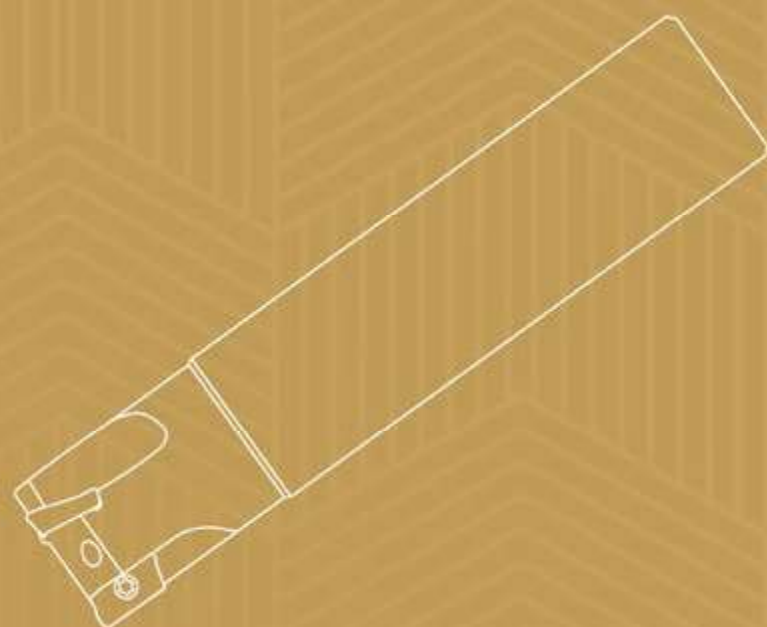
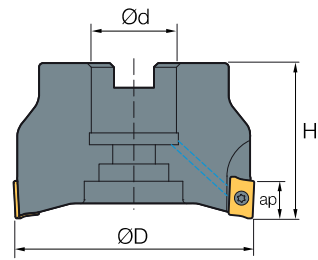




MILLING/**HOLDERS**

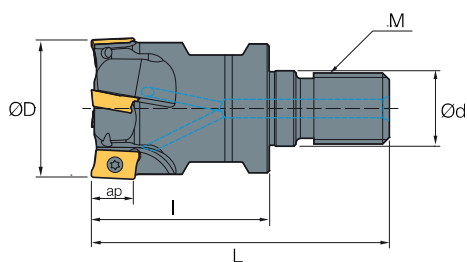
AP 10[illegible]

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TURNING

MMAP

AP 10

[illegible]

Carbide

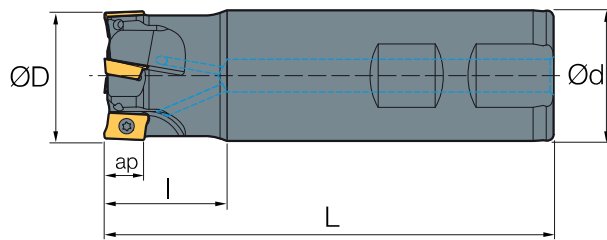
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HOLDERS /MILLING

MSAP

AP□□10

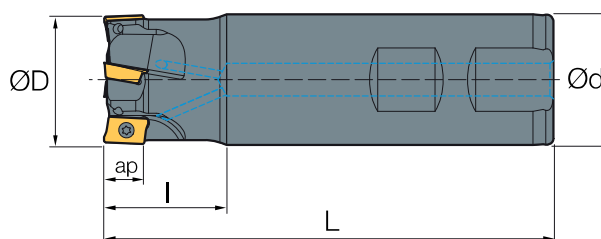


AP□□	DESCRIPTION		STOCK	DIMENSIONS									
				D	L	I	d	Z	ap				
AP□□10	MSAP	12-120-10-12-1T	●	12	120	30	12	1T	10	ST-SC0256	ST-WRT08		
		14-120-10-12-1T	●	14	120	30	12	1T	10	ST-SC0256	ST-WRT08		
		16-100-10-16-2T-C	●	16	100	30	16	2T	10	ST-SC0256	ST-WRT08		
		16-120-10-16-2T-C	●	16	120	30	16	2T	10	ST-SC0256	ST-WRT08		
		16-150-10-16-2T-C	●	16	150	40	16	2T	10	ST-SC0256	ST-WRT08		
		16-150-10-16-2T	●	16	150	40	16	2T	10	ST-SC0256	ST-WRT08		
		16-200-10-16-2T	●	16	200	50	16	2T	10	ST-SC0256	ST-WRT08		
		18-120-10-16-3T	●	18	120	30	16	3T	10	ST-SC0256	ST-WRT08		
		18-150-10-16-2T	●	18	150	40	16	2T	10	ST-SC0256	ST-WRT08		
		20-120-10-20-3T	●	20	120	30	20	3T	10	ST-SC0256	ST-WRT08		
		20-120-10-20-3T-C	●	20	120	50	20	3T	10	ST-SC0256	ST-WRT08		
		20-150-10-20-3T-C	●	20	150	30	20	3T	10	ST-SC0256	ST-WRT08		
		20-100-10-20-3T-C	●	20	120	30	20	3T	10	ST-SC0256	ST-WRT08		
		22-120-10-20-3T	●	22	120	30	20	3T	10	ST-SC0256	ST-WRT08		
		22-150-10-20-3T	●	22	150	40	20	3T	10	ST-SC0256	ST-WRT08		
		22-200-10-20-3T	●	22	200	50	20	3T	10	ST-SC0256	ST-WRT08		

Carbide

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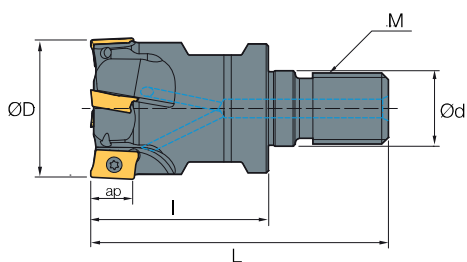
MSAP

AP 10[illegible]

Carbide

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MMAP

AP 11[illegible]

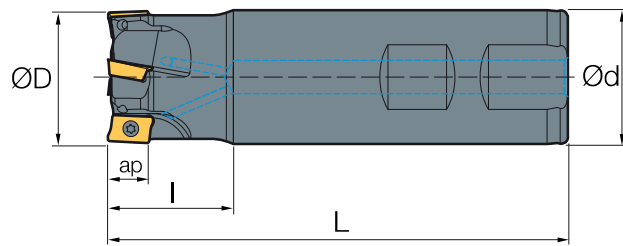
Carbide

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HOLDERS /MILLING

MSAP

AP□□11



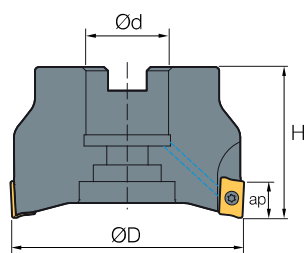
AP□□	DESCRIPTION		STOCK	DIMENSIONS									
				D	L	I	d	Z	ap				
AP□□11	MSAP	16-120-11-16-2T-C	●	16	120	40	16	2T	11	ST-SC0256	ST-WRT08		
		16-160-11-16-2T	●	16	160	40	16	2T	11	ST-SC0256	ST-WRT08		
		16-160-11-15-2T-C	●	16	160	40	15	2T	11	ST-SC0256	ST-WRT08		
		16-160-11-16-2T-C	●	16	160	40	16	2T	11	ST-SC0256	ST-WRT08		
		16-200-11-16-2T-C	●	16	200	50	16	2T	11	ST-SC0256	ST-WRT08		
		17-160-11-16-2T-C	●	17	160	40	16	2T	11	ST-SC0256	ST-WRT08		
		17-200-11-16-2T-C	●	17	200	50	16	2T	11	ST-SC0256	ST-WRT08		
		20-120-11-20-3T-C	●	20	120	40	20	3T	11	ST-SC0256	ST-WRT08		
		20-160-11-20-3T-C	●	20	160	40	20	3T	11	ST-SC0256	ST-WRT08		
		20-200-11-20-3T-C	●	20	200	50	20	3T	11	ST-SC0256	ST-WRT08		
		20-200-11-16-2T	●	20	200	50	16	2T	11	ST-SC0256	ST-WRT08		
		21-160-11-20-3T-C	●	21	160	40	20	3T	11	ST-SC0256	ST-WRT08		
		21-200-11-20-3T-C	●	21	200	50	20	3T	11	ST-SC0256	ST-WRT08		
		25-160-11-25-3T-C	●	25	160	40	25	3T	11	ST-SC0256	ST-WRT08		
		25-200-11-25-3T-C	●	25	200	50	25	3T	11	ST-SC0256	ST-WRT08		
		26-160-11-25-3T-C	●	26	160	40	25	3T	11	ST-SC0256	ST-WRT08		
		26-200-11-25-3T-C	●	26	200	50	25	3T	11	ST-SC0256	ST-WRT08		
		26-200-11-25-3T	●	26	200	50	25	3T	11	ST-SC0256	ST-WRT08		
		32-160-11-32-4T	●	32	160	40	32	4T	11	ST-SC0256	ST-WRT08		
		33-160-11-32-4T-C	●	33	160	40	32	4T	11	ST-SC0256	ST-WRT08		
		33-200-11-32-4T-C	●	33	200	50	32	4T	11	ST-SC0256	ST-WRT08		
		33-160-11-32-4T	●	32	160	40	32	4T	11	ST-SC0256	ST-WRT08		
		33-200-11-32-4T	●	33	200	50	32	4T	11	ST-SC0256	ST-WRT08		

Carbide

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TURNING

MFAP

AP 12

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

HSS DRILLS & TAPS

SPARE
PARTS

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[illegible]

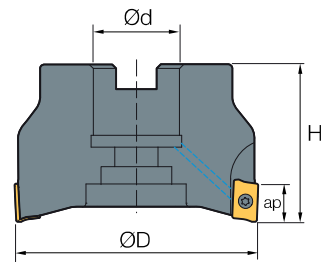
Carbide

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HOLDERS /MILLING

MFAP

AP□□16



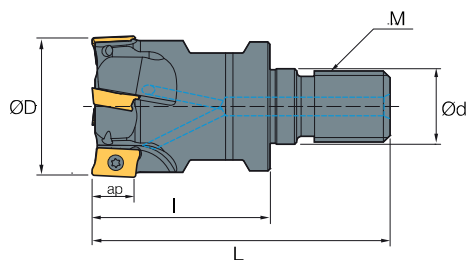
AP□□	DESCRIPTION		STOCK	DIMENSIONS								
				D	H	d	ap	Z				
AP□□16	MFAP	90040R-16-4T	●	40	40	16	16	4T	ST-SC0257	ST-WRT08		
		90040R-16-4T-C	●	40	40	22	16	4T	ST-SC0257	ST-WRT08		
		90050R-16-5T-C	●	50	40	22	16	5T	ST-SC0257	ST-WRT08		
		90050R-16-4T	●	50	40	22	16	5T	ST-SC0257	ST-WRT08		
		90063R-16-6T-C	●	63	40	22	16	6T	ST-SC0257	ST-WRT08		
		90063R-16-5T-C	●	63	40	22	16	5T	ST-SC0257	ST-WRT08		
		90063R-16-5T	●	63	40	22	16	5T	ST-SC0257	ST-WRT08		
		90080R-16-7T	●	80	50	22	16	7T	ST-SC0257	ST-WRT08		
		90080R-16-7T-C	●	80	50	22	16	7T	ST-SC0257	ST-WRT08		
		90080R-16-6T	●	80	50	22	16	7T	ST-SC0257	ST-WRT08		
		90100R-16-8T	●	100	50	32	16	8T	ST-SC0257	ST-WRT08		
		90125R-16-9T	●	125	63	40	16	9T	ST-SC0257	ST-WRT08		
		90160R-16-10T	●	160	63	40	16	10T	ST-SC0257	ST-WRT08		
		90200R-16-12T	●	200	63	60	16	12T	ST-SC0257	ST-WRT08		

Carbide

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M MAP

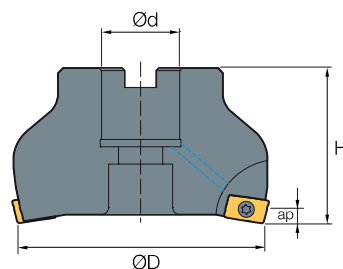
AP□□16



AP□□	DESCRIPTION		STOCK	DIMENSIONS									
				D	L	I	d	Z	ap	M			
AP□□16	M MAP	25-M12-16-2T-C	●	25	60	43	12	2T	16	12	ST-SC0257	ST-WRT08	
		32-M16-16-3T-C	●	32	60	43	16	3T	16	16	ST-SC0257	ST-WRT08	
		40-M16-16-4T-C	●	40	60	43	16	4T	16	16	ST-SC0257	ST-WRT08	

M FAP

AP□□16



AP□□	DESCRIPTION		STOCK	DIMENSIONS								
				D	H	d	ap	Z				
AP□□16	M FAP	75063R-16-4T	●	63	40	22	16	4T	ST-SC0257	ST-WRT08		
		75080R-16-6T	●	80	40	27	16	6T	ST-SC0257	ST-WRT08		
		75100R-16-7T	●	100	50	32	16	7T	ST-SC0257	ST-WRT08		

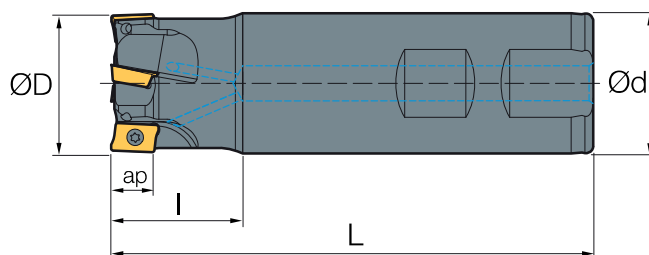
Carbide

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HOLDERS /MILLING

MSAP

AP□□16



AP□□	DESCRIPTION		STOCK	DIMENSIONS									
				D	L	I	d	Z	ap				
AP□□16	MSAP	25-120-16-25-2T	●	25	120	30	25	2T	16	ST-SC0256	ST-WRT08		
		25-150-16-25-2T	●	25	150	40	25	2T	16	ST-SC0256	ST-WRT08		
		25-200-16-25-2T	●	25	200	50	25	2T	16	ST-SC0256	ST-WRT08		
		25-250-16-25-2T	●	25	250	70	25	2T	16	ST-SC0256	ST-WRT08		
		26-120-16-25-2T	●	26	120	30	25	2T	16	ST-SC0256	ST-WRT08		
		26-150-16-25-2T	●	26	150	40	25	2T	16	ST-SC0256	ST-WRT08		
		26-200-16-25-2T	●	26	200	50	25	2T	16	ST-SC0256	ST-WRT08		
		30-150-16-25-3T	●	30	150	40	25	3T	16	ST-SC0256	ST-WRT08		
		30-200-16-25-3T	●	30	200	50	25	3T	16	ST-SC0256	ST-WRT08		
		32-120-16-25-3T	●	32	120	30	25	3T	16	ST-SC0256	ST-WRT08		
		32-120-16-32-3T	●	32	120	30	32	3T	16	ST-SC0256	ST-WRT08		
		32-150-16-25-3T	●	32	150	50	25	3T	16	ST-SC0256	ST-WRT08		
		32-200-16-32-3T	●	32	200	50	32	3T	16	ST-SC0256	ST-WRT08		
		32-250-16-32-3T	●	32	250	70	32	3T	16	ST-SC0256	ST-WRT08		
		32-300-16-32-3T	●	32	300	70	32	3T	16	ST-SC0256	ST-WRT08		
		32-350-16-32-3T	●	32	350	70	32	3T	16	ST-SC0256	ST-WRT08		
		34-120-16-32-3T	●	34	120	30	32	3T	16	ST-SC0256	ST-WRT08		
		34-150-16-32-3T	●	34	150	50	32	3T	16	ST-SC0256	ST-WRT08		
		35-120-16-32-3T	●	35	120	30	32	3T	16	ST-SC0256	ST-WRT08		
		35-150-16-32-3T	●	35	150	50	32	3T	16	ST-SC0256	ST-WRT08		
		35-200-16-32-3T	●	35	200	50	32	3T	16	ST-SC0256	ST-WRT08		
		35-250-16-32-3T	●	35	250	50	32	3T	16	ST-SC0256	ST-WRT08		
		36-120-16-32-3T	●	36	120	30	32	3T	16	ST-SC0256	ST-WRT08		
		40-120-16-32-4T	●	40	120	30	32	4T	16	ST-SC0256	ST-WRT08		
		40-150-16-25-4T	●	40	150	50	25	4T	16	ST-SC0256	ST-WRT08		
		40-150-16-32-4T	●	40	150	50	32	4T	16	ST-SC0256	ST-WRT08		
		40-200-16-32-4T	●	40	200	50	32	4T	16	ST-SC0256	ST-WRT08		

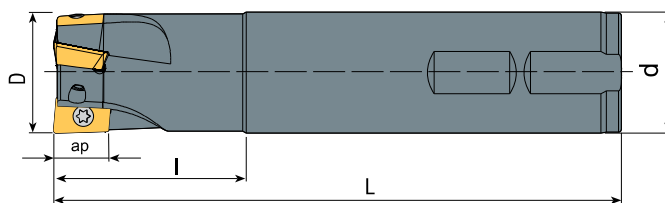
Carbide

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HOLDERS /MILLING

MSAX

AX 00 07

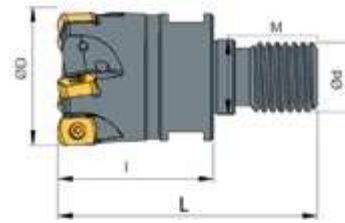
[illegible]

Carbide

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MMBL

BL□□06



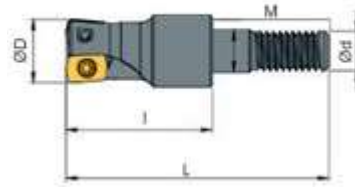
BL□□	DESCRIPTION		STOCK	DIMENSIONS									
				D	L	I	d	Z	ap	M			
BL□□06	MMBL	32-M16-06-5T-C	●	32	60	36	17	5	06	16	ST-SC0257	ST-WRT08	

Carbide

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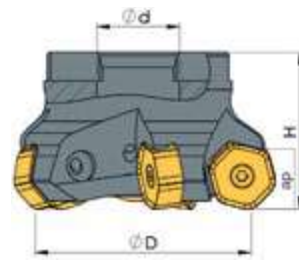
MMEP

EP 06

[illegible]

MFHN

HN□□09



HN□□	DESCRIPTION		STOCK	DIMENSIONS								
				D	H	d	ap	Z				
HN□□09	MFHN	45050-09-4T	●	50	40	22	5	4	ST-SC0415	ST-WRT15		
		45050R-09-4T-C	●	50	40	22	5	4	ST-SC0415	ST-WRT15		
		45063R-09-5T-C	●	63	40	22	5	5	ST-SC0415	ST-WRT15		
		45063-09-6T	●	63	40	22	5	6	ST-SC0415	ST-WRT15		
		45080-09-6T	●	80	50	27	5	6	ST-SC0415	ST-WRT15		
		45080-09-8T	●	80	50	27	5	8	ST-SC0415	ST-WRT15		
		45080-09-6T-C	●	80	50	27	5	6	ST-SC0415	ST-WRT15		
		45100-09-10T	●	100	50	32	5	10	ST-SC0415	ST-WRT15		
		45100-09-8T	●	100	50	32	5	8	ST-SC0415	ST-WRT15		
		45100R-09-8T-C	●	100	50	32	5	8	ST-SC0415	ST-WRT15		
		45125-09-10T	●	125	62	40	5	10	ST-SC0415	ST-WRT15		
		45125-09-12T	●	125	62	40	5	12	ST-SC0415	ST-WRT15		
		45125R-09-10T-C	●	125	62	40	5	10	ST-SC0415	ST-WRT15		
		45160-09-12T	●	160	62	40	5	12	ST-SC0415	ST-WRT15		
		45160-09-14T	●	160	62	40	5	14	ST-SC0415	ST-WRT15		
		45160R-09-12T	●	160	62	40	5	12	ST-SC0415	ST-WRT15		
		45200-09-12T	●	200	62	40	5	12	ST-SC0415	ST-WRT15		
		45250-09-14T	●	250	62	40	5	14	ST-SC0415	ST-WRT15		

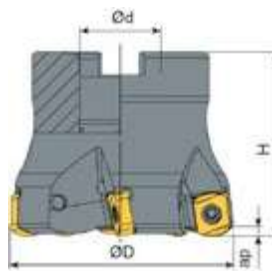
Carbide

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HOLDERS /MILLING

MFLN

LN□□03

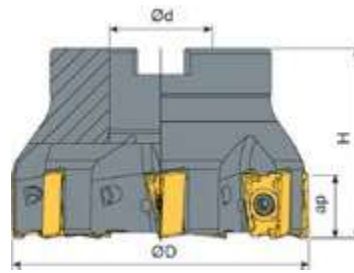


LN□□	DESCRIPTION		STOCK	DIMENSIONS								
				D	H	d	ap	Z				
LN□□03	MFLN	90050R-03-7T-C	●	50	40	22	3	7	ST-SC0257	ST-WRT08		

Carbide

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LN 10

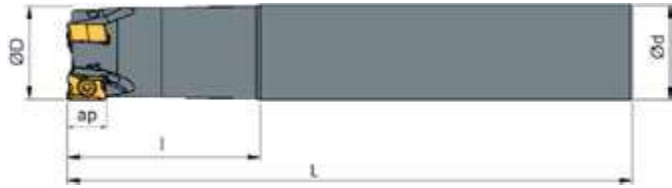
[illegible]

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TURNING

MSLN

LN 10



GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

HSS DRILLS & TAPS

SPARE PARTS

INDEX

[illegible]

Carbide

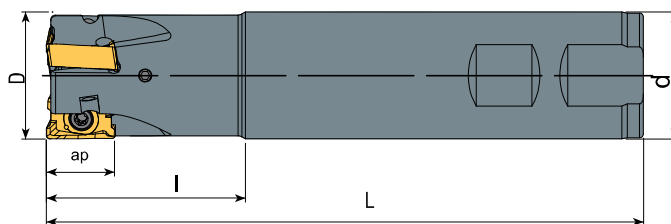
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LN 11



MSLN

LN□□11

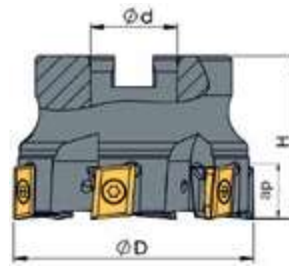


LN□□	DESCRIPTION		STOCK	DIMENSIONS									
				D	L	I	d	Z	ap				
LN□□11	MSLN	16-100-11-16-2T-C	●	16	100	25	16	2	11	ST-SC0301	ST-WRT10		
		16-150-11-16-2T-C	●	16	150	25	16	2	11	ST-SC0301	ST-WRT10		
		16-160-11-16-2T-C	●	16	160	25	16	2	11	ST-SC0301	ST-WRT10		
		17-150-11-16-2T-C	●	17	150	25	16	2	11	ST-SC0301	ST-WRT10		
		20-100-11-20-2T-C	●	20	100	28	20	2	11	ST-SC0301	ST-WRT10		
		20-150-11-20-3T-C	●	20	150	28	20	3	11	ST-SC0301	ST-WRT10		
		20-160-11-20-2T-C	●	20	160	28	20	2	11	ST-SC0301	ST-WRT10		
		21-150-11-20-3T-C	●	21	150	28	20	3	11	ST-SC0301	ST-WRT10		
		25-150-11-25-4T-C	●	25	150	43	25	4	11	ST-SC0301	ST-WRT10		
		25-160-11-25-3T-C	●	25	160	43	25	3	11	ST-SC0301	ST-WRT10		
		25-200-11-25-4T-C	●	25	200	30	25	4	11	ST-SC0301	ST-WRT10		
		32-150-11-32-5T-C	●	32	150	49	32	5	11	ST-SC0301	ST-WRT10		
		32-160-11-32-4T-C	●	32	160	49	32	4	11	ST-SC0301	ST-WRT10		
		32-200-11-32-5T-C	●	32	200	35	32	5	11	ST-SC0301	ST-WRT10		

Carbide

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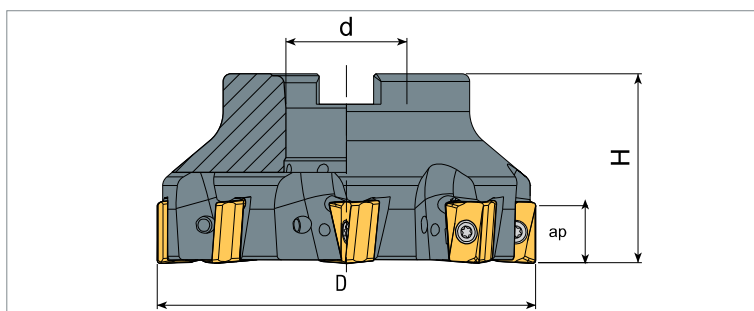
LN 13

[illegible]

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MFLN

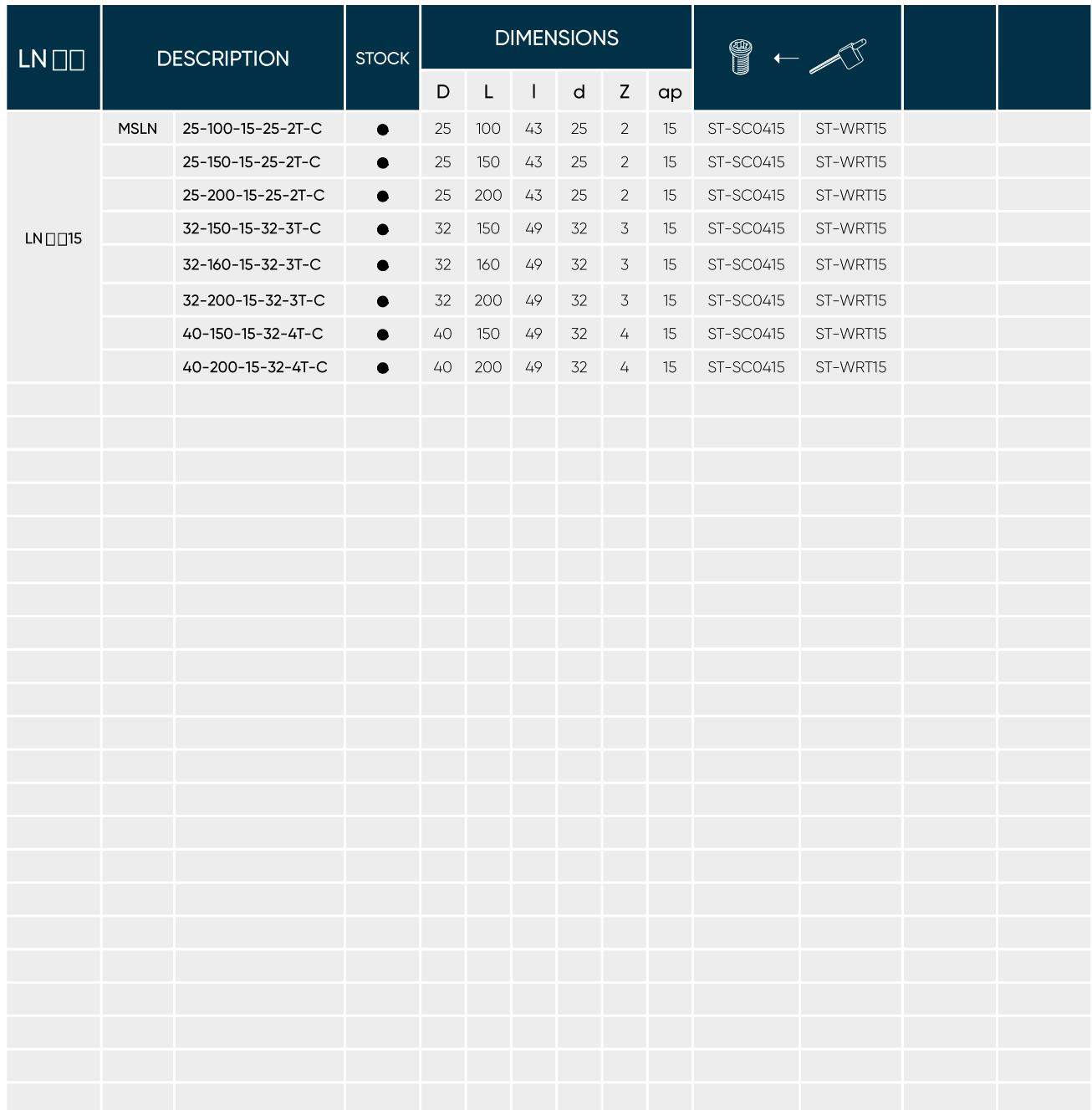
LN 15

[illegible]

Carbide

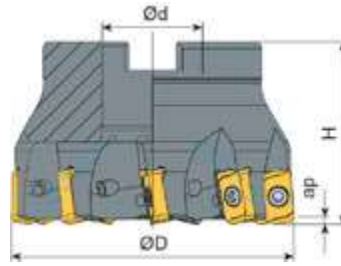
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LN 15



MFLO

LO□□03

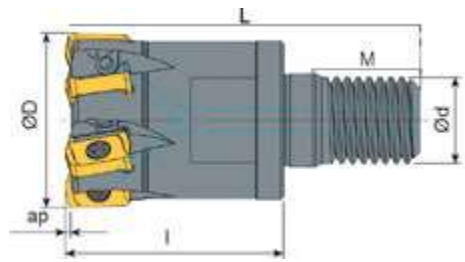


LO□□	DESCRIPTION		STOCK	DIMENSIONS								
				D	H	d	ap	Z				
LO□□03	MFLO	040R-03-6T-C	●	40	40	16	3	6	ST-SC0309	ST-WRT10		

Carbide

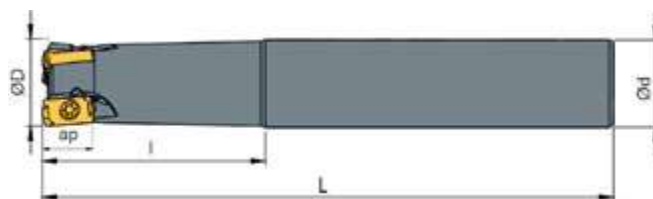


LO 0003

[illegible]

MSLO

LO□□03

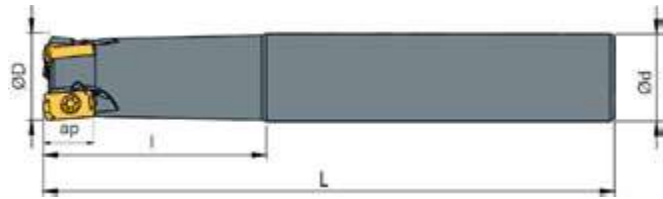


LO□□	DESCRIPTION		STOCK	DIMENSIONS									
				D	L	l	d	Z	ap				
LO□□03	MSLO	16-100-03-16-2T	●	16	100	35	16	2	-	ST-SC0309	ST-WRT10		
		16-150-03-15-2T-C	●	16	150	35	16	2	-	ST-SC0309	ST-WRT10		
		16-160-03-15-2T-C	●	16	160	35	16	2	-	ST-SC0309	ST-WRT10		
		16-160-03-16-2T	●	16	160	50	16	2	-	ST-SC0309	ST-WRT10		
		17-100-03-16-2T-C	●	17	100	30	16	2	-	ST-SC0309	ST-WRT10		
		17-150-03-16-2T-C	●	17	150	30	16	2	-	ST-SC0309	ST-WRT10		
		17-160-03-16-2T-C	●	17	160	30	16	2	-	ST-SC0309	ST-WRT10		
		17-200-03-16-2T	●	17	200	30	16	2	-	ST-SC0309	ST-WRT10		
		18-150-03-16-2T-C	●	18	150	30	16	2	-	ST-SC0309	ST-WRT10		
		18-160-03-16-2T-C	●	18	160	30	16	2	-	ST-SC0309	ST-WRT10		
		19,5-160-03-20-3T	●	19,5	160	30	20	3	-	ST-SC0309	ST-WRT10		
		20-100-03-20-2T-C	●	20	100	35	20	2	-	ST-SC0309	ST-WRT10		
		20-130-03-20-3T	●	20	130	40	20	3	-	ST-SC0309	ST-WRT10		
		20-150-03-20-3T	●	20	150	40	20	3	-	ST-SC0309	ST-WRT10		
		20-160-03-20-3T-C	●	20	160	50	20	3	-	ST-SC0309	ST-WRT10		
		21,5-160-03-20-3T	●	21,5	160	30	20	3	-	ST-SC0309	ST-WRT10		
		21-100-03-20-2T-C	●	21	100	30	20	2	-	ST-SC0309	ST-WRT10		
		21-150-03-20-3T-C	●	21	150	30	20	3	-	ST-SC0309	ST-WRT10		
		21-160-03-20-3T-C	●	21	160	30	20	3	-	ST-SC0309	ST-WRT10		
		21-200-03-20-3T	●	21	200	35	20	3	-	ST-SC0309	ST-WRT10		
		22-160-03-20-3T-C	●	22	160	30	20	3	-	ST-SC0309	ST-WRT10		
		24,5-160-03-25-4T	●	24,5	160	45	25	4	-	ST-SC0309	ST-WRT10		
		25-150-03-25-4T-C	●	25	150	50	25	4	-	ST-SC0309	ST-WRT10		
		25-160-03-25-4T-C	●	25	160	50	25	4	-	ST-SC0309	ST-WRT10		
		25-180-03-25-4T-C	●	25	180	50	25	4	-	ST-SC0309	ST-WRT10		
		26-150-03-25-4T-C	●	26	150	50	25	4	-	ST-SC0309	ST-WRT10		
		26-160-03-25-4T-C	●	26	160	30	25	4	-	ST-SC0309	ST-WRT10		

Carbide

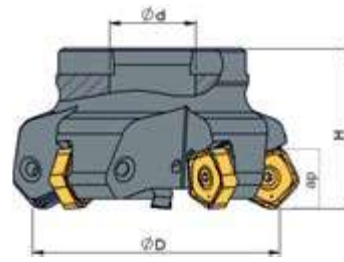
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LO 0003

[illegible]

MFPN

PN 00 09

[illegible]

Carbide

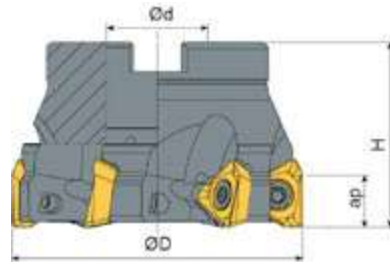
297

Technical drawing of a 4-point contact ball bearing. The drawing shows a cross-section of the bearing with four balls. Dimensions are indicated: ϕd for the inner diameter, ϕD for the outer diameter, H for the height, and ϕd_2 for the diameter of the balls.

297

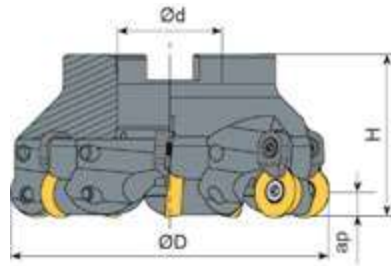
MF3P

3P 15

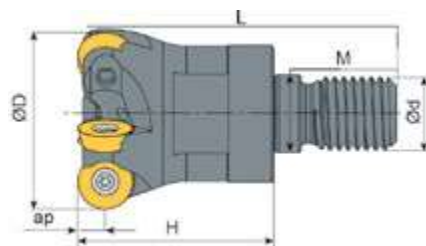
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Carbide

313

RD [illegible]

MMRD

RD [illegible]

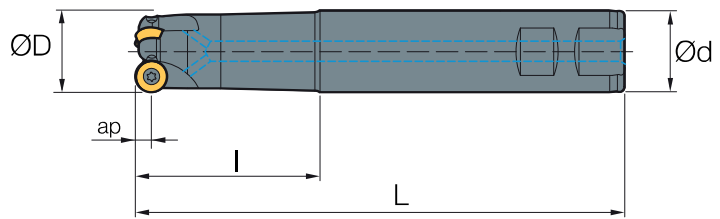
Carbide

298

HOLDERS /MILLING

MSRD

RD□□



RD□□	DESCRIPTION		STOCK	DIMENSIONS									
				D	L	l	d	Z	ap				
RD□□08	MSRD	16-160-08-16-2T	●	16	160	55	25	2T	08	ST-SC0256	ST-WRT08		
		20-160-08-20-2T	●	20	160	55	25	2T	08	ST-SC0256	ST-WRT08		
		25-160-08-25-3T	●	25	160	55	25	3T	08	ST-SC0256	ST-WRT08		
RD□□10	MSRD	20-120-10-20-2T	●	20	120	55	20	2T	10	ST-SC3508	ST-WRT15		
		20-150-10-20-2T-C	●	20	150	55	20	2T	10	ST-SC3508	ST-WRT15		
		20-160-10-20-2T	●	20	160	55	20	2T	10	ST-SC3508	ST-WRT15		
		20-200-10-20-2T	●	20	200	55	20	2T	10	ST-SC3508	ST-WRT15		
		25-120-10-25-2T	●	25	120	55	25	2T	10	ST-SC3508	ST-WRT15		
		25-160-10-25-2T	●	25	160	55	25	2T	10	ST-SC3508	ST-WRT15		
		25-150-10-25-2T	●	25	150	55	25	2T	10	ST-SC3508	ST-WRT15		
		25-200-10-25-2T	●	25	200	55	25	2T	10	ST-SC3508	ST-WRT15		
		25-200-10-25-2T-C	●	25	200	55	25	2T	10	ST-SC3508	ST-WRT15		
		32-120-10-32-3T	●	32	120	55	32	3T	10	ST-SC3508	ST-WRT15		
		32-150-10-32-3T-C	●	32	150	55	32	3T	10	ST-SC3508	ST-WRT15		
		32-160-10-32-3T	●	32	160	55	32	3T	10	ST-SC3508	ST-WRT15		
		32-200-10-32-3T	●	32	200	55	32	3T	10	ST-SC3508	ST-WRT15		
		40-120-10-32-4T	●	40	120	55	32	4T	10	ST-SC3508	ST-WRT15		
		40-160-10-32-4T	●	40	160	55	32	4T	10	ST-SC3508	ST-WRT15		
		40-200-10-32-4T	●	40	200	55	32	4T	10	ST-SC3508	ST-WRT15		

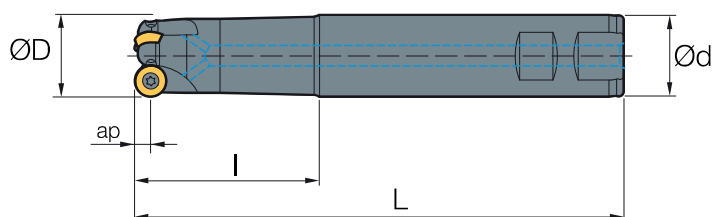
Carbide

298

TURNING

MSRD

RD 12



GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

HSS DRILLS & TAPS

SPARE
PARTS

INDEX

[illegible]

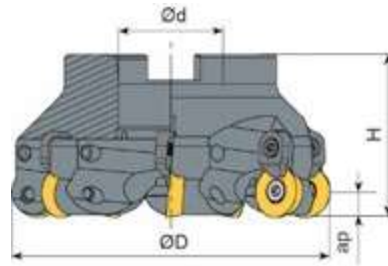
Carbide

298

HOLDERS /MILLING

MFRD

RD□□16



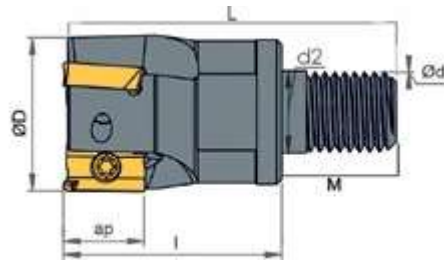
RD□□	DESCRIPTION		STOCK	DIMENSIONS					 ← 		
				D	H	d	ap	Z			
RD□□16	MFRD	080R-16-5T-C	●	80	52	27	8	5	ST-SC0512	ST-WRT20	

Carbide

298

MMRT

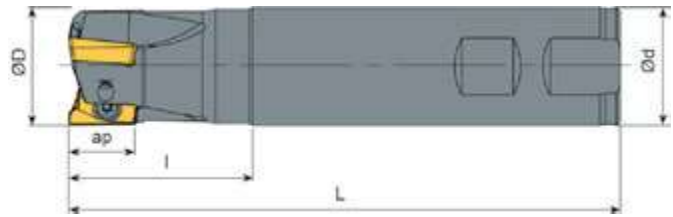
RT□□10



RT□□	DESCRIPTION		STOCK	DIMENSIONS							 		
				D	L	l	d	Z	ap	M			
RT□□10	MMRT	42-M16-10-6T-C	●	42	67	35	42	6T	16	16	ST-SC0257	ST-WRT08	

Carbide

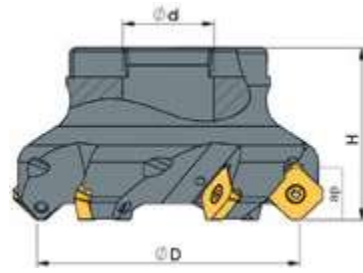
299

RT [illegible]

TURNING

MFSE

SE 12



GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

HSS DRILLS & TAPS

SPARE PARTS

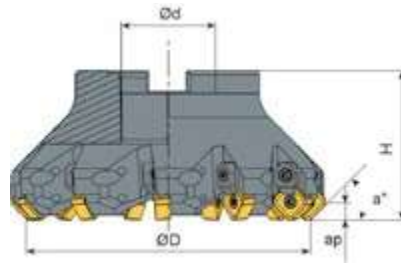
INDEX

[illegible]

Carbide

301

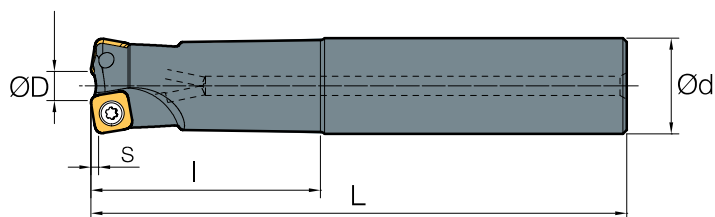
SN□□12

[illegible]

302

MSSO

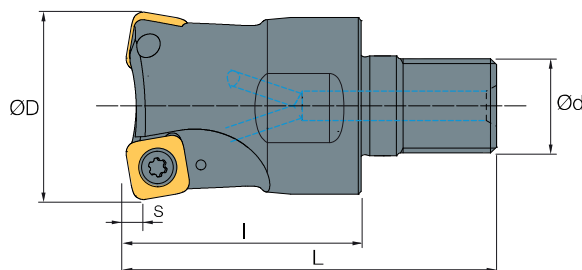
SOMW



SO □□	DESCRIPTION		STOCK	DIMENSIONS						PROGRAM RADIUS	MAX. ANGLE FOR RAMPING		
				D	L	I	d	Z	S				
SOMW08	MSSO	20-160-08-20-2T-C	●	20	160	40	20	2T	2	2,5	2.30	ST-SC0309	ST-WRT15
		20-200-08-20-2T-C	●	20	200	50	20	2T	2	2,5	2.30	ST-SC0309	ST-WRT15
		21-160-08-20-2T-C	●	21	160	40	20	2T	2	2,5	1.30	ST-SC0309	ST-WRT15
		25-160-08-25-3T-C	●	25	160	40	25	3T	2	2,5	1.30	ST-SC0309	ST-WRT15
		25-200-08-25-3T	●	25	200	50	25	3T	2	2,5	1.00	ST-SC0309	ST-WRT15
		25-200-08-25-3T-C	●	25	200	50	25	3T	2	2,5	1.00	ST-SC0309	ST-WRT15
		26-160-08-25-3T-C	●	26	160	40	25	3T	2	2,5	1.20	ST-SC0309	ST-WRT15
		26-200-08-25-2T	●	26	200	50	25	2T	2	2,5	1.20	ST-SC0309	ST-WRT15
		26-200-08-25-3T-C	●	26	200	50	25	3T	2	2,5	1.20	ST-SC0309	ST-WRT15
		32-160-08-32-4T-C	●	32	160	40	32	4T	2	3,5	2.50	ST-SC0309	ST-WRT15
		32-200-08-32-4T	●	32	200	50	32	4T	2	3,5	2.50	ST-SC0309	ST-WRT15
		35-160-08-32-4T-C	●	35	160	40	32	4T	2	3,5	2.50	ST-SC0309	ST-WRT15

MMSO

SOMW



SO □□	DESCRIPTION		STOCK	DIMENSIONS							PROGRAM RADIUS	MAX. ANGLE FOR RAMPING	 ← 	
				D	L	I	d	Z	S	M				
SOMW08	MMSO	20-M10-08-2T-C	●	20	52	30	12,5	2T	2	10	2,5	2°30'	ST-SC0309	ST-WRT15
		25-M12-08-3T-C	●	25	52	35	12,5	3T	2	12	2,5	1°30'	ST-SC0309	ST-WRT15
		32-M16-08-4T-C	●	32	64	43	17	4T	2	16	2,5	1°00'	ST-SC0309	ST-WRT15
		40-M16-08-5T-C	●	40	67	43	17	5T	2	16	2,5	0°50'	ST-SC0309	ST-WRT15
		42-M16-08-5T-C	●	42	67	43	17	5T	2	16	2,5	0°40'	ST-SC0309	ST-WRT15

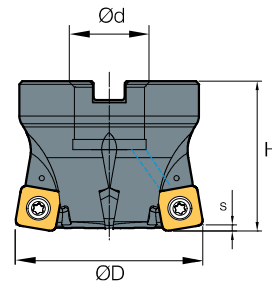
Carbide

303

HOLDERS /MILLING

MFSO

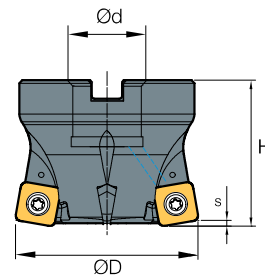
SOMW



SO □□	DESCRIPTION		STOCK	DIMENSIONS					PROGRAM RADIUS	MAX. ANGLE FOR RAMPING		
				D	H	d	S	Z				
SOMW08	MFSP	040R-08-5T-C	●	40	40	16	2	5T	2,5	0°50'	ST-SC0309	ST-WRT15
		050R-08-6T-C	●	50	40	22	2	6T	3,5	0°40'	ST-SC0309	ST-WRT15
		063R-08-7T-C	●	63	40	22	2	7T	3,5	0°30'	ST-SC0309	ST-WRT15

MFSP

SP □□12



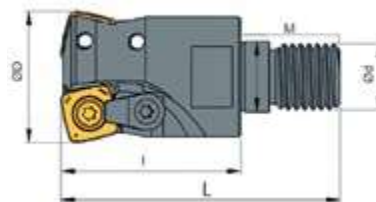
SP □□	DESCRIPTION		STOCK	DIMENSIONS					PROGRAM RADIUS	MAX. ANGLE FOR RAMPING		
				D	H	d	S	Z				
SN □□12	MFSP	050R-12-5T-C	●	50	40	22	3	5T	4,0	1.00	ST-SC0410	ST-WRT15
		052R-12-5T-C	●	52	40	22	3	5T	4,5	0.40	ST-SC0410	ST-WRT15
		063R-12-5T-C	●	63	40	22	3	5T	4	0.40	ST-SC0410	ST-WRT15
		080R-12-5T-C	●	80	40	22	3	5T	4	0.30	ST-SC0410	ST-WRT15
		080R-12-8T-C	●	80	40	22	3	8T	4	0.30	ST-SC0410	ST-WRT15
		100R-12-8T-C	●	100	40	22	3	8T	4	0.20	ST-SC0410	ST-WRT15
		125R-12-10T	●	125	40	22	3	10T	4	0.20	ST-SC0410	ST-WRT15
		160R-12-12T	●	160	40	22	3	12T	4	0.18	ST-SC0410	ST-WRT15
		2000R-12-14T	●	2000	-	-	3	14T	4	0.15	ST-SC0410	ST-WRT15
		200R-12-10T	●	200	-	-	3	10T	4	0.10	ST-SC0410	ST-WRT15

Carbide

303

MMSP

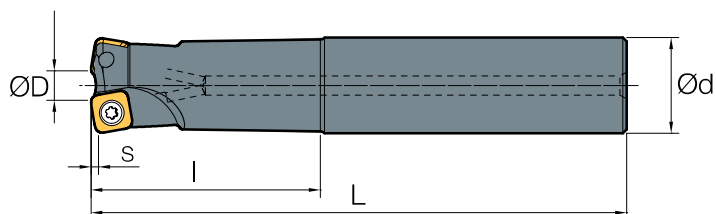
SP□□12



SP□□	DESCRIPTION		STOCK	DIMENSIONS							 		
				D	L	I	d	Z	ap	M			
SP□□12	MMSP	32-M16-12-2T-C	●	32	-	-	12	2	-	16	ST-SC0410	ST-WRT15	
		40-M16-12-3T-C	●	40	-	-	12	3	-	16	ST-SC0410	ST-WRT15	

MSSP

SP□□12

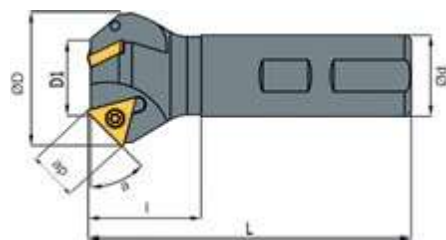


SP□□	DESCRIPTION		STOCK	DIMENSIONS							 		
				D	L	I	d	Z	ap	M			
SP□□12	MSSP	32-160-12-32-2T-C	●	32	160	-	32	2	-	-	ST-SC0410	ST-WRT15	
		40-160-12-32-3T-C	●	40	160	-	32	3	-	-	ST-SC0410	ST-WRT15	

Carbide

303

CHAMFER CUTTER TC□□

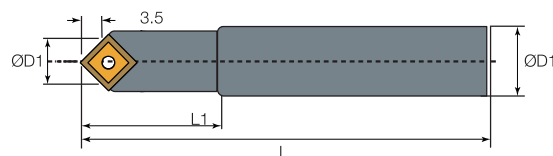


TC□□		DESCRIPTION	STOCK	DIMENSIONS										
				D	L	I	d	Z	ap					
TC□□11	MF	45-TC11-04-15-4100	●	15	100	35	16	1	11	45°	ST-SC0257	ST-WRT08		
TC□□16	MF	45-TC16-010-31-4100	●	31	100	35	16	1	16	45°	ST-SC3511	ST-WR115		
		45-TC16-014-35-4100	●	35	100	35	20	2	16	45°	ST-SC3511	ST-WR115		
		45-TC16-022-43-4100	●	43	100	25	35	2	16	45°	ST-SC3511	ST-WR115		
		45-TC16-05-23-4100	●	23	100	35	16	3	16	45°	ST-SC3511	ST-WR115		
		60-TC16-06-20-4100	●	20	100	35	16	3	16	60°	ST-SC3511	ST-WR115		

Turning Carbide

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CHAMFER CUTTER SD□□

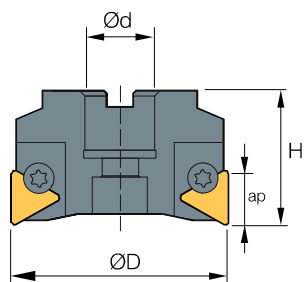


SD□□		DESCRIPTION	STOCK	DIMENSIONS										
				D	L	L1	d	ap						
TC□□08	SCE	45N-D0010Z1-SD08	●	0	90	-	10	10.00			ST-SC0309	ST-WRT08		
TC□□11	SCE	45N-D0014Z1-SD11	●	0	120	40	20	14.00			ST-SC0411	ST-WRT15		
	SCE	45R-D0921Z1-SD11	●	9.00	120	40	20	21.00			ST-SC0411	ST-WRT15		
	SCE	45R-D1933Z2-SD11	●	19.00	120	40	20	33.90			ST-SC0411	ST-WRT15		
	SCE	45R-D2739Z3-SD11	●	27.66	120	40	20	39.42			ST-SC0411	ST-WRT15		

Carbide

300

MFTP

TP [illegible]

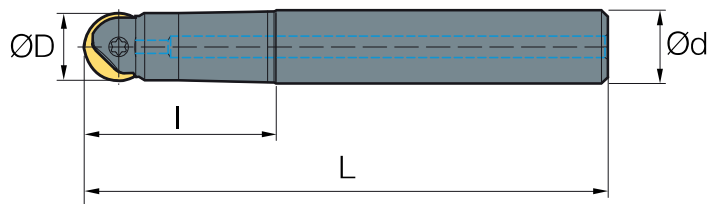
Carbide

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HOLDERS /MILLING

MSTW

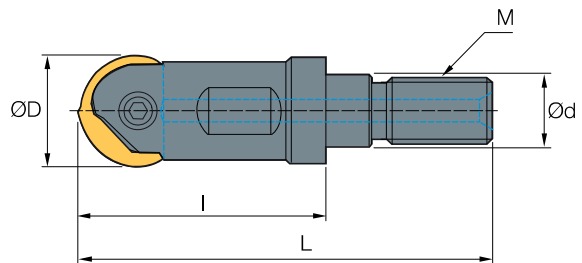
TW□□



TW□□	DESCRIPTION		STOCK	DIMENSIONS								
				D	L	l	d	Z				
TW08	MSTW	08-110-D10	●	08	110	25	08	1T	ST-TC170	ST-WRT08		
TW10	MSTW	10-130-D12	●	10	130	30	10	1T	ST-TC172	ST-WRT15		
TW12	MSTW	12-130-D12	●	12	130	32	12	1T	ST-TC174	ST-WRT20		
TW16	MSTW	16-140-D16	●	16	140	-	16	1T	ST-TC176	ST-WRT20		
TW20	MSTW	20-160-D20	●	20	160	-	20	1T	ST-TC178	ST-WRT20		
TW25	MSTW	25-160-D25	●	25	160	-	25	1T	ST-TC181	ST-WR0030		

MMTW

TW□□

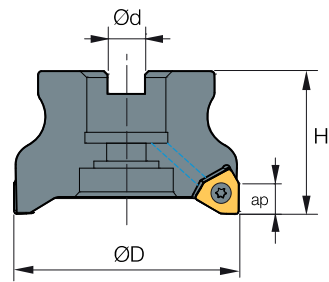


TW□□	DESCRIPTION		STOCK	DIMENSIONS									
				D	L	l	d	Z	M				
TW16	MMTW	16-M08-16	●	16	52	30	10,5	1T	8	ST-TC176	ST-WRT20		
TW20	MMTW	20-M10-20	●	20	52	35	12,5	1T	10	ST-TC178	ST-WRT20		
TW25	MMTW	25-M12-25	●	25	64	43	17	1T	12	ST-TC181	ST-WR0030		

Carbide

306

WN 08

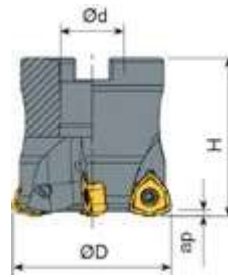
[illegible]

307

TURNING

MFWN

WN 00 09



GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

HSS DRILLS & TAPS

SPARE PARTS

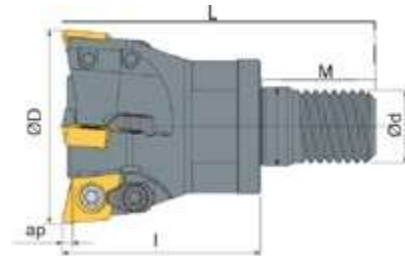
INDEX

[illegible]

Carbide

307

XD 10

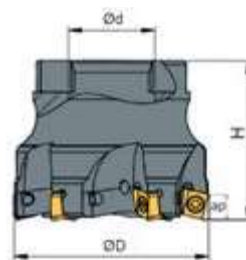
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308

HOLDERS / MILLING

MFYN

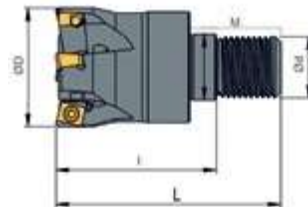
YN 00 06

[illegible]

Carbide

312

YN 0006

[illegible]

312

TURNING

MSYN

YN 0006



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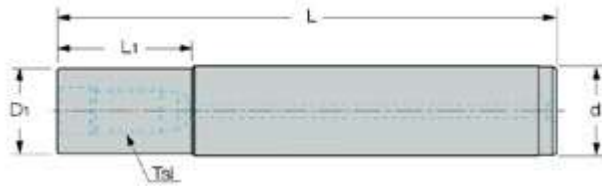
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Carbide

312

MAT

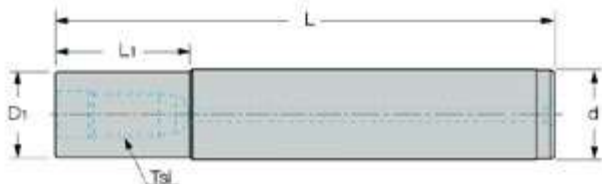
STEEL SHAFT



□□	DESCRIPTION		STOCK	DIMENSIONS								
				D	d	L	I	M				
	MAT	M10-120-S18/20	●	18	20	120	60	10				
		M10-170-S18/20	●	18	20	170	90	10				
		M12-160-S24/25	●	24	25	160	80	12				
		M12-200-S24/25	●	24	25	200	100	12				
		M12-250-S24/25	●	24	25	250	150	12				
		M16-160-S31/32	●	31	32	160	80	16				
		M16-200-S31/32	●	31	32	200	100	16				
		M16-250-S31/32	●	31	32	250	150	16				

MFT

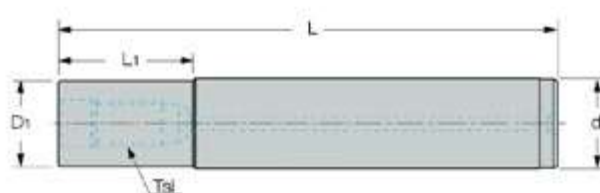
CARBIDE SHAFT



□□	DESCRIPTION		STOCK	DIMENSIONS								
				D	d	L	I	M				
	MFT	08-08-100-M4	●	8	8	100	-	M4				
		10-10-080-M5	●	10	10	80	-	M5				
		10-10-100-M5	●	10	10	100	-	M5				
		10-10-100-M6	●	10	10	100	-	M6				
		10-10-150-M5	●	10	10	150	-	M5				
		12-12-100-M6	●	12	12	100	-	M6				
		12-12-150-M6	●	12	12	150	-	M6				
		12-12-200-M6	●	12	12	200	-	M6				

MFT

CARBIDE SHAFT



□□	DESCRIPTION		STOCK	DIMENSIONS								
				D	d	L	I	M				
MFT	16-15-100-M8	●	16	15	100	50	M8					
	16-15-150-M8	●	16	15	150	50	M8					
	16-15.6-150-M8	●	16	15,6	150	50	M8					
	16-15-200-M8	●	16	15	200	50	M8					
	16-15.6-200-M8	●	16	15,6	200	50	M8					
	16-15.6-250-M8	●	16	15,6	250	50	M8					
	17-16-100-M8	●	17	16	100	-	M8					
	17-16-150-M8	●	17	16	150	-	M8					
	17-16-200-M8	●	17	16	200	-	M8					
	17-16-250-M8	●	17	16	250	-	M8					
	17-16-300-M8	●	17	16	300	-	M8					
	20-19-150-M10	●	20	19	150	-	M10					
	20-19-250-M10	●	20	19	250	-	M10					
	21-20-100-M10	●	21	20	100	-	M10					
	21-20-150-M10	●	21	20	150	-	M10					
	21-20-200-M10	●	21	20	200	-	M10					
	21-20-250-M10	●	21	20	250	-	M10					
	21-20-300-M10	●	21	20	300	-	M10					
	25-24-150-M12	●	25	24	150	50	M12					
	25-24-200-M12	●	25	24	200	50	M12					
	25-24-250-M12	●	25	24	250	100	M12					
	25-24-300-M12	●	25	24	300	100	M12					
	26-25-150-M12	●	26	25	150	-	M12					
	26-25-200-M12	●	26	25	200	-	M12					
	26-25-250-M12	●	26	25	250	-	M12					
	26-25-300-M12	●	26	25	300	-	M12					
	35-32-150-M16	●	35	32	150	50	M16					
	35-32-200-M16	●	35	32	200	50	M16					
	35-32-250-M16	●	35	32	250	100	M16					
	35-32-300-M16	●	35	32	300	100	M16					
	35-32-350-M16	●	35	32	350	150	M16					
	35-32-400-M16	●	35	32	400	200	M16					

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