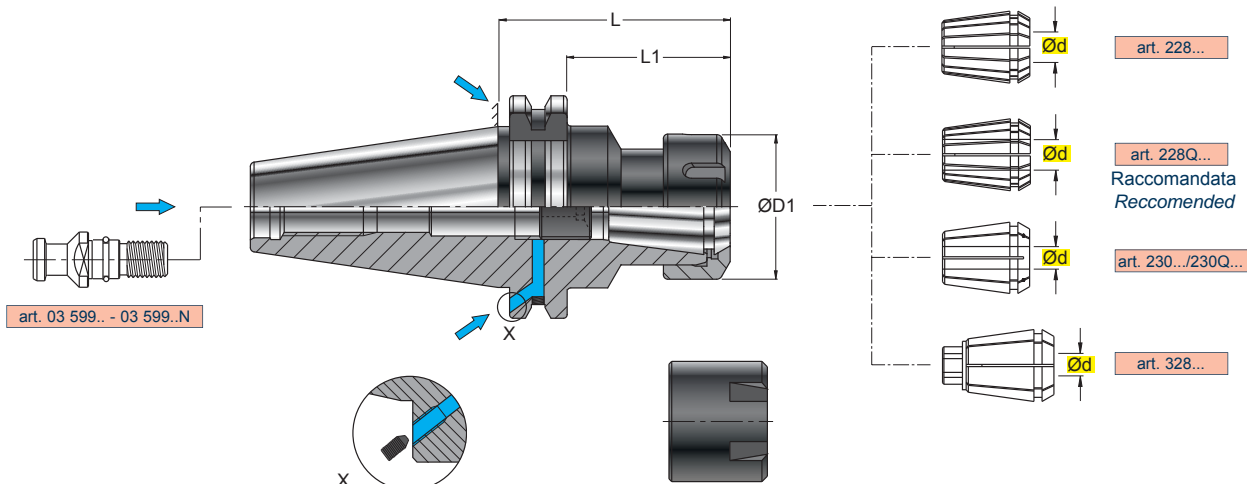


ART. ISO.B.. ER..  
DIN 69871/AD-B

DIN 6499

- RGM... , GHIERE CON DIAMETRO ØD1 MINORATO, PAG F 130
- RGM... , RING NUTS WITH REDUCED DIAMETER ØD1, SEE PAGE F 130
- RGM... , GEWINDERINGE MIT BESCHRÄNKTEM DURCHMESSER Ø D1, SEITE F 130
- RGM... , FRETTE AVEC DIAMÈTRE ØD1 AMOINDRI, PAGE F 130



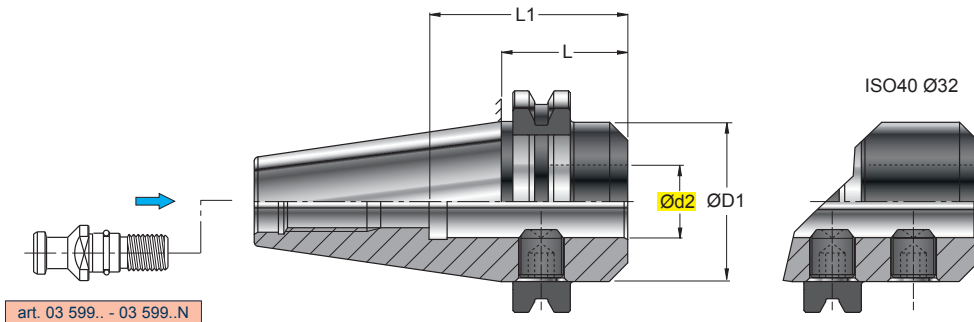
**RGM**  
Ghiera ad ingombro ridotto (SLIM)  
Smaller ring nut (SLIM)

PORTAPINZA STANDARD  
COLLET HOLDER STANDARD  
SPANNFUTTER STANDARD  
MANDRIN PORTE-PINCE STANDARD

PRE-EQUILIBRATO  
PRE-BALANCED  
 G 6,3 8000 min<sup>-1</sup>

ART.		(mm)										
		Ød	ØD1	L	L1							
ISO.B40.ER011.100M	ISO40	0,5-7	16	100	81	--.011.--	RGM ER11		938.011	-	-	
ISO.B40.ER011.150M	ISO40	0,5-7	16	150	131	--.011.--						
ISO.B40.ER016.100M	ISO40	0,5-10	22	100	81	--.016.--	RGM ER16		938.016	-	-	
ISO.B40.ER016.150M	ISO40	0,5-10	22	150	131	--.016.--						
ISO.B40.ER016.065	ISO40	0,5-10	28	65	46	--.016.--	RGS ER16		925.022	RGK ER16	926.030	
ISO.B40.ER016.120	ISO40	0,5-10	28	120	101	--.016.--						
ISO.B40.ER016.150	ISO40	0,5-10	28	150	131	--.016.--						
ISO.B40.ER016.200	ISO40	0,5-10	28	200	181	--.016.--						
ISO.B40.ER025.100M	ISO40	0,5-16	35	100	81	--.025.--	RGM ER25		938.025	-	-	
ISO.B40.ER025.150M	ISO40	0,5-16	35	150	131	--.025.--						
ISO.B40.ER025.065	ISO40	0,5-16	42	65	46	--.025.--	RGS ER25		925.040	RGK ER25	926.040	
ISO.B40.ER025.120	ISO40	0,5-16	42	120	101	--.025.--						
ISO.B40.ER025.150	ISO40	0,5-16	42	150	131	--.025.--						
ISO.B40.ER025.200	ISO40	0,5-16	42	200	181	--.025.--						
ISO.B40.ER032.070	ISO40	2-20	50	70	51	--.032.--	RGS ER32		925.052	RGK ER32	926.052	
ISO.B40.ER032.100	ISO40	2-20	50	100	81	--.032.--						
ISO.B40.ER032.120	ISO40	2-20	50	120	101	--.032.--						
ISO.B40.ER032.150	ISO40	2-20	50	150	131	--.032.--						
ISO.B40.ER032.200	ISO40	2-20	50	200	181	--.032.--						
ISO.B40.ER040.070	ISO40	3-30	63	70	51	--.040.--	RGS ER40		925.068	RGK ER40	926.068	
ISO.B40.ER040.100	ISO40	3-30	63	100	81	--.040.--						
ISO.B40.ER040.120	ISO40	3-30	63	120	101	--.040.--						
ISO.B40.ER040.150	ISO40	3-30	63	150	131	--.040.--						
ISO.B40.ER040.200	ISO40	3-30	63	200	181	--.040.--						
ISO.B50.ER016.150M	ISO50	0,5-10	22	150	131	--.016.--	RGM ER16		938.016	-	-	
ISO.B50.ER016.200	ISO50	0,5-10	28	200	181	--.016.--	RGS ER16		925.022	RGK ER16	926.030	
ISO.B50.ER025.150M	ISO50	0,5-16	35	150	131	--.025.--	RGM ER25		938.025	-	-	
ISO.B50.ER025.075	ISO50	0,5-16	42	75	56	--.025.--	RGS ER25		925.040	RGK ER25	926.040	
ISO.B50.ER025.120	ISO50	0,5-16	42	120	101	--.025.--						
ISO.B50.ER025.150	ISO50	0,5-16	42	150	131	--.025.--						
ISO.B50.ER032.075	ISO50	2-20	50	75	56	--.032.--	RGS ER32		925.052	RGK ER32	926.052	
ISO.B50.ER032.100	ISO50	2-20	50	100	81	--.032.--						
ISO.B50.ER032.120	ISO50	2-20	50	120	101	--.032.--						
ISO.B50.ER032.150	ISO50	2-20	50	150	131	--.032.--						
ISO.B50.ER032.200	ISO50	2-20	50	200	181	--.032.--						
ISO.B50.ER040.075	ISO50	3-30	63	75	56	--.040.--	RGS ER40		925.068	RGK ER40	926.068	
ISO.B50.ER040.100	ISO50	3-30	63	100	81	--.040.--						
ISO.B50.ER040.120	ISO50	3-30	63	120	101	--.040.--						
ISO.B50.ER040.150	ISO50	3-30	63	150	131	--.040.--						

ART. ISO.A.. WEC..  
DIN 69871/AD



**MANDRINO CORTO PER ATTACCHI TIPO WELDON**  
 END-MILL HOLDER FOR WELDON CONNECTION-SHORT TYPE  
 AUFNAHME FÜR WELDON-TYPE, KURZE AUSFÜHRUNG  
 MANDRIN POUR ATTACHEMENT WELDON, SERIE COURTE

Ød2 H5

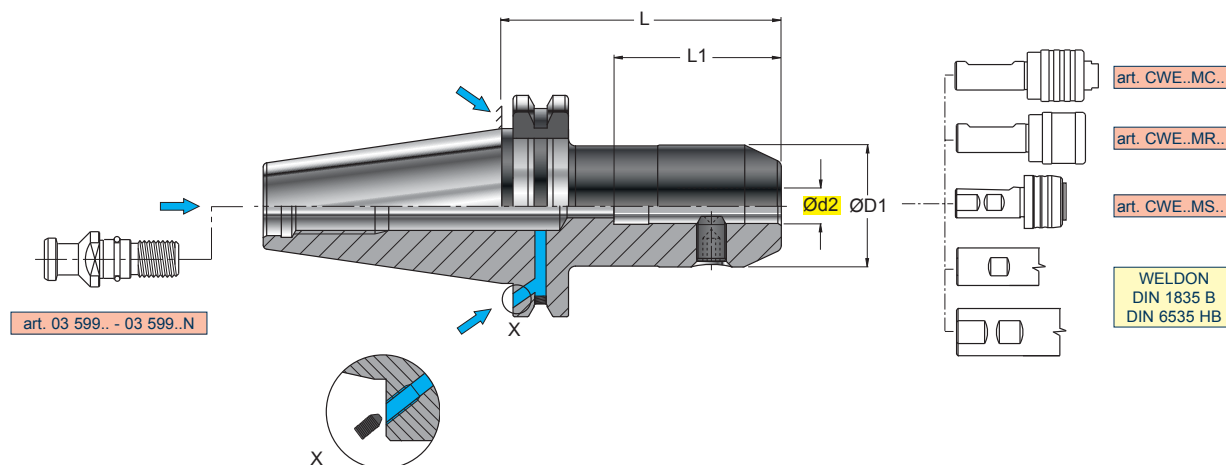
0,005

PRE-EQUILIBRATO  
 PRE-BALANCED  
 G 6,3 8000 min<sup>-1</sup>

ART.		(mm)									
		Ød2	ØD1	L	L1						
ISO.A40.WEC016.035	ISO40	16	44	35	45	GR1415	-	5006	-		
ISO.A40.WEC020.035	ISO40	20	44	35	45						
ISO.A40.WEC025.035	ISO40	25	44	35	55						
ISO.A40.WEC032.070	ISO40	32	72	70	60	GR1610	GR2015	5008	5010		
ISO.A50.WEC016.035	ISO50	16	70	35	45	GR1415	-	5006	-		
ISO.A50.WEC020.035	ISO50	20	70	35	45	GR1615	-	5008	-		
ISO.A50.WEC025.035	ISO50	25	70	35	55	GR1815	-	5008	-		
ISO.A50.WEC032.035	ISO50	32	70	35	60	GR2015	-	5010	-		
ISO.A50.WEC040.052	ISO50	40	74	52	33	GR2016	-	5010	-		

ART. ISO.B.40.WE..  
DIN 69871/AD-B

DIN 6359 B






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

Ød2 H5

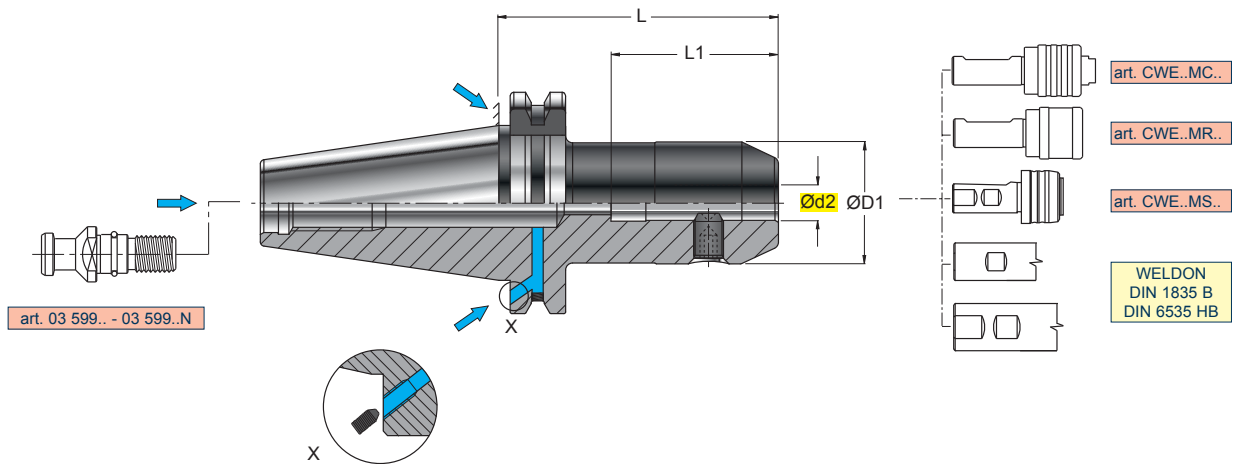
0,005

PRE-EQUILIBRATO  
PRE-BALANCED  
G 6,3 8000 min<sup>-1</sup>

ART.		(mm)									
		Ød2	ØD1	L	L1						
ISO.B40.WE006.050	ISO40	6	25	50	35	GR06	5003				
ISO.B40.WE006.100	ISO40	6	25	100	35						
ISO.B40.WE006.150	ISO40	6	25	150	35						
ISO.B40.WE008.050	ISO40	8	28	50	35	GR08	5004				
ISO.B40.WE008.100	ISO40	8	28	100	35						
ISO.B40.WE008.150	ISO40	8	28	150	35						
ISO.B40.WE010.050	ISO40	10	35	50	39	GR10	5005				
ISO.B40.WE010.100	ISO40	10	35	100	39						
ISO.B40.WE010.150	ISO40	10	35	150	39						
ISO.B40.WE012.050	ISO40	12	42	50	44	GR1215	5006				
ISO.B40.WE012.100	ISO40	12	42	100	44						
ISO.B40.WE012.150	ISO40	12	42	150	44						
ISO.B40.WE014.063	ISO40	14	44	63	44	GR1215	5006				
ISO.B40.WE014.100	ISO40	14	44	100	44						
ISO.B40.WE014.150	ISO40	14	44	150	44						
ISO.B40.WE016.063	ISO40	16	48	63	47	GR1415	5006				
ISO.B40.WE016.100	ISO40	16	48	100	47						
ISO.B40.WE016.150	ISO40	16	48	150	47						
ISO.B40.WE018.063	ISO40	18	50	63	47	GR1615	5008				
ISO.B40.WE018.100	ISO40	18	50	100	47						
ISO.B40.WE018.150	ISO40	18	50	150	47						
ISO.B40.WE020.063	ISO40	20	52	63	49	GR1815	5008				
ISO.B40.WE020.100	ISO40	20	52	100	49						
ISO.B40.WE020.150	ISO40	20	52	150	49						
ISO.B40.WE025.085	ISO40	25	65	85	54	GR2015	5010				
ISO.B40.WE025.150	ISO40	25	65	150	54						
ISO.B40.WE032.085	ISO40	32	72	85	58						
ISO.B40.WE032.150	ISO40	32	72	150	58						
ISO.B40.WE040.115	ISO40	40	80	115	68						

ART. ISO.B.50.WE..  
DIN 69871/AD-B

DIN 6359 B



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

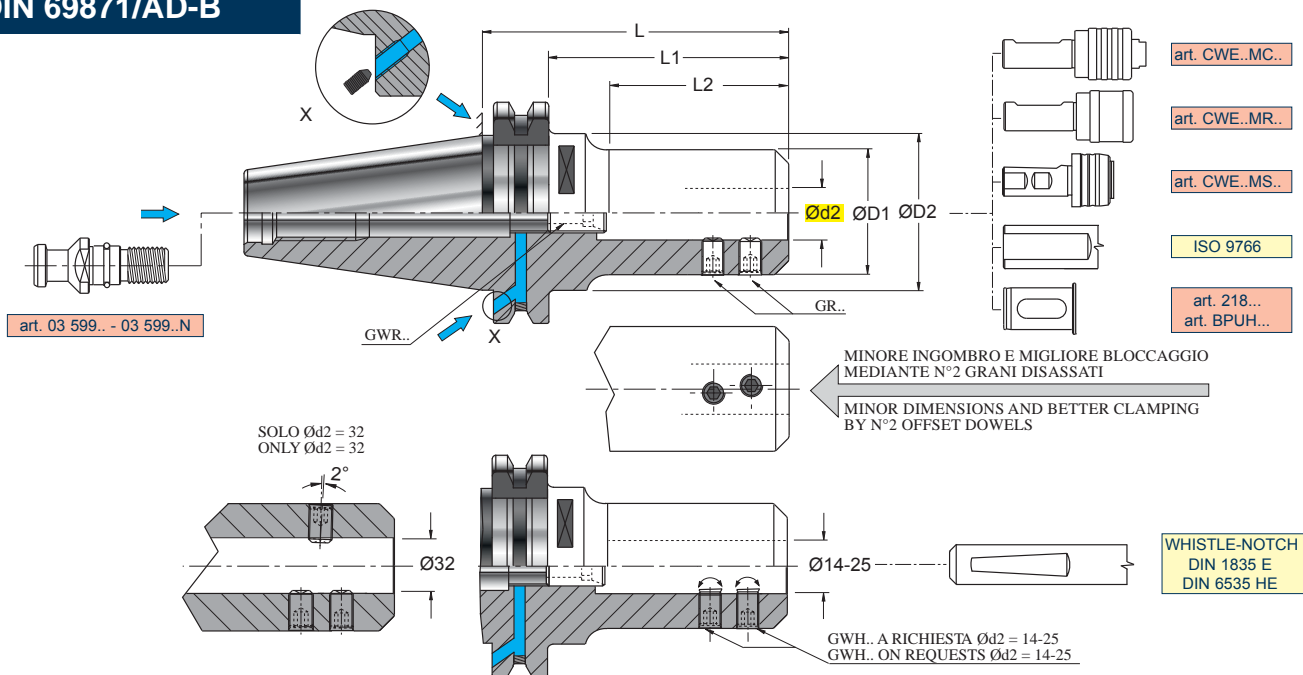
Ød2 H5

0,005

PRE-EQUILIBRATO  
PRE-BALANCED  
G 6,3 8000 min<sup>-1</sup>

ART.		(mm)									
		Ød2	ØD1	L	L1						
ISO.B50.WE006.063	ISO50	6	25	63	35	GR06				5003	
ISO.B50.WE006.100	ISO50	6	25	100	35						
ISO.B50.WE006.150	ISO50	6	25	150	35						
ISO.B50.WE008.063	ISO50	8	28	63	35	GR08				5004	
ISO.B50.WE008.100	ISO50	8	28	100	35						
ISO.B50.WE008.150	ISO50	8	28	150	35						
ISO.B50.WE010.063	ISO50	10	35	63	39	GR10				5005	
ISO.B50.WE010.100	ISO50	10	35	100	39						
ISO.B50.WE010.150	ISO50	10	35	150	39						
ISO.B50.WE012.063	ISO50	12	42	63	44	GR1215				5006	
ISO.B50.WE012.100	ISO50	12	42	100	44						
ISO.B50.WE012.150	ISO50	12	42	150	44						
ISO.B50.WE014.063	ISO50	14	44	63	44	GR1215				5006	
ISO.B50.WE014.100	ISO50	14	44	100	44						
ISO.B50.WE014.150	ISO50	14	44	150	44						
ISO.B50.WE016.063	ISO50	16	48	63	47	GR1415				5006	
ISO.B50.WE016.100	ISO50	16	48	100	47						
ISO.B50.WE016.150	ISO50	16	48	150	47						
ISO.B50.WE018.063	ISO50	18	50	63	47						
ISO.B50.WE018.100	ISO50	18	50	100	47						
ISO.B50.WE018.150	ISO50	18	50	150	47						
ISO.B50.WE020.063	ISO50	20	52	63	49	GR1615				5008	
ISO.B50.WE020.100	ISO50	20	52	100	49						
ISO.B50.WE020.150	ISO50	20	52	150	49						
ISO.B50.WE025.085	ISO50	25	65	85	54	GR1815				5008	
ISO.B50.WE025.100	ISO50	25	65	100	54						
ISO.B50.WE025.150	ISO50	25	65	150	54						
ISO.B50.WE032.085	ISO50	32	72	85	58	GR2015				5010	
ISO.B50.WE032.150	ISO50	32	72	150	58						
ISO.B50.WE040.100	ISO50	40	80	100	68						
ISO.B50.WE040.150	ISO50	40	80	150	68						
ISO.B50.WE050.105	ISO50	50	90	105	78	GR2420				5017	

**ART. ISO.B.. PUH..  
DIN 69871/AD-B**



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

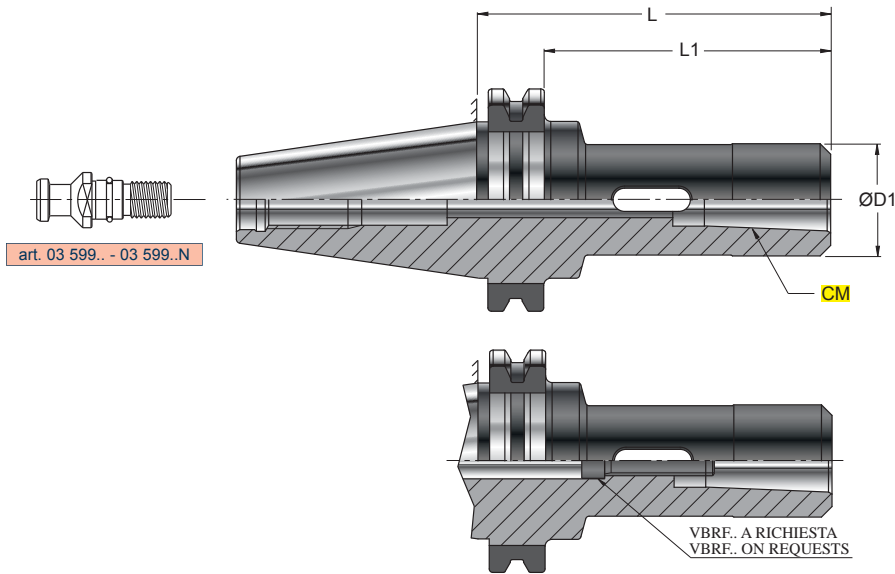
Ød2 H5

⊙	0,003	L ≤ 140
⊙	0,005	L ≤ 200

PRE-EQUILIBRATO	PRE-BALANCED
	SK40 = G6,3 8000 min <sup>-1</sup>
	SK50 = G6,3 6000 min <sup>-1</sup>

ART.		(mm)											
		Ød2	ØD1	ØD2	L	L1	L2						
ISO.B40.PUH016.100	ISO40	16	38	44,7	100	81	-	n°2 GR10	GWR12	5005	5006	GWH10	5005
ISO.B40.PUH020.100	ISO40	20	42	44,7	100	81	-	n°2 GR10	GWR16	5005	5008	GWH10	5005
ISO.B40.PUH025.100	ISO40	25	48	50	100	81	-	n°2 GR10	GWR20	5005	5010	GWH10	5005
ISO.B40.PUH032.080	ISO40	32	58	50	80	61	-	n°3 GR14	-	5006	-	-	-
ISO.B40.PUH040.080	ISO40	40	68	50	80	61	-	n°2 GR14	-	5006	-	-	-
ISO.B50.PUH014.140	ISO50	14	36	70	140	121	80	n°2 GR10	GWR12	5005	5006	GWH10	5005
ISO.B50.PUH014.200	ISO50	14	36	70	200	181	130						
ISO.B50.PUH016.140	ISO50	16	38	70	140	121	80						
ISO.B50.PUH016.200	ISO50	16	38	70	200	181	130						
ISO.B50.PUH018.140	ISO50	18	40	70	140	121	80	n°2 GR10	GWR16	5005	5008	GWH10	5005
ISO.B50.PUH018.200	ISO50	18	40	70	200	181	130						
ISO.B50.PUH020.140	ISO50	20	42	70	140	121	80						
ISO.B50.PUH025.140	ISO50	25	48	70	140	121	90	n°2 GR10	GWR20	5005	5010	GWH10	5005
ISO.B50.PUH032.080	ISO50	32	58	70	80	61	40	n°3 GR14	-	5006	-	-	-
ISO.B50.PUH032.140	ISO50	32	58	70	140	121	95						
ISO.B50.PUH040.090	ISO50	40	68	80	90	71	-	n°2 GR16	-	5008	-	-	-
ISO.B50.PUH040.140	ISO50	40	68	80	140	121	-						
ISO.B50.PUH050.090	ISO50	50	76	80	90	71	-						

ART. ISO.A.. RP..  
DIN 69871/AD



ADATTATORE PER CONO MORSE CON TENONE  
ADAPTER FOR MORSE TAPER WITH TENON  
ADAPTER FÜR MORSE-KEGEL MIT LAPPEN  
ADAPTATEUR POUR CONE MORSE AVEC TENON

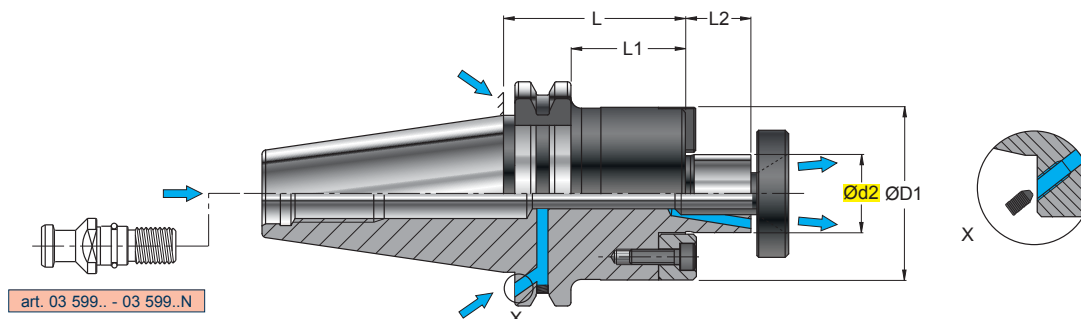
PRE-EQUILIBRATO	PRE-BALANCED
	SK40 = G6,3 8000 min <sup>-1</sup>
	SK50 = G6,3 6000 min <sup>-1</sup>

ART.			(mm)								
			ØD1	L	L1						
ISO.A40.RP001.040	ISO40	C.M.1	25	40	21			VBRF060	CTE05		
ISO.A40.RP001.120	ISO40	C.M.1	25	120	101						
ISO.A40.RP002.050	ISO40	C.M.2	32	50	31			VBRF100	CTE08		
ISO.A40.RP002.135	ISO40	C.M.2	32	135	116						
ISO.A40.RP003.063	ISO40	C.M.3	40	63	44			VBRF120	CTE10		
ISO.A40.RP003.150	ISO40	C.M.3	40	150	131						
ISO.A40.RP004.090	ISO40	C.M.4	50	90	71			VBRF160	CTE14		
ISO.A50.RP001.040	ISO50	C.M.1	25	40	21			VBRF101	CTE08		
ISO.A50.RP001.120	ISO50	C.M.1	25	120	101						
ISO.A50.RP001.180	ISO50	C.M.1	25	180	161						
ISO.A50.RP002.050	ISO50	C.M.2	32	50	31			VBRF100	CTE08		
ISO.A50.RP002.135	ISO50	C.M.2	32	135	116						
ISO.A50.RP002.180	ISO50	C.M.2	32	180	161						
ISO.A50.RP003.063	ISO50	C.M.3	40	63	44			VBRF120	CTE10		
ISO.A50.RP003.150	ISO50	C.M.3	40	150	131						
ISO.A50.RP003.180	ISO50	C.M.3	40	180	161						
ISO.A50.RP004.080	ISO50	C.M.4	50	80	61			VBRF160	CTE14		
ISO.A50.RP004.180	ISO50	C.M.4	50	180	161						
ISO.A50.RP005.105	ISO50	C.M.5	70	105	86						

- È POSSIBILE INSERIRE FRESE CON FILETTO TRAMITE L'AUSILIO DEL RICAMBIO OPZIONALE VBRF...
- POSSIBLE FITTING OF CUTTERS WITH THREAD BY MEANS OF THE OPTIONAL SPARE PART VBRF...
- MÖGLICHER EINSATZ VON FRÄSERN MIT GEWINDE MIT HILFE DES OPTIONELLEN ERSATZTEILS VBRF...
- IL EST POSSIBLE D'INSERER DES FRAISES AVEC FILET AU MOYEN DE LA PIECE DE RECHANGE EN OPTION VBRF...

ART. ISO.B.. FSW..  
DIN 69871/AD-B

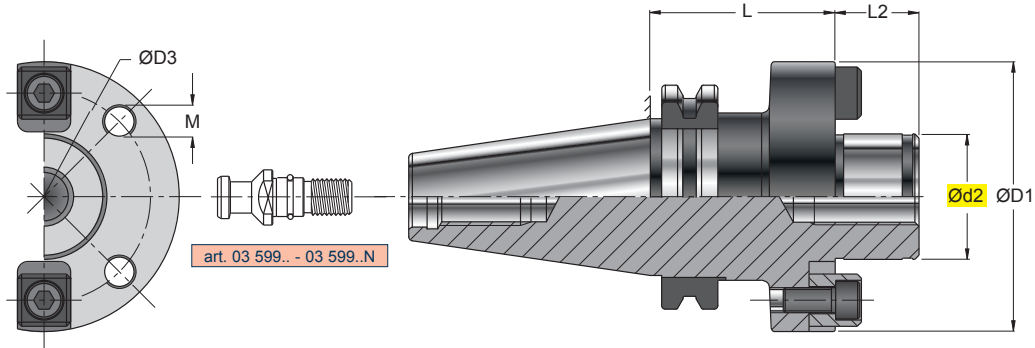
ISO 3937



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

PRE-EQUILIBRATO	PRE-BALANCED
	SK40 = G6,3 8000 min <sup>-1</sup>
	SK50 = G6,3 6000 min <sup>-1</sup>

ART.	(mm)	Ød2	ØD1	L	L1	L2							
ISO.B40.FSW016.035	ISO40	16	40	35	16	17	RS 16	VBS08	TSFS16	VB02		CTE05	5015
ISO.B40.FSW016.050 <i>New</i>	ISO40	16	40	50	31	17							
ISO.B40.FSW016.090 <i>New</i>	ISO40	16	40	90	81	17							
ISO.B40.FSW022.035	ISO40	22	50	35	16	19	RS 22	VBS10	TSFS22	VB04		CTE06	5003
ISO.B40.FSW022.050 <i>New</i>	ISO40	22	49	50	31	19							
ISO.B40.FSW022.090 <i>New</i>	ISO40	22	49	90	81	19							
ISO.B40.FSW027.060	ISO40	27	60	60	41	21	RS 27	VBS12	TSFS27	VB05		CTE08	5005
ISO.B40.FSW027.090 <i>New</i>	ISO40	27	60	90	81	21							
ISO.B40.FSW032.060	ISO40	32	65	60	41	24	RS 32	VBS16	TSFS32	VB05		CTE10	5004
ISO.B40.FSW032.090 <i>New</i>	ISO40	32	65	90	71	24							
ISO.B40.FSW040.060	ISO40	40	75	60	41	27	RS 40	VBS20	TSFS40	VB06		CTE12	5005
ISO.B40.FSW040.090 <i>New</i>	ISO40	40	75	90	71	27							
ISO.B50.FSW016.063 <i>New</i>	ISO50	16	40	63	44	17	RS16	VBS08	TSFS16	VB02		CTE05	5015
ISO.B50.FSW016.100	ISO50	16	40	100	81	17							
ISO.B50.FSW022.035	ISO50	22	50	35	16	19	RS 22	VBS10	TSFS22	VB04		CTE06	5003
ISO.B50.FSW022.063 <i>New</i>	ISO50	22	49	63	44	19							
ISO.B50.FSW022.100	ISO50	22	50	100	81	19							
ISO.B50.FSW022.169 <i>New</i>	ISO50	22	49	169	150	19							
ISO.B50.FSW022.219 <i>New</i>	ISO50	22	49	219	200	19							
ISO.B50.FSW027.035	ISO50	27	60	35	16	21	RS 27	VBS12	TSFS27	VB05		CTE08	5005
ISO.B50.FSW027.063 <i>New</i>	ISO50	27	60	63	44	21							
ISO.B50.FSW027.100	ISO50	27	60	100	81	21							
ISO.B50.FSW027.169 <i>New</i>	ISO50	27	60	169	150	21							
ISO.B50.FSW027.219 <i>New</i>	ISO50	27	60	219	200	21							
ISO.B50.FSW032.035	ISO50	32	75	35	16	24	RS 32	VBS16	TSFS32	VB05		CTE10	5004
ISO.B50.FSW032.063 <i>New</i>	ISO50	32	75	63	44	24							
ISO.B50.FSW032.100	ISO50	32	75	100	81	24							
ISO.B50.FSW040.063 <i>New</i>	ISO50	40	85	63	44	27	RS 40	VBS20	TSFS40	VB06		CTE12	5005
ISO.B50.FSW040.100 <i>New</i>	ISO50	40	85	100	81	27							

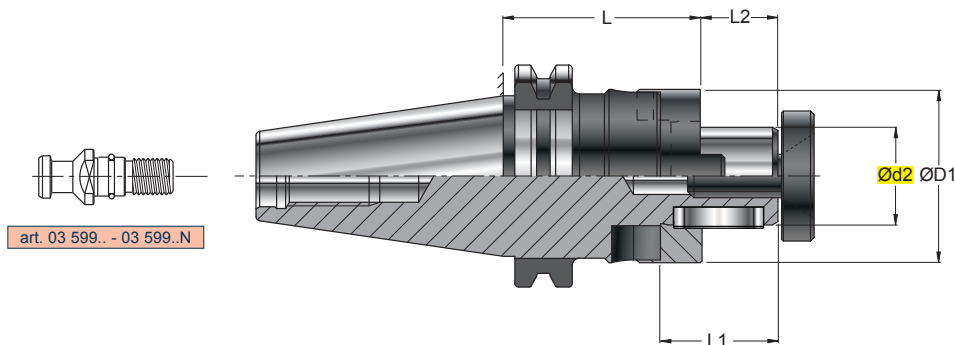


PORTAFRESA A TRASCINAMENTO FRONTALE CON TENONE  
SHELL END-MILL HOLDERS WITH TENON  
FRÄSERAUFNAHME MIT QUERNUT UND LAPPEN  
ADAPTATEUR POUR CONE MORSE AVEC TENON

0,01

ART.		(mm)											
		Ød2	M	ØD1	ØD3	L	L2						
ISO.A40.FF040.055	ISO40	40	M12	89	66,7	55	25	TSFF40	VB06	5005	RS 40	VBS20	CTE12
ISO.A40.FF060.055	ISO40	60	M16	129	101,6	55	35	TSFF60	VB12C	5010	RS 60	VBS24	CTE14
ISO.A50.FF040.070 <i>New</i>	ISO50	40	M12	89	66,7	70	25	TSFF40	VB06	5005	RS 40	VBS20	CTE12
ISO.A50.FF060.070 <i>New</i>	ISO50	60	M16	129	101,6	70	35	TSFF60	VB12C	5010	RS 60	VBS24	CTE14











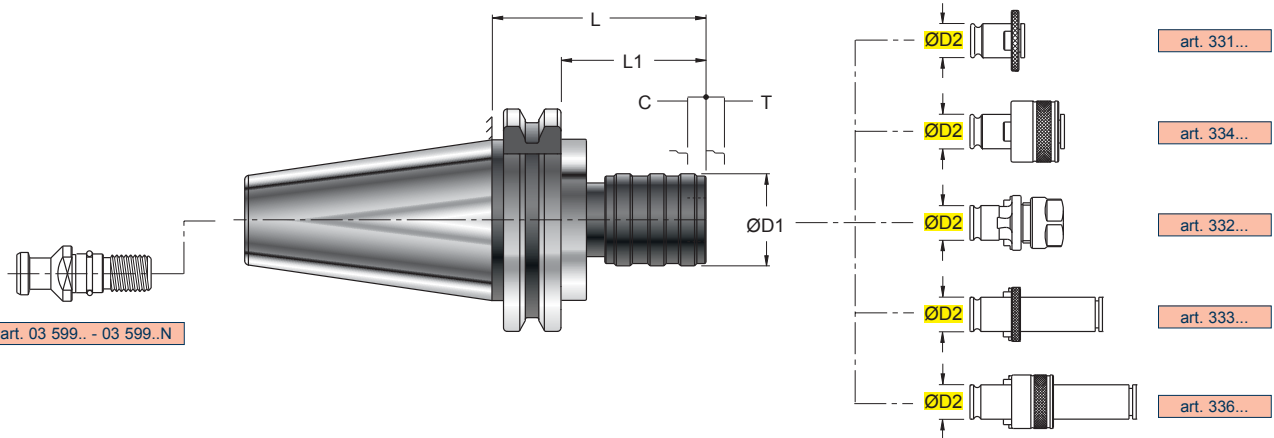
**PORTAFRESA A TRASCINAMENTO COMBINATO PER FRESE A MANICOTTO E A DISCO**  
 COMBI FACE MILL HOLDERS FOR SHELL-END AND DISC MILLING CUTTERS  
 FRÄSERAUFNAHME KOMBINIERT FÜR AUFSTECK-UND SCHEIBENFRÄSER  
 MANDRIN PORTE-FRAISE À ENTRAÎNEMENT COMBINÉ POUR FRAISES À MANCHON ET DE DISQUE

0,01


PRE-EQUILIBRATO  
PRE-BALANCED  
G 6,3 8000 min<sup>-1</sup>

ART.	 (mm)										
		Ød2	ØD1	L	L1	L2					
ISO.A40.FC016.055	ISO40	16	32	55	27	17	RS 16	VBS08	CT0420	08.3501.016.AT	CTE05
ISO.A40.FC016.090	ISO40	16	32	90	27	17					
ISO.A40.FC022.055	ISO40	22	40	55	31	19	RS 22	VBS10	CT0625	08.3502.022.AT	CTE06
ISO.A40.FC022.090	ISO40	22	40	90	31	19					
ISO.A40.FC027.055	ISO40	27	48	55	33	21	RS 27	VBS12	CT0725	08.3503.027.AT	CTE08
ISO.A40.FC027.090	ISO40	27	48	90	33	21					
ISO.A40.FC032.063	ISO40	32	58	63	38	24	RS 32	VBS16	CT0828	08.3504.032.AT	CTE10
ISO.A40.FC032.090	ISO40	32	58	90	38	24					
ISO.A40.FC040.063	ISO40	40	70	63	41	27	RS 40	VBS20	CT1032	08.3505.040.AT	CTE12
ISO.A40.FC040.090	ISO40	40	70	90	41	27					
ISO.A50.FC016.063	ISO50	16	32	63	27	17	RS 16	VBS08	CT0420	08.3501.016.AT	CTE05
ISO.A50.FC016.090	ISO50	16	32	90	27	17					
ISO.A50.FC022.063	ISO50	22	40	63	31	19	RS 22	VBS10	CT0625	08.3502.022.AT	CTE06
ISO.A50.FC022.090	ISO50	22	40	90	31	19					
ISO.A50.FC027.063	ISO50	27	48	63	33	21	RS 27	VBS12	CT0725	08.3503.027.AT	CTE08
ISO.A50.FC027.090	ISO50	27	48	90	33	21					
ISO.A50.FC032.063	ISO50	32	58	63	38	24	RS 32	VBS16	CT0828	08.3504.032.AT	CTE10
ISO.A50.FC032.090	ISO50	32	58	90	38	24					
ISO.A50.FC040.063	ISO50	40	70	63	41	27	RS 40	VBS20	CT1032	08.3505.040.AT	CTE12
ISO.A50.FC040.100	ISO50	40	70	100	41	27					
ISO.A50.FC050.075	ISO50	50	90	75	46	30	RS 50	VBS24	CT1236	08.3506.050.AT	CTE14
ISO.A50.FC050.100	ISO50	50	90	100	46	30					

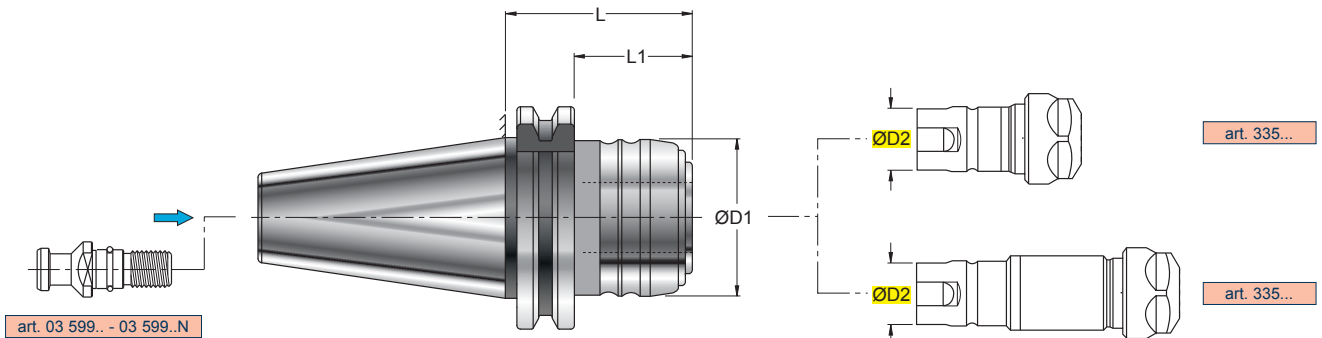
ART. ISO.A.. MC..  
DIN 69871/A




**PORTA MASCHIO A CAMBIO RAPIDO CON DOPPIA COMPENSAZIONE**  
 QUICK-CHANGE TAP HOLDER WITH DOUBLE COMPENSATION  
 GEWINDESCHNEID-SCHNELLWECHSELFUTTER MIT DOPPELAUSGLEICH  
 MANDRINS DE TARAUDAGE À CHANGEMENT RAPIDE À DOUBLE COMPENSATION

ART.		(mm)						Campo di maschiatura Tap range					
		ØD1	ØD2	L	L1	C	T						
ISO.A40.MC019.060	ISO40	38	19	60	41	7,5	7,5	M3-M12					
ISO.A40.MC031.100	ISO40	55	31	100	81	12,5	12,5	M8-M24					
ISO.A50.MC019.062	ISO50	38	19	62	43	7,5	7,5	M3-M12					
ISO.A50.MC031.083	ISO50	55	31	83	64	12,5	12,5	M8-M24					
ISO.A50.MC048.133	ISO50	79	48	133	114	20,5	20,5	M16-M36					

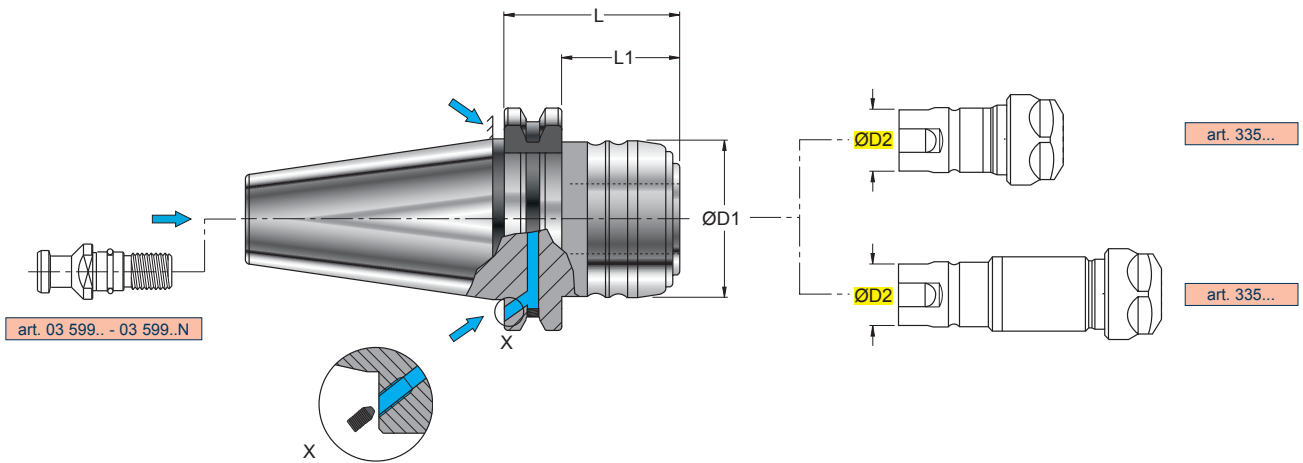
ART. ISO.A.. MS..  
DIN 69871/AD




**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					
ISO.A40.MS020.053	ISO40	43	20	53	34	M3-M12				
ISO.A40.MS032.090	ISO40	60	32	90	71	M6-M20				
ISO.A50.MS020.053	ISO50	43	20	53	34	M3-M12				
ISO.A50.MS032.074	ISO50	60	32	74	55	M6-M20				

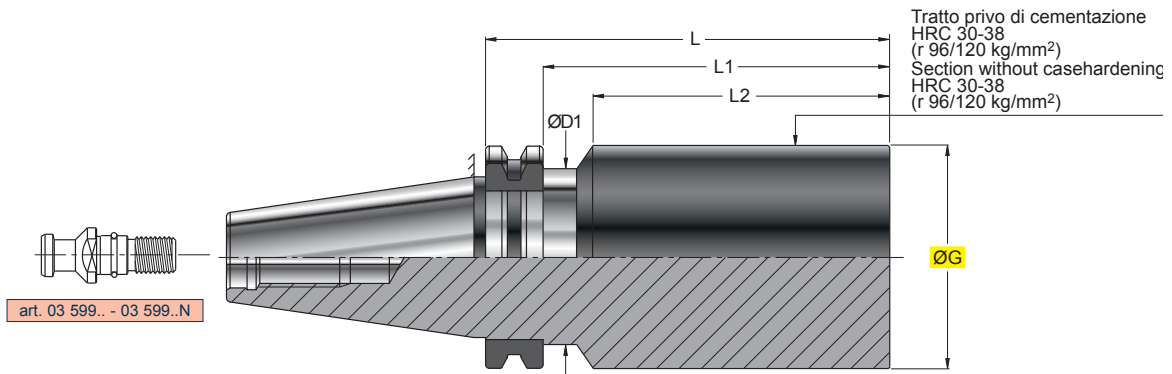
ART. ISO.B.. MS..  
DIN 69871/AD-B




**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						
ISO.B40.MS020.053	ISO40	43	20	53	34	M3-M12					
ISO.B40.MS032.090	ISO40	60	32	90	71	M6-M20					
ISO.B50.MS020.053	ISO50	43	20	53	34	M3-M12					
ISO.B50.MS032.074	ISO50	60	32	74	55	M6-M20					
ISO.B50.MS050.115	ISO50	87	50	115	96	M14-M33					

ART. ISO.A.. SF..  
DIN 69871/A

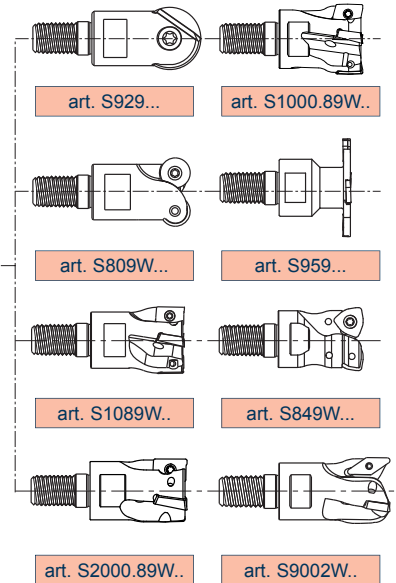
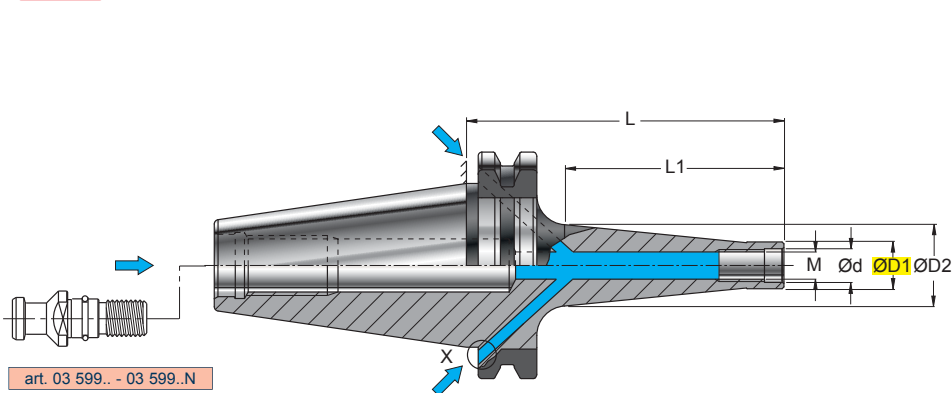


**BARRA CON CONO FINITO E STELO TENERO**  
BORING BARS WITH FINISHED TAPER AND BLANK SCHAFT  
ROHLINGE  
BARRE AVEC CONE FINI ET BOUT DOUX

ART.	 (mm)										
		ØG	ØD1	L	L1	L2					
ISO.A40.SF040.189	ISO40	40	—	189	170	—					
ISO.A40.SF040.269	ISO40	40	—	269	250	—					
ISO.A40.SF063.169	ISO40	63	49,5	169	150	134					
ISO.A40.SF063.269	ISO40	63	49,5	269	250	234					
ISO.A50.SF063.169	ISO50	63	—	169	150	—					
ISO.A50.SF063.269	ISO50	63	—	269	250	—					
ISO.A50.SF063.419	ISO50	63	—	419	400	—					
ISO.A50.SF097.269	ISO50	97	79,5	269	250	234					
ISO.A50.SF097.419	ISO50	97	79,5	419	400	384					

ART. ISO.B.. MD..  
DIN 69871/AD-B


NEW







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

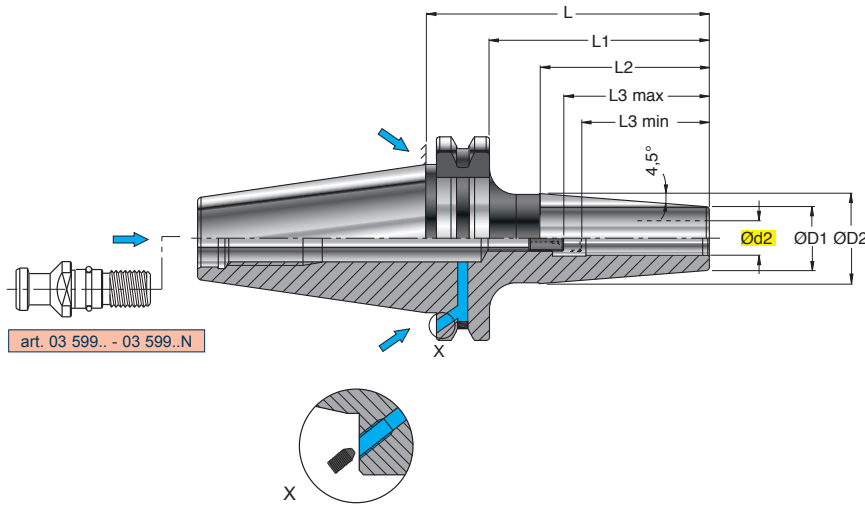
0,005

EQUILIBRATO BALANCED  
G6,3 15000 min<sup>-1</sup>

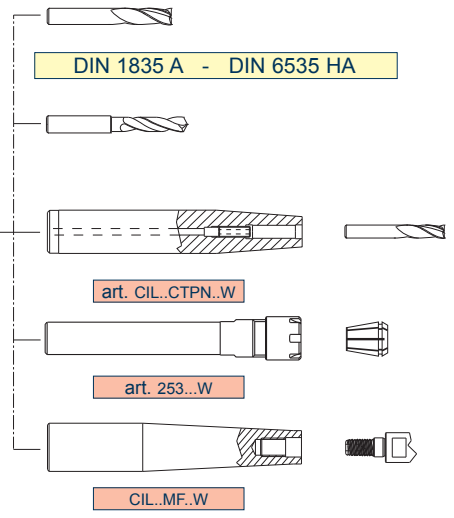
ART.	 (mm)						
		M	Ød	ØD1	ØD2	L	L1
ISO.B40.MD008.058	ISO40	8	8,5	12,7	15	58	30
ISO.B40.MD008.078	ISO40	8	8,5	12,7	23	78	50
ISO.B40.MD008.098	ISO40	8	8,5	12,7	23	98	70
ISO.B40.MD008.118	ISO40	8	8,5	12,7	23	118	90
ISO.B40.MD010.058	ISO40	10	10,5	17,7	20	58	30
ISO.B40.MD010.078	ISO40	10	10,5	17,7	25	78	50
ISO.B40.MD010.098	ISO40	10	10,5	17,7	28	98	70
ISO.B40.MD010.118	ISO40	10	10,5	17,7	28	118	90
ISO.B40.MD012.058	ISO40	12	12,5	20,7	24	58	30
ISO.B40.MD012.078	ISO40	12	12,5	20,7	24	78	50
ISO.B40.MD012.098	ISO40	12	12,5	20,7	31	98	70
ISO.B40.MD012.118	ISO40	12	12,5	20,7	31	118	90
ISO.B40.MD016.058	ISO40	16	17	28,7	29	58	30
ISO.B40.MD016.078	ISO40	16	17	28,7	34	78	50
ISO.B40.MD016.098	ISO40	16	17	28,7	34	98	70
ISO.B40.MD016.118	ISO40	16	17	28,7	34	118	90
ISO.B50.MD010.058	ISO50	10	10,5	17,7	20	58	30
ISO.B50.MD010.078	ISO50	10	10,5	17,7	25	78	50
ISO.B50.MD010.098	ISO50	10	10,5	17,7	28	98	70
ISO.B50.MD010.128	ISO50	10	10,5	17,7	31	128	100
ISO.B50.MD012.058	ISO50	12	12,5	20,7	24	58	30
ISO.B50.MD012.078	ISO50	12	12,5	20,7	24	78	50
ISO.B50.MD012.098	ISO50	12	12,5	20,7	31	98	70
ISO.B50.MD012.128	ISO50	12	12,5	20,7	31	128	100
ISO.B50.MD016.058	ISO50	16	17	28,7	29	58	30
ISO.B50.MD016.078	ISO50	16	17	28,7	34	78	50
ISO.B50.MD016.098	ISO50	16	17	28,7	34	98	70
ISO.B50.MD016.128	ISO50	16	17	28,7	41	128	100

 PER UNA PERFETTA TENUTA SULL'ASSE DEL MANDRINO SI CONSIGLIA DI AVERE UN TIRANTE CON ANELLO DI TENUTA.  
 WE RECOMMEND THE APPLICATION OF A RETENTION KNOB WITH AN O-RING FOR A PERFECT STABILITY ON THE TAPER SHANK AXIS  
 FÜR EINE GUTE ABDICHTUNG AUF DER ACHSE DER AUFNAHME EMPFEHLEN WIR EINEN ANZUGSBOLZEN MIT DICHTUNGSRING  
 POUR UNE PARFAITE TENUE SUR L'AX DU MANDRIN IL EST CONSEILLÉ D'AVOIR UN TIRANT AVEC UNE BAGUE DE TENUE

NEW



art. 03 599... - 03 599..N



MANDRINO A CALETTAMENTO TERMICO  
SHRINKING-ON TAPER SHANKS  
WERKZEUGAUFNAHMEN MIT SCHRUMPFVERBINDUNG  
MANDRIN A EMBOTEMENT TERMIQUE

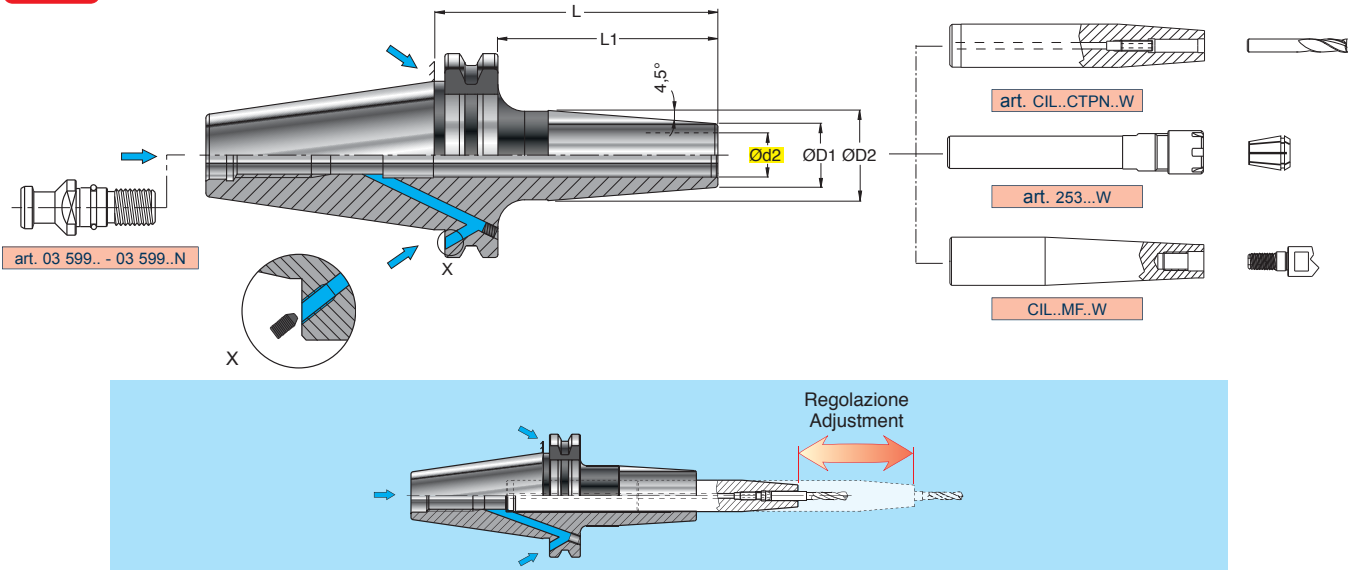
0,003

EQUILIBRATO  
BALANCED  
G 6,3 25000 min-1


ART.	ISO	(mm)								GWR	CTN
		Ød2	ØD1	ØD2	L	L1	L2	L3 min	L3 max		
ISO.B40.CTN006.080	ISO40	6	21	27	80	61	-	26	36	GWR 05L	5025
ISO.B40.CTN006.120	ISO40	6	21	27	120	101	-	26	36	GWR 06L	5003
ISO.B40.CTN006.160	ISO40	6	21	27	160	141	100	26	36	GWR 06L	5003
ISO.B40.CTN008.080	ISO40	8	21	27	80	61	-	26	36	GWR 06L	5003
ISO.B40.CTN008.120	ISO40	8	21	27	120	101	-	26	36	GWR 06L	5003
ISO.B40.CTN008.160	ISO40	8	21	27	160	141	100	26	36	GWR 06L	5003
ISO.B40.CTN010.080	ISO40	10	24	32	80	61	-	31	41	GWR 08CTD	5004
ISO.B40.CTN010.120	ISO40	10	24	32	120	101	-	31	41	GWR 08CTD	5004
ISO.B40.CTN010.160	ISO40	10	24	32	160	141	100	31	41	GWR 08CTD	5004
ISO.B40.CTN012.080	ISO40	12	24	32	80	61	-	36	46	GWR 10CTD	5005
ISO.B40.CTN012.120	ISO40	12	24	32	120	101	-	36	46	GWR 10CTD	5005
ISO.B40.CTN012.160	ISO40	12	24	32	160	141	100	36	46	GWR 10CTD	5005
ISO.B40.CTN014.080	ISO40	14	27	34	80	61	-	36	46	GWR 10CTD	5005
ISO.B40.CTN014.120	ISO40	14	27	34	120	101	-	36	46	GWR 10CTD	5005
ISO.B40.CTN014.160	ISO40	14	27	34	160	141	100	36	46	GWR 10CTD	5005
ISO.B40.CTN016.080	ISO40	16	27	34	80	61	-	39	49	GWR 12CTD	5006
ISO.B40.CTN016.120	ISO40	16	27	34	120	101	-	39	49	GWR 12CTD	5006
ISO.B40.CTN016.160	ISO40	16	27	34	160	141	100	39	49	GWR 12CTD	5006
ISO.B40.CTN018.080	ISO40	18	33	42	80	61	-	39	49	GWR 12CTD	5006
ISO.B40.CTN018.120	ISO40	18	33	42	120	101	-	39	49	GWR 12CTD	5006
ISO.B40.CTN018.160	ISO40	18	33	42	160	141	100	39	49	GWR 12CTD	5006
ISO.B40.CTN020.080	ISO40	20	33	42	80	61	-	41	51	GWR 16CTD	5008
ISO.B40.CTN020.120	ISO40	20	33	42	120	101	-	41	51	GWR 16CTD	5008
ISO.B40.CTN020.160	ISO40	20	33	42	160	141	100	41	51	GWR 16CTD	5008
ISO.B40.CTN025.100	ISO40	25	44	53	100	81	-	47	57	GWR 16CTD	5008
ISO.B50.CTN006.080	ISO50	6	21	27	80	61	-	26	36	GWR 05L	5025
ISO.B50.CTN006.120	ISO50	6	21	27	120	101	-	26	36	GWR 05L	5025
ISO.B50.CTN006.160	ISO50	6	21	27	160	141	100	26	36	GWR 05L	5025
ISO.B50.CTN008.080	ISO50	8	21	27	80	61	-	26	36	GWR 06L	5003
ISO.B50.CTN008.120	ISO50	8	21	27	120	101	-	26	36	GWR 06L	5003
ISO.B50.CTN008.160	ISO50	8	21	27	160	141	100	26	36	GWR 06L	5003
ISO.B50.CTN010.080	ISO50	10	24	32	80	61	-	31	41	GWR 08CTD	5004
ISO.B50.CTN010.120	ISO50	10	24	32	120	101	-	31	41	GWR 08CTD	5004
ISO.B50.CTN010.160	ISO50	10	24	32	160	141	100	31	41	GWR 08CTD	5004
ISO.B50.CTN012.080	ISO50	12	24	32	80	61	-	36	46	GWR 10CTD	5005
ISO.B50.CTN012.120	ISO50	12	24	32	120	101	-	36	46	GWR 10CTD	5005
ISO.B50.CTN012.160	ISO50	12	24	32	160	141	100	36	46	GWR 10CTD	5005
ISO.B50.CTN014.080	ISO50	14	27	34	80	61	-	36	46	GWR 10CTD	5005
ISO.B50.CTN014.120	ISO50	14	27	34	120	101	-	36	46	GWR 10CTD	5005
ISO.B50.CTN014.160	ISO50	14	27	34	160	141	100	36	46	GWR 10CTD	5005
ISO.B50.CTN016.080	ISO50	16	27	34	80	61	-	39	49	GWR 12CTD	5006
ISO.B50.CTN016.120	ISO50	16	27	34	120	101	-	39	49	GWR 12CTD	5006
ISO.B50.CTN016.160	ISO50	16	27	34	160	141	100	39	49	GWR 12CTD	5006
ISO.B50.CTN018.080	ISO50	18	33	42	80	61	-	39	49	GWR 12CTD	5006
ISO.B50.CTN018.120	ISO50	18	33	42	120	101	-	39	49	GWR 12CTD	5006
ISO.B50.CTN018.160	ISO50	18	33	42	160	141	100	39	49	GWR 12CTD	5006
ISO.B50.CTN020.080	ISO50	20	33	42	80	61	-	41	51	GWR 16CTD	5008
ISO.B50.CTN020.120	ISO50	20	33	42	120	101	-	41	51	GWR 16CTD	5008
ISO.B50.CTN020.160	ISO50	20	33	42	160	141	100	41	51	GWR 16CTD	5008
ISO.B50.CTN025.120	ISO50	25	44	53	120	101	-	47	57	GWR 16CTD	5008
ISO.B50.CTN025.160	ISO50	25	44	53	160	141	100	47	57	GWR 16CTD	5008
ISO.B50.CTN032.120	ISO50	32	44	53	120	101	-	51	61	GWR 16CTD	5008
ISO.B50.CTN032.160	ISO50	32	44	53	160	141	100	51	61	GWR 16CTD	5008

ART. ISO.B.. CTPN..  
DIN 69871/AD-B

**NEW**



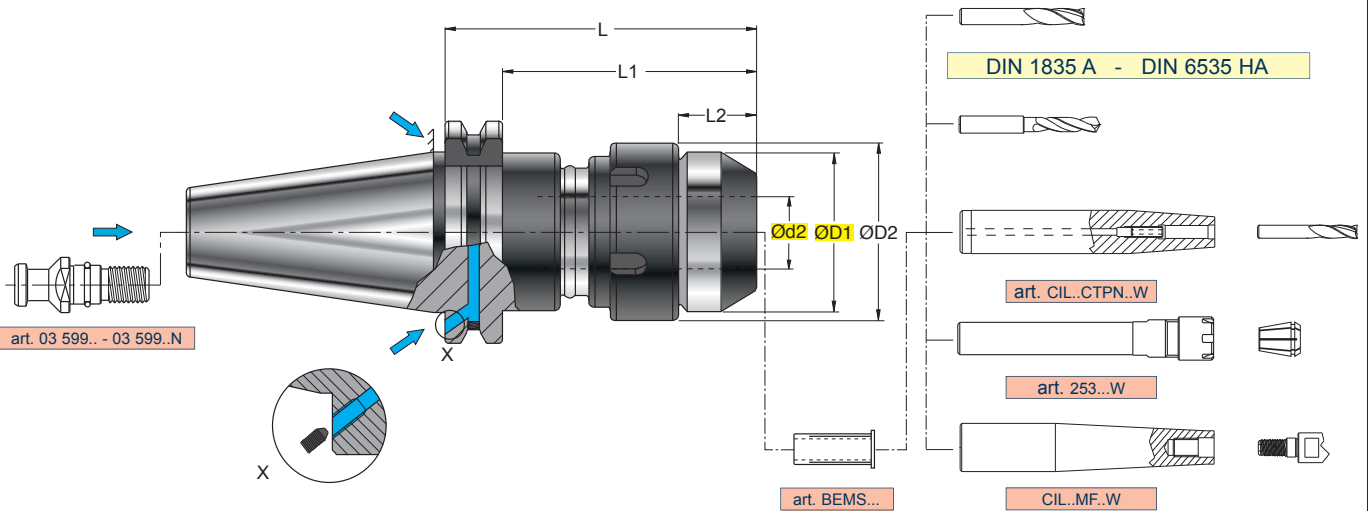
**MANDRINO A CALETTAMENTO TERMICO PROLUNGABILE**  
EXTENSIBLE SHRINK FIT  
VERLÄNGERBARES SCHRUMPFUTTER  
MANDRIN PROLONGEABLE A EMBOTEMENT THERMIQUE.

ART.		(mm)									
		ISO	Ød2	ØD1	ØD2	L					
ISO.B40.CTPN16.080	ISO40	16	27	34	80	61					
ISO.B40.CTPN25.090	ISO40	25	44	50	90	71					
ISO.B50.CTPN16.130	ISO50	16	27	34	130	111					
ISO.B50.CTPN25.130	ISO50	25	44	53	130	111					
ISO.B50.CTPN32.130	ISO50	32	44	53	130	111					



ART. ISO.B.. MFS..  
DIN 69871/AD-B

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



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					
ISO.B40.MFS006.074	ISO40	6	26	32	74	55	11	-	RGMS006	-	927.027MS	ESMS.010
ISO.B40.MFS008.075	ISO40	8	27	32	75	56	11	-	RGMS008	-	927.027MS	ESMS.010
ISO.B40.MFS010.079	ISO40	10	32	37	79	60	13	-	RGMS010	-	927.032MS	ESMS.010
ISO.B40.MFS012.085	ISO40	12	35	37	85	66	20	-	RGMS012	-	927.032MS	ESMS.010
ISO.B40.MFS016.088	ISO40	16	40	44	88	69	21	-	RGMS016	-	927.039MS	ESMS.010
ISO.B40.MFS020.090	ISO40	20	46	49	90	71	23	BEMS.20..	RGMS020	RGMSB020	927.044MS	ESMS.010
ISO.B40.MFS020.150	ISO40	20	46	49	150	131	23	BEMS.20..	RGMS020	RGMSB020	927.044MS	ESMS.010
ISO.B40.MFS025.097	ISO40	25	52	54	97	78	26	-	RGMS025	-	927.049MS	ESMS.010
ISO.B40.MFS032.105	ISO40	32	67	68	105	86	33	BEMS.32..	RGMS032	RGMSB032	927.063MS	ESMS.010
ISO.B40.MFS032.150	ISO40	32	67	68	150	131	33	BEMS.32..	RGMS032	RGMSB032	927.063MS	ESMS.010
ISO.B50.MFS006.074	ISO50	6	26	32	74	55	11	-	RGMS006	-	927.027MS	ESMS.010
ISO.B50.MFS008.075	ISO50	8	27	32	75	56	11	-	RGMS008	-	927.027MS	ESMS.010
ISO.B50.MFS010.079	ISO50	10	32	37	79	60	13	-	RGMS010	-	927.032MS	ESMS.010
ISO.B50.MFS012.085	ISO50	12	35	37	85	66	20	-	RGMS012	-	927.032MS	ESMS.010
ISO.B50.MFS016.088	ISO50	16	40	44	88	69	21	-	RGMS016	-	927.039MS	ESMS.010
ISO.B50.MFS020.090	ISO50	20	46	49	90	71	23	BEMS.20..	RGMS020	RGMSB020	927.044MS	ESMS.010
ISO.B50.MFS020.150	ISO50	20	46	49	150	131	23	BEMS.20..	RGMS020	RGMSB020	927.044MS	ESMS.010
ISO.B50.MFS025.097	ISO50	25	52	54	97	78	26	-	RGMS025	-	927.049MS	ESMS.010
ISO.B50.MFS032.103	ISO50	32	67	68	103	84	33	BEMS.32..	RGMS032	RGMSB032	927.063MS	ESMS.010
ISO.B50.MFS032.150	ISO50	32	67	68	150	131	33	BEMS.32..	RGMS032	RGMSB032	927.063MS	ESMS.010

CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS

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

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