



diebold

Goldring-Werkzeuge

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Diebold Pull Force*



Diebold Pull Force Gauges

Diebold Mechanical Pull Force Gauges

Mechanical Pull Force Gauges



Taper Size	Minimum Suggested Drawbar Pull Force ISO 12164	Range of Diebold Pull Force Gauges
HSK-E20	1.2 kN	0 – 4.5 kN
HSK-E25	3.0 kN	0 – 18 kN
HSK-32	5 kN	0 – 18 kN
HSK-40	6.8 kN	0 – 45 kN
HSK-50	11 kN	0 – 45 kN
HSK-63	18 kN	0 – 45 kN
HSK-80	28 kN	0 – 90 kN
HSK-100	45 kN	0 – 90 kN
SK30 / BT30 / D-BT30 (BTP30)		1 – 18 kN
SK40 / BT40 / D-BT40 (BTP40)		2 – 18 kN
SK50 / BT50 / D-BT50 (BTP50)		5 – 45 kN



The cost advantage

These mechanical Pull Force Gauges cost only about a third of what electronic devices cost. The calibration or repair of an electronic clamping force tester usually costs more than a new mechanical Pull Force Gauge. The mechanical Pull Force Gauges do not need maintenance or repairs, only periodic calibration according to ISO 9001.

Clamping force testers are safety-relevant measuring devices

The pull force gauges are built purely mechanically and therefore they are independent from the ambient temperature. This is very important for service engineers when they are traveling. They can use the Pull Force Gauges immediately, even when removed from the warm or cold vehicle. Just set the dial indicator to zero and you can read the pull-in force in kN with an accuracy of +/- 3%.

The customer benefit

The reliable function of the clamping system of a machine spindle is not only a safety-relevant aspect but above all has a strong influence on the machining accuracy. The clamping force of a spindle clamping system decreases during its service life, it can also decrease significantly earlier due to wear or overload. The mechanical pull force gauges from Diebold do not need any electronics. The clamping force is measured by means of an expansion bolt which the clamping force is transmitted directly to a dial gauge that reads the clamping force in kN. Only steel parts are built in, temperature influence is not an issue for the measuring result.

Item #	Taper	Taper	Price
76.785.020	HSK-A/C/E 20	-	\$ 4,666.00
76.785.025	HSK-A/C/E 25	HSK-B/D/F 32	\$ 3,131.00
76.785.032	HSK-A/C/E 32	HSK-B/D/F 40	\$ 2,795.00
76.785.040	HSK-A/C/E 40	HSK-B/D/F 50	\$ 2,795.00
76.785.050	HSK-A/C/E 50	HSK-B/D/F 63	\$ 3,101.00
76.785.063	HSK-A/C/E 63	HSK-B/D/F 80	\$ 3,101.00
76.785.080	HSK-A/C/E 80	HSK-B/D/F 100	\$ 3,367.00
76.785.100	HSK-A/C/E 100	-	\$ 3,544.00
76.785.130	SK30 / CAT30	-	\$ 2,939.00
76.785.130.BT	BT30 / D-BT30 (BTP30)	-	\$ 3,013.00
76.785.140	SK40 / CAT40	-	\$ 2,939.00
76.785.140.BT	BT40 / D-BT40 (BTP40)	-	\$ 3,013.00
76.785.150	SK50 / CAT50 / BT50 / D-BT50 (BTP50)	-	\$ 3,485.00

Includes: Pull Force Gauge with certificate in fitted case.
Re-calibration: Please return gauge master to Diebold for annual recalibration.

All pull force gauges with steep taper DIN/ANSI accept the pull stud of your machine. For BT 30 and BT 40 holders we offer short pull studs for use of the pull force gauge. These pull studs with 45° and 60° clamping angle are delivered with the pull force gauge.



A video that shows how the Pull Force Gauges work you'll find here:

Diebold mechanical Pull Force Gauges
youtu.be/QcX58cOfsY

