Catalogue ‘25

OIL & GAS

HIMON
BEARINGS

Products
descripion

1990
year of foundation

2000 - 2006
Continuous Growth and Global Expansion

2013
Fusion of Himon and other companies in the territory under the leadership of Technymon Technology Europe SpA

2017
Recapitalisation under the leadership of Global Bearing Technologies Srl

2020
Accelerated development

2023
New Production Plant

2025
Himon returns to the market as an independent company under the same ownership.

Himon

Himon, established in the 1990s in Bergamo, Lombardy, Italy, began as a family-owned business specializing in sliding bearings. With over 30 years of experience, the company has prioritized innovation and product development, gaining global recognition. Himon operates manufacturing facilities in Italy, India, and the US, and is known for its close collaboration with clients, which has fostered a deep understanding of industry needs. Their mission is to deliver advanced, customized solutions with a focus on quality, efficiency, and affordability. Himon aims to be a leader in high-tech sliding bearing solutions through continuous research and strategic partnerships.

Fritex®

Fritex®

The FRITEX® brand identifies a range of materials specifically designed to withstand high loads. Typically used in the Oil & Gas sector, this material is ideal for heavy-duty applications, resistant to chemical agents and capable of withstanding temperatures up to 240°C.

This material is available with various metallic supports and in different forms, such as cylindrical bushings, strips, washers, and more. FRITEX® products are also highly effective in other sectors, such as actuators and industrial machinery.

FRITEX®
FAMILY

		FRITEX®-S-C	FRITEX®-S-316	FRITEX®-S-F51
SLIDING LAYER		PTFE impregnated fabric	PTFE impregnated fabric	PTFE impregnated fabric
CONNECTING LAYER		Proprietary glue	Proprietary glue	Proprietary glue
BACKING LAYER		Low carbon steel	Stainless steel AISI 316L	Stainless steel duplex-F51
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free	Maintenance-free	Maintenance-free
		Dry lubrication	Dry lubrication	Dry lubrication
BORE ID CATALOG RANGE		10 to +1000mm	10 to +1000mm	10 to +1000mm
LOAD CARRYING CAPACITY	**Static**	300 MPa / 43500 psi	400 MPa / 58000 psi	400 MPa / 58000 psi
	Dynamic	180 MPa / 26100 psi	180 MPa / 26100 psi	180 MPa / 26100 psi
OPERATING TEMPERATURE	**°C**	-100 to +240	-100 to +240	-100 to +240
	°F	-140 to +464	-140 to +464	-140 to +464
SLIDING SPEED (M/S)		1.5	1.5	1.5
FRICTION COEFFICENT		0.03 to 0.15	0.03 to 0.15	0.03 to 0.15
BENEFITS		- High load capacity - Low friction factor, either static or dynamic - Minimized wear and excellent service life - Good chemical inertia and compatibility with fluids - Wide range of service temperature values - High corrosion strenght linked with the housing - Minimized overall dimensions - Easy mounting	- High load capacity - Low friction factor, either static or dynamic - Minimized wear and excellent service life - Good chemical inertia and compatibility with fluids - Wide range of service temperature values - High corrosion strenght linked with the housing - Minimized overall dimensions - Easy mounting	- High load capacity - Low friction factor, either static or dynamic - Minimized wear and excellent service life - Good chemical inertia and compatibility with fluids - Wide range of service temperature values - High corrosion strenght linked with the housing - Minimized overall dimensions - Easy mounting
BEARING DESIGN		- Bushings - Thrust wahers - Strandard items widely available - Special items on demand	- Bushings - Thrust wahers - Strandard items widely available - Special items on demand	- Bushings - Thrust wahers - Strandard items widely available - Special items on demand

FRITEX®
FAMILY

		FRITEX®-S-625	FRITEX®-S-T
SLIDING LAYER		PTFE impregnated fabric	PTFE impregnated fabric
CONNECTING LAYER		Proprietary glue	Proprietary glue
BACKING LAYER		Alloy-625	Titanium
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free	Maintenance-free
		Dry lubrication	Dry lubrication
BORE ID CATALOG RANGE		10 to +1000mm	10 to 1000 (cylindrical)
LOAD CARRYING CAPACITY	**Static**	400 MPa / 58000 psi	400 MPa / 58000 psi
	Dynamic	180 MPa / 26100 psi	180 MPa / 26100 psi
OPERATING TEMPERATURE	**°C**	-100 to +240	-100 to +240
	°F	-140 to +464	-140 to +464
SLIDING SPEED (M/S)		1.5	1.5
FRICTION COEFFICENT		0.03 to 0.15	0.03 to 0.15
BENEFITS		- High load capacity - Low friction factor, either static or dynamic - Minimized wear and excellent service life - Good chemical inertia and compatibility with fluids - Wide range of service temperature values - High corrosion strenght linked with the housing - Minimized overall dimensions - Easy mounting	- High load capacity - Low friction factor, either static or dynamic - Minimized wear and excellent service life - Good chemical inertia and compatibility with fluids - Wide range of service temperature values - High corrosion strenght linked with the housing - Minimized overall dimensions - Easy mounting
BEARING DESIGN		- Bushings - Thrust wahers - Standard items widely available - Special items on demand	- Bushings - Thrust wahers - Standard items widely available - Special items on demand

FRITEX® CRA-A **FAMILY**

		FRITEX®-316 CRA-A	FRITEX®-625 CRA-A
SLIDING LAYER		PTFE fabric with special fibers	PTFE fabric with special fibers
CONNECTING LAYER		Proprietary glue	Proprietary glue
BACKING LAYER		Stainless steel AISI 316L	Alloy-625
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free	Maintenance-free
		Dry lubrication	Dry lubrication
BORE ID CATALOG RANGE		10 to +1000mm	10 to +1000mm
LOAD CARRYING CAPACITY	**Static**	220 MPa / 31900 psi	220 MPa / 31900 psi
	Dynamic	95 MPa / 13780 psi	95 MPa / 13780 psi
OPERATING TEMPERATURE	**°C**	-100 to +130	-100 to +130
	°F	-140 to +266	-140 to +266
SLIDING SPEED (M/S)		0.5	0.5
FRICTION COEFFICENT		0.03 to 0.15	0.03 to 0.15
BENEFITS		- High load capacity - Low friction factor, either static or dynamic - Minimized wear and excellent service life - Good chemical inertia and compatibility with fluids - Wide range of service temperature values - High corrosion strenght linked with the housing - Minimized overall dimensions - Easy mounting	- High load capacity - Low friction factor, either static or dynamic - Minimized wear and excellent service life - Good chemical inertia and compatibility with fluids - Wide range of service temperature values - High corrosion strenght linked with the housing - Minimized overall dimensions - Easy mounting
BEARING DESIGN		- Bushings - Thrust wahers - Strandard items widely available - Special items on demand	- Bushings - Thrust wahers - Strandard items widely available - Special items on demand

FRITEX® CRA-B **FAMILY**

		FRITEX®-316 CRA-B	FRITEX®-625 CRA-B
SLIDING LAYER		PTFE fabric with special fibers	PTFE fabric with special fibers
CONNECTING LAYER		Proprietary glue	Proprietary glue
BACKING LAYER		Stainless steel AISI 316L	Alloy-625
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free	Maintenance-free
		Dry lubrication	Dry lubrication
BORE ID CATALOG RANGE		10 to +1000mm	10 to +1000mm
LOAD CARRYING CAPACITY	**Static**	280 MPa / 40610 psi	280 MPa / 40610 psi
	Dynamic	130 MPa / 18850 psi	130 MPa / 18850 psi
OPERATING TEMPERATURE	**°C**	-100 to +240	-100 to +240
	°F	-148 to +464	-148 to +464
SLIDING SPEED (M/S)		0.5	0.5
FRICTION COEFFICENT		0.03 to 0.15	0.03 to 0.15
BENEFITS		- High load capacity - Low friction factor, either static or dynamic - Minimized wear and excellent service life - Good chemical inertia and compatibility with fluids - Wide range of service temperature values - High corrosion strenght linked with the housing - Minimized overall dimensions - Easy mounting	- High load capacity - Low friction factor, either static or dynamic - Minimized wear and excellent service life - Good chemical inertia and compatibility with fluids - Wide range of service temperature values - High corrosion strenght linked with the housing - Minimized overall dimensions - Easy mounting
BEARING DESIGN		- Bushings - Thrust wahers - Strandard items widely available - Special items on demand	- Bushings - Thrust wahers - Strandard items widely available - Special items on demand

MU

MU

The MU brand represents the most classic type of bushing. Composed of a steel backing, sintered bronze, and PTFE, it is one of the best solutions in the Oil & Gas sector, offering good load capacity and resistance to chemical agents.

This material is fully customizable and available with various metallic supports and in different forms, such as cylindrical bushings, flanged bushings, washers, and more.

MU products are also highly effective in other sectors, such as actuators, automotive, and industrial machinery.

MU
FAMILY

		MU	MU-B	MU-316
SLIDING LAYER		Proprietary PTFE compound	Proprietary PTFE compound	Proprietary PTFE compound
CONNECTING LAYER		Sintered bronze	Sintered bronze	Sintered bronze
BACKING LAYER		Low carbon steel	Bronze	Stainless steel AISI 316
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free	Maintenance-free	Maintenance-free
		Dry lubrication / Oil lubrication	Dry lubrication / Oil lubrication	Dry lubrication / Oil lubrication
BORE ID CATALOG RANGE		- From 3 to 1000 mm (cylindrical) - From 6 to 45 mm (flanged)	- From 3 to 1000 mm (cylindrical) - From 6 to 45 mm (flanged)	- From 3 to 1000 mm (cylindrical)
LOAD CARRYING CAPACITY	**Static**	250 MPa / 36260 psi	250 MPa / 36260 psi	350 MPa / 50760 psi
	Dynamic	180 MPa / 26100 psi	180 MPa / 26100 psi	180 MPa / 26100 psi
OPERATING TEMPERATURE	**°C**	-200 to +280	-200 to +280	-200 to +280
	°F	-328 to +536	-328 to +536	-328 to +536
SLIDING SPEED (M/S)		2.5 (dry) / 10 (oil)	2.5 (dry) / 10 (oil)	2.5 (dry) / 10 (oil)
FRICTION COEFFICENT		0.02 to 0.20 (dry)	0.02 to 0.20 (dry)	0.02 to 0.20 (dry)
BENEFITS		- High load capacity - High wear resistance - Low coefficient of friction - Good corrosion inertia - Wide range of operating temperatures - Easy mounting	- High load capacity - High wear resistance - Low coefficient of friction - Good corrosion inertia - Wide range of operating temperatures - Easy mounting	- High load capacity - High wear resistance - Low coefficient of friction - Good corrosion inertia - Wide range of operating temperatures - Easy mounting
BEARING DESIGN		- Cylindrical - Flanged - Washers - Belts - Special parts available on request	- Cylindrical - Flanged - Washers - Belts - Special parts available on request	- Cylindrical - Flanged - Washers - Belts - Special parts available on request

MU
FAMILY

		MU-F51	MU-625
SLIDING LAYER		Proprietary PTFE compound	Proprietary PTFE compound
CONNECTING LAYER		Sintered bronze	Sintered bronze
BACKING LAYER		Stainless steel duplex-F51	Alloy-625
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free	Maintenance-free
		Dry lubrication / Oil lubrication	Dry lubrication / Oil lubrication
BORE ID CATALOG RANGE		- From 3 to 1000 mm (cylindrical)	- From 3 to 1000 mm (cylindrical)
LOAD CARRYING CAPACITY	**Static**	420 MPa / 60920 psi	420 MPa / 60920 psi
	Dynamic	180 MPa / 26100 psi	180 MPa / 26100 psi
OPERATING TEMPERATURE	**°C**	-200 to +280	-190 to +280
	°F	-328 to +536	-310 to +536
SLIDING SPEED (M/S)		2.5 (dry) / 10 (oil)	2.5 (dry) / 10 (oil)
FRICTION COEFFICENT		0.02 to 0.20 (dry)	0.02 to 0.20 (dry)
BENEFITS		- High load capacity - High wear resistance - Low coefficient of friction - Good corrosion inertia - Wide range of operating temperatures - Easy mounting	- High load capacity - High wear resistance - Low coefficient of friction - Good corrosion inertia - Wide range of operating temperatures - Easy mounting
BEARING DESIGN		- Cylindrical - Flanged - Washers - Belts - Special parts available on request	- Cylindrical - Flanged - Washers - Belts - Special parts available on request

Carbide

Carbide

The Carbide family identifies the latest series of materials to join our production range. Materials specifically designed to withstand high temperatures. Typically used in the Oil & Gas sector, this material is excellent for applications where temperatures peaks of up to 430°C can be reached.

This material is available with a variety of metal substrates and in various shapes such as cylindrical bushings, strips, washers and more.

CARBIDE **FAMILY**

		VJ-316	VJ-625	CL-316
SLIDING LAYER		Special sur face treatment “Duritex ML”	Special sur face treatment “Duritex ML”	Special sur face treatment “Duritex ML”
CONNTECTING LAYER		Tungsten Carbide	Tungsten Carbide	Crome Carbide
BACKING LAYER		Stainless steel AISI-316	Alloy 625	Stainless steel AISI-316
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free	Maintenance-free	Maintenance-free
		Dry lubrication	Dry lubrication	Dry lubrication
BORE ID CATALOG RANGE		10 to 1000 (cylindrical)	10 to 1000 (cylindrical)	10 to 1000 (cylindrical)
LOAD CARRYING CAPACITY	**Static**	200 MPa / 29000 psi	200 MPa / 29000 psi	200 MPa / 29000 psi
	Dynamic	100 MPa / 14500 psi	100 MPa / 14500 psi	100 MPa / 14500 psi
MAXIMUM LOAD FACTOR (DRY)	**Alternating**	0.7 N / mm2•m / s / 20000 psi-fpm	0.7 N / mm2•m / s / 20000 psi-fpm	0.7 N / mm2•m / s / 20000 psi-fpm
	Continuous	1.0 N / mm2•m / s / 29000 psi-fpm	1.0 N / mm2•m / s / 29000 psi-fpm	1.0 N / mm2•m / s / 29000 psi-fpm
	Short-term	1.5 N / mm2•m / s / 44000 psi-fpm	1.5 N / mm2•m / s / 44000 psi-fpm	1.5 N / mm2•m / s / 44000 psi-fpm
OPERATING TEMPERATURE	**°C**	-200 to +430	-200 to +430	-200 to +430
	°F	-328 to +806	-328 to +806	-328 to +806
SLIDING SPEED (M/S)		0.5	0.5	0.5
FRICTION COEFFICENT		0.07 to 0.13	0.07 to 0.13	0.07 to 0.13
BENEFITS		- High load capacity in Low temperature - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia - Wide range of service temperature	- High load capacity in Low temperature - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia - Wide range of service temperature	- High load capacity in Low temperature - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia - Wide range of service temperature
BEARING DESIGN		- Bushings - Thrust wahers - Standard items widely available - Special items on demand	- Bushings - Thrust wahers - Standard items widely available - Special items on demand	- Bushings - Thrust wahers - Standard items widely available - Special items on demand

CARBIDE **FAMILY**

		CL-625	HTS-625
SLIDING LAYER		Special sur face treatment “Duritex ML”	Special sur face treatment “Duritex ML”
CONNTECTING LAYER		Crome Carbide	Stellite® Gr.6
BACKING LAYER		Alloy 625	Alloy 625
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free	Maintenance-free
		Dry lubrication	Dry lubrication
BORE ID CATALOG RANGE		10 to 1000 (cylindrical)	10 to 1000 (cylindrical)
LOAD CARRYING CAPACITY	**Static**	200 MPa / 29000 psi	200 MPa / 29000 psi
	Dynamic	100 MPa / 14500 psi	100 MPa / 14500 psi
MAXIMUM LOAD FACTOR (DRY)	**Alternating**	0.7 N / mm2•m / s / 20000 psi-fpm	0.7 N / mm2•m / s / 20000 psi-fpm
	Continuous	1.0 N / mm2•m / s / 29000 psi-fpm	1.0 N / mm2•m / s / 29000 psi-fpm
	Short-term	1.5 N / mm2•m / s / 44000 psi-fpm	1.5 N / mm2•m / s / 44000 psi-fpm
OPERATING TEMPERATURE	**°C**	-200 to +430	-200 to +430
	°F	-328 to +806	-328 to +806
SLIDING SPEED (M/S)		0.5	0.5
FRICTION COEFFICENT		0.07 to 0.13	0.07 to 0.13
BENEFITS		- High load capacity in Low temperature - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia - Wide range of service temperature	- High load capacity in Low temperature - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia - Wide range of service temperature
BEARING DESIGN		- Bushings - Thrust wahers - Standard items widely available - Special items on demand	- Bushings - Thrust wahers - Standard items widely available - Special items on demand

HT

HT

The HT brand identifies a range of materials specifically designed to withstand high temperatures. Typically used in the Oil & Gas sector, this material is ideal for applications where temperature peaks can reach up to 430°C.

This material is available with various metallic supports and in different forms, such as cylindrical bushings, strips, washers, and more.

HT
FAMILY

		HT-316	HT-F51	HT-625
SLIDING LAYER		Special surface treatment “Duritex ML”	Special surface treatment “Duritex ML”	Special surface treatment “Duritex ML”
BACKING LAYER		Stainless steel AISI 316	Stainless steel duplex-F51	Iconel-625
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free	Maintenance-free	Maintenance-free
		Dry lubrication	Dry lubrication	Dry lubrication
BORE ID CATALOG RANGE		From 10 to 300 mm (cylindrical)	From 10 to 300 mm (cylindrical)	From 10 to 300 mm (cylindrical)
LOAD CARRYING CAPACITY	**Static**	200 MPa / 29000 psi	200 MPa / 29000 psi	200 MPa / 29000 psi
	Dynamic	100 MPa / 14500 psi	100 MPa / 14500 psi	100 MPa / 14500 psi
MAXIMUM LOAD FACTOR (DRY)	**Alternating**	0.7 N / mm^2•m / s / 20000 psi-fpm	0.7 N / mm^2•m / s / 20000 psi-fpm	0.7 N / mm^2•m / s / 20000 psi-fpm
	Continuous	1.0 N / mm^2•m / s / 29000 psi-fpm	1.0 N / mm^2•m / s / 29000 psi-fpm	1.0 N / mm^2•m / s / 29000 psi-fpm
	Short-term	1.5 N / mm^2•m / s / 44000 psi-fpm	1.5 N / mm^2•m / s / 44000 psi-fpm	1.5 N / mm^2•m / s / 44000 psi-fpm
OPERATING TEMPERATURE	**°C**	-200 to +430	-200 to +430	-200 to +430
	°F	-328 to +806	-328 to +806	-328 to +806
SLIDING SPEED (M/S)		0.5	0.5	0.5
FRICTION COEFFICENT		0.07 to 0.13	0.07 to 0.13	0.07 to 0.13
BENEFITS		- High load capacity in low temperature - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia - Wide range of service temperature	- High load capacity in low temperature - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia - Wide range of service temperature	- High load capacity in low temperature - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia - Wide range of service temperature
BEARING DESIGN		- Cylindrical - Thrust washers - Strips - Special items - Special items available on demand	- Cylindrical - Thrust washers - Strips - Special items - Special items available on demand	- Cylindrical - Thrust washers - Strips - Special items - Special items available on demand

HT
FAMILY

		HT-316 SS	HT-625 SS
SLIDING LAYER		Special surface treatment “Duritex SS”	Special surface treatment “Duritex SS”
BACKING LAYER		Stainless steel AISI 316	Alloy-625
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free	Maintenance-free
		Dry lubrication	Dry lubrication
BORE ID CATALOG RANGE		From 10 to 300 mm (cylindrical)	From 10 to 300 mm (cylindrical)
LOAD CARRYING CAPACITY	**Static**	200 MPa / 29000 psi	200 MPa / 29000 psi
	Dynamic	100 MPa / 14500 psi	100 MPa / 14500 psi
MAXIMUM LOAD FACTOR (DRY)	**Alternating**	-	-
	Continuous	1.0 N / mm^2•m / s / 29000 psi-fpm	1.0 N / mm^2•m / s / 29000 psi-fpm
	Short-term	-	-
OPERATING TEMPERATURE	**°C**	-190 to +1000	-190 to +1000
	°F	-310 to +1832	-310 to +1832
SLIDING SPEED (M/S)		0.5	0.5
FRICTION COEFFICENT		0.09 to 0.14	0.09 to 0.14
BENEFITS		- High load capacity in low temperature - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia - Wide range of service temperature	- High load capacity in low temperature - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia - Wide range of service temperature
BEARING DESIGN		- Cylindrical - Thrust washers - Strips - Special items - Special items available on demand	- Cylindrical - Thrust washers - Strips - Special items - Special items available on demand

BT

BT

The BT brand identifies a range of materials specifically designed to withstand high temperatures. Typically used in the Oil & Gas sector, this material is excellent for applications where temperatures peaks of up to 430°C can be reached.

This material is available with a variety of metal substrates and in various shapes such as cylindrical bushings, strips, washers and more.

BT
FAMILY

		BT-11	BT-316	BT-625
SLIDING LAYER		Sintered bronze + self-lubricating black layer	Sintered bronze + self-lubricating black layer	Sintered bronze + self-lubricating black layer
CONNTECTING LAYER		-	-	-
BACKING LAYER		Low carbon steel	Stainless steel AISI 316	Alloy-625
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Dry lubrication	Dry lubrication	Dry lubrication
MAXIMUM LOAD FACTOR (DRY)		1.5 N / mm^2•m / S / 41550 psi-fpm	1.5 N / mm^2•m / S / 41550 psi-fpm	1.5 N / mm^2•m / S / 41550 psi-fpm
LOAD CARRYING CAPACITY	**Static**	300 MPa / 43500 psi	310 MPa / 45000 psi	300 MPa / 43500 psi
	Dynamic	150 MPa / 21760 psi	150 MPa / 21760 psi	150 MPa / 21760 psi
OPERATING TEMPERATURE	**°C**	-180 to +430	-180 to +430	-180 to +430
	°F	-292 to +806	-292 to +806	-292 to +806
SLIDING SPEED (M/S)		0.5	0.5	0.5
VOLUMETRIC RESISTANCE (FREE-STATE CONDITION)*		> 10^9 Ω	> 10^9 Ω	> 10^9 Ω
FRICTION COEFFICENT		0.075 to 0.130	0.075 to 0.130	0.075 to 0.130
BENEFITS		- Easy installation and maintenance - High load capacity - Very compact dimensions - High termal conductibility - Wide rance of working temperature - Wide availability of standard bushings - Surface pockets can accumulate and release lubricant in oil/grease lubrication - Fair corrosion resistance	- Easy installation and maintenance - High load capacity - Very compact dimensions - High termal conductibility - Wide rance of working temperature - Wide availability of standard bushings - High corrosion resistance	- Easy installation and maintenance - High load capacity - Very compact dimensions - High termal conductibility - Wide rance of working temperature - Wide availability of standard bushings - High corrosion resistance
BEARING DESIGN		- Cylindrical - Flanged - Thrust washers - Strips - Special items available on demand - Available in std and special surface pattern	- Cylindrical - Flanged - Thrust washers - Strips - Special items available on demand	- Cylindrical - Flanged - Thrust washers - Strips - Special items available on demand

Drinox

Drinox

The DRINOX brand identifies a historical product range. Designed for all those non-heavy-duty or high-temperature applications where bronze is not allowed. Material with good resistance to loads and chemicals. DRINOX products find their application in a variety of sectors.

DRINOX **FAMILY**

		FE+PTFE	DRINOX
SLIDING LAYER		PTFE layer	PTFE layer
BACKING LAYER		Low carbon steel	Stainless steel AISI 316
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free Dry lubrication	Maintenance-free Dry lubrication
BORE ID CATALOG RANGE		from 3 to 400 mm (cylindrical)	from 3 to 400 mm (cylindrical)
LOAD CARRYING CAPACITY	**Static**	100 MPa / 14500 psi	300 MPa / 43500 psi
	Dynamic	4 MPa / 580 psi	10 MPa / 1450 psi
MAXIMUM LOAD FACTORY (DRY)	**Alternating**	0.1 N / mm^2•m / s / 3000 psi-fpm	0.1 N / mm^2•m / s / 3000 psi-fpm
	Continuous	0.2 N / mm^2•m / s / 6000 psi-fpm	0.2 N / mm^2•m / s / 6000 psi-fpm
	Short-term	0.4 N / mm^2•m / s / 12000 psi-fpm	0.4 N / mm^2•m / s / 12000 psi-fpm
OPERATING TEMPERATURE	**°C**	-50 to +260	-200 to +280
	°F	-58 to +500	-328 to +536
SLIDING SPEED (M/S)		0.5 (dry)	0.5 (dry) / 1.0 (hydrodynamic state)
FRICTION COEFFICENT		< 0.10	0.03 to 0.20
BENEFITS		- Good load capacity - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - Small overall dimensions - Wide range of service temperature - Fair resistance to corrosion	- Good load capacity - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia and good compatibility with fluids - Small overall dimensions - High resistance to corrosion - Wide range of service temperature
BEARING DESIGN		- Cylindrical - Thrust washers - Strips - Special items available on demand	- Cylindrical - Thrust washers - Strips - Special items available on demand

DRINOX **FAMILY**

		F51+PTFE	ALLOY-625 +PTFE
SLIDING LAYER		PTFE layer	PTFE layer
BACKING LAYER		Stainless steel duplex-F51	Alloy-625
MOTION		Oscillating / rotating / linear	Oscillating / rotating / linear
MAINTENANCE		Maintenance-free Dry lubrication	Maintenance-free Dry lubrication
BORE ID CATALOG RANGE		from 3 to 400 mm (cylindrical)	from 3 to 400 mm (cylindrical)
LOAD CARRYING CAPACITY	**Static**	300 MPa / 43500 psi	300 MPa / 43500 psi
	Dynamic	10 MPa / 1450 psi	10 MPa / 1450 psi
MAXIMUM LOAD FACTORY (DRY)	**Alternating**	0.1 N / mm^2•m / s / 3000 psi-fpm	0.1 N / mm^2•m / s / 3000 psi-fpm
	Continuous	0.2 N / mm^2•m / s / 6000 psi-fpm	0.2 N / mm^2•m / s / 6000 psi-fpm
	Short-term	0.4 N / mm^2•m / s / 12000 psi-fpm	0.4 N / mm^2•m / s / 12000 psi-fpm
OPERATING TEMPERATURE	**°C**	-200 to +280	-200 to +280
	°F	-280 to +536	-328 to +536
SLIDING SPEED (M/S)		0.5 (dry)	0.5 (dry)
FRICTION COEFFICENT		0.03 to 0.20	0.03 to 0.20
BENEFITS		- Good load capacity - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia and good compatibility with fluids - Small overall dimensions - High resistance to corrosion - wide range of service temperature	- Good load capacity - Self lubricating - Low static and dynamic friction factor - Minimum wear and excellent life services - Easy to mount - High chemical inertia and good compatibility with fluids - Small overall dimensions - High resistance to corrosion - Wide range of service temperature
BEARING DESIGN		- Cylindrical - Thrust washers - Strips - Special items available on demand	- Cylindrical - Thrust washers - Strips - Special items available on demand

PTFE

PTFE

All the PTFE-category products shown here are made from highly advanced materials.

Thanks to a wide range of grades and chemical formulations, we can meet diverse application requirements.

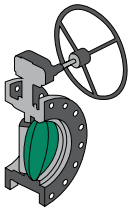
PTFE products are used in numerous sectors, including Oil & Gas, food & beverage, mechanical engineering, and more.

PTFE
FAMILY

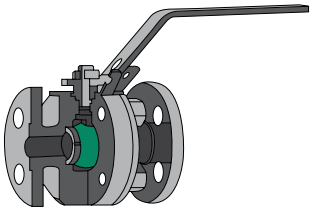
	PTFE	PTFE+25% GLASS FILLED
MATERIAL	PTFE Vergine	PTFE + 25% Glass Fiber
MAINTENENCE	Maintenence free	Maintenence free
DENSITY	2,14 – 2,18 g/cm³	2,20 – 2,26 g/cm³
HARDNESS - SHORE D	≥ 51	≥ 58
TENSILE STRENGTH - CD	≥ 24	≥ 17
DINAMIC COEFFICIENT OF FRICTION	0,06	0,15 - 0.30
SERVICE TEMPERATURE	°C -200 / +260	°C -200 / +260

	PTFE+25% CARBON GRAPHITE	PTFE+PEEK
MATERIAL	PTFE + 25%Carbographite	PEEK
MAINTENENCE	Maintenence free	Maintenence free
DENSITY	2,04 – 2,10 g/cm³	2,14 – 2,18 g/cm³
HARDNESS - SHORE D	≥ 64	90
TENSILE STRENGTH - CD	≥ 12	(at yeld) 91 MPa
SERVICE TEMPERATURE	°C -200 / +260	°C -40 / +260

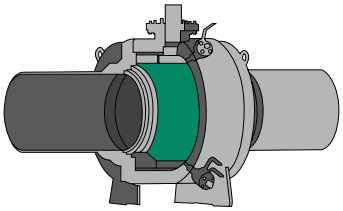
Main application for valves



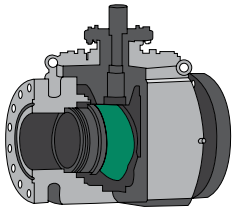
1. Butterfly Valve



2. Floating valve



3. Fully Welded



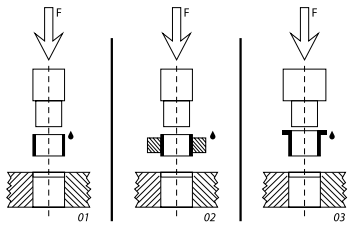
4. Trunnion side entry

Fitting Methods

The bearing fitting method varies according to the application, quantities and equipment available. The most common method includes the use of hydraulic or pneumatic press. After making the suitable seat for the bearing to fit, the following actions are required:

- Machine to 20° (±5°) the seat lead-in to reach 1–2 mm (0.039–0.078 inches) in depth.
- Trim and clean the seat surface.
- Lubricate the external surface of the bearing before fitting it in place.
- Check the center lines between the bearing and the seat for proper alignment.
- When two bearings are needed for insertion into the same seat, the related junctions need to be aligned.
- It is advisable to use a guide mandrel to fit the bearings into their seats properly. (Fig. 01)
- For bearings whose diameter exceeds 55 mm (2.165 inches), it is advisable to perform the fitting using a supporting ring whose diameter is increased by 0.25–0.40 mm (0.011–0.015 inches) in value. (Fig. 02)
- As far as flanged bearings are concerned, (Fig. 03) the seat lead-in shall be 45° and the minimum depth shall be equal to 2 mm (0.078 inches); 2.5 mm (0.098 inches) for bearings with wall thickness equalling 2.5 mm (0.098 inches).

Approximate Values of The Fittine Force “F” (Newton)	
Rated Thickness of Bearings Wall 1.0 mm	F = 300 • H
Rated Thickness of Bearings Wall 1.5 mm	F = 500 • H
Rated Thickness of Bearings Wall 2.0 mm	F = 700 • H
Rated Thickness of Bearings Wall 2.5 mm	F = 900 • H



Data sheet

For any product inquiries or special requests, please complete the form on the adjacent page and submit it to your designated dealer. If you have any questions or need additional assistance, feel free to contact our technical support team.

Customer:	Date:	Contact:	Project No:	Quantity:

Application:	

☐	New Project

☐	Existing Project

Dimensions [mm]	
Inside Diameter:	
Outside Diameter:	
Length:	
Flange Diameter:	
Wall Thickness:	
Length of Strip:	
Width of Strip:	
Thickness of Strip:	

Load		
☐ Radial Load	Static (N)	
	Dinamic (N)	
☐ Axial Load	Static (N)	
	Dinamic (N)	
☐ Specific Load	Static (N)	
	Dinamic (N)	
Note:		

Type of Load	
One direction	☐
Rotational Movements	☐
Rotating Load	☐
Steady Load	☐
Linear Movement	☐
Oscillating Movements	☐
Intermittent	☐

Design	
Cylindrical Bearing	☐
Flanged Bearing	☐
Washer	☐
Strip	☐
Special Parts	☐
Note:	

Motion	
Rotational Speed (l/min)	
Speed (ms)	
Stroke (mm)	
Oscillating (°)	
Oscillating Freq. (l/min)	
Linear Frequency (min)	
Average Temp. (°C)	
Maximum Temp. (°C)	
Duration at Max. Temp.	
Cooling	

Lubrication	
Dry	☐
Lubricating	☐
Initial Lubricating Only	☐
Hydrodinamic Conditions	☐
Chemical Neutral	☐
Chemical Aggressive	☐
Other	☐
Note:	

Operations	
Operations	
Continuous Operation	
Intermittent Operation	
Days per Years	
Required Service Life (h)	

Mating Surface	
Shaft material	
Shaft Hardness	
Shaft Finish	
Shaft Tollerance	
Housing Material	
Housing Tollerance	

Additional Information:

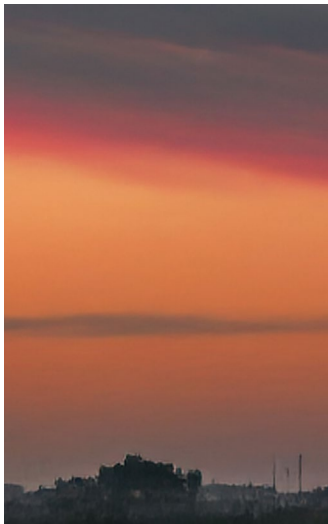
Applications

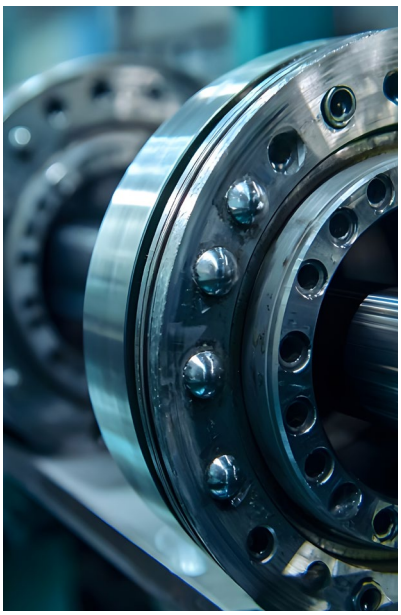
Oil & Gas

Oil & Gas operations demand components that can reliably perform under extreme pressures, temperatures, and corrosive environments. Himon's specialized sliding bearings are engineered to excel in these harsh conditions, ensuring minimal friction, reduced wear, and extended service life. From drilling rigs to refining processes, our bearings deliver proven performance and safety in critical applications across the entire Oil & Gas value chain.

Other Industries

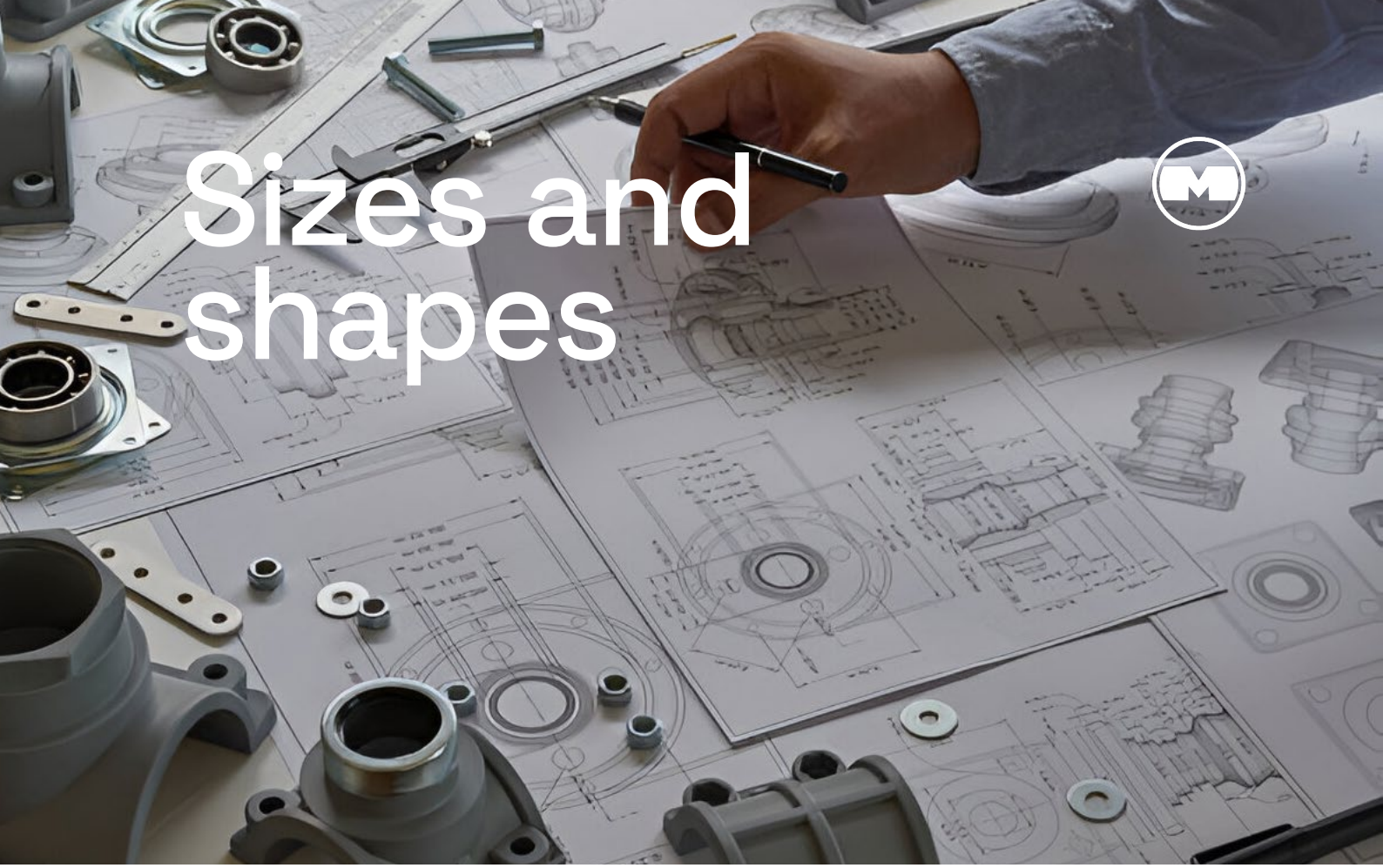
Beyond Oil & Gas, Himon bearings are successfully employed in a wide variety of sectors including industrial special vehicles, marine, agriculture, lifters, cranes, medical device and renewable energy. Our broad portfolio of bearing materials and solutions can be tailored to meet the specific demands of each application, offering exceptional reliability, efficiency, and compliance with global environmental standards.





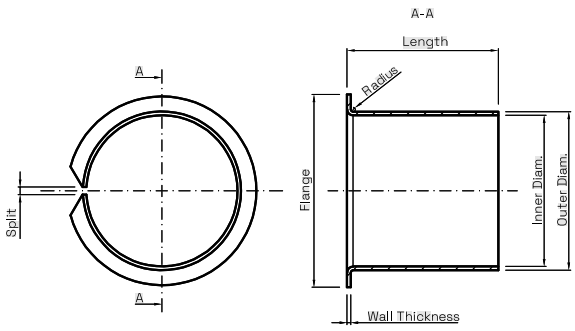
Supporting Innovation and Sustainable Mobility

Movement has always been a catalyst for humanprogress, shaping societies, cultures, and economies.
Sliding bearings play a key role in enabling low-friction mechanical movement, reducing wear and energy loss.
Since introducing its first plain bearing in the 90's, Himon has continually advanced bearing technology adhering to ROHS and ELV directives and remains dedicated to developing cost-effective, high-performance solutions for a more sustainable future.



Sizes and shapes

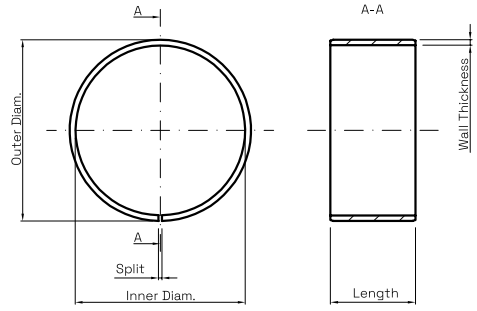
Flanged Bearings



Production in accordance with ISO 3547 or Customer drawings.

Flanged Bearings		
FRITEX® Family	X	not available
MU Family	V	ask for info
CARBIDE Family	X	not available
HT Family	V	ask for info
BT Family	X	not available
DRINOX Family	V	ask for info
PTFE Family	V	ask for info
Other		

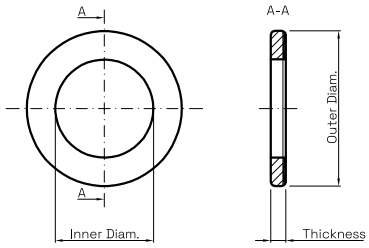
Cylindrical Bearings



Production in accordance with ISO 3547 or Customer drawings.

Cylindrical Bearings		
FRITEX® Family	V	ask for info
MU Family	V	ask for info
CARBIDE Family	V	ask for info
HT Family	V	ask for info
BT Family	V	ask for info
DRINOX Family	V	ask for info
PTFE Family	V	ask for info
Other		
Available up to +Ø1000mm		

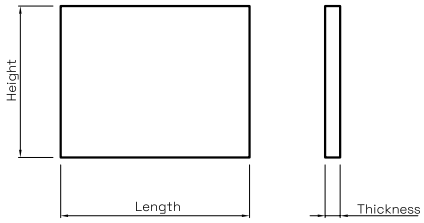
Washer



Production in accordance with ISO 3547 or Customer drawings.

Washers		
FRITEX® Family	V	ask for info
MU Family	V	ask for info
CARBIDE Family	V	ask for info
HT Family	V	ask for info
BT Family	V	ask for info
DRINOX Family	V	ask for info
PTFE Family	V	ask for info
Other		

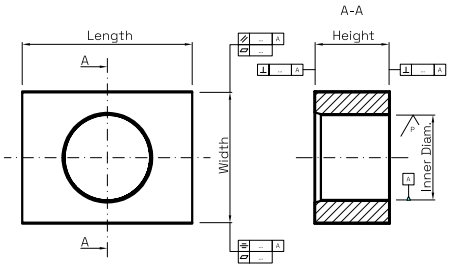
Strips



Production in accordance with customer drawings.

Strips		
FRITEX® Family	V	ask for info
MU Family	V	ask for info
CARBIDE Family	V	ask for info
HT Family	V	ask for info
BT Family	V	ask for info
DRINOX Family	V	ask for info
PTFE Family	V	ask for info
Other		

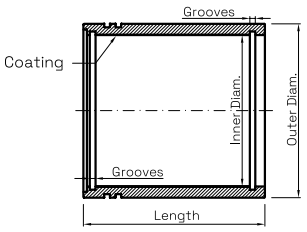
Sliding Blocks



Production in accordance with Customer drawings.

Sliding Blocks		
FRITEX® Family	V	ask for info
MU Family	X	not available
CARBIDE Family	X	not available
HT Family	X	not available
BT Family	X	not available
DRINOX Family	X	not available
PTFE Family	X	not available
Other	Full Bronze	

Special / Machined Parts



Production in accordance with Customer drawings.

Special Parts		
FRITEX® Family	V	ask for info
MU Family	X	not available
CARBIDE Family	X	not available
HT Family	V	ask for info
BT Family	X	not available
DRINOX Family	V	ask for info
PTFE Family	V	ask for info
Other	Full Bronze	

HIMON
BEARINGS

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