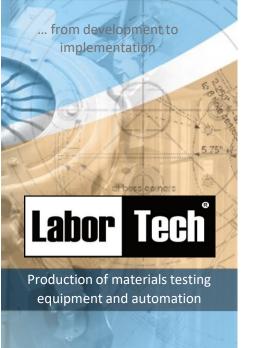
... from development to implementation



Production of materials testing equipment and automation

LABORTECH machines designed for testing, inspection and adjustment of automotive clutches

Made in Czech republic



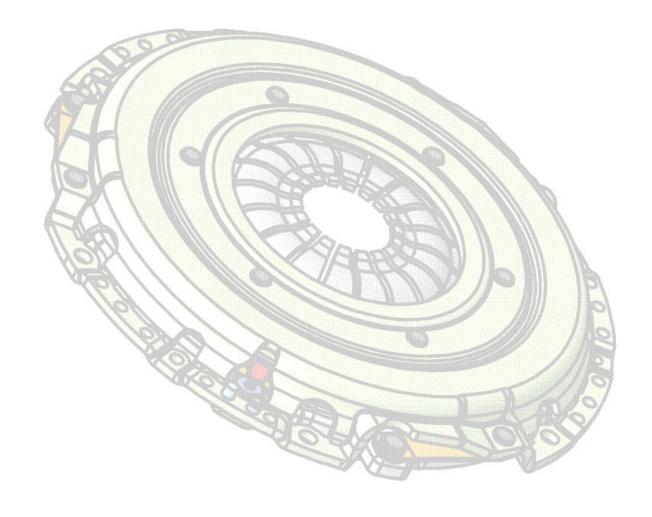
for testing automobile clutch



Every small detail matters

# Testing, inspection and adjustment of

automobile clutch





for testing and adjustment of automobile clutch

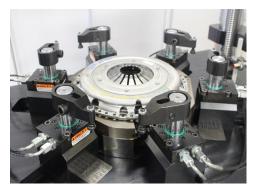


Every small detail matters

# Clutch testing and adjustment machine SEMI-AUTOMATIC OPERATION - EDHTest 5.2022

#### **Basic properties**

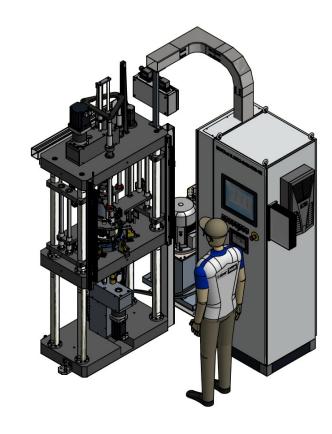




Testing of mechanical properties of PKW clutches PKW clutch type XTD Application - test room or manual operation Manual insertion of the clutche into the machine Max. test force 20kN - tensing, pressing Max. test speed 300 mm / sec Takt time <18 sec - PKW clutch measurement Takt time <45 sec - setting of PKW clutch XTD 20-channel measurement of clutch parameters Force measuring system in accordance with EN 7500-1 Possibility of extension by DATAMATRIX Operation via touch LCD monitors EDH / XTend software v.4 Measuring stroke and throwing thumbs Measurement of tension and pressing force, including flatness, etc.









for testing and adjustment of automobile clutch



#### Every small detail matters

# Clutch testing and adjustment machine AUTOMATIC OPERATION in line - EDHTest 5.2021

#### **Basic properties**



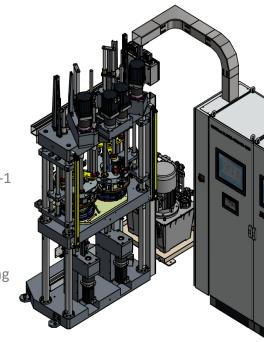
Max. test force 20kN - tensing, pressing Max. test speed 300 mm / sec

Takt time <12 sec - PKW clutch measurement
Takt time <28 sec - setting of PKW clutch XTD
20-channel measurement of clutch parameters
Force measuring system in accordance with EN 7500-1

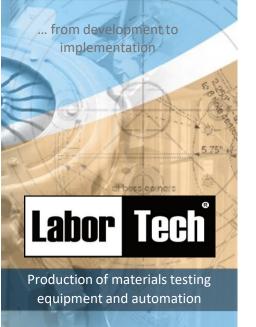
Possibility of extension by DATAMATRIX
Operation via touch LCD monitors
EDH / XTend software v.4
Measuring stroke and throwing thumbs

Measurement of tension and pressing force, including flatness, etc.

Work charts, list of tests in a file, corrections, etc.







for testing and adjustment of automobile clutch



#### Every small detail matters

# Clutch testing and adjustment machine AUTOMATIC OPERATION in line - EDHTest 6.2022

#### **Basic properties**

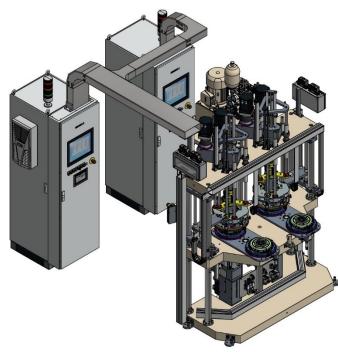
Testing of mechanical properties of PKW clutches clutch

Application - ASSEMBLY AND TESTING LINE Inserting the clutch on the carousel - ROBOT Max. test force 20kN - tripping, pressing Max. test speed 300 mm / sec Takt time <9 sec - PKW clutch measurement Takt time <19 sec - setting of PKW clutch XTD 20-channel measurement of clutch parameters Force measuring system in accordance with EN 7500-1 Possibility of extension by DATAMATRIX Operation via touch LCD monitors EDH / XTend software v.4 Measuring stroke and throwing thumbs Measurement of breaking and pressing force, including flatness, etc.

Work charts, list of tests in a file, corrections, etc.

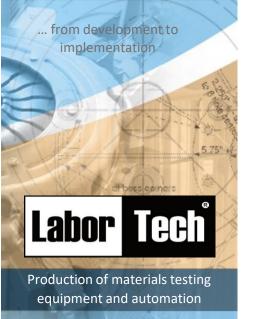
Go to video





Double adjustment and measurement of the XTD type





## Software

for measuring and adjusting couplings

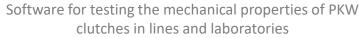


#### Every small detail matters

# Test software EDH/XTend

### for testing couplings for assembly lines and laboratories

#### **Basic properties**



#### EDH / XTend v.4 software includes:

The main window of the program with the possibility of switching between test graphs and measured results

Online color evaluation of good and bad results
Test definition - basic settings, tension and pressing
forces, measuring inches, XTend, etc.

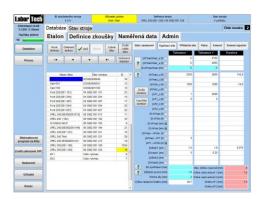
+ A - tolerance settings for all parameters

Measured data - archiving, export, filtering and
transfer of measured data to networks

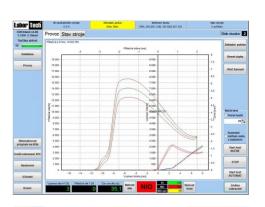
Calibration and correction according to the test
standard

Machine settings - control console, service console, error message, Log, etc.

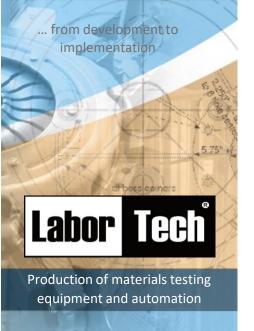
Communication from external peripherals datamatrix, lines, robot, balancing machine LABORTECH, identification of NIO connectors, etc.







labor Tech	ID zkušebniho stroje EDH		Uživatel, práva Matr. Matr		OPEL 240 Test / 98 3052 001 331			Chara Cislo stanice				
EDHXXend v1.63 1: XXend 2: EDH Databáze	Databáze	Stav stroje										
	Etalon	Definice zk	koušky Naměře		á data	Admin						
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	Datum a čas vy definice teo	tvoření hlázev díce	Člate výkresu	Datum méřaní	Čas měřaní	Obeluha	10 / 100	AFmax_s (N)	AFrax_u [N]	AFmin_o (N)	AFein_u (N)	AF1,
	10.10.2012.0.30	OPEL 240 Teat	00 3002 801 33	16.10.2012	10.12.43	Labortech	100	2795.7	2533,3	1370,0	1306.9	137
	16.10.2012 0:30	234 OPEL 240 Test	06 3082 881 33	16.10.2012	10.11.12	Labortech	100	2615,5	2450,6	1354,2	1207.7	142
	18.10.2012 8:36	134 OPEL 248 Test	06 3082 881 33	18.10.2012	10:10:43	Labortsch	100	2691.0	2517.1	1457,9	1392,9	146
	18.10.2012 8:36	134 OPEL 240 Test	06 3082 001 33	18.10.2012	18.10.11	Labortech		2691,4	2525.9	1998,1	1307.5	138
	16.10.2012.036	134 OPEL 240 Test	06 3062 881 33	18.10.2012	16:09:33	Labortech		2608.2	2459,4	1385,8	1288,4	142
	16.10.2012 8:36	134 OPEL 245 Test	06 3062 601 33	18,16,2012	10:09:05	Labortech	10	2809.0	2504,7	1450,5	1393,4	145
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	16.10.2012 6 36		00 3082 881 33		10:07:09	Labortech	100	2601,1	2461,2	1358,6	1207,9	145
	18.10.2012 8:36		06 3062 661 33	18.10.2012	10:00:01	Laborach	10	2094,5	2508.9	1457.2	1393,8	145
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	18.10.2012 0:30		06 3082 001 33		10:03:23	Laborisch		2006,4	2457,0	1355,2	1209.0	141
	18.10.2012.8.36	134 OPEL 240 Test	06 3082 991 33	18.10.2012	10.01.39	Laboriech		2693.2	2507,6	1457,0	1394,7	148
	18.10.2012 8 36		06 3082 881 33	18.10.2012	16:00:27	Labortech	100	2879.1	2523.0	1985.2	1315.2	136
	16.10.2012 6:36		06 3082 881 33		15:58:59	Labortech	100	2604,7	2440,5	1352,8	1290.1	141
	10.10.2012 0.00		00 3002 001 33		15:57:41	Laborach	100	2054,0	2491,6	1454,5	1396,7	145
	16.10,2012 0 30		00 3002 001 33	10.10.2012	19:56:03	Labortech	10	2660,9	2521,5	1363,6	1316,1	136
	18.10.2012 8:36		06 3082 881 33		15:54:07	Labortech		2590,3	2439,8	1352,2	1290,1	141
Minimalizorat	18.10.2012.836		06 3082 001 33	18.10.2012	15:51:28	Labortech	10	2790.6	2479,4	1451,5	1397.3	145
program na tištu	10.10.2012 8:30		06 3082 001 33		15:49:38	Labortech	10	2057,7	2514.2	1362,8	1318,7	136
	18:10:2012 5:36		06 3062 001 33		15:47:32	Labortech	10	2611,2	2455,2	1552.2	1289,9	138
Nastaveri	16.10.2012 8 36		06 3082 881 33		15.38.26	Labortech	100	2550,3	2457,0	1352.4	1288,1	138
	10.10.2012 8:36		00 3002 001 33		15:36:15	Labortech		2000,7	2455,0	1001,0	1288,2	139
	10.10.2012 0.00		00 3002 001 33		15:20:25	Labortech	-0	2590,9	2459.2	1263,5	1288,1	141
Uživatel	10.10.2012 0:30		06 3002 001 33	10.10.2012	19:27:26	Labortech	10	2587,3	2457,4	1250.0	1291,9	140
	16.10.2012 8:36		06 3082 001 33	18.10.2012	15:12:41	Labortach		2074.0	2521,0	1454.8	1396,0	145
Konec	18.10.2012 8 36	134 OPEL 240 Test	06 3082 001 33	18.10.2012	15:00:10	Laborisch	10	2578.7	2448,6	1349,1	1289.4	142



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#### LABORTECH in the world



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