## Agathon Slide Guide Bushing Standard 7040 / 7041

### Novelty – Maintenance-free slide guide bushing, straight

High performance slide bushing for demanding applications



Material of steel jacket 1.0044. Sliding layer made of sintered iron with graphite and MoS2 (components Cu, C, Fe, Ni, Sn, P)

Standard 7040 / 7041												
Diameter		Length I1										
d1	d3	15	23	30	37	47	60	lx				
10	20	~	~					2				
12	22		~	~				3				
15/16	28		~	~	~			3				
19/20	32		~	~	~			3				
24/25	40			~		~		4				
30/32	48				$\checkmark$	$\checkmark$		4				
40	58						$\checkmark$	4				

d1 = Guide diameter d3 = Installation diameter for diameter

- fit js4/H5(H6)
- 11 = Nominal length
- x = Chamfer f8 as installation aid



Guide bushings are available in various standard lengths in the diameter range d1=10 to d1=40  $\,$ 

See catalog for exact dimensions and preferred sizes

Larger sliding surface - less N/mm<sup>2</sup>



- More support area / less load N/mm<sup>2</sup>
- Less abrasion
- Less heat generation
- Higher precision over a longer time period
- Lower maintenance costs higher profit

#### Features

- For speeds up to 0.3 (dry) respectively 0.5m/s (lubricated)
- Agathon tolerances
- Steel jacket made of 1.0044 for increased bushing stiffness (also possible made of 1.1730)

#### Advantages

- Long lifespan in combination with Agathon pillars
- Low coefficient of friction, low heat generation
- Applicable in dry condition at temperatures up to 250°C (482°F) and lubricated: 150°C (302°F)
- Uniform load distribution over the entire contact surface (no graphite inserts)

#### Benefits

- Direct replacement for sintered bushings (Standard 702x)
- Reduction of maintenance costs through significant increase of lifespan
- Easy replacement

#### Applications

- Mold making: Main and ejector guides
- Punching tool: Locking, die sets, external pillars for very long strokes (transfer tools)
- Machine construction: Long strokes, high radial forces, combined movements



#### Physical and mechanical characteristics

Application			Mechanical characteristics						
Lubrication	Р	Sliding speed	PV value	Working temperature	Specific weight	Hard- ness	Elasticity	Elastic limit	Expansion coefficient
	$\left[\frac{N}{mm^2}\right]$	$\left[\frac{m}{s}\right]$	$\left[\frac{N}{mm^2} \star \frac{m}{s}\right]$	[°C]	$\left[\frac{g}{cm^3}\right]$	[HRB]	[%]	$\left[\frac{N}{mm^2}\right]$	$\left[x\frac{10^{-5}}{K}\right]$
dry	29	0.3	1.65	-40 to ~+250	( 2 71	~20	17	41	1~1.2
lubricated	50	0.5	2.47	-40 to ~+150	0.5~7.1				

Data based on steel jacket material 1.0044 (St 44-2), hardness approx. 170±15 HRB

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