

# **CENTREX duo**

Centering element for reliable processes



Positioning repeatability of the manufactured parts and high process reliability are the top priorities in production. With the CENTREX duo centering system you can easily set up your components. Tedious and time-consuming alignment in the machining of components is therefore a thing of the past. CENTREX duo can be used universally for a wide range of applications.

#### Key advantages

- Centering element for high-precision positioning of two components
- Extremely high repeatability [ $\leq 0.003$  mm]
- Insensitive to swarf and chips
- Can be flexibly integrated into your own designs, even in the smallest installation space
- Installed in thousands of designs
- Simple handling

#### Your benefits

- Suitable for a very small installation space
- Can be flexibly integrated in your own designs
- Complex maintenance is not required
- Medium is not required
- Saves time when setting up



# QUICK CHANGE-OVER SYSTEMS

## CENTREX duo

### CENTREX duo in detail

Designation	
<ul style="list-style-type: none"> <li>1 Positioning taper</li> <li>2 Positioning bushing</li> <li>3 Setting diameter for easy mounting</li> <li>4 Insertion bevel for easy mounting</li> <li>5 Rubber for positioning the precision balls</li> <li>6 Precision balls as centering element</li> <li>7 Disassembling thread</li> <li>8 Neck for plane-parallel installation of the positioning taper</li> <li>9 Insertion bevel for easy mounting</li> </ul>	

### CENTREX duo centering element. Technical data and order overview

Description	Positioning bushing		Positioning taper	
Size	1	3	1	3
Repeatability ≤ [mm]	0,003			
Weight [kg]	0,01	0,05	0,01	0,04
Bore bushing Ø [mm]	BZ Ø 16 H7	BZ Ø 32 H7		
Bushing height [mm]	CB 8,5	17,5		
Bore depth	CC 9 [+0,0   -0,1]	18 [+0,0   -0,1]		
Min. plate thickness 1 [mm]	CD 12,5	25		
Bore bolt Ø [mm]	CA		Ø 6 H7	Ø 10 H7
Bolt length [mm]	CE		9	18
Min. plate thickness 2 [mm]	KS		12	21
In stock	✓	✓	✓	✓
Material no.	10001504	10001503	10001515	10001514

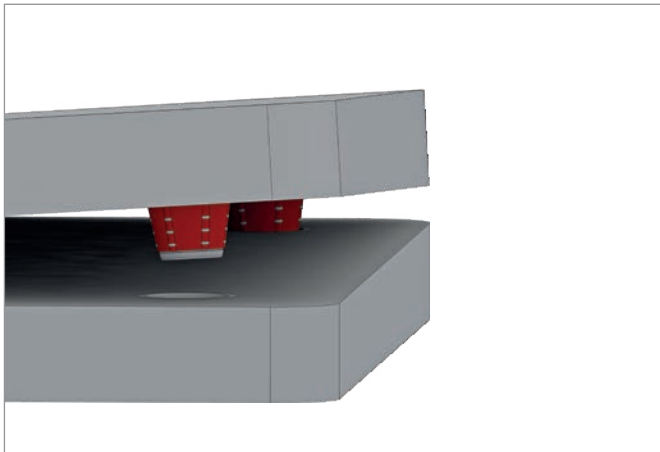
### CENTREX duo application examples



#### Workpiece carriers

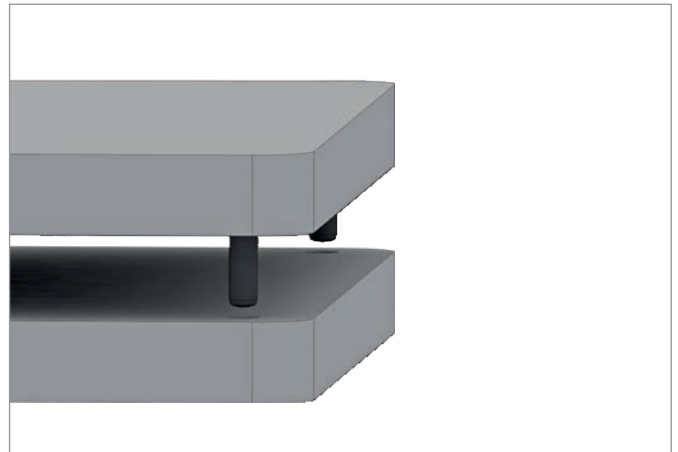
CENTREX duo as a positioning element of workpiece carriers for multiple manufacturing and assembly stations [e.g. smart-phone production].

### User example: Pallet system



#### CENTREX duo

- Extremely easy handling
- No tilting when joining and no wear



#### Off-the-shelf centering pin

- Difficult handling, only parallel joining possible
- Tilted and worn out