OPTIMUM®
MASCHINEN - GERMANY

ACCESSORIES FOR LATHES











Revolving tailstock centre	Article no.
max. radial run-out 0.006 mm	
MT 1	3440701
› Max. speed 5 000 rpm; radial load max. 320 N	
MT 2	3440702
› Max. speed 5 000 rpm; radial load max. 400 N	
MT 3	3440703
› Max. speed 4 500 rpm; radial load max. 800 N	
MT 4	3440704
› Max. speed 3 500 rpm; radial load max. 1 250 N	
MT 5	3440705
› Max. speed 3 000 rpm; radial load max. 1 500 N	
MT 6	3440706
› Max. speed 2 500 rpm; radial load max. 1 800 N	



Collet set SPZ - 5C	3441509
› 17-part, clamping range 3 - 25 mm	
› Standard 385 E	
› For universal collet chuck device	



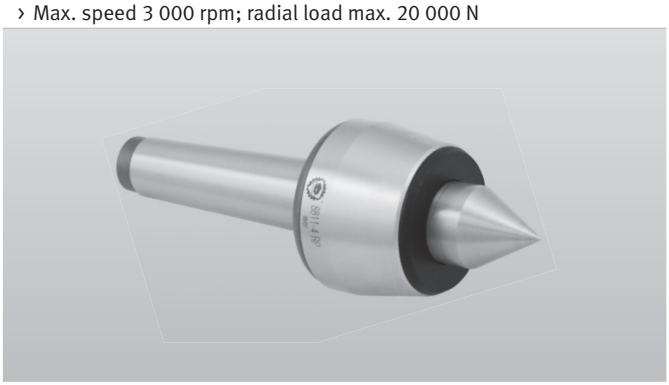
Collet set	Article no.
› DIN 6499	
ER 16	3440282
› 12-part, clamping range Ø 1 - 10 mm	
ER 25	3441109
› 15-part, clamping range Ø 1 - 16 mm	
ER 32	3441122
› 18-part, clamping range Ø 3 - 20 mm	



Universal collet chuck device 5C	Article no.
› for lathe **TH 42** (not Vario)	3441507



Revolving tailstock centre	Article no.
max. radial run-out 0.005 mm	
MT 2 (NSK ball roller bearings and INA needle bearings)	3451002
› Max. speed 7 000 rpm; radial load max. 2 000 N	
MT 3 (NSK ball roller bearings and INA needle bearings)	3451003
› Max. speed 5 000 rpm; radial load max. 4 000 N	
MT 4 (NSK ball roller bearings and INA needle bearings)	3451004
› Max. speed 3 800 rpm; radial load max. 8 000 N	
MT 5 (2-row SKF angular contact bearings)	3451005
› Max. speed 3 000 rpm; radial load max. 20 000 N	



Revolving tailstock centre	Article no.
› With 7 replaceable tips	
› Body made of hardened and ground tool steel	
› Precision needle bearings guarantee excellent true running accuracy	
MT 2	3440732
MT 3	3440733
MT 4	3440734



Position stop	Article no.
With fine adjustment	
› for lathe **TH 3309**	3441522
› for lathe **TH 3610**	3441523
› for lathe **TH 46**	3444022
› for lathe **TH 56**	3444023



Fig. 3441522 Fig. 3444022

The clamping height must be adjusted to the bed by reworking.

Compatibility overview accessories for lathes

Turning accessories		Article no.	TU 1503V	TU 2004V	TU 2304/V	TU 2406/V	TU 2506/V	TU 2807/V	TU 3008/G/V	TM 3110	TH 3309/D/V	TM 3310/D	TH 3610/D	TH 4010V	TM 4010/D	TH 42	TH 4210V	TH 46	TH 4615V	TZ 4 / TZ4V	TX 4412	TX 5216	TX 6222	TH 56	TH 5620V	TH 66	TH 80
SWH	SWH AA	3384311		●																							
	SWH 1 - A	3384301			●	●	●	●	●																		
	SWH 3 - E	3384303								●	●	●	●	L	L												
	SWH 5 - B	3384305														●	L	L	L	L	L						
	SWH 7 - C	3384307																				L	L	L	L		
	SWH 9 - D	3384309																								L	L
Lathe tool	HM 8 mm	3441662	●	●	●																						
	HM 10 mm	3441664			●	●	●	●	●																		
	HM 12 mm	3441666			●	●	●	●	●																		
	HM 12 mm	3441212			●	●	●	●	●																		
	HM 16 mm	3441668								●	●	●	●	●	●												
	HM 16 mm	3441216								●	●	●	●	●	●												
	HM 16 mm	3441610								●	●	●	●	●	●												
	HM 20 mm	3441670														●	●	●	●	●	●	●		●	●		
	HM 20 mm	3441617														●	●	●	●	●	●	●		●	●		
	HM 25 mm	3441672															●	●	●		●	●	●			●	●
	HM 25 mm	3441623															●	●	●		●	●	●			●	●
	HM 32 mm	3441674																								●	●
Single lathe tool 12 mm	SSSC L1212J09	3441225			●	●	●	●	●																		
	SCLC L1212J09	3441226			●	●	●	●	●																		
Lathe tool	HM 8 mm	3441601	●	●	●																						
	HM 10 mm	3441602			●	●	●	●	●																		
	HM 12 mm	3441603			●	●	●	●	●																		
	HM 16 mm	3441604								●	●	●	●	●	●												
Inside turning tool set	10 mm	3441640			●	●	●	●	●																		
	12 mm	3441641			●	●	●	●	●		●	●	●		●												
	Set	3441650									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pilot bit set		3203010			●	●	●	●	●		●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
Anti-vibration element	SE 1	3381012			●*	●*	●*	●*	●*	●*	●	●	●		●					●							
	SE 2	3381016												●							●	●	●				
	SE 3	3381018														●	●	●	●					●	●	●	●
Levelling platen	SE 55	3352981			○*	○*	○*	○*	○*	○*	●	●	●		●						●						
	SE 85	3352982												●		●	●	●	●		●	●	●	●	●	●	●
Machine base	MST1	3440409			●	●	●	●	●	●																	
Number of SE required (*if using the MST)					6*	6*	6*	6*	6*	6*	8	6	6	6	6	6	6	6	6	8	6	6	6	6	6	6/8	8
Clamping block	Set 16- 05	3440653							●		●	●	●	●	●												
	Set 20- 05	3440654													●	●	●	●	●	●	●	●	●	●	●		
	Set 25- 05	3440655																								●	●
Twist drill HSS	MT 2	3051002		●	●	●	●	●																			
	MT 3	3051003							●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○
Clamping disc	Ø 170 mm	3440295		●																							
	Ø 220 mm	3440552				●																					
	Ø 240 mm	3441352					●																				
	Ø 265 mm	3441452						●																			
	Ø 300 mm Camlock No. 4	3442976							●		●																
	Ø 320 mm Camlock No. 5	3442979													●					●							
	Ø 330 mm Camlock No. 5	3442978											●														
	Ø 350 mm Camlock No. 6	3442980														●	●	●									
	Ø 480 mm Camlock No. 8	3442982																	●			●	●	●	●	●	●
Chuck flange	Ø 100 mm cylindrical	3440312		●																							
	Ø 125 mm cylindrical	3440313			●																						
	Ø 125 mm cylindrical	3440511				●																					
	Ø 125 mm short taper	3441312					●	●																			
	Ø 160 mm short taper	3441413						●																			

(*when using the MST)

Turning accessories		Article no.	TU 1503V	TU 2004V	TU 2304/V	TU 2406/V	TU 2506/V	TU 2807/V	TU 3008/G/V	TM 3110	TH 3309/D/V	TM 3310/D	TH 3610/D	TH 4010V	TM 4010/D	TH 42	TH 4210V	TH 46	TH 4615V	TZ 4/ TZ4V	TX 4412	TX 5216	TX 6222	TH 56	TH 5620V	TH 66	TH 80
Bison chuck flange	Ø 160 mm	3450245									●									●							
Collet chuck	ER16	3440281	●																								
	ER25	3440305		●	●																						
	ER25	3440505				●																					
	ER32	3440506				●																					
	ER25	3441305					●	●																			
	ER32	3441306					●	●																			
BISON Collet chuck	16C	3450246																		●							
Collet chuck	5C - No. 4	3441554							●	●	●	●															
	5C - No. 5	3441555											●	●	●												
	5C - No. 6	3441556														●	●	●									
	5C - No. 8	3441558																	●			●	●	●	●	●	●
Collet set	5C	3441509							●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●
Revolving tailstock centre	MT 2	3440702		●	●	●	●	●																			
	MT 3	3440703							●	●	●	●	●	●	●					●							
	MT 4	3440704														●	●	●	●		●						
	MT 5	3440705																				●	●	●	●	●	●
Revolving tailstock centre with replaceable tips	MT 2	3440732		●	●	●	●	●																			
	MT 3	3440733							●	●	●	●	●	●	●					●		●	●			●	●
	MT 4	3440734														●	●	●	●		●						
BISON Revolving tailstock centre	MT 2	3451002	●	●	●	●	●																				
	MT 3	3451003						●	●	●	●	●	●	●											●		
	MT 4	3451004													●	●	●	●	●		●						
	MT 5	3451005																		●		●	●	●		●	●
Collet set	ER 16	3440282	●																								
	ER 25	3441109		●	●	●	●	●																			
	ER 32	3441122		●		●	●	●																			
Collet chuck device	5C	3441507														●											
Position stop		3441522									●																
		3441523											●														
		3444022																●	●								
		3444023																						●	●		
Hollow spindle stop	HSP 38	3444410							●	●	●	●															
	HSP 52	3444415											●	●	●	●	●			●	●						
	HSP 80	3444420																	●			●		●			
	HSP 105	3444425																					●		●	●	●
Steady rest		3440211	●																								
		3440231		●																							
		3440361			●																						
		3440515																									
		3441315				●	●																				
		3441415						●																			
		3441461							●																		
		3441470								●																	
Follower rest		3440210	●																								
		3440230		●																							
		3440360			●																						
		3441310				●	●																				
		3441410						●																			
		3441460							●																		
		3441469								●																	
coolant system		3351999	●	●	●	●	●	●	●	●	●	●	●	L	L	L	L	L	L	L	L	L	L	L	L	L	L
position display	DRO 5	3383975			●	●	●	●	●	●																	

L - Included in scope of delivery	● Recommended	○ Recommended - restrictions apply

This equipment table covers all recommended equipment options. Depending on the individual case, use of accessories can be meaningful beyond this.

OPTIMUM Three-jaw lathe chuck

DIN 6350

CAST

OPTIMUM Three-jaw lathe chuck	Article no.
› **Centre clamping**	
› Cylindrical centring mount as per DIN 6350	
› Concentricity better than 0.05 mm	
› Chuck flange required see page 230	
Ø 80 mm	3440287
Block jaw set, soft, single-piece	3442902
Ø 100 mm	3442710
Block jaw set, soft, single-piece	3442904
Ø 125 mm	3442712
Block jaw set, soft, single-piece	3442906
Ø 160 mm	3442716
Block jaw set, soft, single-piece	3442907

Scope of delivery
› Single-piece hard jaws for outside-inside clamping
› Chuck key





DIN 55029

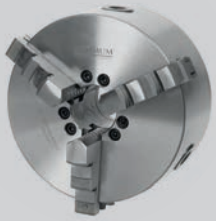
CAST

Camlock

OPTIMUM® Three-jaw lathe chuck	Article no.
› **centric clamping** DIN ISO 702- 2	
› DIN ISO 702- 2	
› Camlock direct mount DIN 55029	
Ø 160 mm Camlock No. 4	3442761
Block jaw set, soft, single-piece	3442907
Ø 200 mm Camlock No. 4	3442762
Block jaw set, soft, single-piece	3442910
Ø 200 mm Camlock No. 5	3442764
Block jaw set, soft, single-piece	3442910
Ø 200 mm Camlock No. 6	3442763
Block jaw set, soft, single-piece	3442910
Ø 250 mm Camlock No. 6	3442765
Block jaw set, soft, single-piece	3442912
Ø 315 mm Camlock No. 8	3442768
Block jaw set, soft, single-piece	3442916

Scope of delivery
› Single-piece hard jaws for outside-inside clamping
› Chuck key





OPTIMUM Four-jaw lathe chucks

DIN 6350

CAST

OPTIMUM Four-jaw lathe chuck	Article no.
› **Centre clamping**	
› Cylindrical centring mount as per DIN 6350	
› Concentricity better than 0.05 mm	
› Chuck flange required see page 230	
Ø 80 mm	3442808
Block jaw set, soft, single-piece	3442920
Ø 100 mm	3442810
Block jaw set, soft, single-piece	3442922
Ø 125 mm	3442812
Block jaw set, soft, single-piece	3442924
Ø 160 mm	3442816
Block jaw set, soft, single-piece	3442926

OPTIMUM® Four-jaw lathe chuck	Article no.
› **individually clamping**	
Ø 80 mm	3440286
Ø 100 mm	3442872
Ø 125 mm	3442874

Scope of delivery
› Chuck key
Lathe chuck centrically clamping:
› Hard jaws, single-part, with outside-inside clamping
Lathe chuck single clamping:
› Set of hard reversible jaws



Technical data for Lathe chucks, see page 222 „Chuck flange“ on page 230

DIN 55029

CAST

Camlock

OPTIMUM® Four-jaw lathe chuck	Article no.
› **Centre clamping**	
› DIN ISO 702- 2	
› Camlock direct mount DIN 55029	
Ø 160 mm Camlock No. 4	3442840
Block jaw set, soft, single-piece	3442926
Ø 200 mm Camlock No. 4	3442843
Block jaw set, soft, single-piece	3442927
Ø 200 mm Camlock No. 5	3442845
Block jaw set, soft, single-piece	3442927
Ø 200 mm Camlock No. 6	3442846
Block jaw set, soft, single-piece	3442928
Ø 250 mm Camlock No. 6	3442852
Block jaw set, soft, single-piece	3442935
Ø 315 mm Camlock No. 8	3442856
Block jaw set, soft, single-piece	3442938

OPTIMUM® Four-jaw lathe chuck	Article no.
› **individually clamping**	
Ø 200 mm Camlock No. 4	3442879
Ø 200 mm Camlock No. 5	3442880
Ø 250 mm Camlock No. 6	3442884
Ø 315 mm Camlock No. 8	3442888
Ø 400 mm Camlock No. 8	3442890

Scope of delivery
› Chuck key
Lathe chuck centrically clamping:
› Hard jaws, single-part, with outside-inside clamping
Lathe chuck single clamping:
› Set of hard reversible jaws



Three-jaw lathe chuck

DIN 6350

CAST

BISON Three-jaw lathe chuck	Article no.
› **Centre clamping**	
› All work surfaces induction hardened and ground	
› Permanently high clamping and repeating accuracy	
› Uniform clamping forces	
› High true running accuracy (better than DIN 6386)	
Ø 125 mm	3450230
Block jaw set, soft	3450410
Ø 160 mm	3450232
Block jaw set, soft	3450412

STEEL

BISON Three-jaw lathe chuck	Article no.
› **Centre clamping**	
Ø 250 mm	3450530
Block jaw set, soft	3450426

Scope of delivery
› Single-piece hard jaws for outside-inside clamping
› Chuck key



DIN 55029

CAST

Camlock

BISON Three-jaw lathe chuck	Article no.
› **Centre clamping**	
› DIN ISO 702- 2	
› All work surfaces induction hardened and ground	
› Camlock direct mount DIN 55029	
› High true running accuracy (better than DIN 6386)	
Ø 160 mm Camlock No. 4	3450305
Block jaw set, soft	3450412
Ø 200 mm Camlock No. 4	3450310
Block jaw set, soft	3450414
Ø 200 mm Camlock No. 5	3450315
Block jaw set, soft	3450414
Ø 200 mm Camlock No. 6	3450320
Block jaw set, soft	3450414
Ø 200 mm DIN 6350 A2-5	3450210
Block jaw set, soft	3450414
Ø 250 mm Camlock No. 5	3450325
Block jaw set, soft	3450416
Ø 250 mm Camlock No. 6	3450330
Block jaw set, soft	3450416
Ø 250 mm Camlock No. 8	3450331
Block jaw set, soft	3450416
Ø 315 mm Camlock No. 8	3450335
Block jaw set, soft	3450418

Scope of delivery
› Hard jaws, single-part, with outside-inside clamping
› Chuck key

Four-jaw lathe chucks

DIN 6350

CAST

BISON Four-jaw lathe chuck	Article no.
› **Centre clamping**	
› All work surfaces induction hardened and ground to ensure a high level of clamping and repeating accuracy	
› Uniform clamping forces	
› High true running accuracy (better than DIN 6386)	
Ø 125 mm	3450234
Block jaw set, soft	3450420
Ø 160 mm	3450236
Block jaw set, soft	3450422

Scope of delivery
› Single-piece hard jaws for outside-inside clamping
› Chuck key





Chuck flange	Article no.
Ø 125 mm for three- and four-jaw lathe chucks Ø 125 mm	3450240
Ø 160 mm for three- and four-jaw lathe chucks Ø 160 mm	3450241
Ø 200 mm for three- and four-jaw lathe chucks Ø 200 mm	3450212
Ø 250 mm for three- and four-jaw lathe chucks Ø 250 mm	3450218

Technical data for Lathe chucks, see page 223

DIN 55029

CAST

Camlock

BISON Four-jaw lathe chucks	Article no.
› **Centre clamping**	
› DIN ISO 702- 2	
Ø 160 mm Camlock No. 4	3450355
Block jaw set, soft	3450422
Ø 200 mm Camlock No. 4	3450360
Block jaw set, soft	3450424
Ø 200 mm Camlock No. 5	3450365
Block jaw set, soft	3450424
Ø 200 mm Camlock No. 6	3450370
Block jaw set, soft	3450424
Ø 250 mm DIN 6350 A2-5	3450216
Block jaw set, soft	3450426
Ø 250 mm Camlock No. 5	3450375
Block jaw set, soft	3450426
Ø 250 mm Camlock No. 6	3450380
Block jaw set, soft	3450426
Ø 250 mm Camlock No. 8	3450381
Block jaw set, soft	3450426
Ø 315 mm Camlock No. 8	3450385
Block jaw set, soft	3450428
Ø 400 mm Camlock No. 8	3450390
Block jaw set, soft	3450430

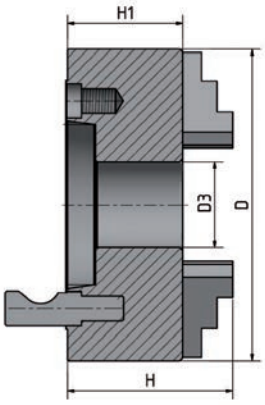
STEEL

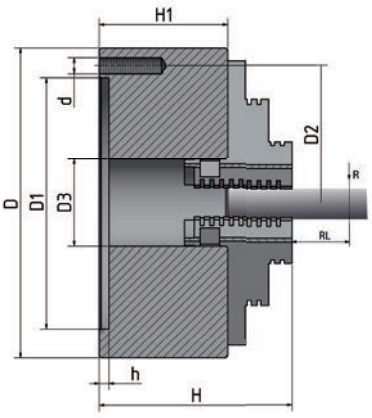
BISON Four-jaw lathe chucks	Article no.
› **Centre clamping**	
Ø 250 mm Camlock No. 6	3450580
Block jaw set, soft	3450426
Ø 250 mm DIN 6350 A2-5	3450217
Block jaw set, soft	3450426

Scope of delivery
› Hard jaws, single-part, with outside-inside clamping
› Chuck key

OPTIMUM

Three-jaw lathe chuck

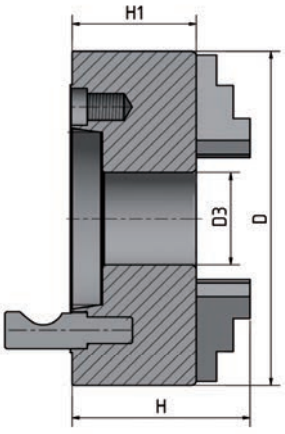


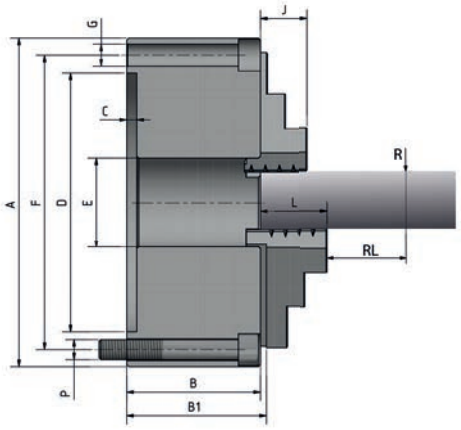


Chuck	Article no.	D	D1	D2	D3	d	H	H1	h	RL	True running accuracy (R)	Speed (rpm)
Ø 80 mm	3440287	80	55	66	16	M6	66	50	3.5	50	0.06	4 000
Ø 100 mm	3442710	100	72	84	22	M8	75	55	3.5	50	0.06	4 200
Ø 125 mm	3442712	125	95	108	30	M8	84	58	4	50	0.06	3 800
Ø 160 mm	3442716	160	130	142	45	M8	95	65	5	50	0.06	3 000

Chuck	Camlock	Item No.	D	D3	H	H1	Indexing circle	RL	True running accuracy (R)	Speed (rpm)
Ø 160 mm	No.4	3442761	160	40	101	71	82.6	50	0.06	3 000
Ø 200 mm	No.4	3442762	200	50	124	86	82.6	50	0.06	3 000
Ø 200 mm	No.5	3442764	200	52	124	86	104.8	50	0.06	3 000
Ø 200 mm	No.6	3442763	200	65	128	86	133.4	50	0.06	3 000
Ø 250 mm	No.6	3442765	250	70	140	98	133.4	50	0.06	2 400
Ø 315 mm	No.8	3442768	315	105	180	102.5	171.4	75	0.01	1 800

Three-jaw lathe chuck





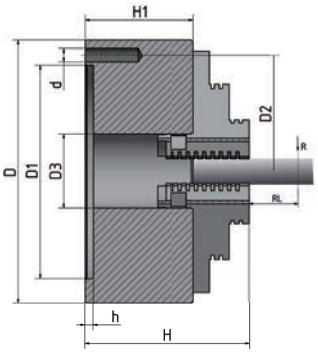
Chuck	Camlock	Item No.	D	D3	H1	H	Indexing circle	RL	True running accuracy (R)	Speed (rpm)
Ø 160 mm	No.4	3450305	160	42	81.5	124.5	82.6	60	0.03	3 600
Ø 200 mm	No.4	3450310	200	56	107	136	82.6	80	0.04	3 000
Ø 200 mm	No.5	3450315	200	56	107	136	104.8	80	0.04	3 000
Ø 200 mm	No.6	3450320	200	55	91	136	133.4	80	0.04	3 000
Ø 250 mm	No.5	3450325	250	76	103.5	156.5	104.8	80	0.04	2 500
Ø 250 mm	No.6	3450330	250	76	103.5	156.5	133.4	80	0.04	2 500
Ø 250 mm	No.8	3450331	250	76	103.5	156.5	171.4	80	0.04	2 500
Ø 315 mm	No.8	3450335	315	103	117.7	174.7	171.4	120	0.05	2 000

Chuck	Article no.	B	B1	C	D	E	F	G	J	L	kg	Speed (rpm)
Ø 125 mm	3450230	56	60.8	4	95	32	108	3 x M8	20	40	5	4 000
Ø 160 mm	3450232	64.5	69.3	4	125	42	140	3 x M10	32	43	10	3 600

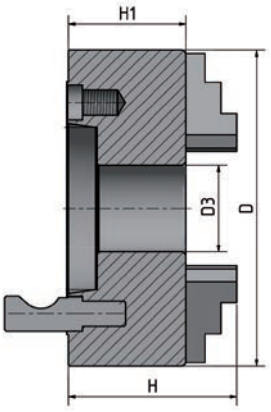
OPTIMUM

Four-jaw lathe chuck

Chuck	Article no.	D	D1	D2	D3	d	H	H1	h	Speed (rpm)
Centre clamping										
Ø 80 mm	3442808	80	55	66	16	M6	66	50	3.5	4 300
Ø 100 mm	3442810	100	72	84	22	M8	75	55	3.5	3 400
Ø 125 mm	3442812	125	95	108	30	M8	84	58	4	2 750
Ø 160 mm	3442816	160	130	142	45	M8	95	65	5	2 150
individually clamping										
Ø 80 mm	3440286	80	55	66	22	M6	59	42	4	4 800
Ø 100 mm	3442872	100	72	84	25	M8	75	54	4	3 500
Ø 125 mm	3442874	125	95	108	30	M8	78	58	6	3 000

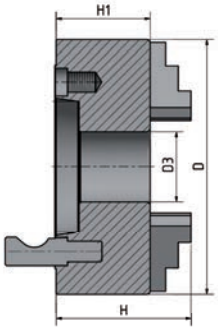


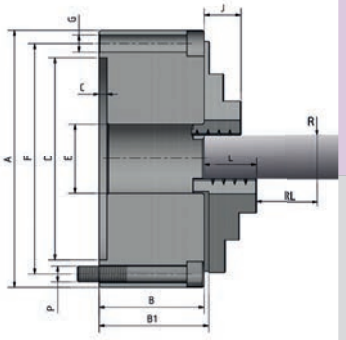
Chuck	Camlock	Item No.	D	D3	H	H1	RL	True running accuracy (R)	Indexing circle	Speed (rpm)
Camlock centre clamping										
Ø 160 mm	No.4	3442840	160	40	95	71	50	0.06	82.6	2 150
Ø 200 mm	No.4	3442843	200	50	109	86	50	0.06	82.6	3 000
Ø 200 mm	No.5	3442845	200	52	109	86	50	0.06	104.8	3 000
Ø 200 mm	No.6	3442846	200	65	109	86	50	0.06	133.4	3 000
Ø 250 mm	No.6	3442852	250	70	120	98	50	0.06	133.4	2 400
Ø 315 mm	No.8	3442856	315	105	142.5	102.5	75	0.01	171.4	1 800
Camlock individual clamping										
Ø 200 mm	No.4	3442879	200	56	107	75	50	0.06	82.6	2 100
Ø 200 mm	No.5	3442880	200	56	107	75	50	0.06	104.8	2 100
Ø 250 mm	No.6	3442884	250	100	120	80	50	0.06	133.4	1 600
Ø 315 mm	No.8	3442888	320	95	134	100	75	0.01	171.4	1 200
Ø 400 mm	No.8	3442890	400	125	148	101	75	0.01	171.4	1 000



Four-jaw lathe chuck

Chuck	Camlock	Item No.	D	D3	H1	H	RL	True running accuracy (R)	Indexing circle	Speed (rpm)
Centre clamping										
Ø 160 mm	No.4	3450355	160	42	81.5	124.5	60	0.03	82.6	3 600
Ø 200 mm	No.4	3450360	200	55	91	136	80	0.04	82.6	3 000
Ø 200 mm	No.5	3450365	200	55	91	136	80	0.04	104.8	3 000
Ø 200 mm	No.6	3450370	200	55	91	136	80	0.04	133.4	3 000
Ø 250 mm	No.5	3450375	250	76	103.5	156.5	80	0.04	104.8	2 500
Ø 250 mm	No.6	3450380	250	76	103.5	156.5	80	0.04	133.4	2 500
Ø 250 mm	No.8	3450381	250	76	103.5	156.5	80	0.04	171.4	2 500
Ø 315 mm	No.8	3450385	315	103	117.7	174.7	120	0.05	171.4	2 000
Ø 400 mm	No.8	3450390	400	136	128.5	207.5	120	0.06	171.4	1 600





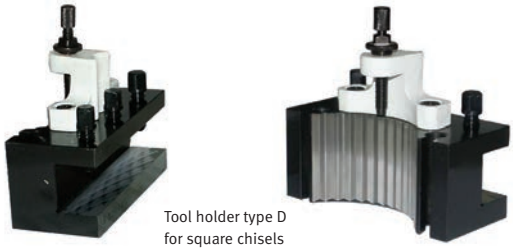
Chuck	Article no.	B	B1	C	H7	E	F	G	J	L	kg	Speed (rpm)
Ø 125 mm	3450234	56	60.8	4	95	32	108	3 x M8	20	40	5	4 000
Ø 160 mm	3450236	64.5	69.3	4	125	42	140	3 x M10	32	43	10	3 600
Ø 250 mm	3450216	75	79.8	4	160	55	176	6 x M10	29	45	17.5	2 500
Ø 250 mm	3450217	75	79.8	4	160	55	176	6 x M10	29	45	17.5	3 500

Quick change tool holder

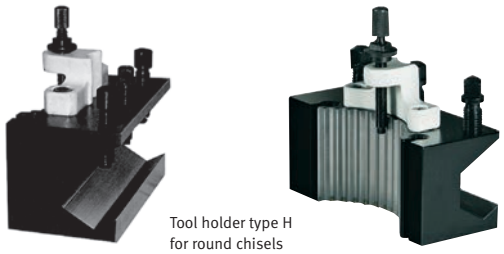
Quick change tool holder	Article no.
› Repeating accuracy 0.01 mm · angle scale on tool holder head	
› 40 different angle settings · Height adjustment via knurled screw	
› Tool holder head and tool holder with profile ground gears	
› Play-free and repetition-accurate clamping of the change holder	
› For self-assembly or chargeable factory assembly	
Quick change tool holder set SWH AA	3384311
› Tool holder head AA	
› 3 units tool holder 12 x 50 type D for square chisels	
› 1 unit tool holder 12 x 50 type H for round chisels	
Spare tool holder 12 x 50 type D forsquare chisels	3384312
Spare tool holder 12 x 50 type Hfor round chisels	3384320
Quick change tool holder set SWH 1-A	3384301
› Tool holder head A	
› 3 units tool holder 20 x 90 type D for square chisels	
› 1 unit tool holder 20 x 85 type H for round chisels	
Spare tool holder 20 x 90 type D forsquare chisels	3384302
Spare tool holder 20 x 85 type Hfor round chisels	3384321
Quick change tool holder set SWH 3-E	3384303
› Tool holder head E	
› 3 units tool holder 20 x 100 type D for square chisels	
› 1 unit tool holder 30 x 100 type H for round chisels	
Spare tool holder 20 x 100 type D forsquare chisels	3384304
Spare tool holder 30 x 100 type Hfor round chisels	3384322
Quick change tool holder set SWH 5-B	3384305
› Tool holder head B	
› 3 units tool holder 25 x 120 type D for square chisels	
› 1 unit tool holder 32 x 130 type H for round chisels	
Spare tool holder 25 x 120 type D forsquare chisels	3384306
Spare tool holder 32 x 130 type Hfor round chisels	3384324
Quick change tool holder set SWH 7-C	3384307
› Tool holder head C	
› 3 units tool holder 32 x 150 type D for square chisels	
› 1 unit tool holder 40 x 160 type H for round chisels	
Spare tool holder 32 x 150 type D forsquare chisels	3384308
Spare tool holder 40 x 160 type Hfor round chisels	3384326
Quick change tool holder set SWH 9-D	3384309
› Tool holder head D	
› 3 units tool holder 40 x 180 type D for square chisels	
› 1 unit tool holder 63 x 180 type H for round chisels	
Spare tool holder 40 x 180 type D for square chisels	3384332
Spare tool holder 63 x 180 type H for round chisels	3384333
Factory assembly and adjustment SWH	
› Only with orders for new machines	
for **SWH AA / SWH 1-A**	9000401
for **SWH 3-E to SWH 9D**	9000400



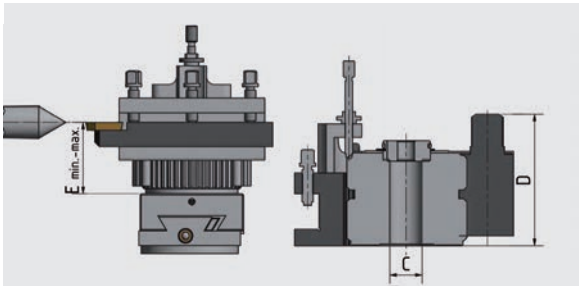
Tool holder head

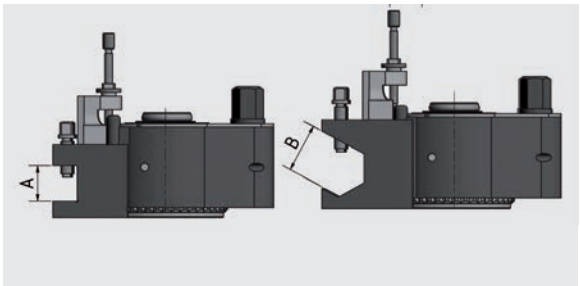


Tool holder type D
for square chisels



Tool holder type H
for round chisels

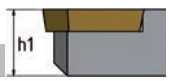




Tool holder head dimensions			SWH AA	SWH 1-A	SWH 3-E	SWH 5-B	SWH 7-C	SWH 9-D
Turning diameter		mm	120 - 220	150 - 300	200 - 400	300 - 500	400 - 700	600 - 800
Drive output lathe max.		kW	1	2	4.5	7	13	20
Support width square chisel max.	A	mm	12	20	20	25	32	40
Diameter round chisel max.	B	mm	Ø 12	Ø 20	Ø 20	Ø 25	Ø 32	Ø 40
Normal hole	C	mm	Ø 13	Ø 20	Ø 20	Ø 32	Ø 40	Ø 40
Height of base body/overall	D	mm	37	56	68	79	110	122
Height top carriage to lathe centre	E	mm	18 - 26	28.5 - 39.5	28.5 - 39.5	37 - 57	47 - 87	60 - 95

Lathe tool set HM 8 mm

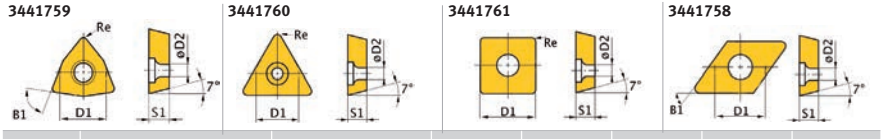
Lathe tool set	Article no.
HM 8 mm	3441662
› 5-part	
› With HM turning plates	
› TiN coated	
› Aluminium box	



	ISO			
1	SWGC	L0808	D05	8 mm
2	SSDC	N0808	D06	8 mm
3	SWGC	R0808	D05	8 mm
4	STGC	R0808	D09	8 mm
5	SDJC	R0808	D07	8 mm



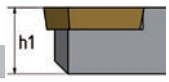
Carbide replacement indexing inserts (5 pcs. each)



No.	Article no.	ISO	D1	D2	B1	S1	right
1/3	3441759	WCMT050308	7.94	3.2	80°	3.18	0.8
2	3441761	SCMT060204	6.35	2.8	90°	2.38	0.4
4	3441760	TCMT090204	5.56	2.5	60°	2.38	0.4
5	3441758	DCMT070204	6.35	2.8	55°	2.38	0.4

Lathe tool set HM 10 mm

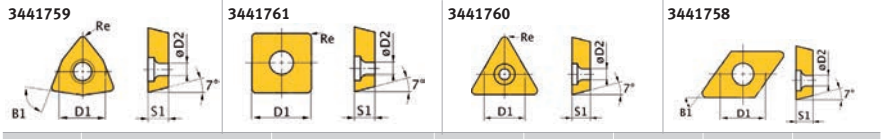
Lathe tool set	Article no.
HM 10 mm	3441664
› 5-part	
› With HM turning plates	
› TiN coated	
› Aluminium box	



	ISO			
1	SWGC	L1010	E05	10 mm
2	SSDC	N1010	E06	10 mm
3	SWGC	R1010	E05	10 mm
4	STGC	R1010	E09	10 mm
5	SDJC	R1010	E07	10 mm



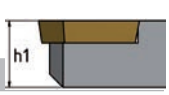
Carbide replacement indexing inserts (5 pcs. each)



No.	Article no.	ISO	D1	D2	B1	S1	right
1/3	3441759	WCMT050308	7.94	3.2	80°	3.18	0.8
2	3441761	SCMT060204	6.35	2.8	90°	2.38	0.4
4	3441760	TCMT090204	5.56	2.5	60°	2.38	0.4
5	3441758	DCMT070204	6.35	2.8	55°	2.38	0.4

Lathe tool set HM 12 mm

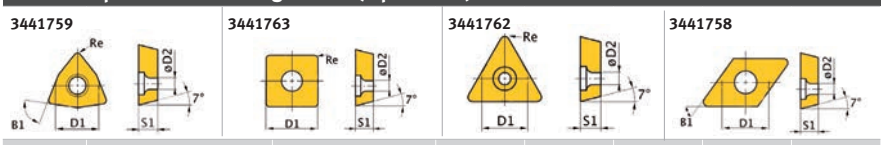
Lathe tool set	Article no.
HM 12 mm	3441666
› 5-part	
› With HM turning plates	
› TiN coated	
› Aluminium box	



	ISO			
1	SWGC	L1212	H 05	12 mm
2	SSDC	N1212	H 09	12 mm
3	SWGC	R1212	H 05	12 mm
4	STGC	R1212	H 11	12 mm
5	SDJC	R1212	H 07	12 mm



Carbide replacement indexing inserts (5 pcs. each)



No.	Article no.	ISO	D1	D2	B1	S1	right
1/3	3441759	WCMT050308	7.94	3.2	80°	3.18	0.8
2	3441763	SCMT09T304	9.525	4.4	90°	3.97	0.4
4	3441762	TCMT110204	6.35	2.8	60°	2.38	0.4
5	3441758	DCMT070204	6.35	2.8	55°	2.38	0.4

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Lathe tool set HM 12 mm

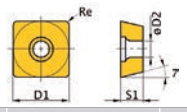
Lathe tool set	Article no.
HM 12 mm	3441212
› 5-part	
› With HM turning plates	
› TiN coated	



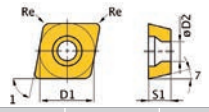
	ISO	h1	Art.no.
1	SSSC R1212 J09	12 mm	3441220
2	SCLC R1212 J09	12 mm	3441221
3	SDNC N1212 J11	12 mm	3441222
4	SDJC R1212 J11	12 mm	3441223
5	SDJC L1212 J11	12 mm	3441224

Carbide replacement indexing inserts (5 pcs. each)

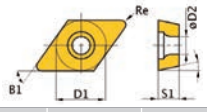
3441280



3441282



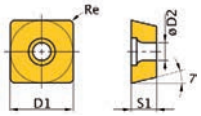
3441281



No.	Article no.	ISO	D1	D2	B1	S1	right
1	3441280	SCMT09T304	9.525	4.4	90°	3.97	0.4
2	3441282	CCMT09T304	9.525	4.4	80°	3.97	0.4
3-5	3441281	DCMT11T304	9.525	4.4	55°	3.97	0.4

Lathe tool 12 mm	Article no.
SSSC L1212J09	3441225
HM replacement turning plates(5 pcs. each)	3441280

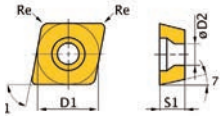
SCMT09T304	9.525	4.4	90°	3.97	0.4	





Lathe tool 12 mm	Article no.
SCLC L1212J09	3441226
HM replacement turning plates (5 pcs. each)	3441282

CCMT09T304	9.525	4.4	80°	3.97	0.4	





Lathe tool set HM 16 mm

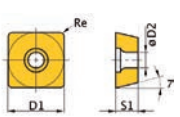
Lathe tool set	Article no.
HM 16 mm	3441216
› 5-part	
› With HM turning plates	
› TiN coated	



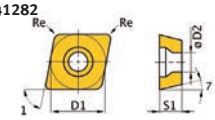
	ISO	h1	Article no.
1	SSSC R1616 J09	16 mm	3441230
2	SCLC R1616 J09	16 mm	3441231
3	SDNC N1616 J11	16 mm	3441232
4	SDJC R1616 J11	16 mm	3441233
5	SDJC L1616 J11	16 mm	3441234

Carbide replacement indexing inserts (5 pcs. each)

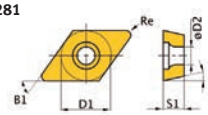
3441280



3441282



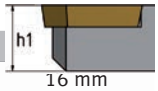
3441281



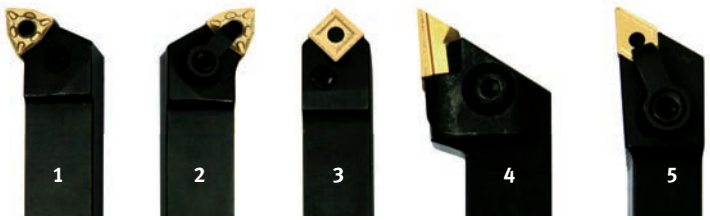
No.	Article no.	ISO	D1	D2	B1	S1	right
1	3441280	SCMT09T304	9.525	4.4	90°	3.97	0.4
2	3441282	CCMT09T304	9.525	4.4	80°	3.97	0.4
3-5	3441281	DCMT11T304	9.525	4.4	55°	3.97	0.4

Lathe tool set
HM 16 mm

Lathe tool set	Article no.
HM 16 mm	3441668
› 5-part	
› With HM turning plates	
› TiN coated	
› Aluminium box	

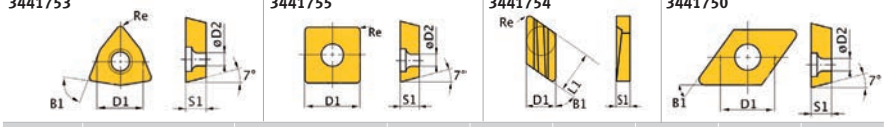


	ISO			
1	PWLN	R1616	H06	16 mm
2	PWLN	L1616	H06	16 mm
3	PSDNN	1616	H09	16 mm
4	CKJN	R1616	H16	16 mm
5	MDJN	R1616	H11	16 mm



Carbide replacement indexing inserts (5 pcs. each)

3441753 | 3441755 | 3441754 | 3441750



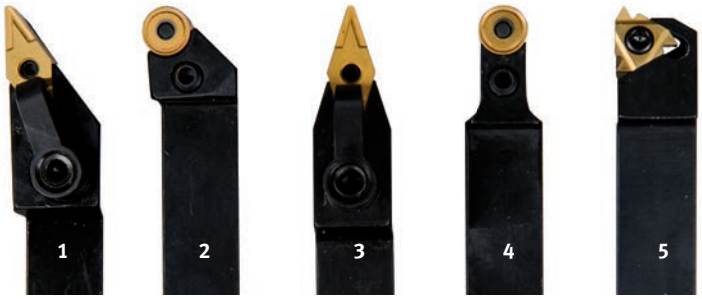
No.	Article no.	ISO	D1	D2	B1	S1	right	L1
1/2	3441753	WNMG060408	9.252	3.81	80°	4.76	0.8	-
3	3441755	SNMG090304	9.252	3.81	90°	3.18	0.4	-
4	3441754	KNUX160405R	9.252		55°	4.76	0.5	16.15
5	3441750	DNMG110408	9.525	3.81	55°	4.76	0.8	-

Lathe tool set
HM 16 mm

Lathe tool set	Article no.
HM 16 mm	3441610
› 5-part	
› With HM turning plates	
› TiN coated	
› Aluminium box	

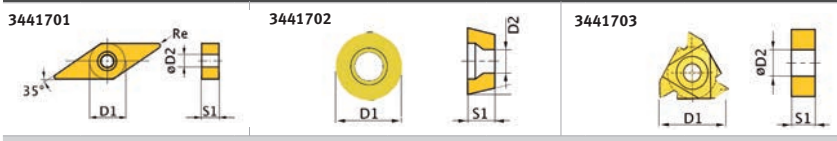


	ISO			
1	MVJNR	1616	H16	16 mm
2	MVVNN	1616	H16	16 mm
3	PRANN	1616	H10	16 mm
4	PRGNR	1616	H10	16 mm
5	SER	1616	H16	16 mm



Carbide replacement indexing inserts (5 pcs. each)

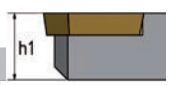
3441701 | 3441702 | 3441703



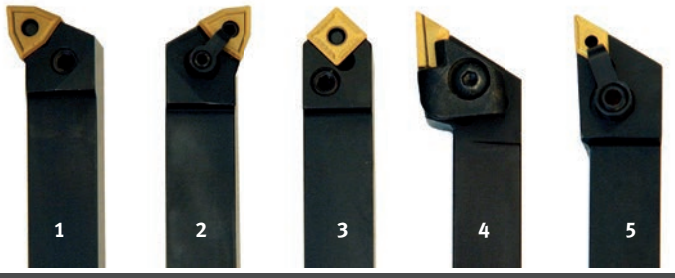
No.	Article no.	ISO	D1	D2	B1	S1	right
1/2	3441701	VNMG160408	9.525	3.81	35°	4.76	0.8
3/4	3441702	RNMG1003MO	10	3.6	-	3.97	-
5	3441703	16ER AG60	16	3.95	60°	3.65	-

Lathe tool set
HM 20 mm

Lathe tool set	Article no.
HM 20 mm	3441670
› 5-part	
› With HM turning plates	
› TiN coated	
› Aluminium box	

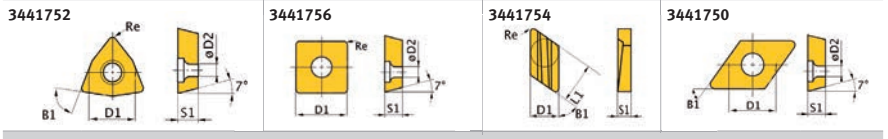


	ISO			
1	PWLN	R2020	K08	20 mm
2	PWLN	L2020	K08	20 mm
3	PSDN	N2020	K12	20 mm
4	CKJN	R2020	K16	20 mm
5	MDJN	R2020	K11	20 mm



Carbide replacement indexing inserts (5 pcs. each)

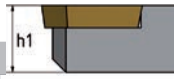
3441752 | 3441756 | 3441754 | 3441750



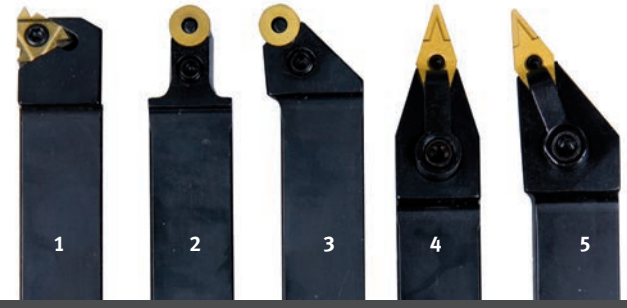
No.	Article no.	ISO	D1	D2	B1	S1	right	L1
1/2	3441752	WNMG080408	9.252	3.81	80°	4.76	0.8	-
3	3441756	SNMG120408	12.7	5.16	90°	4.76	0.8	-
4	3441754	KNUX160405R	9.252		55°	4.76	0.5	16.15
5	3441750	DNMG110408	9.525	3.81	55°	4.76	0.8	-

Lathe tool set HM 20 mm

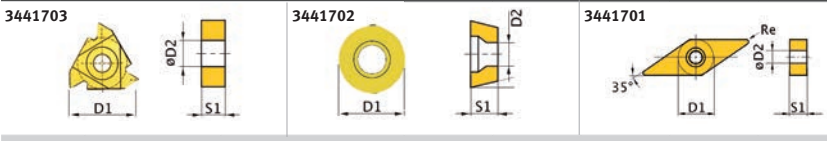
Lathe tool set	Article no.
HM 20 mm	3441617
› 5-part	
› With HM turning plates	
› TiN coated	
› Aluminium box	



	ISO			
1	SER	2020	K16	20 mm
2	PRGNR	2020	K10	20 mm
3	PRANN	2020	K10	20 mm
4	MVVNN	2020	K16	20 mm
5	MVJNR	2020	K16	20 mm



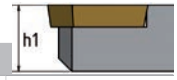
Carbide replacement indexing inserts (5 pcs. each)



No.	Article no.	ISO	D1	D2	B1	S1	right
1	3441703	16ER AG60	16	3.95	60°	3.65	-
2/3	3441702	RNMG1003MO	10	3.6	-	3.97	-
4/5	3441701	VNMG160408	9 525	3.81	35°	4.76	0.8

Lathe tool set HM 25 mm

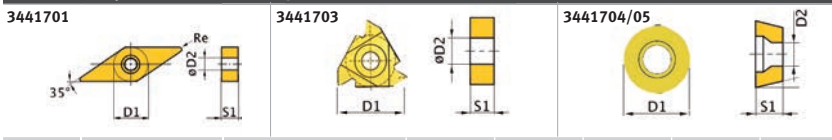
Lathe tool set	Article no.
HM 25 mm	3441623
› 5-part	
› With HM turning plates	
› TiN coated	
› Aluminium box	



	ISO			
1	MVVN	N2525	M16	25 mm
2	SE	R2525	M16	25 mm
3	PRGN	R2525	M12	25 mm
4	PRAN	N2525	M16	25 mm
5	MVJN	R2525	M16	25 mm



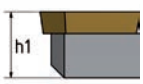
Carbide replacement indexing inserts (5 pcs. each)



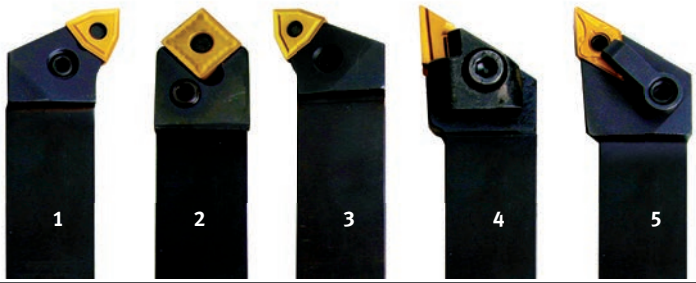
No.	Article no.	ISO	D1	D2	B1	S1	right
1/2	3441701	VNMG160408	9 525	3.81	35°	4.76	0.8
3	3441703	16ER AG60	16	3.95	60°	3.65	-
4	3441705	RNMG1204MO	12	4.75	R	5.1	-
5	3441704	RNMG1605MO	16	5.4	R	6.3	-

Lathe tool set HM 25 mm

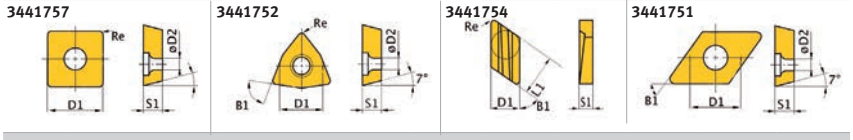
Lathe tool set	Article no.
HM 25 mm	3441672
› 5-part	
› With HM turning plates	
› TiN coated	
› Aluminium box	



	ISO			
1	PWLN	L2525	M08	25 mm
2	PSDN	N2525	M15	25 mm
3	PWLN	R2525	M08	25 mm
4	CKJNR	R2525	M16	25 mm
5	MDJN	R2525	M15	25 mm



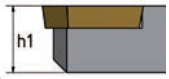
Carbide replacement indexing inserts (5 pcs. each)



No.	Article no.	ISO	D1	D2	B1	S1	right	L1
1/2	3441752	WNMG080408	9.252	3.81	80°	4.76	0.8	-
3	3441757	SNMG150608	15.875	06.35	90°	6.35	0.8	-
4	3441754	KNUX160405R	9.252	-	55°	4.76	0.5	16.15
5	3441751	DNMG150408	12.7	5.16	55°	4.76	0.8	-

Lathe tool set HM 32 mm

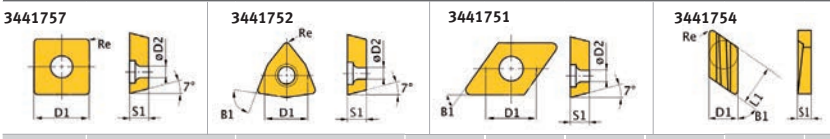
Lathe tool set	Article no.
HM 32 mm	3441674
› 5-part	
› With HM turning plates	
› TiN coated	
› Aluminium box	



	ISO			
1	PWLN	L3232	P08	32 mm
2	PSDN	N3232	P15	32 mm
3	PWLN	R3232	P08	32 mm
4	CKJN	R3232	P16	32 mm
5	MDJN	R3232	P15	32 mm



Carbide replacement indexing inserts (5 pcs. each)



No.	Article no.	ISO	D1	D2	B1	S1	right	L1
1/3	3441752	WNMG080408	9.252	3.81	80°	4.76	0.8	-
2	3441757	SNMG150608	15 875	06.35	90°	06:35	0.8	-
4	3441754	KNUX160405R	9.252	-	55°	4.76	0.5	16.15
3	3441751	DNMG150408	12.7	5.16	55°	4.76	0.8	-

Inside turning tool set 10 mm

Inside turning tool set	Article no.
10 mm	3441640
› 3-part	
› With carbide indexing inserts, TIN-coated	
› Aluminium box	



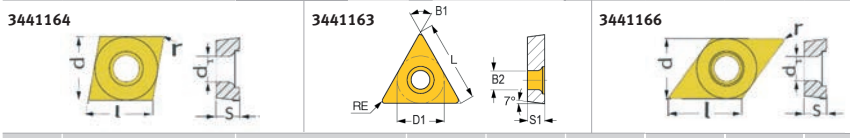


No.	10 mm	10 mm		
1	S10K	S12M	SCFCR	06
2	S10K	S12M	SDQCR	07
3	S10K	S12M	STFCR	11

Inside turning tool set 12 mm

Inside turning tool set	Article no.
12 mm	3441641
› 3-part	
› With carbide indexing inserts, TIN-coated	
› Aluminium box	

HM replacement turning plates(5 pcs. each)



No.	Article no.	ISO		l	s	R	d	d1
1	3441164	CCMT060204	C/80°	6.35	2.60	0.40	6.35	2.70
2	3441163	TCMT110204	T/60°	10.84	2.53	0.40	9.1	2.70
3	3441166	DCMT070204	D/55°	7.30	2.53	0.40	6.35	2.70

Inside thread turning tool set 8 - 20 mm

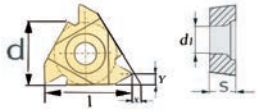
Inside thread turning tool	Article no.
8 - 20 mm	3441650
› 5-part (8/10/12/16/20 mm)	
› With HM turning plates	
› TiN coated	
› Aluminium box	

No.	ISO			d
1	S10K	SIR 0008	H08	8 mm
2	S10K	SIR 0010	K11	10 mm
3	S10K	SIR 0012	M11	12 mm
4	S10K	SIR 0016	P16	16 mm
5	S10K	SIR 0020	S16	20 mm





Carbide replacement indexing inserts (5 pcs. each)



No.	Article no.	ISO		l	s	R	d	d1
1	3441725	08IR A60	60° IR	8	2.22	4.76	2.5	M10
2/3	3441726	11IR A60	60° IR	11	3.22	6.35	3.0	M12
4/5	3441727	16IR A60	60° IR	16	3.65	9.5	3.95	M16

Lathe tool set
8 / 10 / 12 / 16 mm

Accessories	Article no.
Lathe tool set 8 mm	3441601
11-part . With carbice plates soldered on	
Lathe tool set 10 mm	3441602
11-part . With carbice plates soldered on	
Lathe tool set 12 mm	3441603
11-part . With carbice plates soldered on	
Lathe tool set 16 mm	3441604
11-part . With carbice plates soldered on	



Clamping disc	Article no.
Ø 170 mm for TU 2004V/TU 2304	3440295
Ø 240 mm for TU 2406	3440552
Ø 240 mm for TU 2506	3441352
Ø 265 mm for TU 2807	3441452
Ø 300 mm Camlock DIN ISO 702-2 No. 4	3442976
Ø 320 mm A 2-5	3442979
Ø 330 mm Camlock DIN ISO 702-2 No. 5	3442978
Ø 350 mm Camlock DIN ISO 702-2 No. 6	3442980
Ø 480 mm Camlock DIN ISO 702-2 No. 8	3442982



Collet chuck	Article no.
ER 16 Ø 22 mm	3440281
› **cylindrical** for TU 1503V	
ER 25 Ø 72 mm	3440305
› **cylindrical** for TU 2004V / TU 2304	
ER 25 Ø 52 mm	3440505
› **cylindrical** for TU 2406	
ER 32 Ø 52 mm	3440506
› **cylindrical** for TU 2406	
ER 25 Ø 52 mm	3441305
› **cylindrical** for TU 2506 / TU 2807	
ER 32 Ø 52 mm	3441306
› **Short taper** for TU 2506 / TU 2807	



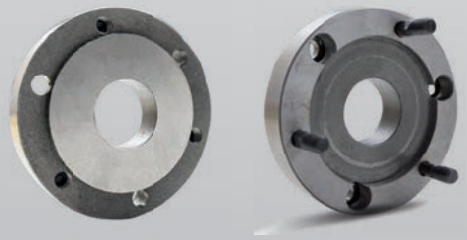
NEU

Lathe chuck key	Article no.
10 mm (L x B 190 x 155 mm)	3442960
11 mm (L x B 190 x 155 mm)	3442961
12 mm (L x B 240 x 260 mm)	3442962
13 mm (L x B 240 x 260 mm)	3442963
14 mm (L x W 240 x 260 mm)	3442964



Chuck flange	Article no.
› For lathe chuck assembly	
Ø 160 mm Camlock DIN ISO 702-2 No. 4	3441512
› for four-jaw lathe chucks Ø 160 mm	
Ø 200 mm Camlock DIN ISO 702-2 No. 4	3441513
› for four-jaw lathe chucks Ø 200 mm	
Ø 200 mm Camlock DIN ISO 702-2 No. 5	3441514
› for four-jaw lathe chucks Ø 200 mm	
Ø 200 mm Camlock DIN ISO 702-2 No. 6	3444012
› for four-jaw lathe chucks Ø 200 mm	
Ø 250 mm Camlock DIN ISO 702-2 No. 6	3444013
› for four-jaw lathe chucks Ø 250 mm	
Ø 315 mm Camlock DIN ISO 702-2 No. 8	3444041
› for three- and four-jaw lathe chucks Ø 315 mm	

Chuck flange	Article no.
› For lathe chuck assembly	
Ø 100 mm	3440312
› cylindrical for TU 2004V	
Ø 125 mm	3440313
› cylindrical for TU 2304	
Ø 125 mm	3440511
› cylindrical for TU 2406	
Ø 125 mm	3441312
› Short taper for TU 2506 / TU 2807	
Ø 160 mm	3441413
› Short taper for TU 2807	



Accessories	Article no.
Clamping block set 16-05	3440653

Lathes: TU 3008 / TH 3309 / TH 3610

› 1 unit clamping block SLTBN 16-05
› 1 each parting-off turning tool SLIH 26-2 / SLIH 26-3
› 5 pcs. cutting inserts GTN2 (cutting width 2.2 mm)
› 5 pcs. cutting inserts GTN3 (cutting width 3.1 mm)
› Aluminium box

Clamping block set 20-05	3440654

Lathes: TH 4010 / TH 4210 / TH 46 / TH 56

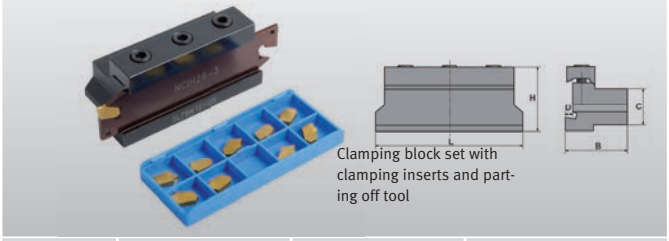
› 1 unit clamping block SLTBN 20-05
› 1 each parting-off turning tool SLIH 26-3 / SLIH 26-4
› 5 pcs. cutting inserts GTN3 (cutting width 3.1 mm)
› 5 pcs. cutting inserts GTN4 (cutting width 4.1 mm)
› Aluminium box

Clamping block set 25-05	3440655

For the lathes: TH 66 / TH 80

› 1 unit clamping block SLTBN 25-05
› 1 each parting-off turning tool SLIH 26-3 / SLIH 26-4
› 5 pcs. cutting inserts GTN3 (cutting width 3.1 mm)
› 5 pcs. cutting inserts GTN4 (cutting width 4.1 mm)
› Aluminium box

Replacement cutting insert set (10 pcs.)	Article no.
for cutting inserts **GTN 2**	3440663
for cutting inserts **GTN 3**	3440664
for cutting inserts **GTN 4**	3440665



Clamping block set with clamping inserts and parting off tool

Clamping block	16-05	20-05	25-05
L x W x H	88 x 38 x 42 mm	88 x 38 x 43 mm	100 x 42 x 43.5 mm
C	16 mm	20 mm	25 mm
D	4 mm	5 mm	5 mm

Centre drill set	3203010

› As per DIN 333 shape A
› 10-part: 0.75/1/1.5/1.6/2/2.5/3/3.15/4/5 mm
› Right-hand cutting tapered grinding edge 120°
› Centre drill angle 60°
› High speed steel top quality for tensile strength up to approx. 750 N/mm 2
› Powerful shank, also well suited for predrilling and expansion drilling with a twist drill bit
› Practical OPTIMUM plastic case

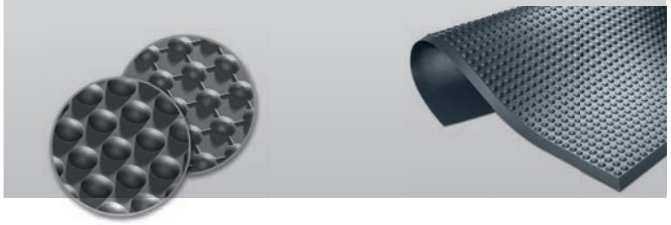


Workplace mats – for dry and wet areas	Article no.

MADE IN GERMANY

› Fire retardant
› Made of polyurethane on polyether basis
› Surface: nubbed and underside nubbed: for maximum standing comfort and slip resistance
› 14 mm thickness
› Colour anthracite
› Temperature resistant -35°C to +95°C
› Fire classification B1 as per DIN 4102
› 5-year warranty

Work mat 1 840 x 640 mm	6800000
Work mat 1 840 x 940 mm	6800005
Work mat 3 040 x 640 mm	6800001
Work mat 3 040 x 940 mm	6800006



Hollow spindle stop	Article no.

› Optimum auxiliary tool suits virtually any lathe
› Worthwhile even for smallest batches
› Expensive tooling time can be reduced to a minimum
› Can be easily and quickly attached at any point of the hollow spindle

HSP 38	3444410
› Spindle Ø 35–42 mm	
HSP 52	3444415
› Spindle Ø 48–56 mm	
HSP 80	3444420
› Spindle Ø 76–84 mm	
HSP 105	3444425
› Spindle Ø 101–109 mm	



Collet chuck	Article no.

› for collets type 5C / 385E
› as per DIN 6341
› With spindle chuck as per DIN ISO 702- 2
› Concentricity 0.02 mm

5C - Camlock no. 4	3441554
5C - Camlock Nr. 5	3441555
5C - Camlock no. 6	3441556
5C - Camlock no. 8	3441558

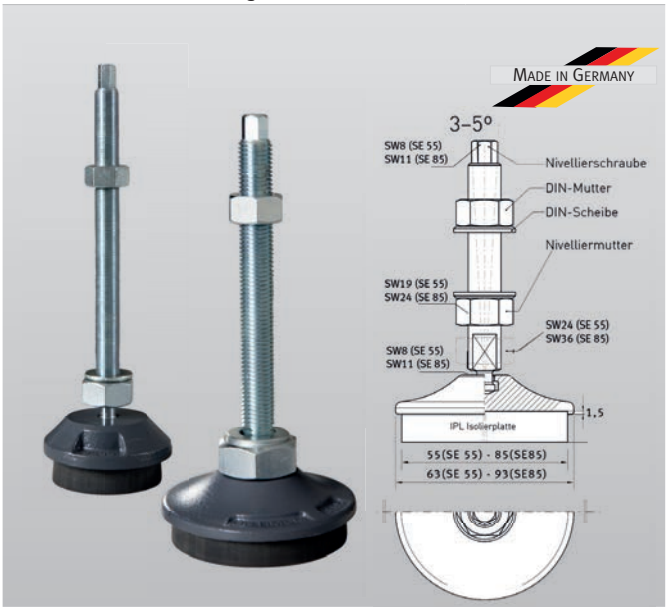


Levelling platen	Article no.
› The machines and equipment can be installed without anchors and precisely levelled using the height adjustment system.	
› non-slip rubberised	
SE 1	3381012
SE 2	3381016
SE 3	3381018

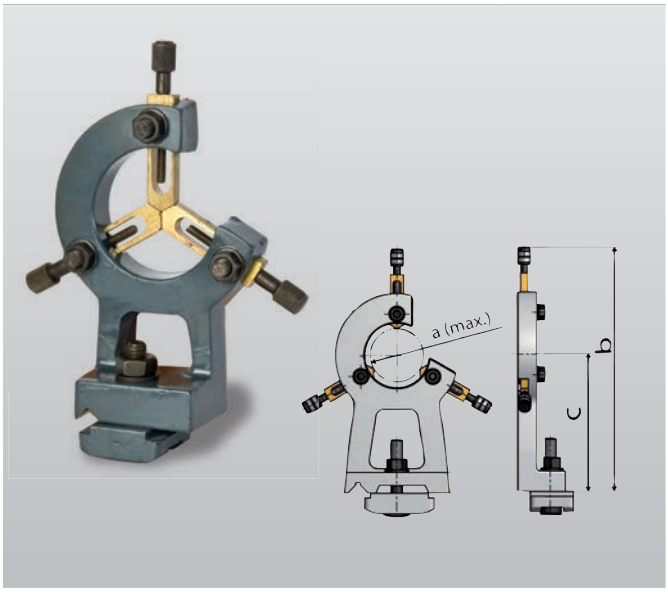


Load	SE 1	SE 2	SE 3
Milling machines	340 kg	460 kg	1 600 kg
Sawing/gen. Machine	570 kg	1 460 kg	3 500 kg
Thread	M12	M16	M20
Base Ø/Base height	120/32	160/35	185/39

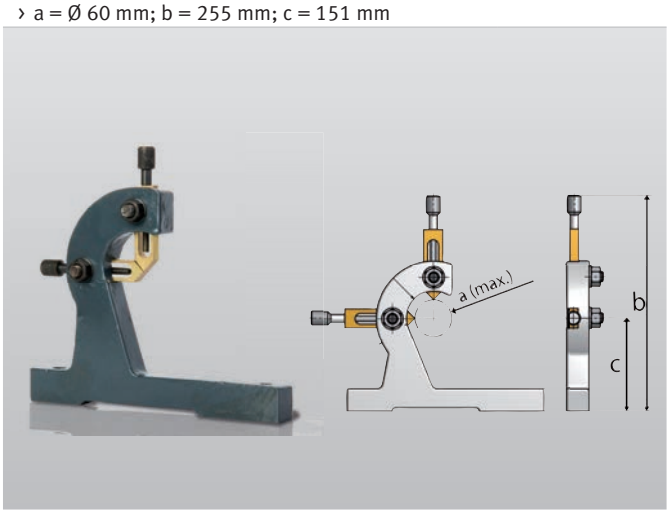
Vibration damper machine foot	Article no.
› Excellent vibration and structure-borne noise insulation	
› Noise reduction	
› Eliminates floor unevenness up to 5º	
› Precision levelling by means of a regular threaded screw	
› Better distribution of impact-like axial forces due to the geometrically larger contact surface with the screw	
› No notching effect - like for example with conical screw tips	
› The levelling screw and the levelling disc are captively connected by a very simple system.	
› Problem-free changeover of the machine possible, as the complete levelling disc remains on the machine foot when the machine is lifted	
SE 55	3352981
› Jackscrew M12 x 1 x 150	
› Maximum load: 600 kg	
SE 85	3352982
› Levelling screw M16 x 150	
› Maximum load: 1 500 kg	



Steady rest	Article no.
for **TU 1503V**	3440211
› a = Ø 40 mm; b = 145 mm; c = 70.5 mm	
for **TU 2004V**	3440231
› a = Ø 50 mm; b = 200 mm; c = 100 mm	
for **TU 2304 / TU 2304V**	3440361
› a = Ø 55 mm; b = 220 mm; c = 115 mm	
for **TU 2406 / TU 2506**	3441315
› a = Ø 50 mm; b = 245 mm; c = 125 mm	
for **TU 2807 / TU 2807V**	3441415
› a = Ø 55 mm; b = 250 mm; c = 140 mm	
for **TU 3008 / TU 3008G / TU 3008V**	3441461
› a = Ø 60 mm; b = 260 mm; c = 157 mm	



Follower rest	Article no.
for **TU 1503V**	3440210
› a = Ø 45 mm; b = 155 mm; c = 76 mm	
for **TU 2004V**	3440230
› a = Ø 40 mm; b = 195 mm; c = 100 mm	
for **TU 2304 / TU 2304V**	3440360
› a = Ø 34 mm; b = 200 mm; c = 97 mm	
for **TU 2406 / TU 2506**	3441310
› a = Ø 34 mm; b = 220 mm; c = 107 mm	
for **TU 2807 / TU 2807V**	3441410
› a = Ø 56 mm; b = 250 mm; c = 130 mm	
for **TU 3008 / TU 3008G / TU 3008V**	3441460
› a = Ø 60 mm; b = 255 mm; c = 151 mm	



OPTIMUM®
MASCHINEN - GERMANY

POSITION DISPLAYS

DIGITAL POSITION DISPLAYS
LINEAR ENCODERS
MEASURING INSTRUMENTS



DRO 5
Digital 3-axis position display



DRO 5	Article no. 3383975
› Digital 3-axis position display for milling machines (X - Y - Z) and for lathes (X, Z, Z $_0$)	
› For measuring positions	
› Rev counter	
› Three incremental inputs	
› Four-line LCD display	
› User-friendly menu navigation	
› Rugged aluminium housing	
› Programming from the front	
› Dimensions L x W x H: 98 x 65 x 134 mm	
Including	
› Speed sensor cable length 5 metres	
› 3 units magnetic sensors without magnetic strip	
› Power supply cable length 6 metres	
› Magnetic plate	

Accessories	Article no.
Magnetic strip length 1 100 mm	3383978
Magnetic strip length 2 000 mm	3383979
Magnetic strip per metre	3383980

Factory assembly	
Magnetic strip three axes	9000420
Speed sensor	9000421

Assembly kit	
TU 3008	3383985
MH 22V	3383990

The digital position displays for three axes with speed display support versatile use and are a genuine aid to the user, as they substantially boost precision and productivity.

Differences:

DPA 21
- LED display

DPA 22
- LCD display
- High-contrast display
- Simplified menu navigation
- Graphical input for cycle programming





Digital position display	Article no.
DPA 21 (LED display)	3384020
DPA 22 (LCD display)	3384022

› User-friendly membrane keyboard, splash water protected, sealed and dazzle free
› Switchable for milling machine and lathe, freely selectable input signal (sinus/square), e.g. usable for glass scales and/or magnetic strip system
› Greater operation accuracy
› Clear reduction of manufacturing times
› Reduction of error quota
› X, Y/Z0, Z axis each with 8-digit display
› Sensor supplied for acquiring spindle speeds
› Three measuring inputs can be evaluated with seven correction memory stores each for tools
› Dimensions L x W x H: 230 x 80 x 260 mm . Weight: 2 kg

Possible functions

› Calculator, speed display, axis coupling (total Z), sub-D connector sockets, absolute/incremental operation, conversion inch/metric thread, bolt circle computation (chain dimension), coordinates in circle (pitch circle), drill holes in circle (pitch circle), measured values switchable radius/diameter, Zero reset data default, self diagnostics, reference point, linear error correction, 99 tool memory

Scope of delivery

› Speed sensor
› Holder
› Power supply 24 V

Magnetic strip

› Magnetic strip for assembly on machines that do not have enough space for linear encoders
› Connector 9-pin

Ø 1 100 mm long	3383978
Ø 2 000 mm long	3383979
Active scanning head	3383934



Linear encoders	Article no.

› Fully encapsulated measuring systems with high precision glass scale
› Resolution 5 µm
› Accuracy ± 0.003 mm
› Scanning carriage guided by miniature ball bearings and connected to the mounting foot via coupling
› Protected against dust, chips and splash water by a rubber lip
› Flexible metal protection hose
› Connecting cable three metres; four metres as of ML 620
› Without assembly

ML 80 mm	3384108
ML 100 mm	3384110
ML 120 mm	3384112
ML 170 mm	3384117
ML 220 mm	3384122
ML 270 mm	3384127
ML 320 mm	3384132
ML 370 mm	3384137
ML 420 mm	3384142
ML 470 mm	3384147
ML 520 mm	3384152
ML 570 mm	3384157
ML 620 mm	3384162
ML 670 mm	3384167
ML 720 mm	3384172
ML 770 mm	3384177
ML 820 mm	3384182
ML 870 mm	3384187
ML 920 mm	3384192
ML 970 mm	3384197
ML 1 020 mm	3384202
ML 1 250 mm	3384225
ML 1 400 mm	3384240
ML 1 520 mm	3384252
ML 1 670 mm	3384267
ML 1 940 mm	3384294
ML 2 010 mm	3384295
ML 3 000 mm	3384300
Factory assembly ML	9000410

› per linear encoder

1) When installing the linear encoders, adjustments may have to be made to the machine

NEW

OPTIMUM® MASCHINEN - GERMANY

Universal useable digital position displays for two or three axes, with speed display,
for guaranteed excellent results on machines to improve accuracy

Digital position display	Article no.
DPA 31-2 for two axes	3384030
DPA 31-3 for three axes	3384031

› LED display
› User-friendly membrane keyboard, splash water protected, sealed and dazzle free
› Switchable for milling machine and lathe
› Greater operation accuracy
› Clear reduction of manufacturing times
› Reduction of error quota
› 8-digit display
› Sensor supplied for acquiring spindle speeds
› Three measuring inputs can be evaluated with seven correction memory stores each for tools
› Dimensions L x W x H: 230 x 80 x 260 mm
› Weight: 2 kg



DPA 31-2
DPA 31-3



MSS31 linear encoders	Article no.
› The electronic measuring components of the linear encoders are protected and sealed in the housing	
› Provides accurate and reliable measurement results even if the measuring system is operated in oil or coolant	
› Tolerant towards vibration and magnetic interference	
› Without assembly	
51 mm (length 311 mm)	3384405
102 mm (length 362 mm)	3384410
152 mm (length 412 mm)	3384415
203 mm (length 463 mm)	3384417
254 mm (length 514 mm)	3384419
305 mm (length 565 mm)	3384421
356 mm (length 616 mm)	3384422
406 mm (length 666 mm)	3384423
457 mm (length 717 mm)	3384424
506 mm (length 766 mm)	3384425
559 mm (length 819 mm)	3384426
610 mm (length 870 mm)	3384427
660 mm (length 920 mm)	3384428
711 mm (length 971 mm)	3384429
762 mm (length 1022 mm)	3384430
813 mm (length 1073 mm)	3384431
864 mm (length 1124 mm)	3384432
914 mm (length 1174 mm)	3384433
965 mm (length 1225 mm)	3384434
1016 mm (length 1276 mm)	3384435
1118 mm (length 1378 mm)	3384437
1168 mm (length 1428 mm)	3384438
1219 mm (length 1479 mm)	3384439
1270 mm (length 1530 mm)	3384440
1321 mm (length 1581 mm)	3384441
1372 mm (length 1632 mm)	3384442
1422 mm (length 1882 mm)	3384443
1473 mm (length 1933 mm)	3384444
1524 mm (length 1784 mm)	3384445
1626 mm (length 1886 mm)	3384446
1727 mm (length 1987 mm)	3384447
1829 mm (length 2089 mm)	3384448
1930 mm (length 2190 mm)	3384449
2032 mm (length 2292 mm)	3384450
2134 mm (length 2394 mm)	3384451
2235 mm (length 2495 mm)	3384452
2337 mm (length 2597 mm)	3384453
2438 mm (length 2698 mm)	3384454
2540 mm (length 2800 mm)	3384455
2642 mm (length 2902 mm)	3384456
2743 mm (length 3003 mm)	3384457
2845 mm (length 3105 mm)	3384458
2946 mm (length 3206 mm)	3384459
3048 mm (length 3248 mm)	3384460

1) When installing the linear encoders, adjustments may have to be made to the machine

Accessories	Article no.
Extension cable 1 metres	3384040
Active scanning head	3384035



Magnetic strip	Article no.
› Magnetic strip for assembly machines that do not have enough space for magnetic scales	
› Connector 9-pin	
Ø 1 100 mm long	3383978
Ø 2 000 mm long	3383979