

FRESAMENTO



FACEAMENTO E FRESAMENTO DE CANTOS 90° - COROMILL MF80 COM 8 ARESTAS



3 Nm

Ø mm

63

80

100

125

Fixação tipo árvore

Fresas

MF80-R063Q22-13M

MF80-R080Q27-13M

MF80-R100Q32-13M

MF80-R125Q40-13M

PARAF. PASTILHA

416.1-834 (T15)

PARAF. CALÇO

5512 090-11

CALÇO

5322 474-01

Z

5

6

8

10

MF80-130508 M-M50

1230

MF80-130508 M-M50

4330

ap: 4 mm(0.5-6mm)

fn: 0,20 mm/r (0.1-0.4)

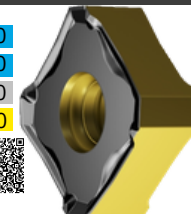
Vc: 240 / 170 m/min





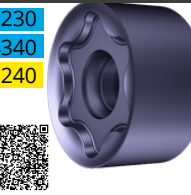
COROMILL 345 - FACEAMENTO 45° DE ALTA PRODUTIVIDADE E PASTILHAS COM 8 ARESTAS

	3 Nm	Ø (mm)	Fresas	Z	PARAF. PASTILHA	345R-1305M-PM	1230
					416.1-834 (T15)	345R-1305M-PM	4330
					PARAF. CALÇO	345R-1305M-PM	1010
					5512 090-11	345R-13T5M-MM	1240
					CALÇO	ap: 4.0 mm (0.5-5mm)	
					5322 474-01	fz: 0,25 mm (0.15-0.4)	
						Vc: 250 / 120 / 100 m/min	
		50	345-050Q22-13M	4			
		63	345-063Q22-13M	5			
		80	345-080Q27-13M	6			
		100	345-100Q32-13M	7			
		125	345-125Q40-13M	8			
							



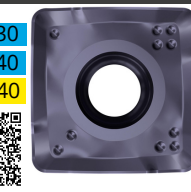
FACEAMENTO E FRESAMENTO DE PERFIS ECONÔMICOS - 12 ARESTAS- COROMILL MR80

	Ømm	Fresas	Z	PARAF. PASTILHA	MR80-1206E-L50	1230
	32	MR80-R032A32-12H	3	5513 020-12 (T9)	MR80-1206E-L50	4340
	40	MR80-R040A32-12H	4	PARAF. CALÇO	MR80-1206E-L50	1240
	50	MR80-R050Q22-12M	4	5512 090-09	ap: 4mm (0.5-7 mm)	
	63	MR80-R063Q22-12M	6	CALÇO	fz: 0,20 mm (0.1-0.4)	
	80	MR80-R080Q27-12M	8	5322 174-01	Vc: 250 / 160 m/min	



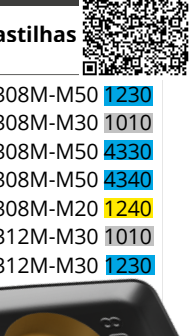
FRESAMENTO DE CANTOS 90° - COROMILL 490

 3 Nm	Fixação tipo árvore	PARAF. PASTILHA		490R-140408M-PM	1230		
	Ømm	Fresas	Z	5513 020-72 (T15)	490R-140408M-PM		4340
				PARAF. CALÇO	490R-140408M-MM		1240
				5512 090-01	ap: 4mm (0.5-7 mm) fz: 0,20 mm (0.1-0.4) Vc: 250 / 160 m/min		
	50	490-050Q22-14M	4				
	63	490-063Q22-14M	5				
	80	490-080Q27-14M	6				
				CALÇO			
				5322 471-01			



COROMILL® MS20, FRESA VERSÁTIL PARA FRESAMENTO DE CANTOS A 90 GRAUS

	Ø (mm)	Haste cilíndrica	EH		Z	Pastilhas	
	16	MS20-R016A16-10L	MS20-R016AEH-16L	2	MS20-10T308M-M50	1230	
	18	MS20-R018A16L-10L	MS20-R018EH16-10L	2	MS20-10T308M-M30	1010	
	20	MS20-R020A20-10M	MS20-R020EH20-10M	2	MS20-10T308M-M50	4330	
	22	MS20-R022A20L-10L	MS20-R022EH20-10L	3	MS20-10T308M-M50	4340	
	25	MS20-R025A25-10M	MS20-R025EH25-10M	3	MS20-10T308M-M20	1240	
	30	MS20-R030A25L-10L	---	3	MS20-10T312M-M30	1010	
	32	MS20-R032A32-10M	MS20-R032EH25-10M	2	MS20-10T312M-M30	1230	
	40	MS20-R040A32-10M		3			
					4		



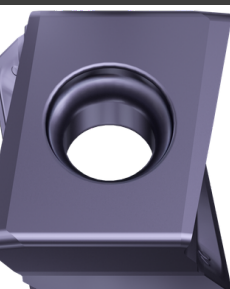
COROMILL MS20 COM SILENT TOOLS

20	MS20D-R020A20-10M	3	COMPONENTES MS20-10	Vc (m/min):	200
25	MS20D-R025A25-10M	3		ap: 3mm	80
32	MS20D-R032A32-10M	3	PARAF. PASTILHA 5513 020-90 (T9 - 1.6Nm)	fz: 0.1mm	100
					200



COROMILL MS40 - A SOLUÇÃO PARA FRESAMENTO TANGENCIAL COM CANTOS 90°





Ømm	Fresas	Z	PASTILHAS
25	MS40-R025A25-09M	4	MS40-090404M-M40 1230
32	MS40-R032A32-09M	5	MS40-090404M-M40 1240
50	MS40-R050Q22-13M	5	MS60-11T308M-M40 4330
63	MS40-R063Q22-13M	6	MS40-130608M-M50 1230
50	MS40-R050Q22-45M		MS40-130608M-M50 1240
			MS60-160508M-M40 4330

PARAF. PASTILHA 09
5513 020-95 (T9 - 1.4Nm)

PARAF. PASTILHA 13
5513 020-96 (T15 - 3Nm)

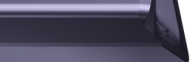
ap: 3mm (0.5-7 mm)
fz: 0,15 mm (0.1-0.4)
Vc: 250 / 160 m/min



PARAF. PASTILHA 09
5513 020-95 (T9 - 1.4Nm)

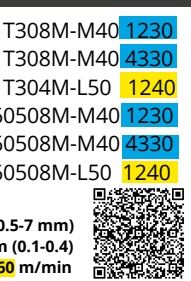
PARAF. PASTILHA 13
5513 020-96 (T15 - 3Nm)

ap: 3mm (0.5-7 mm)
fz: 0,15 mm (0.1-0.4)
Vc: 250 / 160 m/min



VERSATILIDADE EM FACEAMENTO E FRESAMENTO DE CANTOS 90° - COROMILL MS60

Ømm	Fresas	Z		MS60-11T308M-M40	1230
25	MS60-R025A25-11M	3		MS60-11T308M-M40	4330
32	MS60-R032A32-11M	4		MS60-11T304M-L50	1240
50	MS60-R050Q22-16M	5		MS60-160508M-M40	1230
63	MS60-R063Q22-16M	6		MS60-160508M-M40	4330
80	MS60-R080Q27-16M	7		MS60-160508M-L50	1240
PARAF. PASTILHA 11		PARAF. PASTILHA 16		ap: 4mm (0.5-7 mm)	
5513 020-03 (T7 = 0,9N)		5513 020-64 (T10 - 2Nm)		fz: 0,20 mm (0.1-0.4)	
				Vc: 250 /160 m/min	



PARAF. PASTILHA 11
5513 020-03 (T7 = 0.9N)

PARAF. PASTILHA 16
5513 020-64 (T10 - 2Nm)

ap: 4mm (0.5-7 mm)
fz: 0,20 mm (0.1-0.4)
Vc: 250 / 160 m/min



FRESAMENTO



COROMILL MH20 - FRESAMENTO DE BOLSÕES COM ALTO AVANÇO

Ø (mm)	Fresas	FRESA ACOPLAMENTO EH	Z	PASTILHAS
16	MH20-R016A16-06L	MH20-R016EH16-06L	2	MH20-060320M-M20 1010
20	MH20-R020A20-08L	MH20-R020EH20-08L	2	MH20-060320M-M50 1230
25	MH20-R025A25-08M	MH20-R025EH25-08M	3	MH20-060320E-L50 1240
32	MH20-R032A32-08M	MH20-R032EH25-08M	4	MH20-080425M-M50 1230
50	MH20-R050Q22-08M		5	MH20-080425M-M20 1010
63	MH20-R063Q22-08M		6	MH20-080425E-L50 1240

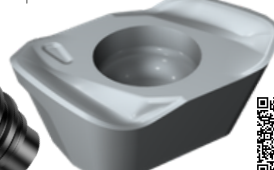
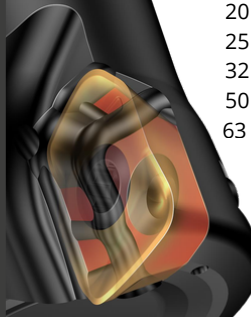
PARAF. PASTILHA

MH20-06
5513 020-48 (T9 - 0.9Nm)

MH20-08
5513 020-64 (T10 - 1.4Nm)

ap: 0.5-0.8mm
fz: 0.70 mm/r

Vc:
170 / 100 / 80 m/min



PARAF. PASTILHA
MH20-06
5513 020-48 (T9 - 0.9Nm)
MH20-08
5513 020-64 (T10 - 1.4Nm)

ap: 0.5-0.8mm
fz: 0,70 mm/r
Vc: 170 / 100 / 80 m/min



COROMILL 210 - FACEAMENTO E FRESAMENTO EM MERGULHO COM ALTO AVANÇO



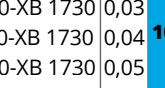
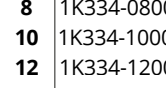
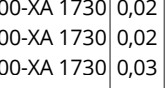
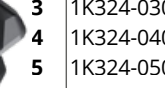

FRESA		COMPONENTES 210-14		PASTILHAS	
63	R210-063Q27-14M	4		R210-140514E-PM	1230
80	R210-080Q27-14M	5	PARAF. PASTILHA 5513 020-50 (T20)	R210-140514E-PM	1010
100	R210-100Q32-14M	6	5 Nm	R210-140514E-MM	1240
125	R210-125Q40-14M	7		Pastilha 14: ap: 1,5mm fz: 1.5mm/r (0.4-2.0mm)	
160	R210-160Q40-14M	8	Vc: 200 / 120 / 100 m/min		





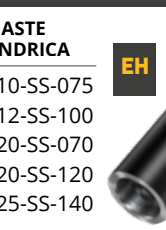
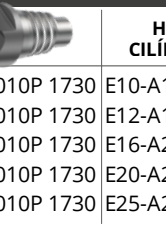
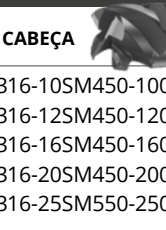
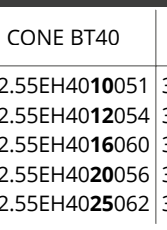
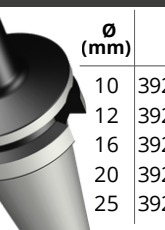
FRESAS DE TOPO INTEIRIÇAS - COROMILL DURA 4 CORTES COM TECNOLOGIA WhisperKut™

	Ø (mm)	CODIGO	fz	Ø (mm)	CODIGO	fz	Vc (m/min)
	2	1K324-0200-XA 1730	0,01	6	1K334-0600-XB 1730	0,03	100 65 120
	3	1K324-0300-XA 1730	0,02	8	1K334-0800-XB 1730	0,03	
	4	1K324-0400-XA 1730	0,02	10	1K334-1000-XB 1730	0,04	
	5	1K324-0500-XA 1730	0,03	12	1K334-1200-XB 1730	0,05	



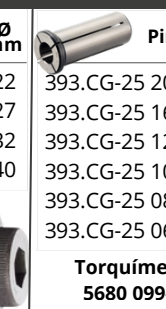
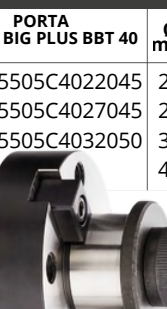
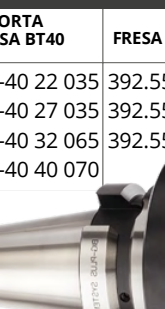
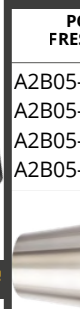
COROMILL 316 -CABEÇAS INTEIRIÇAS DE METAL DURO INTERCAMBIÁVEIS

Ø (mm)	CONE BT40	CABEÇA	HASTE CILÍNDRICA	EH
10	392.55EH40	10051	316-10SM450-10010P 1730	E10-A10-SS-075
12	392.55EH40	12054	316-12SM450-12010P 1730	E12-A12-SS-100
16	392.55EH40	16060	316-16SM450-16010P 1730	E16-A20-SS-070
20	392.55EH40	20056	316-20SM450-20010P 1730	E20-A20-SS-120
25	392.55EH40	25062	316-25SM550-25010P 1730	E25-A25-SS-140



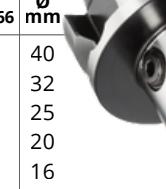
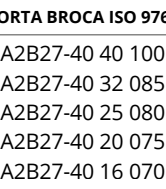
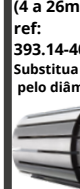
SISTEMAS DE FIXAÇÃO - NORMA MAS-BT40

PORTA FRESA BT40	PORTA FRESA BIG PLUS BBT 40	Ø mm	Pinças	Ø mm	CONE HIDRÁULICO CoroChuck 930
A2B05-40 22 035	392.55505C4022045	22	393.CG-25 20 56	20	930-B40-HD-25-094
A2B05-40 27 035	392.55505C4027045	27	393.CG-25 16 56	16	
A2B05-40 32 065	392.55505C4032050	32	393.CG-25 12 56	12	
A2B05-40 40 070		40	393.CG-25 10 56	10	
			393.CG-25 08 56	08	
			393.CG-25 06 56	06	



Pinça ER40 (4 a 26mm)
ref: 393.14-40 XX0
Substitua o XX pelo diâmetro

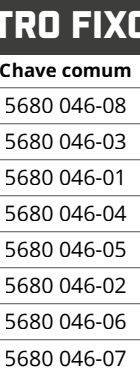
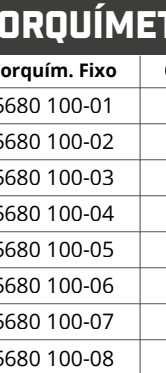
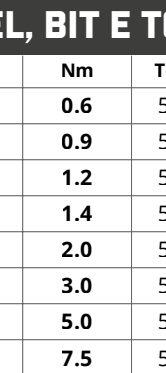
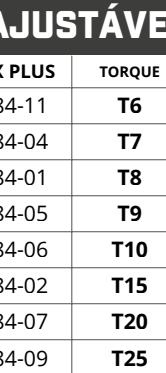
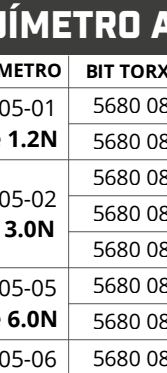
PORTA PINÇA: A2B14-40 40 070



CHAVE
5680 096-04

TORQUÍMETRO AJUSTÁVEL, BIT E TORQUÍMETRO FIXO

TORQUÍMETRO	BIT TORX PLUS	TORQUE	Nm	Torquím. Fixo	Chave comum
5680 105-01	5680 084-11	T6	0.6	5680 100-01	5680 046-08
0.3 até 1.2N	5680 084-04	T7	0.9	5680 100-02	5680 046-03
	5680 084-01	T8	1.2	5680 100-03	5680 046-01
5680 105-02	5680 084-05	T9	1.4	5680 100-04	5680 046-04
1.2 até 3.0N	5680 084-06	T10	2.0	5680 100-05	5680 046-05
	5680 084-02	T15	3.0	5680 100-06	5680 046-02
5680 105-05	5680 084-07	T20	5.0	5680 100-07	5680 046-06
3.0 até 6.0N	5680 084-09	T25	7.5	5680 100-08	5680 046-07



FURAÇÃO



CORODRILL 880 COM STEP TECHNOLOGY - DIÂMETRO 12-84 MM

Ø (mm)	Broca	Parafuso	Pastilha Central e Periférica
12 - 13,5	880-D1200L20-03 880-DXXXXL20-0Y	5513 020-28 (T6 - 0.6Nm)	C 880-010203H-C-LM 1144 P 880-0102W04H-P-LM 4344
14 - 16	880-D1400L20-03 880-DXXXXL20-0Y	5513 020-28 (T6 - 0.6Nm)	C 880-020204H-C-LM 1144 P 880-0202W05H-P-LM 4344
16,5-19,5	880-D1650L20-03 880-DXXXXL20-0Y	5513 020-33 (T7 - 0.9Nm)	C 880-030305H-C-LM 1144 P 880-0303W06H-P-LM 4344
20 - 23,5	880-D2000L25-03 880-DXXXXL25-0Y*	5513 020-58 (T7 - 0.9Nm)	C 880-040305H-C-LM 1144 P 880-0403W07H-P-LM 4344
24 - 29,5	880-D2400L25-03 880-DXXXXL32-0Y	5513 020-57 (T9 - 1.4Nm)	C 880-050305H-C-LM 1144 P 880-0503W08H-P-LM 4344
30 - 35,5	880-D3000L32-03 880-DXXXXL40-0Y	416.1-833 (T10 - 2.0Nm)	C 88