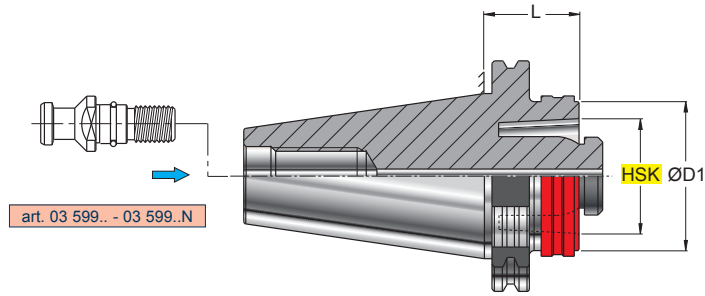



## ART. ISO.A.. HSK.. DIN 69871/AD

**NEW**



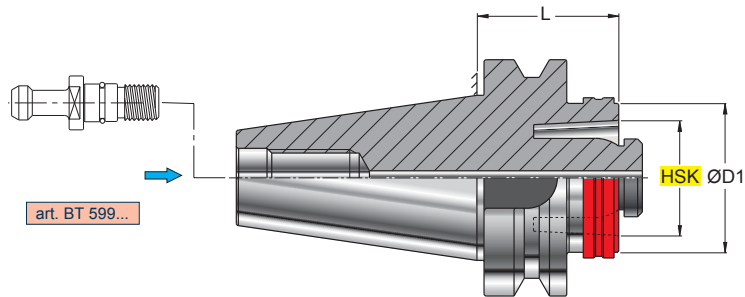
ADATTATORE BASE  
BASIC ADAPTER  
GRUNDAUFNAHMEN  
ADAPTATEUR BASIQUE

PRE-EQUILBRATO PRE-BALANCED  
G 6,3 8000 min-1

ART.	 (mm)	HSK	ØD1	L
ISO.A50.HSK063.040	ISO50	HSK63	63	40


## ART. MAS.A.. HSK.. MAS 403 BT/AD

**NEW**



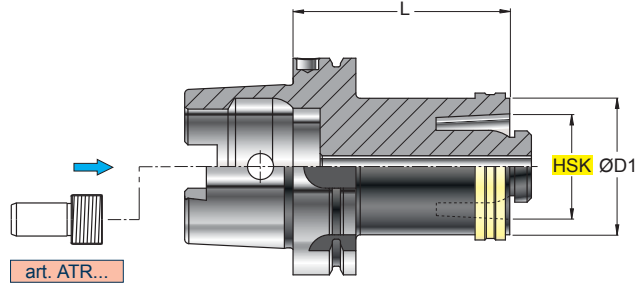
ADATTATORE BASE  
BASIC ADAPTER  
GRUNDAUFNAHMEN  
ADAPTATEUR BASIQUE

PRE-EQUILBRATO PRE-BALANCED  
G 6,3 8000 min-1

ART.	 (mm)	HSK	ØD1	L
MAS.A50.HSK063.060	ISO50	HSK63	63	60

## ART. HSK. ..RDU .. DIN 69893/A

**NEW**



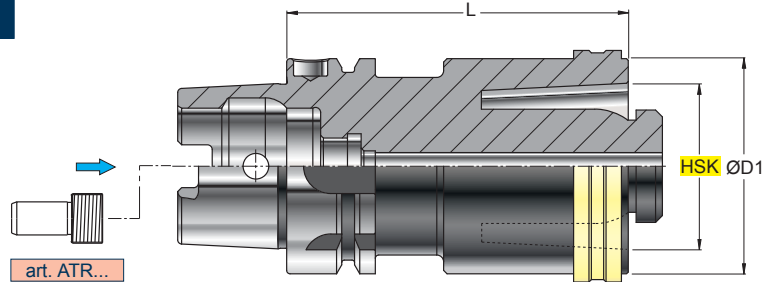
RIDUZIONE  
REDUCTION  
REDUZIERUNGEN  
RÉDUCTION

PRE-EQUILBRATO PRE-BALANCED  
G 6,3 8000 min-1

ART.		(mm)								
		HSK	ØD1	L						
HSK.100.RDU063.100	HSK100	HSK63	63	100						

## ART. HSK. ..PRL .. DIN 69893/A

**NEW**



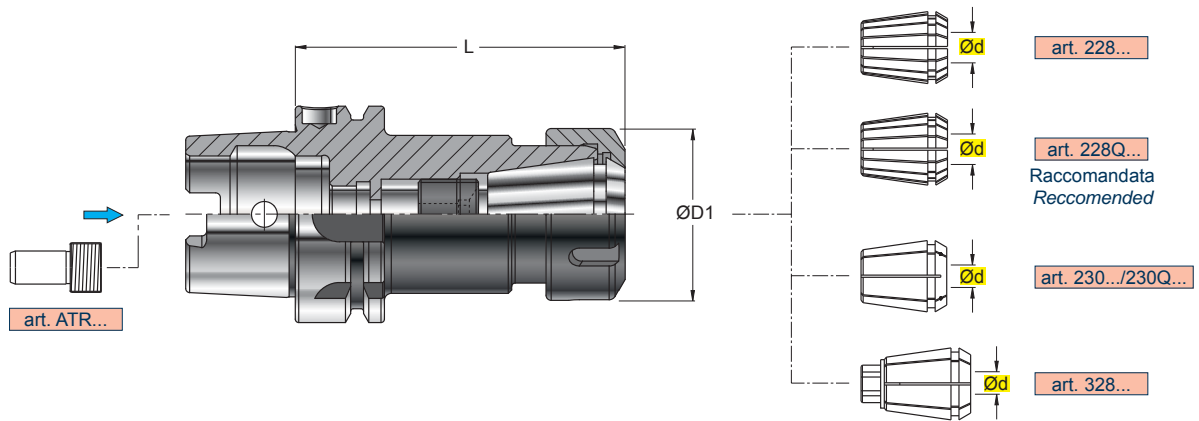
PROLUNGA  
EXTENSION  
VERLÄNGERUNG  
RALLONGE

PRE-EQUILBRATO PRE-BALANCED  
G 6,3 8000 min-1

ART.		(mm)								
		HSK	ØD1	L						
HSK.063.PRL063.100	HSK63	HSK63	63	100						

## ART. HSK. ..ER .. DIN 69893/A

ER-DIN 6499



**PORTAPINZA DI PRECISIONE**  
PRECISION COLLET HOLDER  
PRÄZISIONSSPANNFUTTER  
MANDRIN PORTE-PINCE DE PRÉCISION

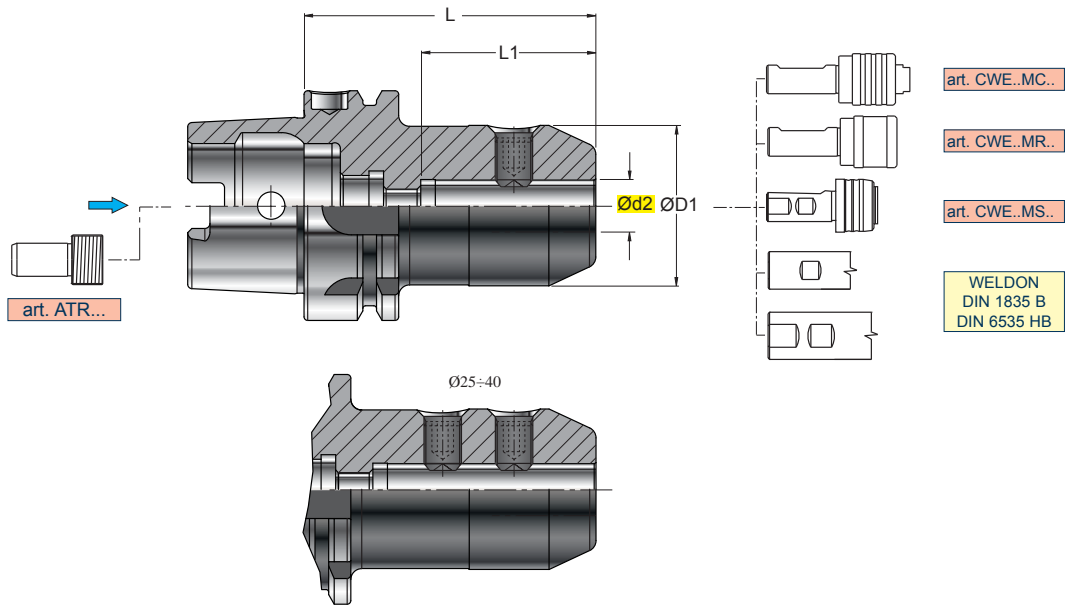
	0,003 L ≤ 140
	0,005 L ≤ 200

	PRE-EQUILIBRATO PRE-BALANCED
	G 6,3 8000 min-1

ART.		(mm)							
		Ød	ØD1	L					
HSK.063.ER016.100	HSK63	0,5-10	28	100	--.016.--	RGS ER16	925.022	RGK ER16	926.030
HSK.063.ER016.160	HSK63	0,5-10	22	160	--.016.--	RGM ER16	938.016	-	-
HSK.063.ER025.100	HSK63	0,5-16	42	100	--.025.--	RGS ER25	925.040	RGK ER25	926.040
HSK.063.ER025.150	HSK63	0,5-16	42	150	--.025.--				
HSK.063.ER032.100	HSK63	2-20	50	100	--.032.--	RGS ER32	925.052	RGK ER32	926.052
HSK.063.ER032.150	HSK63	2-20	50	150	--.032.--				
HSK.063.ER032.200	HSK63	2-20	50	200	--.032.--				
HSK.063.ER040.100	HSK63	3-30	63	100	--.040.--	RGS ER40	925.068	RGK ER40	926.068
HSK.063.ER040.150	HSK63	3-30	63	150	--.040.--				
HSK.100.ER016.120	HSK100	0,5-10	28	120	--.016.--	RGS ER16	925.022	RGK ER16	926.030
HSK.100.ER025.120	HSK100	0,5-16	42	120	--.025.--	RGS ER25	925.040	RGK ER25	926.040
HSK.100.ER025.150	HSK100	0,5-16	42	150	--.025.--				
HSK.100.ER032.120	HSK100	2-20	50	120	--.032.--	RGS ER32	925.052	RGK ER32	926.052
HSK.100.ER032.150	HSK100	2-20	50	150	--.032.--				
HSK.100.ER040.120	HSK100	3-30	63	120	--.040.--	RGS ER40	925.068	RGK ER40	926.068

ART. HSK. ..WEH..  
DIN 69893/A

DIN 6359 B



**MANDRINO PER ATTACCHI TIPO WELDON**  
END MILL HOLDER FOR WELDON CONNECTION  
WERKZEUGAUFNAHME FÜR WELDON-TYPE  
MANDRIN POUR ATTACHEMENT WELDON

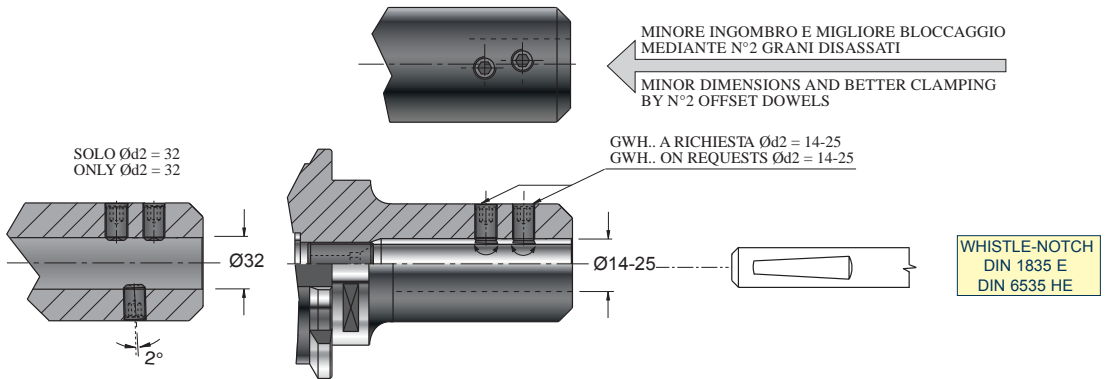
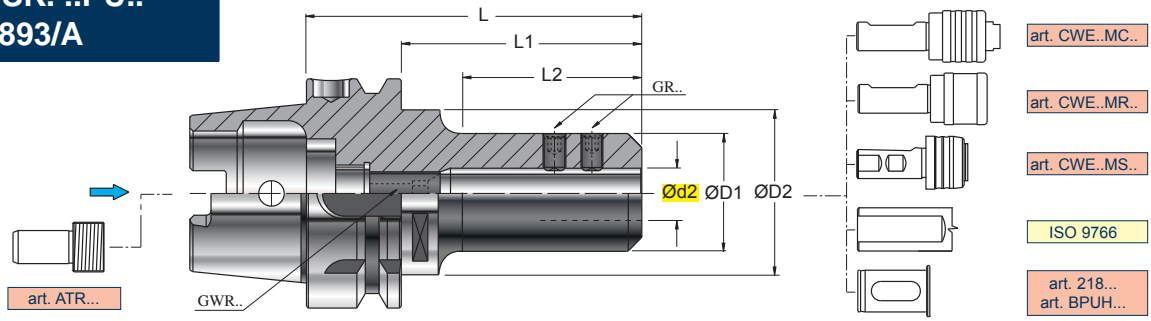
Ød2 H5

0,005

PRE-EQUILIBRATO PRE-BALANCED  
G 6,3 8000 min-1

ART.		(mm)								
		Ød2	ØD1	L	L1					
HSK.063.WEH06.065	HSK63	6	25	65	38	GR06	5003			
HSK.063.WEH06.150	HSK63	6	25	150	38					
HSK.063.WEH08.065	HSK63	8	28	65	38	GR08	5004			
HSK.063.WEH08.150	HSK63	8	28	150	38					
HSK.063.WEH10.075	HSK63	10	35	75	45	GR10	5005			
HSK.063.WEH10.150	HSK63	10	35	150	45					
HSK.063.WEH12.080	HSK63	12	42	80	48	GR1215	5006			
HSK.063.WEH12.150	HSK63	12	42	150	50					
HSK.063.WEH14.080	HSK63	14	44	80	48	GR1415	5006			
HSK.063.WEH14.150	HSK63	14	44	150	50					
HSK.063.WEH16.080	HSK63	16	48	80	50	GR1615	5008			
HSK.063.WEH16.150	HSK63	16	48	150	50					
HSK.063.WEH18.080	HSK63	18	50	80	50	GR1815	5008			
HSK.063.WEH20.080	HSK63	20	52	80	50					
HSK.063.WEH20.150	HSK63	20	52	150	55	GR2015	5010			
HSK.063.WEH25.110	HSK63	25	65	110	65					
HSK.063.WEH32.110	HSK63	32	72	110	65					
HSK.100.WEH06.080	HSK100	6	25	80	38	GR06	5003			
HSK.100.WEH06.150	HSK100	6	25	150	38					
HSK.100.WEH08.080	HSK100	8	28	80	38	GR08	5004			
HSK.100.WEH08.150	HSK100	8	28	150	38					
HSK.100.WEH10.085	HSK100	10	35	85	45	GR10	5005			
HSK.100.WEH10.150	HSK100	10	35	150	45					
HSK.100.WEH12.090	HSK100	12	42	90	50	GR1215	5006			
HSK.100.WEH12.150	HSK100	12	42	150	50					
HSK.100.WEH14.090	HSK100	14	44	90	50	GR1415	5006			
HSK.100.WEH14.150	HSK100	14	44	150	50					
HSK.100.WEH16.100	HSK100	16	48	100	55	GR1615	5008			
HSK.100.WEH16.150	HSK100	16	48	150	50					
HSK.100.WEH18.100	HSK100	18	50	100	55	GR1815	5008			
HSK.100.WEH20.100	HSK100	20	52	100	55					
HSK.100.WEH20.150	HSK100	20	52	150	55	GR2015	5010			
HSK.100.WEH25.100	HSK100	25	65	100	60					
HSK.100.WEH25.150	HSK100	25	65	150	60					
HSK.100.WEH32.110	HSK100	32	72	110	65					
HSK.100.WEH32.150	HSK100	32	72	150	65					
HSK.100.WEH40.120	HSK100	40	80	120	75					
HSK.100.WEH40.150	HSK100	40	80	150	75					

## ART. HSK. ..PU.. DIN 69893/A



**PORTAPUNTA UNIVERSALE**  
UNIVERSAL ADAPTER FOR DRILLING TOOLS  
WELDON-AUFNAHME FÜR VOLLBOHRER  
PORTE-FORET UNIVERSEL

Ød2 H5

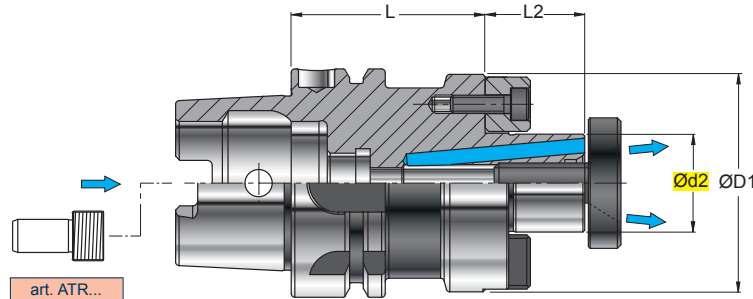
0,003

PRE-EQUILIBRATO	PRE-BALANCED
	HSK63 = G6,3 10000 min <sup>-1</sup>
	HSK100 = G6,3 8000 min <sup>-1</sup>

ART.		(mm)											
		Ød2	ØD1	ØD2	L	L1	L2						
HSK.063.PU16.100	HSK63	16	38	52,5	100	74	52	n°2 GR10	GWR12	5005	5006	GWH10	5005
HSK.063.PU20.100	HSK63	20	42	52,5	100	74	52	n°2 GR10	GWR16	5005	5008	GWH10	5005
HSK.063.PU25.090	HSK63	25	48	52,5	90	64	46	n°2 GR10	-	5005	-	GWH10	5005
HSK.063.PU32.090	HSK63	32	58	52,5	90	64	-	n°3 GR14	-	5006	-	-	-
HSK.063.PU40.100	HSK63	40	64	52,5	100	74	-						
HSK.100.PU16.140	HSK100	16	38	84,5	140	111	50	n°2 GR10	GWR12	5005	5006	GWH10	5005
HSK.100.PU20.140	HSK100	20	42	84,5	140	111	50	n°2 GR10	GWR16	5005	5008	GWH10	5005
HSK.100.PU25.130	HSK100	25	48	84,5	130	101	55	n°2 GR10	GWR20	5005	5010	GWH10	5005
HSK.100.PU32.130	HSK100	32	58	84,5	130	101	60	n°3 GR14	-	5006	-	-	-
HSK.100.PU40.130	HSK100	40	68	84,5	130	101	70	n°2 GR16	-	5008	-	-	-

**ART. HSK. ..FSW..  
DIN 69893/A**

**DIN 138**



**PORTAFRESA A TRASCINAMENTO FRONTALE CON TENONE**  
SHELL END-MILL HOLDERS WITH TENON  
FRÄSERAUFNAHME MIT QUERNUT UND LAPPEN  
ADAPTEUR POUR CONE MORSE AVEC TENON

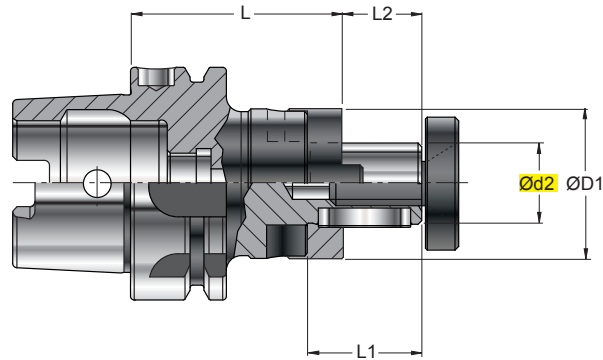
0,01

PRE-EQUILIBRATO PRE-BALANCED  
G 6.3 8000 min-1

ART.		(mm)				Ød2	ØD1	L	L2						
		Ød2	ØD1	L	L2										
HSK.063.FSW016.050	HSK63	16	40	50	17	RS16	VBS08	TSFS16	VB 02	CTE05	5025				
HSK.063.FSW022.050	HSK63	22	50	50	19	RS22	VBS10	TSFS22	VB 04	CTE06	5003				
HSK.063.FSW027.060	HSK63	27	60	60	21	RS27	VBS12	TSFS27	VB 05	CTE08	5004				
HSK.063.FSW032.060	HSK63	32	68	60	24	RS32	VBS16	TSFS32	VB 05	CTE10	5004				
HSK.063.FSW040.062	HSK63	40	82	62	27	RS40	VBS20	TSFS40	VB 06	CTE12	5005				
HSK.100.FSW022.050	HSK100	22	50	50	19	RS22	VBS10	TSFS22	VB 04	CTE06	5003				
HSK.100.FSW027.050	HSK100	27	60	50	21	RS27	VBS12	TSFS27	VB 05	CTE08	5004				
HSK.100.FSW032.050	HSK100	32	68	50	24	RS32	VBS16	TSFS32	VB 05	CTE10	5004				
HSK.100.FSW040.060	HSK100	40	82	60	27	RS40	VBS20	TSFS40	VB 06	CTE12	5005				

**ART. HSK. ..FC..  
DIN 69893/A**

**DIN 6358 B**



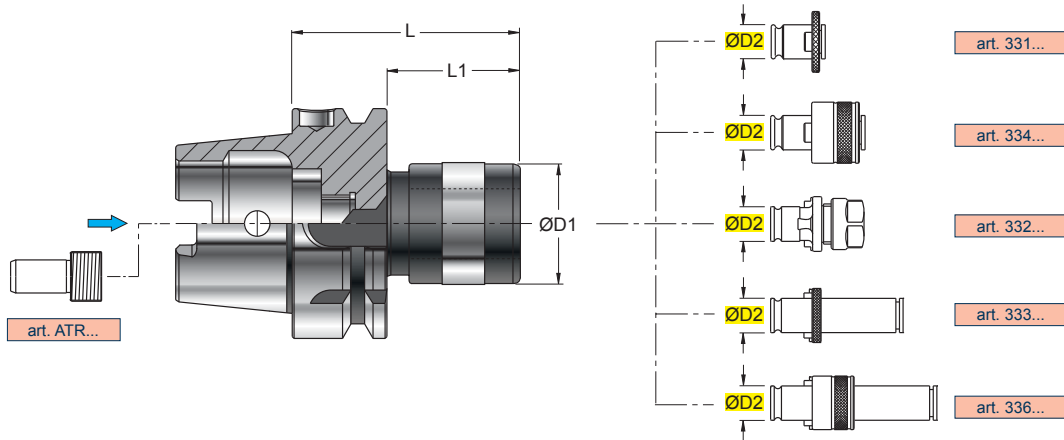
**PORTAFRESA A TRASCINAMENTO COMBINATO PER FRESE A MANICOTO E A DISCO**  
 COMBI FACE MILL HOLDERS FOR SHELL-END AND DISC MILLING CUTTERS.  
 FRÄSERAUFNAHME KOMBINIERT FÜR AUFSTECK-UND SCHEIBENFRÄSER  
 MANDRIN PORTE-FRAISE À ENTRAÎNEMENT COMBINÉ POUR FRAISES À MANCHON ET DE DISQUE

0,01


PRE-EQUILIBRATO PRE-BALANCED  
 G 6,3 8000 min-1

ART.		(mm)									
		Ød2	ØD1	L	L1	L2					
HSK.063.FC016.060	HSK63	16	32	60	27	17	RS 16	VBS08	CT0420	08.3501.016.AT	CTE05
HSK.063.FC016.100	HSK63	16	32	100	27	17	RS 16	VBS08	CT0420	08.3501.016.AT	CTE05
HSK.063.FC016.150	HSK63	16	32	150	27	17	RS 16	VBS08	CT0420	08.3501.016.AT	CTE05
HSK.063.FC022.060	HSK63	22	40	60	31	19	RS 22	VBS10	CT0625	08.3502.022.AT	CTE06
HSK.063.FC022.100	HSK63	22	40	100	31	19	RS 22	VBS10	CT0625	08.3502.022.AT	CTE06
HSK.063.FC022.150	HSK63	22	40	150	31	19	RS 22	VBS10	CT0625	08.3502.022.AT	CTE06
HSK.063.FC027.060	HSK63	27	48	60	33	21	RS 27	VBS12	CT0725	08.3503.027.AT	CTE08
HSK.063.FC027.100	HSK63	27	48	100	33	21	RS 27	VBS12	CT0725	08.3503.027.AT	CTE08
HSK.063.FC027.150	HSK63	27	48	150	33	21	RS 27	VBS12	CT0725	08.3503.027.AT	CTE08
HSK.063.FC032.065	HSK63	32	58	65	38	24	RS 32	VBS16	CT0828	08.3504.032.AT	CTE10
HSK.063.FC032.100	HSK63	32	58	100	38	24	RS 32	VBS16	CT0828	08.3504.032.AT	CTE10
HSK.063.FC032.150	HSK63	32	58	150	38	24	RS 32	VBS16	CT0828	08.3504.032.AT	CTE10
HSK.063.FC040.077	HSK63	40	70	77	41	27	RS 40	VBS20	CT1032	08.3505.040.AT	CTE12
HSK.063.FC040.100	HSK63	40	70	100	41	27	RS 40	VBS20	CT1032	08.3505.040.AT	CTE12
HSK.100.FC016.063	HSK100	16	32	63	27	17	RS 16	VBS08	CT0420	08.3501.016.AT	CTE05
HSK.100.FC022.060	HSK100	22	40	60	31	19	RS 22	VBS10	CT0625	08.3502.022.AT	CTE06
HSK.100.FC022.090	HSK100	22	40	90	31	19	RS 22	VBS10	CT0625	08.3502.022.AT	CTE06
HSK.100.FC022.120	HSK100	22	40	120	31	19	RS 22	VBS10	CT0625	08.3502.022.AT	CTE06
HSK.100.FC027.060	HSK100	27	48	60	33	21	RS 27	VBS12	CT0725	08.3503.027.AT	CTE08
HSK.100.FC027.090	HSK100	27	48	90	33	21	RS 27	VBS12	CT0725	08.3503.027.AT	CTE08
HSK.100.FC027.120	HSK100	27	48	120	33	21	RS 27	VBS12	CT0725	08.3503.027.AT	CTE08
HSK.100.FC032.065	HSK100	32	58	65	38	24	RS 32	VBS16	CT0828	08.3504.032.AT	CTE10
HSK.100.FC032.090	HSK100	32	58	90	38	24	RS 32	VBS16	CT0828	08.3504.032.AT	CTE10
HSK.100.FC032.120	HSK100	32	58	120	38	24	RS 32	VBS16	CT0828	08.3504.032.AT	CTE10
HSK.100.FC040.073	HSK100	40	70	73	41	27	RS 40	VBS20	CT1032	08.3505.040.AT	CTE12
HSK.100.FC050.080	HSK100	50	90	80	46	30	RS 50	VBS24	CT1236	08.3506.050.AT	CTE14

## ART. HSK. ..MR.. DIN 69893/A

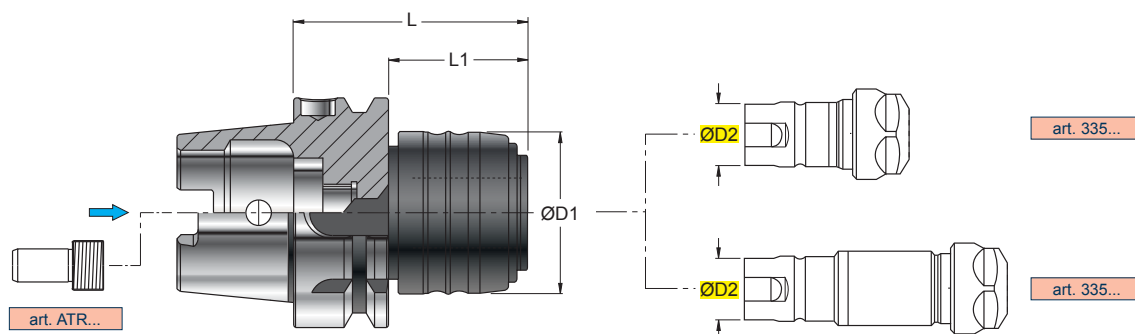


**PORTA MASCHIO A CAMBIO RAPIDO PER MASCHIATURA RIGIDA**  
 QUICK CHANGE TAP HOLDER FOR RIGID TAPPING  
 GEWINDESCHNEID-SCHNELLWECHSELFUTTER ZUM STARREN GEWINDESCHNEIDEN  
 APPAREIL PORTE-TARAUDS À CHANGEMENT RAPIDE POUR TARAUDAGE RIGIDE


ART.		(mm)				Campo di maschiatura Tap range					
		ØD1	ØD2	L	L1						
HSK.063.MR019.063	HSK63	33	19	63	37	M3-M12					
HSK.063.MR031.089	HSK63	50	31	89	63	M6-M20					
HSK.063.MR048.129	HSK63	72	48	129	103	M14-M33					
HSK.100.MR019.069	HSK100	33	19	69	40	M3-M12					
HSK.100.MR031.092	HSK100	50	31	92	63	M6-M20					
HSK.100.MR048.116	HSK100	72	48	116	87	M14-M33					



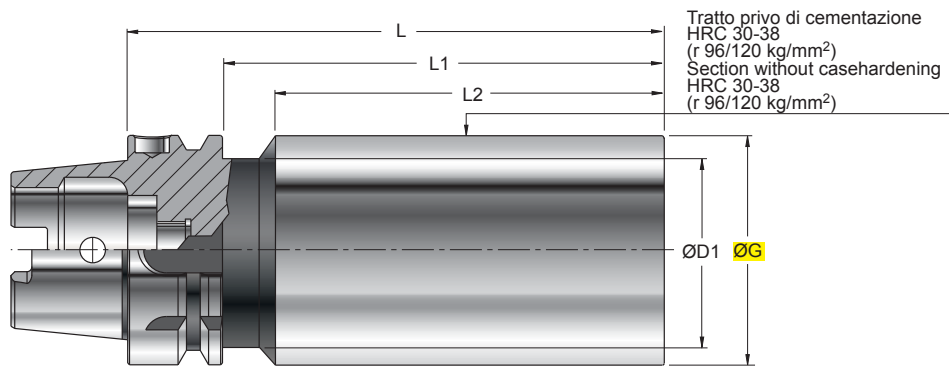
## ART. HSK. ..MS.. DIN 69893/A




PORTA MASCHIO A CAMBIO RAPIDO PER MASCHIATURA SINCRONIZZATA  
 QUICK CHANGE TAP HOLDER FOR SYNCHRONIZED TAPPING  
 GEWINDESCHNEID-SCHNELLWECHSELFUTTER ZUM STARREN GEWINDESCHNEIDEN  
 APPAREIL PORTE-TARAUDS À CHANGEMENT RAPIDE POUR TARAUDAGE SYNCHRONISÉ

ART.		(mm)				Campo di maschiatura Tap range					
		ØD1	ØD2	L	L1						
HSK.063.MS020.064	HSK63	43	20	64	38	M3-M12					
HSK.063.MS032.097	HSK63	60	32	97	71	M6-M20					
HSK.100.MS020.070	HSK100	43	20	70	41	M3-M12					
HSK.100.MS032.091	HSK100	60	32	91	62	M6-M20					
HSK.100.MS050.115	HSK100	87	50	115	86	M14-M33					

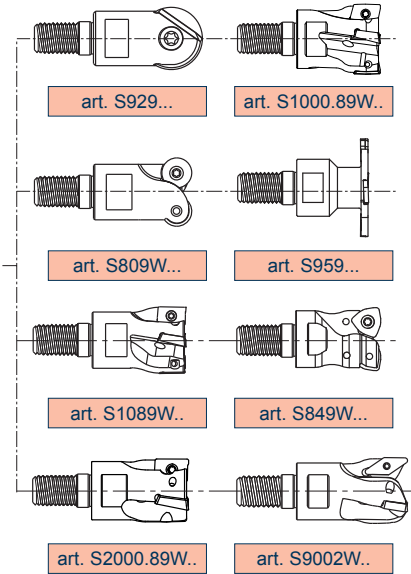
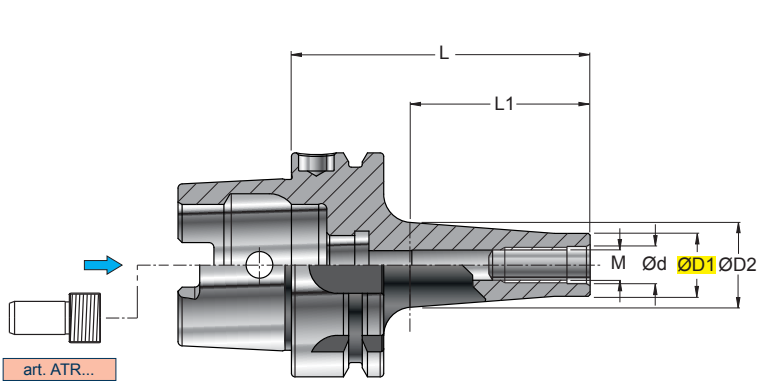
## ART. HSK. ..SF. DIN 69893/A



**BARRA CON CONO FINITO E STELO TENERO**  
BORING BARS WITH FINISHED TAPER AND BLANK SHAFT  
ROHLINGE  
BARRE AVEC CONE FINI ET BOUT DOUX

ART.		(mm)									
		ØG	ØD1	L	L1	L2					
HSK.063.SF63.226	HSK63	63	52,5	226	200	184					
HSK.063.SF63.326	HSK63	63	52,5	326	300	284					
HSK.063.SF98.250	HSK63	98	52,5	250	225	209					
HSK.100.SF100.279	HSK100	100	84,5	279	250	234					


## ART. HSK.063.MD.. DIN 69893/A



**PORTAFRESA CON ATTACCO MODULARE-FILETTATO**  
 CUTTER-HOLDER WITH MODULAR THREADED CONNECTION  
 FRASERAUFNAHME MIT MODULAR-GEWINDEAUFNAHME  
 MANDRIN PORTE-FRAISE AVEC ATTACHEMENT MODULAIRE FILETÉ

0,005

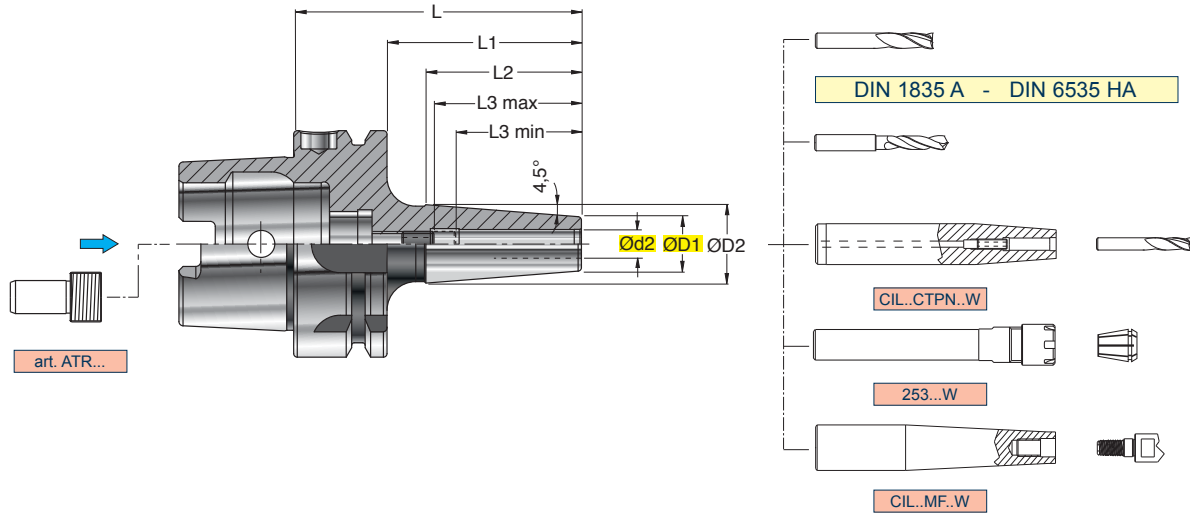
EQUILIBRATO  
BALANCED  
G 6,3 15000 min-1

ART.		(mm)											
		M	Ød	ØD1	ØD2	L	L1						
HSK.063.MD008.059	HSK63	8	8,5	12,7	15	59	25						
HSK.063.MD008.084	HSK63	8	8,5	12,7	23	84	50						
HSK.063.MD008.109	HSK63	8	8,5	12,7	23	109	75						
HSK.063.MD008.134	HSK63	8	8,5	12,7	25	134	100						
HSK.063.MD010.059	HSK63	10	10,5	17,7	20	59	25						
HSK.063.MD010.084	HSK63	10	10,5	17,7	25	84	50						
HSK.063.MD010.109	HSK63	10	10,5	17,7	28	109	75						
HSK.063.MD010.134	HSK63	10	10,5	17,7	30	134	100						
HSK.063.MD012.059	HSK63	12	12,5	20,7	24	59	25						
HSK.063.MD012.084	HSK63	12	12,5	20,7	24	84	50						
HSK.063.MD012.109	HSK63	12	12,5	20,7	31	109	75						
HSK.063.MD012.134	HSK63	12	12,5	20,7	31	134	100						
HSK.063.MD016.059	HSK63	16	17	28,7	34	59	25						
HSK.063.MD016.084	HSK63	16	17	28,7	34	84	50						
HSK.063.MD016.109	HSK63	16	17	28,7	34	109	75						
HSK.063.MD016.134	HSK63	16	17	28,7	39	134	100						

ART. HSK. ..CTN..  
DIN 69893/A

DIN 69882-8

NEW



MANDRINO A CALETTAMENTO TERMICO  
SHRINKING-ON TAPER SHANKS  
WERKZEUGAUFNAHMEN MIT SCHRUMPFVERBINDUNG  
MANDRIN À EMBOÛTEMENT THERMIQUE

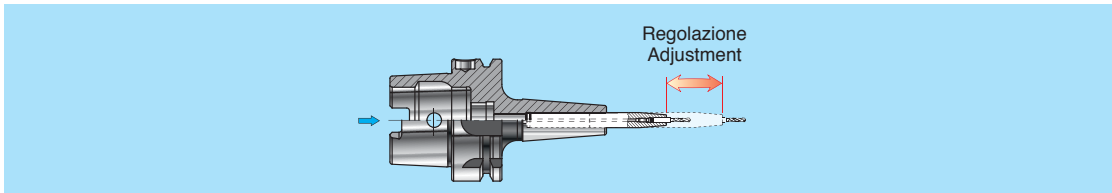
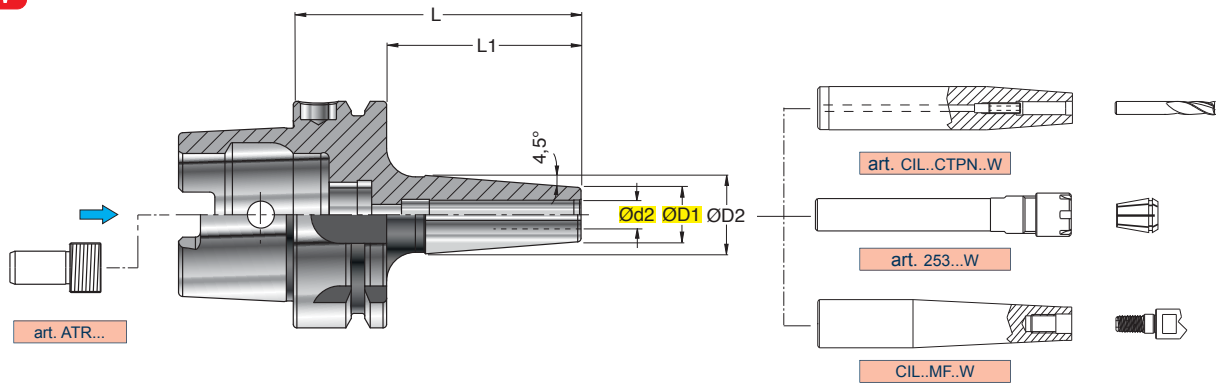
0,003

EQUILIBRATO  
BALANCED  
G 6,3 25000 min-1


ART.	(mm)	Ød2	ØD1	ØD2	L	L1	L2	L3 min	L3 max			
HSK.063.CTN006.080	HSK63	6	21	27	80	54	-	26	36	GWR 05L		5025
HSK.063.CTN006.120	HSK63	6	21	27	120	94	-	26	36			
HSK.063.CTN006.160	HSK63	6	21	27	160	134	100	26	36			
HSK.063.CTN008.080	HSK63	8	21	27	80	54	-	26	36	GWR 06L		5003
HSK.063.CTN008.120	HSK63	8	21	27	120	94	-	26	36			
HSK.063.CTN008.160	HSK63	8	21	27	160	134	100	26	36			
HSK.063.CTN010.085	HSK63	10	24	32	85	59	-	34	41	GWR 08CTD		5004
HSK.063.CTN010.120	HSK63	10	24	32	120	94	-	34	41			
HSK.063.CTN010.160	HSK63	10	24	32	160	134	100	34	41			
HSK.063.CTN012.090	HSK63	12	24	32	90	64	-	36	46	GWR 10CTD		5005
HSK.063.CTN012.120	HSK63	12	24	32	120	94	-	36	46			
HSK.063.CTN012.160	HSK63	12	24	32	160	134	100	36	46			
HSK.063.CTN014.090	HSK63	14	27	34	90	64	-	36	46			
HSK.063.CTN014.120	HSK63	14	27	34	120	94	-	36	46			
HSK.063.CTN014.160	HSK63	14	27	34	160	134	100	36	46			
HSK.063.CTN016.095	HSK63	16	27	34	95	69	-	39	49	GWR 12CTD		5006
HSK.063.CTN016.120	HSK63	16	27	34	120	94	-	39	49			
HSK.063.CTN016.160	HSK63	16	27	34	160	134	100	39	49			
HSK.063.CTN018.095	HSK63	18	33	42	95	69	-	39	49			
HSK.063.CTN018.120	HSK63	18	33	42	120	94	-	39	49			
HSK.063.CTN018.160	HSK63	18	33	42	160	134	100	39	49			
HSK.063.CTN020.100	HSK63	20	33	42	100	74	-	41	51	GWR 16CTD		5008
HSK.063.CTN020.120	HSK63	20	33	42	120	94	-	41	51			
HSK.063.CTN020.160	HSK63	20	33	42	160	134	100	41	51			
HSK.063.CTN025.120	HSK63	25	44	53	120	94	-	47	57			
HSK.063.CTN025.160	HSK63	25	44	53	160	134	-	47	57			
HSK.100.CTN006.085	HSK100	6	21	27	85	56	-	26	36	GWR 05L		5025
HSK.100.CTN006.120	HSK100	6	21	27	120	91	-	26	36			
HSK.100.CTN006.160	HSK100	6	21	27	160	131	100	26	36			
HSK.100.CTN008.085	HSK100	8	21	27	85	56	-	26	36	GWR 06L		5003
HSK.100.CTN008.120	HSK100	8	21	27	120	91	-	26	36			
HSK.100.CTN008.160	HSK100	8	21	27	160	131	100	26	36			
HSK.100.CTN010.090	HSK100	10	24	32	90	61	-	31	41	GWR 08CTD		5004
HSK.100.CTN010.120	HSK100	10	24	32	120	91	-	31	41			
HSK.100.CTN010.160	HSK100	10	24	32	160	131	100	31	41			
HSK.100.CTN012.095	HSK100	12	24	32	95	66	-	36	46	GWR 10CTD		5005
HSK.100.CTN012.120	HSK100	12	24	32	120	91	-	36	46			
HSK.100.CTN012.160	HSK100	12	24	32	160	134	100	36	46			
HSK.100.CTN014.095	HSK100	14	27	34	95	66	-	36	46			
HSK.100.CTN014.120	HSK100	14	27	34	120	91	-	36	46			
HSK.100.CTN014.160	HSK100	14	27	34	160	131	100	36	46			
HSK.100.CTN016.100	HSK100	16	27	34	100	71	-	39	49	GWR 12CTD		5006
HSK.100.CTN016.120	HSK100	16	27	34	120	91	-	39	49			
HSK.100.CTN016.160	HSK100	16	27	34	160	131	100	39	49			
HSK.100.CTN018.100	HSK100	18	33	42	100	71	-	39	49			
HSK.100.CTN018.120	HSK100	18	33	42	120	91	-	39	49			
HSK.100.CTN018.160	HSK100	18	33	42	160	131	100	39	49			
HSK.100.CTN020.120	HSK100	20	33	42	120	91	-	41	51	GWR 16CTD		5008
HSK.100.CTN020.160	HSK100	20	33	42	160	131	100	41	51			
HSK.100.CTN025.120	HSK100	25	44	53	120	91	-	47	57			
HSK.100.CTN025.160	HSK100	25	44	53	160	131	100	47	57			
HSK.100.CTN032.120	HSK100	32	44	53	120	91	-	51	61			
HSK.100.CTN032.160	HSK100	32	44	53	160	131	100	51	61			

## ART. HSK. ..CTPN.. DIN 69893/A

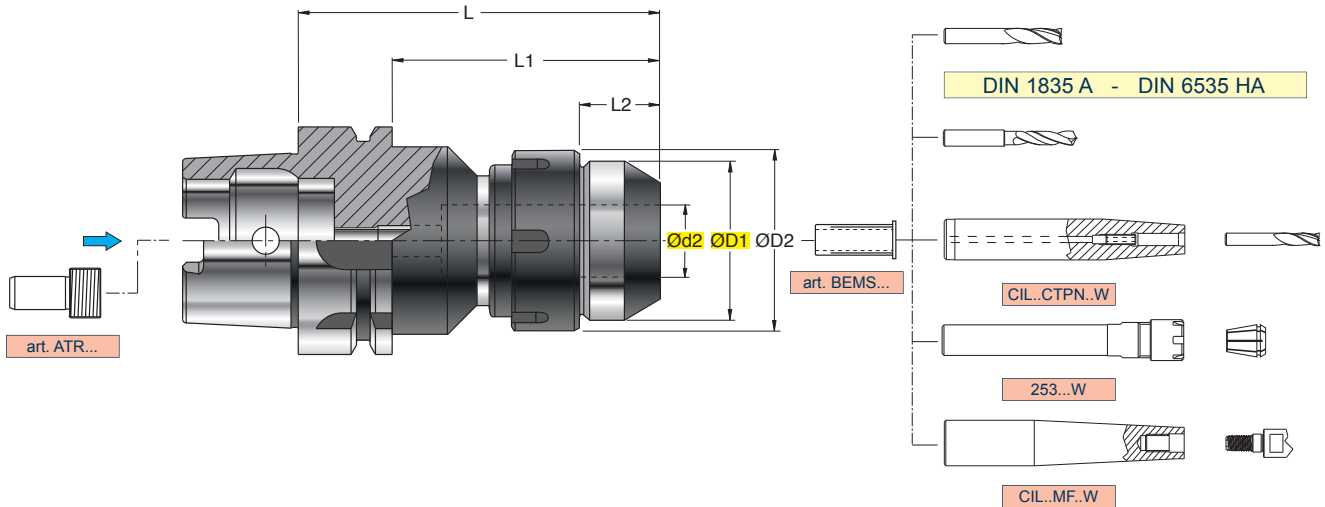
**NEW**



**MANDRINO A CALETTAMENTO TERMICO**  
SHRINKING-ON TAPER SHANKS  
WERKZEUGAUFNAHMEN MIT SCHRUMPFVERBINDUNG  
MANDRIN À EMBOÏTEMENT THERMIQUE

ART.		(mm)								
		Ød2	ØD1	ØD2	L	L1				
HSK.063.CTPN16.130	HSK63	16	27	34	130	104				
HSK.063.CTPN25.130	HSK63	25	44	52	130	104				
HSK.100.CTPN16.130	HSK100	16	27	34	130	101				
HSK.100.CTPN25.130	HSK100	25	44	53	130	101				
HSK.100.CTPN32.130	HSK100	32	44	53	130	101				

## ART. HSK. ..MFS.. DIN 69893/A



**MANDRINO A FORTE SERRAGGIO**  
HIGH CLAMPING CHUCKS  
KRAFTSPANNFUTTER  
MANDRIN À FORT SERRAGE

	0,003	Ød2 ≤ 20
	0,004	Ød2 ≥ 25

	EQUILIBRATO BALANCED
	G 2,5 20000 min-1

ART.		(mm)										
		Ød2	ØD1	ØD2	L	L1	L2					
HSK.063.MFS006.077	HSK63	6	26	32	77	51	11	-	RGMS006	-	927.027MS	ESMS.010
HSK.063.MFS008.078	HSK63	8	27	32	78	52	11	-	RGMS008	-	927.027MS	ESMS.010
HSK.063.MFS010.088	HSK63	10	32	37	88	62	13	-	RGMS010	-	927.032MS	ESMS.010
HSK.063.MFS012.088	HSK63	12	35	37	88	62	20	-	RGMS012	-	927.032MS	ESMS.010
HSK.063.MFS016.093	HSK63	16	40	44	93	67	21	-	RGMS016	-	927.039MS	ESMS.010
HSK.063.MFS020.101	HSK63	20	46	49	101	75	23	BEMS.20..	RGMS020	RGMSB020	927.044MS	ESMS.010
HSK.063.MFS020.150	HSK63	20	46	49	150	124	23	BEMS.20..	RGMS020	RGMSB020	927.044MS	ESMS.010
HSK.063.MFS025.104	HSK63	25	52	54	104	78	26	-	RGMS025	-	927.049MS	ESMS.010
HSK.063.MFS032.113	HSK63	32	67	68	113	87	33	BEMS.32..	RGMS032	RGMSB032	927.063MS	ESMS.010
HSK.063.MFS032.150	HSK63	32	67	68	150	124	33	BEMS.32..	RGMS032	RGMSB032	927.063MS	ESMS.010
HSK.100.MFS020.110	HSK100	20	46	49	110	81	23	BEMS.20..	RGMS020	RGMSB020	927.044MS	ESMS.010
HSK.100.MFS032.110	HSK100	32	67	68	110	81	33	BEMS.32..	RGMS032	RGMSB032	927.063MS	ESMS.010

PER GLI ANELLI DI TENUTA ANDARE A PAG F 133  
 SEE PAGE F 133 FOR THE SEALING RINGS  
 FÜR DICHTUNGSRINGE AUF SEITE F 133 GEHEN  
 POUR LES BAGUES D'ÉTANCHÉITÉ ALLER PAGE F 133

### CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS

1. Ridotte dimensioni di ingombro (lunghezza e diametro esterno) che consentono una migliore equilibratura (G 2,5 fino a 20000 rpm)
2. Aumento della rigidità del mandrino per una resa migliore in lavorazione
3. Perfetta centratura dell'utensile (0,003/0,004 mm) che determinano un incremento della durata degli inserti fino a raddoppiare la durata
4. Aumento della potenza di serraggio Max 800 Nm
5. Adatto anche per frese con attacco cilindrico, weldon, whistle notch e punte in metallo duro
6. Possibilità di registrazione assiale della posizione dell'utensile tramite una vite di registrazione a doppio esagono con bloccaggio della posizione scelta
7. Passaggio del lubrificante attraverso l'utensile fino a 100 bar

1. Reduced dimensions (length and external diameter) for a better balancing (G 2,5 till to 20000 rpm)
2. High rigidity of the chuck for a better performance
3. Perfect concentricity (0,003/0,004 mm) for an increase in tool life
4. Increase of tightening force Max 800 Nm
5. Suitable for endmills tools with cylindrical, weldon and whistle notch shank and for carbide drills
6. Axial adjustment of the tools holders through a double hexagon screw with locking on the chosen position
7. Coolant through the tool till 100 bar