

# diebold

 ThermoGrip® Shrink Technology

*Always  
one step ahead™*

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3100 ISG

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Goldring-Werkzeuge

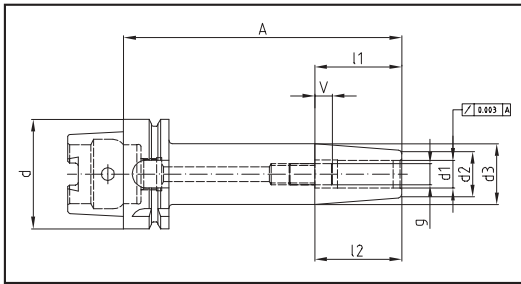
# ThermoGrip® Shrink Technologies

## Shrink Fit Chucks Inch Diameter

### Shrink Fit Chucks HSK Form A DIN 69893

balanced G 2,5 / 25000 r.p.m.

For automatic tool change, with radial bore through the taper for manual grippers



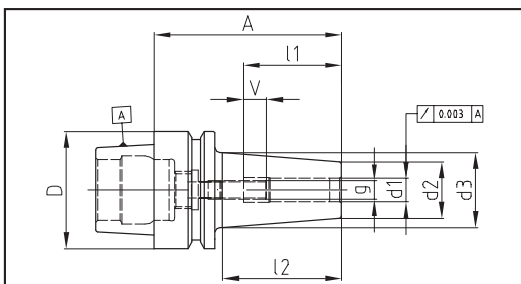
Order-No.	Taper d	d1	(d1)	d2	d3	l1	l2	A	V	g
82.575.500.080	HSK-63A	0.188	(3/16)"	0.591	0.787	0.984	1.181	3.543	0.197	M6
82.575.500.110		0.250	(1/4)"	0.787	1.063	1.417	1.772	3.543	0.394	M5
82.575.500.275		0.375	(3/8)"	0.945	1.260	1.654	1.969	3.543	0.394	M8
82.575.500.410		0.500	(1/2)"	0.945	1.260	1.850	1.969	3.543	0.394	M8
82.575.500.490		0.625	(5/8)"	1.063	1.339	1.969	1.969	3.543	0.394	M12
82.575.500.590		0.750	(3/4)"	1.299	1.654	2.047	2.244	3.937	0.394	M16
82.575.500.740		1.000	(1)"	1.732	2.087	2.283	2.244	4.528	0.394	M16
82.575.500.790		1.250	(1 1/4)"	1.732	2.087	2.283	2.244	4.724	0.394	M16
82.575.500.090	HSK-63A	0.188	(3/16)"	0.591	1.063	0.984	1.181	8.000	0.197	M6
82.575.500.130		0.250	(1/4)"	0.787	1.260	1.417	1.772	8.000	0.394	M5
82.575.500.285		0.375	(3/8)"	0.945	1.339	1.654	1.969	8.000	0.394	M8
82.575.500.420		0.500	(1/2)"	0.945	1.339	1.850	1.969	8.000	0.394	M8
82.575.500.495		0.625	(5/8)"	1.063	1.654	1.969	1.969	8.000	0.394	M12
82.575.500.595		0.750	(3/4)"	1.299	2.008	2.047	2.244	8.000	0.394	M16
82.575.500.750		1.000	(1)"	1.732	2.087	2.283	2.244	8.000	0.394	M16
82.575.500.795		1.250	(1 1/4)"	1.732	2.087	2.283	2.244	8.000	0.394	M16

**Application:** For high precision clamping of cylindrical shank tools. Shanks per DIN 1835 form A+B, shaft tolerance h6 and Ra <0.3

### Shrink Fit Chucks HSK-40E + 50E

balanced G 2,5 / 25000 r.p.m.

For automatic tool change, with radial bore through the taper for manual grippers



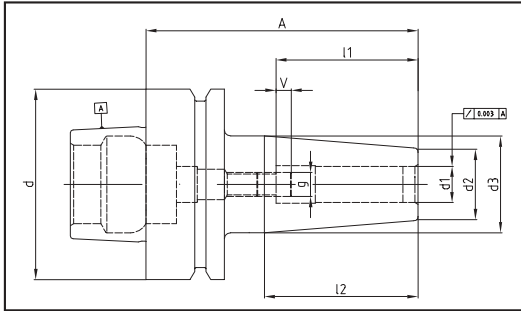
Order-No.	Taper d	d1	(d1)	d2	d3	l1	l2	A	V	g
82.568.500.113	HSK-40E	0.250	(1/4)"	0.787	1.063	1.417	1.772	4.000	0.394	M5
82.568.500.278		0.375	(3/8)"	0.945	1.260	1.654	1.969	4.000	0.394	M8
82.568.500.410		0.500	(1/2)"	0.945	1.260	1.850	1.969	3.543	0.394	M8
82.573.500.110	HSK-50E	0.250	(1/4)"	0.787	1.063	1.417	1.772	3.150	0.394	M5
82.573.500.275		0.375	(3/8)"	0.945	1.260	1.654	1.969	3.346	0.394	M8
82.573.500.410		0.500	(1/2)"	0.945	1.260	1.850	1.969	3.543	0.394	M8

**Application:** For high precision clamping of cylindrical shank tools. Shanks per DIN 1835 form A+B, shaft tolerance h6 and Ra <0.3

## ThermoGrip® Shrink Technologies Shrink Fit Chucks Inch Diameter

### Shrink Fit Chucks HSK Form F DIN 69893

balanced G 2,5 / 25000 r.p.m.

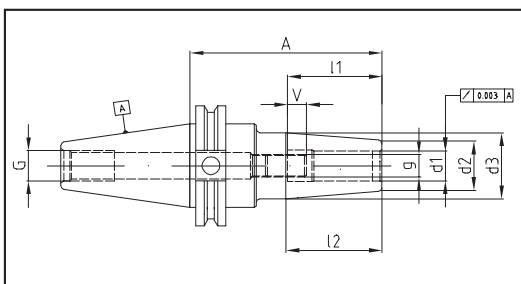


Order-No.	Taper d	d1	(d1)	d2	d3	l1	l2	A	V	g
82.579.500.017	HSK 63F	0,125	(1/8) "	0,591	0,787	0,787	1,181	3,543	0,197	M6
82.579.500.080	HSK 63F	0,188	(3/16) "	0,591	0,984	0,984	1,181	3,543	0,197	M6
82.579.500.110	HSK 63F	0,250	(1/4) "	0,787	1,063	1,417	1,732	3,543	0,394	M5
82.579.500.195	HSK 63F	0,313	(5/16) "	0,787	1,063	1,417	1,732	3,543	0,394	M5
82.579.500.275	HSK 63F	0,375	(3/8) "	0,945	1,260	1,654	1,969	3,543	0,394	M8
82.579.500.410	HSK 63F	0,500	(1/2) "	0,945	1,260	1,850	1,969	3,543	0,394	M8
82.579.500.490	HSK 63F	0,625	(5/8) "	1,063	1,339	1,969	1,969	3,740	0,394	M12
82.579.500.590	HSK 63F	0,750	(3/4) "	1,299	1,654	2,047	2,244	3,937	0,394	M16
82.579.500.740	HSK 63F	1,000	(1) "	1,732	2,087	2,283	2,244	4,528	0,394	M16

**Application:** For high precision clamping of cylindrical shank tools. Shanks per DIN 1835 form A+B, shaft tolerance h6 and Ra <0.3

### Shrink Fit Chucks CAT 40

balanced G 2,5 / 25000 r.p.m.



Order-No.	Taper d/G	d1	(d1)	d2	d3	l1	l2	A	V	g
82.302.500.085	CAT 40/5/8"	0.188	(3/16) "	0.591	0.787	0.984	1.181	4.000	0.197	M6
82.302.500.115		0.250	(1/4) "	0.787	1.063	1.417	1.772	4.000	0.394	M5
82.302.500.280		0.375	(3/8) "	0.945	1.260	1.654	1.969	4.000	0.394	M8
82.302.500.415		0.500	(1/2) "	0.945	1.260	1.850	1.969	4.000	0.394	M8
82.302.500.493		0.625	(5/8) "	1.063	1.339	1.969	1.969	4.000	0.394	M12
82.302.500.593		0.750	(3/4) "	1.299	1.654	2.047	2.244	4.000	0.394	M16
82.302.500.745		1.000	(1) "	1.732	2.087	2.283	2.244	4.000	0.394	M16
82.302.500.793		1.250	(1 1/4) "	1.732	2.087	2.283	2.244	4.000	0.394	M16
82.302.500.090	CAT 40/5/8"	0.188	(3/16) "	0.591	1.063	0.984	1.181	8.000	0.197	M6
82.302.500.130		0.250	(1/4) "	0.787	1.260	1.417	1.772	8.000	0.394	M5
82.302.500.285		0.375	(3/8) "	0.945	1.339	1.654	1.969	8.000	0.394	M8
82.302.500.420		0.500	(1/2) "	0.945	1.339	1.850	1.969	8.000	0.394	M8
82.302.500.495		0.625	(5/8) "	1.063	1.654	1.969	1.969	8.000	0.394	M12
82.302.500.595		0.750	(3/4) "	1.299	2.008	2.047	2.244	8.000	0.394	M16
82.302.500.750		1.000	(1) "	1.732	2.087	2.283	2.244	8.000	0.394	M16
82.302.500.795		1.250	(1 1/4) "	1.732	2.087	2.283	2.244	8.000	0.394	M16

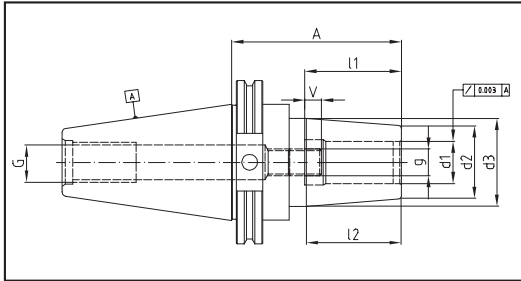
**Application:** For high precision clamping of cylindrical shank tools. Shanks per DIN 1835 form A+B, shaft tolerance h6 and Ra <0.3

# ThermoGrip® Shrink Technologies

## Shrink Fit Chucks Inch Diameter

### Shrink Fit Chucks CAT 50

balanced G 2,5 / 25000 r.p.m.



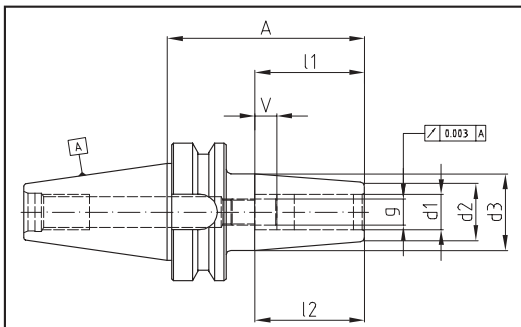
Order-No.	Taper d/G	d1	(d1)	d2	d3	l1	l2	A	V	g
82.306.500.085	CAT 50 / 1"	0.188	(3/16) "	0.591	0.787	0.984	1.181	4.000	0.197	M6
82.306.500.115		0.250	(1/4) "	0.787	1.063	1.417	1.772	4.000	0.394	M5
82.306.500.280		0.375	(3/8) "	0.945	1.260	1.654	1.969	4.000	0.394	M8
82.306.500.415		0.500	(1/2) "	0.945	1.260	1.850	1.969	4.000	0.394	M8
82.306.500.494		0.625	(5/8) "	1.063	1.339	1.969	1.969	4.000	0.394	M12
82.306.500.593		0.750	(3/4) "	1.299	1.654	2.047	2.244	4.000	0.394	M16
82.306.500.745		1.000	(1) "	1.732	1.969	2.283	2.244	4.000	0.394	M16
82.306.500.793		1.250	(1 1/4) "	1.732	1.969	2.283	2.244	4.000	0.394	M16
82.306.500.090	CAT 50 / 1"	0.188	(3/16) "	0.591	1.063	0.984	1.181	8.000	0.197	M6
82.306.500.130		0.250	(1/4) "	0.787	1.260	1.417	1.772	8.000	0.394	M5
82.306.500.285		0.375	(3/8) "	0.945	1.339	1.654	1.969	8.000	0.394	M8
82.306.500.420		0.500	(1/2) "	0.945	1.339	1.850	1.969	8.000	0.394	M8
82.306.500.495		0.625	(5/8) "	1.063	1.654	1.969	1.969	8.000	0.394	M12
82.306.500.595		0.750	(3/4) "	1.299	2.008	2.047	2.244	8.000	0.394	M16
82.306.500.750		1.000	(1) "	1.732	1.969	2.283	2.244	8.000	0.394	M16
82.306.500.795		1.250	(1 1/4) "	1.732	1.969	2.283	2.244	8.000	0.394	M16

**Application:** For high precision clamping of cylindrical shank tools. Shanks per DIN 1835 form A+B, shaft tolerance h6 and Ra <0.3

### Shrink Fit Chucks BT 30 + 40

balanced G 2,5 / 25000 r.p.m.

BT 40 for radial or central coolant through

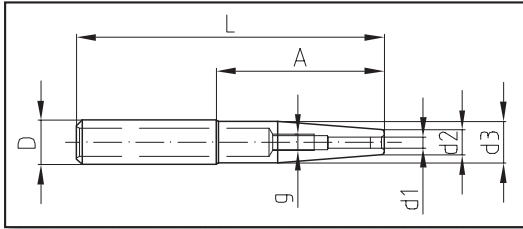


Order-No.	Taper d/G	d1	(d1)	d2	d3	l1	l2	A	V	g
82.150.500.113	BT 30/M12	0.250	(1/4) "	0.787	1.063	1.417	1.772	3.000	0.394	M5
82.150.500.278		0.375	(3/8) "	0.945	1.260	1.654	1.969	3.000	0.394	M8
82.150.500.412		0.500	(1/2) "	0.945	1.260	1.850	1.969	3.000	0.394	M8
82.150.500.492		0.625	(5/8) "	1.063	1.339	1.969	1.969	3.000	0.394	M12
82.150.500.593		0.750	(3/4) "	1.299	1.654	2.047	2.244	3.500	0.394	M16
82.160.500.120	BT 40/M16	0.250	(1/4) "	0.787	1.063	1.417	1.772	6.000	0.394	M5
82.160.500.283		0.375	(3/8) "	0.945	1.260	1.654	1.969	6.000	0.394	M8
82.160.500.418		0.500	(1/2) "	0.945	1.260	1.850	1.969	6.000	0.394	M8
82.160.500.494		0.625	(5/8) "	1.063	1.339	1.969	1.969	6.000	0.394	M12
82.160.500.594		0.750	(3/4) "	1.299	1.654	2.047	2.244	6.000	0.394	M16
82.160.500.748		1.000	(1) "	1.732	2.087	2.283	2.244	6.000	0.394	M16

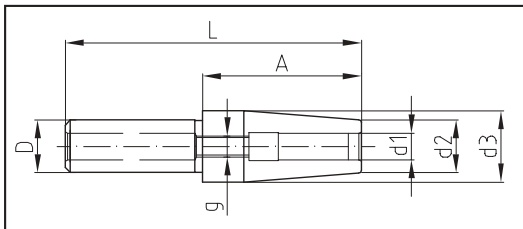
**Application:** For high precision clamping of cylindrical shank tools. Shanks per DIN 1835 form A+B, shaft tolerance h6 and Ra <0.3

**ThermoGrip® Shrink Technologies**  
**Shrink Fit Chucks Inch Diameter**

**Shrink Fit Reductions / Extensions**



Order-No.	D	(D)	d1	(d1)	d2	d3	A	(A)	L	g
85.500.151	0.500	(1/2")	0.125	(1/8")	0.354	0.472	2.500	(2 1/2")	4.350	M6
85.500.152	0.500	(1/2")	0.188	(3/16")	0.354	0.472	2.500	(2 1/2")	4.350	M6
85.500.153	0.500	(1/2")	0.250	(1/4")	0.591	0.748	2.500	(2 1/2")	4.350	M5
85.500.154	0.500	(1/2")	0.375	(3/8")	0.591	0.748	2.500	(2 1/2")	4.350	M5



**Application:** Extensions for Shrink Fit Tools, Weldon Holders, Collet Chucks.