mm	d <sub>2</sub> mm	d <sub>3</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	Packaging style	Weight g
BL11200OT	1	-	-	7	12.065	12.065	20	200	138	Individual box	250
BL11250OT								250	188		375
BL11300OT								300	238		500
BL11350OT								350	288		625
BL11400OT								400	338		750
BL11450OT								450	388		875
BL11500OT								500	438		1000
BL22200OT	2	-	-	9	17.780	17.780	25	200	125	Individual box	430
BL22250OT								250	175		625
BL22300OT								300	225		820
BL22350OT								350	275		1015
BL22400OT								400	325		1200
BL22450OT								450	375		1400
BL22500OT								500	425		1600
BL22600OT	600	525	1800								
BL33250OT	3	-	-	9	23.825	23.825	32	250	156	Individual box	1000
BL33300OT								300	206		1300
BL33350OT								350	256		1550
BL33400OT								400	306		1850
BL33450OT								450	356		2100
BL33500OT								500	406		2400
BL33600OT								600	506		2700
BL44300OT	4	-	-	10.5	31.267	31.267	40	300	182.5	Individual box	1650
BL44350OT								350	232.5		2150
BL44400OT								400	282.5		2650
BL44450OT								450	332.5		3100
BL44500OT								500	382.5		3600
BL44600OT								600	482.5		4200



**Carbon steel full point 60°**

Model No.	Morse taper	A mm	B mm	Packaging style	Weight g
CFN1	1	12.2	80	Individual box	60
CFN2	2	18	100		150
CFN3	3	24.1	125		340
CFN4	4	31.6	160		790
CFN5	5	44.7	200		1920
CFN6	6	63.8	270		5200



**Carbon steel half point 60°**

Model No.	Morse taper	A mm	B mm	E mm	F mm	Packaging style	Weight g
CFR1	1	12.2	80	7.6	22	Individual box	55
CFR2	2	18	100	11	30		145
CFR3	3	24.1	125	15	38		310
CFR4	4	31.6	160	21	50		740
CFR5	5	44.7	200	29.4	63		1800
CFR6	6	63.8	270	42	79		4800



**Carbide tipped full point 60°**

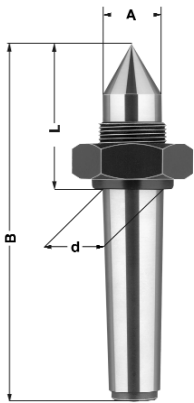
Model No.	Morse taper	A mm	B mm	D mm	Packaging style	Weight g
CFW1	1	12.2	80	7	Individual box	60
CFW2	2	18	100	7		150
CFW3	3	24.1	125	11		340
CFW4	4	31.6	160	14		790
CFW5	5	44.7	200	18		1920
CFW6	6	63.8	270	18		5200



**Carbide tipped full point 60°**

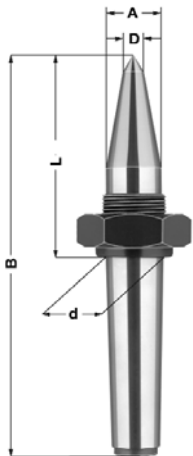
Model No.	Morse taper	A mm	B mm	D mm	E mm	F mm	Packaging style	Weight g
CFWR1	1	12.2	80	7	7.6	22	Individual box	55
CFWR2	2	18	100	7	11	30		145
CFWR3	3	24.1	125	11	15	38		310
CFWR4	4	31.6	160	14	21	50		740
CFWR5	5	44.7	200	18	29.4	63		1800
CFWR6	6	63.8	270	18	42	79		4800

## Lathe centres with draw off nut according to DIN 807



### Standard point completely hardened and ground

Model No.	Morse taper	A thread	B mm	d mm	L mm	Packaging style	Weight g
CDN1	1	M16x1.5	90	12.065	36.5	Individual box	140
CDN2	2	M22x1.5	112	17.780	48		300
CDN3	3	M27x1.5	138	23.825	57		580
CDN4	4	M36x1.5	175	31.267	72.5		800
CDN5	5	M48x1.5	217	44.399	87.5		2900
CDN6	6	M68x1.5	290	63.348	108		7200



### Extended point completely hardened and ground

Model No.	Morse taper	A thread	B mm	D mm	d mm	L mm	Packaging style	Weight g
CCDN1	1	M16x1.5	93	5	12.065	36.5	Individual box	170
CCDN2	2	M22x1.5	118	10	17.780	54		300
CCDN3	3	M27x1.5	148	10	23.825	67		600
CCDN4	4	M36x1.5	186.5	14	31.267	84		1285
CCDN5	5	M48x1.5	242	16	44.399	112		3000
CCDN6	6	M68x1.5	330	20	63.348	148		7900

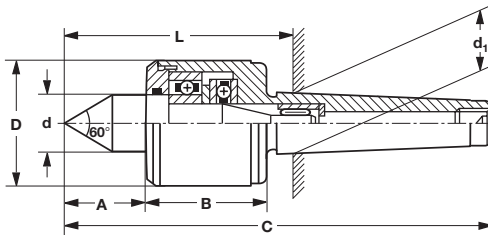
### Spare draw off nuts

Model No.	Morse taper	Thread
DNM16	1	M16x1.5
DNM22	2	M22x1.5
DNM27	3	M27x1.5
DNM36	4	M36x1.5
DNM48	5	M48x1.5
DNM68	6	M68x1.5

## General purpose



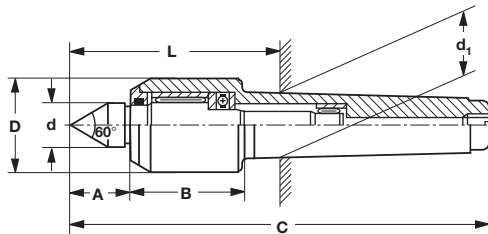
Model No.	Morse taper	D mm	d mm	d <sub>1</sub> mm	L mm	A mm	B mm	C mm	Max workpiece weight kg	Max speed r.p.m.	Max runout mm	Packaging style	Weight g
M1	1	28	10	12.06	51	16	30	105	80	3800	0.008	Individual box	200
M2	2	41	18	17.78	75	25	40	139	180	3800			550
M3	3	50	23	23.82	90	34	48	172	270	3500			970
M4	4	60	25	31.26	99	35	52	202	550	3500			1550
M5	5	75	38	44.39	130	52	65	259	1000	3000	0.012		3200
M6	6	96	50	63.34	156	65	82	338	1500	2600	0.015		7500



## Reduced body diameter



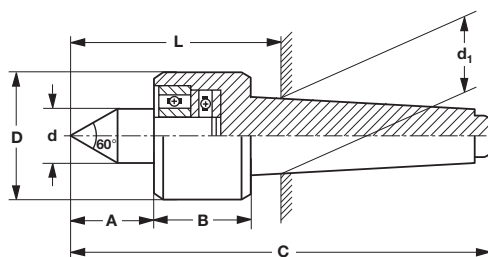
Model No.	Morse taper	D mm	d mm	d <sub>1</sub> mm	L mm	A mm	B mm	C mm	Max workpiece weight kg	Max speed r.p.m.	Max runout mm	Packaging style	Weight g
MR2	2	32	15	17.78	62	20	37	128	200	6000	0.005	Individual box	300
MR3	3	34	15	23.82	63	20	38	141	400	6000	0.005		500
MR4	4	42	20	31.26	76	26	42	180	800	6000	0.005		1000
MR5	5	58	30	44.39	105	35	62	238	1200	4000	0.008		2500



## Woodworking



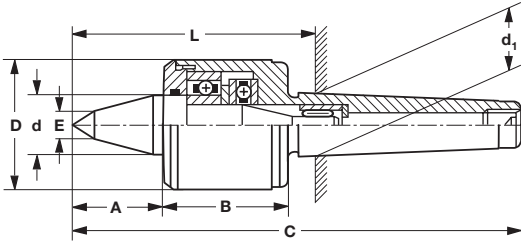
Model No.	Morse taper	D mm	d mm	d <sub>1</sub> mm	L mm	A mm	B mm	C mm	Max workpiece weight kg	Max speed r.p.m.	Max runout mm	Packaging style	Weight g
MW1	1	32	15	12.06	53.5	20	26.8	108	2.5	6200	0.03	Individual box	215
MW2	2	32	15	17.78	56.8	20	28.1	119	4	6200	0.03		280



## Extended point for copy turning machines



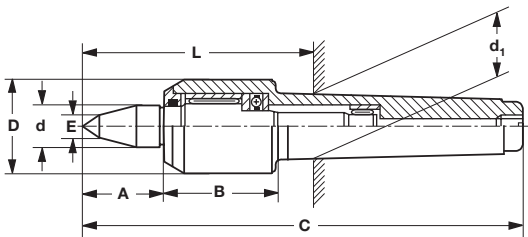
Model No.	Morse taper	D mm	d mm	d <sub>1</sub> mm	L mm	A mm	B mm	C mm	E mm	Max workpiece weight kg	Max speed r.p.m.	Max runout mm	Packaging style	Weight g
MC3	3	50	23	23.82	90	35	48	171	11	270	4200	0.008	Individual box	970
MC4	4	60	25	31.26	101	39	52	205	14	550	3800			1550
MC5	5	75	38	44.39	131	53	65	260	20	1000	3000	0.012		3200



## Reduced body diameter extended point for copy turning machines

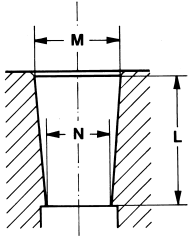


Model No.	Morse taper	D mm	d mm	d <sub>1</sub> mm	L mm	A mm	B mm	C mm	E mm	Max workpiece weight kg	Max speed r.p.m.	Max runout mm	Packaging style	Weight g
MRC2	2	32	15	17.78	71	29	37	137	8	150	6000	0.005	Individual box	300
MRC3	3	34	15	23.82	73	30	38	151	8	300	6000			500
MRC4	4	42	20	31.26	86	36	42	190	10	700	6000			1000
MRC5	5	58	30	44.39	116	46	62	249	12	1000	4000	0.01		2500



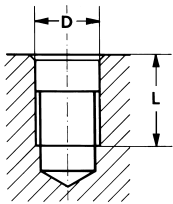
# Technical information

Chuck taper mount dimensions according to **DIN 238** and **Jacobs** norms



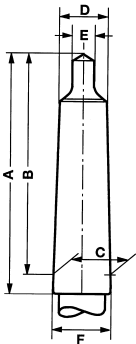
Norm	Chuck taper mount	M mm	N mm	L mm
DIN 238	B6	6.35	5.85	10.0
	B10	10.094	9.4	14.5
	B12	12.065	11.1	18.5
	B16	15.733	14.5	24.0
	B18	17.780	16.2	32.0
	B22	21.793	19.8	40.5
	B24	23.825	21.3	50.5
JACOBS	J0	6.350	5.803	11.11
	J1	9.754	8.468	16.67
	J2	14.2	12.39	22.23
	J2 short	13.94	12.39	19.05
	J33	15.85	14.24	25.4
	J6	17.17	15.85	25.4
	J3	20.6	18.95	30.96
	J4	28.55	26.35	42.07

Chuck threaded mount dimensions



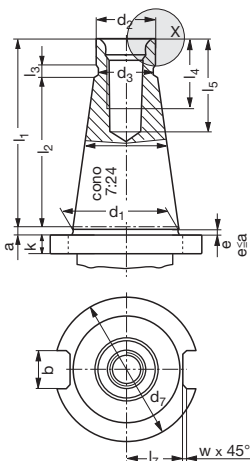
Threaded mount	Class	D mm	Pitch mm	L mm
3/8" x 24 UNF	3B	9.525	1.058	14.5
1/2" x 20 UNF	3B	12.700	1.270	16.0
5/8" x 16 UN	3B	15.875	1.588	19.0
3/4" x 16 UNF	3B	19.050	1.588	19.0
M14 x 2	MA	14.00	2.00	19.0
M18 x 2.5	MA	18.00	2.50	19.0

Morse taper dimensions according to **DIN 228**

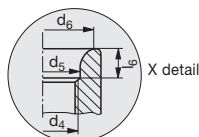


Morse taper	A mm	B mm	C mm	D mm	E mm	F mm	Taper %
0	59.5	56.5	9.045	6.1	3.9	9.2	5.205
1	65.5	62.0	12.065	9.0	5.2	12.2	4.988
2	80.0	75.0	17.780	14.0	6.3	18.0	4.995
3	99.0	94.0	23.825	19.1	7.9	24.1	5.020
4	124.0	117.5	31.267	25.2	11.9	31.6	5.194
5	156.0	149.5	44.399	36.5	15.9	44.7	5.263
6	218.0	210.0	63.348	52.4	19.0	63.8	5.214

Iso taper dimensions according to **DIN 2080**



Iso taper	a mm	b mm	d <sub>1</sub> mm	d <sub>2</sub> mm	d <sub>3</sub> mm	d <sub>4</sub> mm	d <sub>5</sub> mm	d <sub>6</sub> mm	d <sub>7</sub> mm	k mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>3</sub> mm	l <sub>4</sub> mm	l <sub>5</sub> mm	l <sub>6</sub> mm	l <sub>7</sub> mm	w mm
30	1.6	16.1	31.75	17.11	16.5	M12	13	16	50	8	68.4	48.4	3	24	33.5	5.5	16.2	1.6
40	1.6	16.1	44.45	25	24	M16	17	21.5	63	10	93.4	65.4	5	32	42.5	8.2	22.5	1.6
50	3.2	25.7	69.85	39.30	38	M24	26	32	97.5	12	126.8	101.8	8	47	61.5	11.5	35.3	2





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