



INDUSTRIAL SOLUTIONS



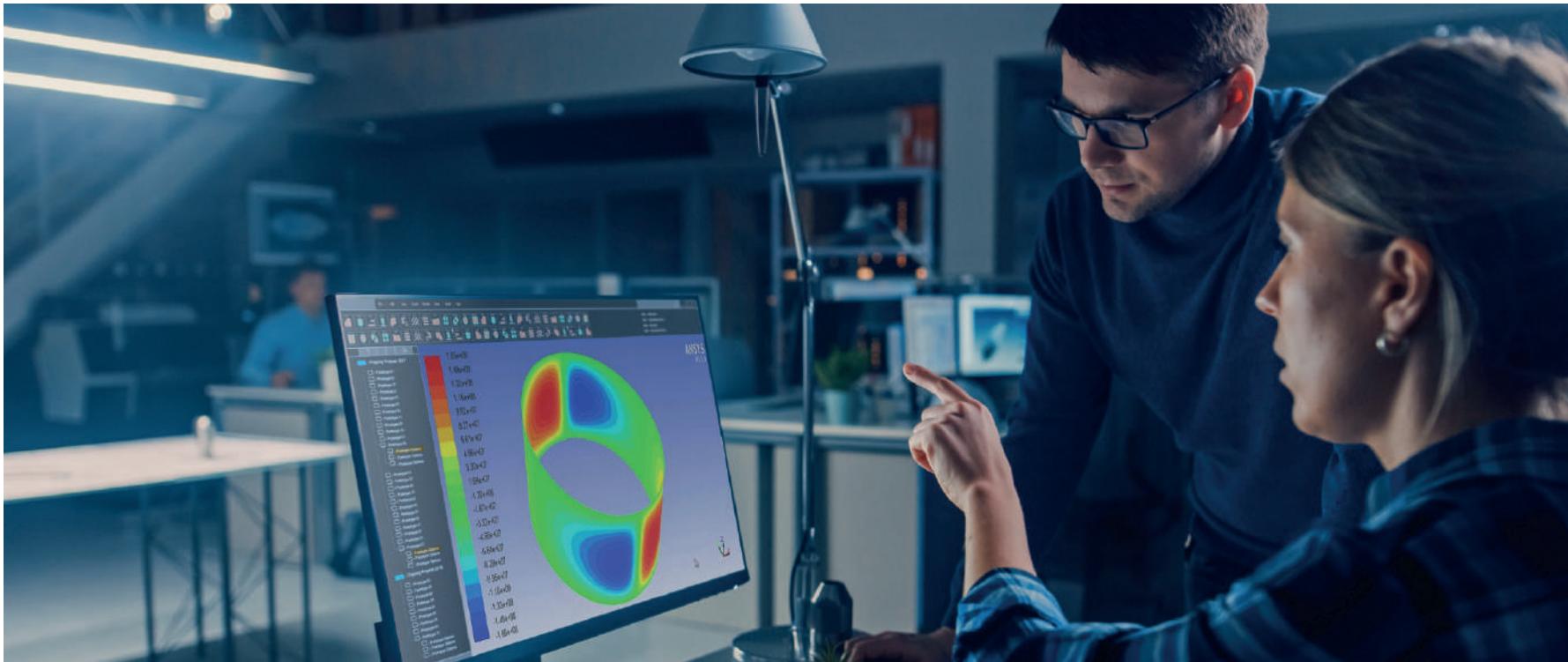
PLAIN SLIDING BEARINGS



Product name	MU Bearings	FRITEX bearings	FRITEX-CRA bearings	DRINOX bearings	HT bearings
Sliding layer	PTFE compound	PTFE impregnated fabric	Modified PTFE fabric	Modified PTFE coating	Surface treatment "Duritex ML"
Intermediate layer	Sintered bronze	Proprietary glue	Proprietary glue	-	-
Backing layer	Low carbon steel, AISI 316, F51, Inconel-625 and Bronze	Low carbon steel, AISI 316, F51, Inconel-625, Hastelloy 276 and Bronze	AISI 316, Inconel 625	AISI 316, F51, low carbon steel and Inconel-625	AISI 316, F51 and Inconel-625
Maximum load factor (dry)	Alternating load	0.9 N/mm ² ·m/s	1.0 N/mm ² ·m/s	-	0.7 N/mm ² ·m/s
	Continuous load	1.8 N/mm ² ·m/s	2.50 N/mm ² ·m/s	-	0.2 N/mm ² ·m/s
	Short-term limit	3.6 N/mm ² ·m/s	10 N/mm ² ·m/s	-	0.4 N/mm ² ·m/s
Load carrying capacity	Static	250 MPa	300 MPa	280 MPa	200 MPa
	Dynamic	180 MPa	180 MPa	130 MPa	100 MPa
Operating temperature	- 200 °C/+ 280 °C	- 100 °C/+ 140 °C	- 100 °C/+ 240 °C	- 200 °C/+ 280 °C	- 200 °C/+ 430 °C
Sliding speed (m/s)	2.5 (dry) / 10 (oil)	1.5	0.5	0.5	0.5
Friction coefficient (dry)	0.02 ÷ 0.20	0.03 ÷ 0.15	0.03 ÷ 0.15	0.03 ÷ 0.20	0.07 ÷ 0.13
Characteristics	<ul style="list-style-type: none"> • High load capacity • Dry self-lubrication • Low friction factor, either static and dynamic (no stick-slip effect) • Minimized wear and excellent service life • High chemical inertia and good compatibility with fluids • Wide range of working temperatures • Good thermal conductivity • Good electrical conductivity • Small overall dimensions • Easy mounting • Wide selection of standard items • Special items on demand 	<ul style="list-style-type: none"> • High load capacity • Dry self-lubrication • Low friction factor, static and dynamic • Minimized wear and excellent service life • High chemical inertia and good compatibility with fluids • Wide range of service temperature values • Minimized overall dimensions • Easy mounting • Standard items widely available • Special items on demand 	<ul style="list-style-type: none"> • High load capacity • Dry self-lubrication • Low friction factor, static and dynamic • Minimized wear and excellent service life • High chemical inertia and good compatibility with fluids • Wide range of service temperature values • Minimized overall dimensions • Easy mounting • Standard items widely available • Special items on demand 	<ul style="list-style-type: none"> • Good load capacity • Dry self-lubrication • Low coefficient of friction, static and dynamic • Low wear and long service life • High chemical resistance and good compatibility with fluids • Wide range of operating temperatures • High resistance to corrosion • Space saving • Ease of installation • Standard items widely available • Special items on demand 	<ul style="list-style-type: none"> • High load capacity • Dry self-lubrication • Low coefficient of friction, static and dynamic • Minimum wear and excellent service life • Ease of installation • High chemical inertness • Good compatibility with fluids • Standard items widely available • Special items on demand



Product name	MX bearings	Sintered bearings	BRM bearings	VJ bearings	HT SS bearings
Sliding layer	POM-C	Sintered steel or bronze	Bronze	WC treatment + coating treatment	Surface treatment "Duritex SS"
Intermediate layer	Sintered bronze	-	-	-	-
Backing layer	Low carbon steel	-	-	Inconel-625	AISI 316, F51 and Inconel-625
Maximum load factor (dry)	Alternating load	-	-	-	-
	Continuous load	2.8 N/mm ² ·m/s	-	1.5 N/mm ² ·m/s	1.5 N/mm ² ·m/s
	Short-term limit	-	-	-	-
Load carrying capacity	Static	140 MPa	40 MPa	150 MPa	200 MPa
	Dynamic	140 MPa	10 MPa	60 MPa	100 MPa
Operating temperature	- 40 °C/+ 130 °C	- 20 °C/+ 100 °C	-40 °C/+ 200 °C	- 200 °C/+ 430 °C	- 200 °C/+ 1000 °C
Sliding speed (m/s)	2.5	4.0	2.5	0.5	0.5
Friction coefficient (dry)	0.06 ÷ 0.12	0.08 ÷ 0.12	0.06 ÷ 0.17	0.07 ÷ 0.13	0.09 ÷ 0.14
Characteristics	<ul style="list-style-type: none"> • Good load capacity • High chemical inertness • Good compatibility with fluids • Standard items widely available • Special items on demand • Available with smooth sliding surface or with pockets according to lubrication requirement 	<ul style="list-style-type: none"> • Good load capacity • Wide range of operating temperature • Minimum overall dimensions • Standard items widely available • Special items on demand 	<ul style="list-style-type: none"> • High load capacity • High thermal conductivity • Wide range of working temperature • Easy installation and maintenance • Wide availability of standard bushings • Different pockets indentations available according to lubricating conditions • Possibility for special items 	<ul style="list-style-type: none"> • High load capacity at high temperature • Standard items widely available • Special items on demand 	<ul style="list-style-type: none"> • High load capacity • High chemical inertness • Good compatibility with fluids • Standard items widely available • Special items on demand



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