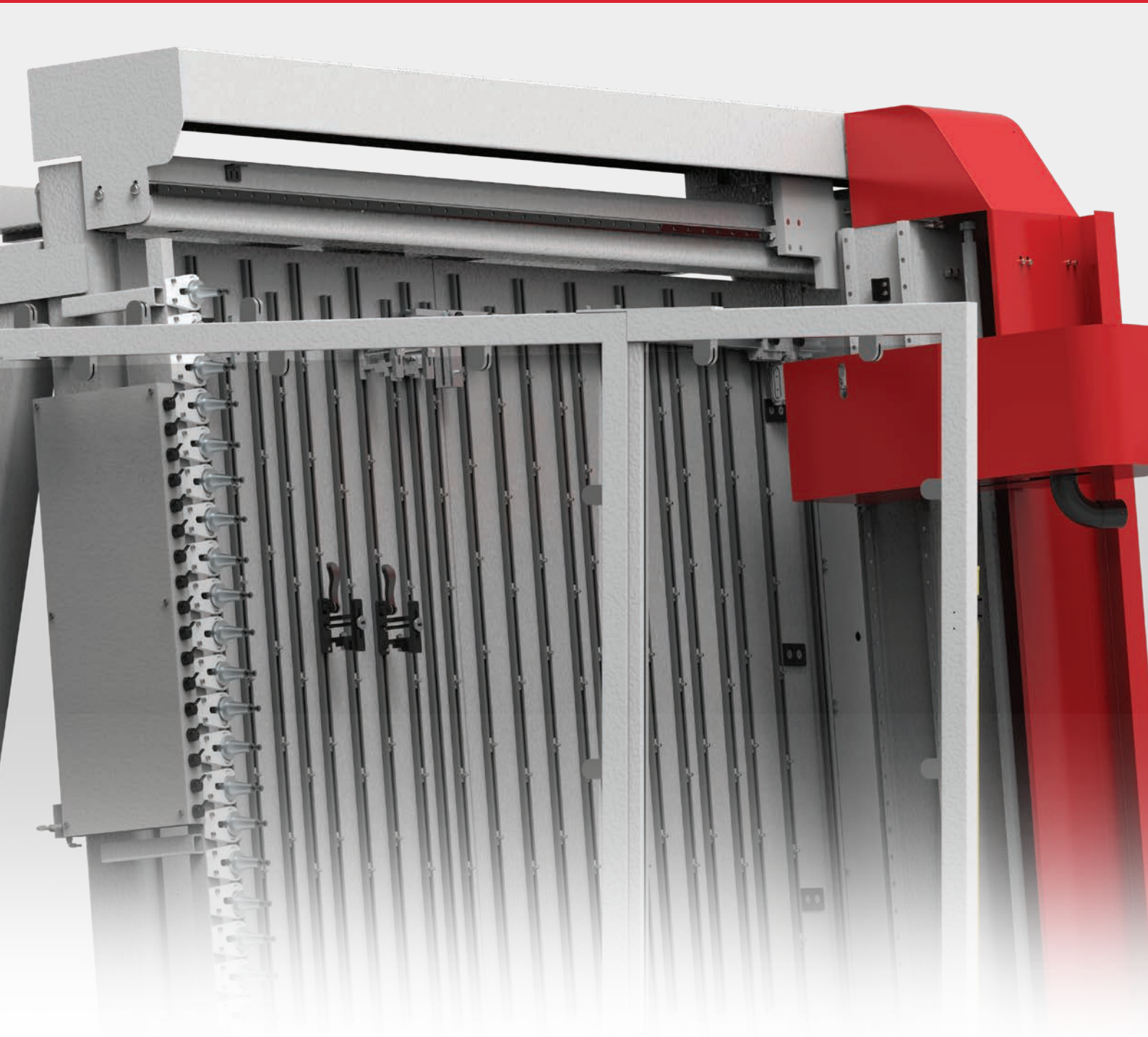
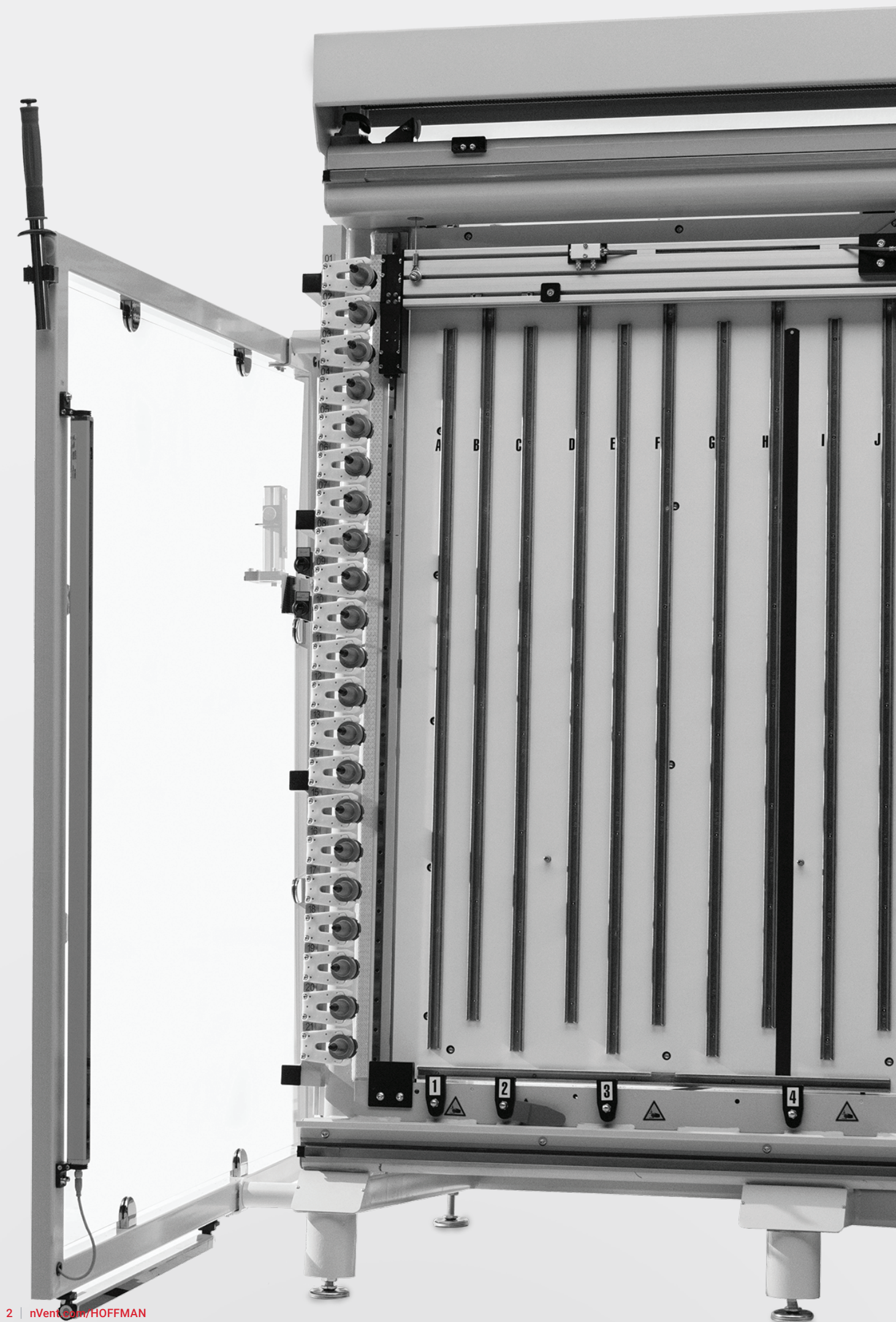


Replacement and Spare Parts Catalog for PSA solutions





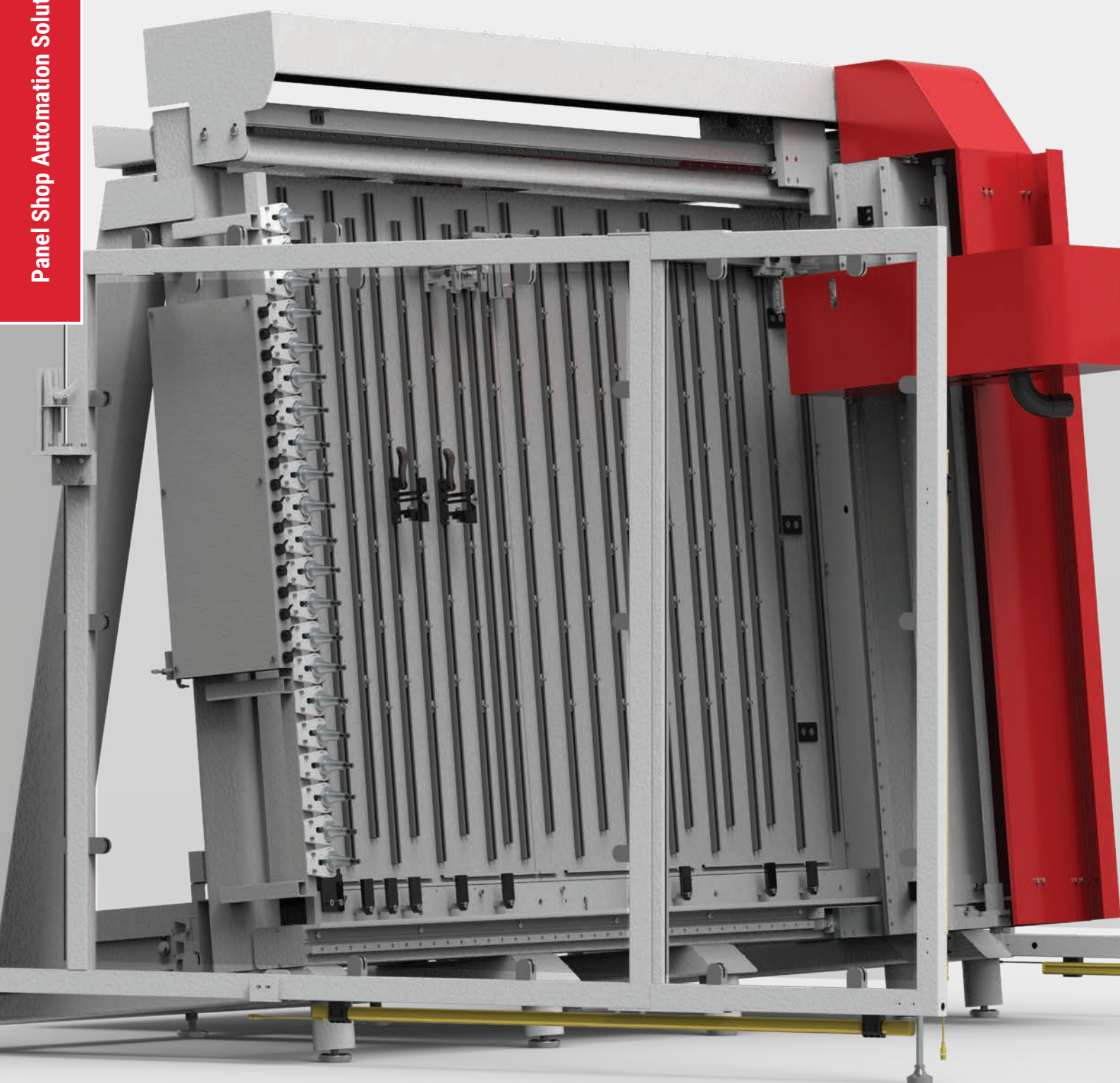
Panel Shop Automation

Consumables and Spare Parts

Listing the nVent HOFFMAN comprehensive range of consumables (also called “replacement” or spare parts), the catalogue is designed to help you easily identify the items you need.

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Panel Shop Automation Enclosure Modification Centers

The Automated Edge For Control Panel Builders

Get the most versatile automated modification solution on the market today with state-of-the-art design and controls.

Why automate mods?

Eliminate time-consuming & costly manual mod methods



Slash production costs and lead times:

- Compete better on bids and offer faster turn times
- Perform mods in-house, on your schedule

INCREASE PRODUCTIVITY



Automate a traditionally labor-intensive process

- Marking and taping is time not getting more projects done
- Reduce costs from time saved
- Improve safety of workforce

IMPROVE QUALITY



Precise holes and cutouts that even a skilled hand can't match

- Produce professional, repeatable holes and cutouts
- No more slightly misaligned pushbuttons
- No deburring needed

INCREASE FLEXIBILITY



Tool magazine holds up to 21 automated tools

- Perform all necessary drilling, milling, tapping, circular milling and engraving
- Process materials including mild steel, stainless steel, non-metallic, aluminum, copper and more

Why choose the ModCenter?

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Enclosure modification centers

EASY TO USE

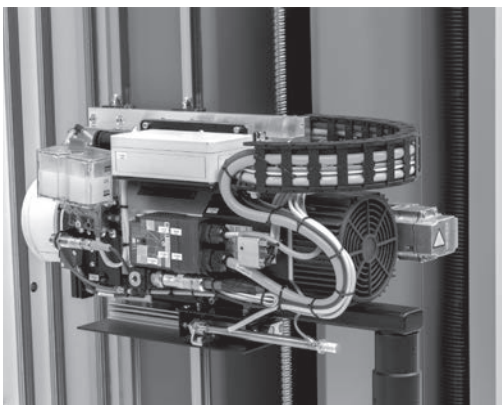


DXF or DWG-based software allows for easy drawing import or drag-and-drop drawing creation.



State-of-the-art controls from Beckhoff® or Siemens®.

BEST-IN-CLASS CUTTING SPEEDS



High frequency spindle drive enables precise and fast material processing.



Minimal lubrication system extends tool life without creating a mess.



80% labor reductions
vs. traditional machining

01

Enclosure modification centers



CUT-OUTS

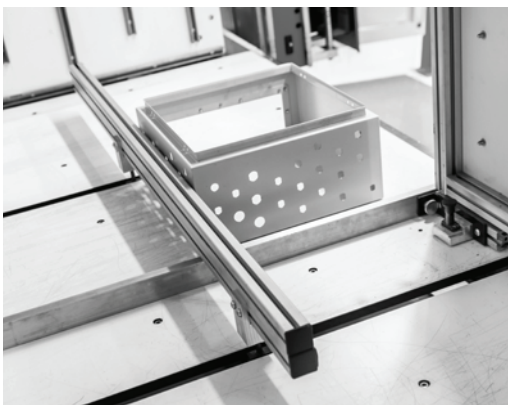


HOLES



THREADING

REPEATED PRECISION



Ball screw spindles deliver precise holes and cutouts, as well as for low vibration, high tool life and a long service life.

LARGEST SIZE HANDLING CAPABILITY



One and two-door models accommodate broadest range of enclosure dimensions.

Four ModCenter sizes to choose from with interior clearance for enclosure handling up to 93 in x 86 in. Actual savings are dependent on a variety of factors. Shown above is a good faith estimate, based upon 12 standard enclosures per month.



Enclosure modification centers

ModCenter

The ModCenter increases your productivity by automating and optimizing cut-outs, drill-holes and threaded holes in enclosures. The fixation system of the ModCenter allows for placement of one or multiple enclosures, panels and mounting plates in multiple kind of materials. Compatible with Siemens(MODCxxxS) and Beckhoff(MODCxxxB) control systems, the ModCenter is available in four versions depending on the size of the machinable surfaces.

Nr. of doors	Machinable enclosures, all sides		Machinable panels and mounting plates		Machine footprint		Item No.
	H (mm)	W (mm)	H (mm)	W (mm)	W (mm)	D (mm)	
1	Up to 1600	Up to 1250	Up to 1650	Up to 2400	3524	4500	MODC163B
1	Up to 1600	Up to 1250	Up to 1650	Up to 2400	3524	4500	MODC163S
2	Up to 1600	Up to 2200	Up to 1600	Up to 2400	3524	4500	MODC263B
2	Up to 1600	Up to 2200	Up to 1600	Up to 2400	3524	4500	MODC263S
2	Up to 2060	Up to 2200	Up to 2020	Up to 2400	4128	4500	MODC280B
2	Up to 2060	Up to 2200	Up to 2020	Up to 2400	4128	4500	MODC280S
2	Up to 2380	Up to 2200	Up to 2340	Up to 2400	4128	4500	MODC293B
2	Up to 2380	Up to 2200	Up to 2340	Up to 2400	4128	4500	MODC293S

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Enclosure modification centers

Enclosure modification centers

Consumables

Thread Forming Taps

Description: Thread Forming Tap, DIN 371 RN.

Pack quantity: 3 pcs.

Description	Part No.
M3 Thread Forming Tap	NT-WZ-000019
M4 Thread Forming Tap	NT-WZ-000020
M5 Thread Forming Tap	NT-WZ-000021
M6 Thread Forming Tap	NT-WZ-000022
M8 Thread Forming Tap	NT-WZ-000023
M10 Thread Forming Tap	NT-WZ-000017



Thread cutting Taps

Description: Thread Cutting Tap, UNC HSSE, Form B, DIN 336 ISO 5864.

Pack quantity: 3 pcs.

Description	Part No.
8-32 Thread Cutting Tap	NT-WZ-001116
10-32 Thread Cutting Tap	NT-WZ-001117
1/4-20 Thread Cutting Tap	NT-WZ-001118
12-24 Thread Cutting Tap	NT-WZ-150963
4-40 Thread Cutting Tap	NT-WZ-150014
6-32 Thread Cutting Tap	NT-WZ-003456
10-24 Thread Cutting Tap	NT-WZ-001120



Enclosure modification centers

Consumables

Drill bits

Description: Twist drill bit DIN 1897, 112320 TiN.

Description	Pack Quantity	Part No.
Twist drill 2.3 mm, Typ N	5	NT-WZ-001127
Twist drill 2.8 mm, Typ N	5	NT-WZ-000060
Twist drill 3.2 mm, Typ N	5	NT-WZ-001129
Twist drill 3.5 mm, VA	5	NT-WZ-001121
Twist drill 3.7 mm, Typ N	5	NT-WZ-000062
Twist drill 3.9 mm, VA	5	NT-WZ-001125
Twist drill 4.1 mm, VA	5	NT-WZ-001122
Twist drill 4.2 mm, Typ N	5	NT-WZ-000064
Twist drill 4.5 mm, Typ N	5	NT-WZ-000065
Twist drill 4.6 mm, Typ N	5	NT-WZ-001133
Twist drill 5.2 mm, Typ N	5	NT-WZ-001123
Twist drill 5.5 mm, Typ N	5	NT-WZ-000067
Twist drill 6.1 mm, Typ N	5	NT-WZ-001137
Twist drill 7.4 mm, Typ N	3	NT-WZ-000069
Twist drill 8.2 mm, Typ N	3	NT-WZ-152384
Twist drill 9.3 mm, Typ N	3	NT-WZ-000075
Twist drill 10.5 mm, Typ N	3	NT-WZ-001154
Twist drill 11.2 mm, Typ N	3	NT-WZ-000158
Twist drill 12.5 mm, Typ N	3	NT-WZ-001084



Milling cutters

Description: Milling cutter designed for each work material differentiate machining quality and accuracy.

Description	Pack Quantity	Part No.
6 mm End Mill for aluminum/copper/plastic	2	NT-WZ-000041
6 mm End Mill VHM, Stainless Steel/INOX	3	NT-01-152933
Milling cutter (F4) DIN 844HR TiAN, Gr.4, Horex	3	NT-WZ-000028
Milling cutter (F6) DIN 844HR TiAN, Gr.6, Horex	3	NT-WZ-000043
Milling cutter (F8) DIN 844HR TiAN, Gr.8, Horex	3	NT-WZ-001113
6 mm High Speed End Mill for stainless steel	3	NT-WZ-151564



Enclosure modification centers

Consumables

Distance pins

Description	Pack Quantity	Part No.
Lower plastic distance pin 33 mm, white	5	NT-01-000643
Upper plastic distance pin 55 mm, white	24	NT-01-000644
Lower plastic distance pin 62 mm, white	5	NT-01-002094
Upper plastic distance pin, 83 mm, white	24	NT-01-002052
Adjustable lower PEG	4	BG-01-151565



Lubricants | Cooling Lubricant

Description: Water-soluble cooling lubricant, Mobilcut 140 BF, 1 l.

Pack quantity: 1 bottle.

Part No.
BG-01-152409



Lubricants | Low-viscosity grease

Description: Microlube GB 00, low-viscosity gears, 1 kg.

Pack quantity: 1 piece.

Part No.
NT-01-000733



Enclosure modification centers

Spare parts

Collets

Description: Collet ER32, DIN 6499.

Pack quantity: 1 piece.

Spare part	Description
NT-WZ-000082	Collet ER32, Ø 2-1
NT-WZ-000039	Collet ER32, Ø 3-2
NT-WZ-000033	Collet ER32, Ø 4-3
NT-WZ-000032	Collet ER32, Ø 5-4
NT-WZ-000029	Collet ER32, Ø 6-5
NT-WZ-000034	Collet ER32, Ø 7-6
NT-WZ-000035	Collet ER32, Ø 8-7
NT-WZ-000030	Collet ER32, Ø 9-8
NT-WZ-000031	Collet ER32, Ø 10-9
NT-WZ-000059	Collet ER32, Ø 12-11
NT-WZ-000036	Collet ER32, Ø 20-19



Tools

Spare part	Pack Quantity	Description
BG-01-150740	1	Clamping plate, rubberized
BG-01-000137	1	Clamping plate, rubberized
BG-01-152638	1	Upper work piece clamping device
BG-01-000218	1	Upper work piece clamping device (incl. flat tensioning lever)
BG-01-000219	1	Lower work piece clamping device, pneumatic, machine's year of manufacture <Dec 2015
BG-01-013452	1	Lower work piece clamping device pneumatic, machine's year of manufacture >Jan 2016
BG-01-000142	1	Zero point
BG-01-013445	1	Additional zero point, RAL 9011



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Enclosure modification centers

Enclosure modification centers

Spare parts

Tools

Spare part	Pack Quantity	Description
NT-01-002686	1	HSD Collet chuck for ER collets including internal pull-stud
NT-01-000606	1	SR0012F14 1 Tooth indexable thread milling holder
NT-01-000829	1	Circular saw blade for NPT thread
NT-01-000605	1	Circular saw blade for metrical threads, ISO MT7
NT-01-002124	1	Clamping nut for collet chuck
BG-01-000147	1	Tool expansion kit (1 x tool bracket; 1 x SK-30 collet chuck incl. internal pull-stud; 1 x ER32 collet; 1 x tool of choice; software extension)
NT-01-000403	1	Internal pull stud for 5,5 kW HSD/Umbra, ISO 30
NT-01-002078	1	Internal pull stud DIN69872B M12 for 7.5 kW UMBRA engine
NT-01-000737	1	ER32 hook wrench
NT-01-000840	1	Magnetic handbroom
NT-01-000358	1	Hand lever grease gun model 75/PKU TWIN-LOCK
NT-01-000357	1	High-pressure grease press DIN 1282 B, 30/NS
BG-01-151335	2	Lifting eye adapters
BG-01-000053	1	WorkCenter lower piece clamp



Enclosure modification centers

Spare parts

Pneumatic components

Spare part	Pack Quantity	Description
NT-01-000031	1	Plastic tube PUN-4X0,75-BL, 50 m
NT-01-000177	1	Plastic tube 6x1-blue, 50 m
NT-01-150544	1	PUN-4x0,75-S-0,5-BL spiral-plastic tube
NT-01-000430	5	Coupling socket KD2-CK-4
NT-01-000719	5	Quick Connect for suction cup/anti-vib system 1/8 in
NT-01-000429	5	Coupling plug KS2-CK-4
NT-01-000757	5	Quick connect, general use, 3 mm
BG-01-152668	8	Anti-vibration protection cap, yellow
NT-01-000281	10	Push-in L-fit QSML-M5-4
NT-01-000692	10	L-connector QSML-6H-4
NT-01-000277	10	Push-in fitting QSM-M5-6
NT-01-000176	10	T-connector QSMT-6
NT-01-002502	10	Y-connector QSY-6-4, connection 1 = 6 mm - connection 2 = 4 mm
NT-01-000397	1	Filter control valve LFR-1/4-D-MINI
NT-01-000386	1	Butterfly valve GRLO-M5-QS-4-LF-C



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Enclosure modification centers

Enclosure modification centers

Spare parts

Pneumatic components

Spare part	Pack Quantity	Description
NT-01-000396	1	Pressure regulator LR-1/4-D-MINI
NT-01-001731	1	Pressure sensor SDE5-D10-O-Q6E-P-K
NT-01-000372	1	Standard cylinder Ø16 mm, hub 80 mm, DIN 6432
NT-01-000275	1	F/panel valve, type: SV-3-M5
NT-01-151486	1	5/2 ways sliding valve, round
NT-01-000276	1	Tumbler switch H-22-SW
NT-01-151328	1	Tumbler switch (5/2- & 3/2-way valve)
EL-01-002580	1	Valve terminal
EL-01-002280	1	Valve
NT-01-000284	1	EV20/75-5 clamping module, w/reset function
BG-01-013382	1	Vacuum device
NT-01-002259	1	Vacuum suction cup replacement, VS60, FSK NBR
BT-01-012839	1	Component of vacuum-device



Enclosure modification centers

Spare parts

Machine parts

Spare part	Pack Quantity	Description
NT-01-001830	1	Eccentric clamp, with screw 16 mm
NT-01-002769	1	Eccentric clamp, with screw 20 mm
NT-01-000748	1	M10x32 Elesä clamp lever with screw
NT-01-000304	1	M8x20 Elesä clamp lever with screw
NT-01-000820	1	M8 Elesä clamp lever with inner thread
NT-01-000303	1	M8x16 Lever straight line with screw
NT-01-000332	1	Straight-line lever with internal thread M8
NT-01-000331	1	M8 Flat knurled nuts, DIN 467, zinc-plated
NT-01-002620	1	M8x16 Knurled screw high form, DIN 464, steel
NT-01-000192	1	Tool Bracket, White with Steel Core, ISO 30
NT-01-000329	50	M8 sliding nut for plastic distance pin
NT-01-000431	1	Chip catcher fixation
NT-01-000602	1	Reflective tape, 1 m



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Enclosure modification centers

Enclosure modification centers

Spare parts

Machine parts

Spare part	Pack Quantity	Description
BG-01-150909	1	Swing clamp spare cylinder, right (w/o bracket and marking)
BG-01-150908	1	Swing clamp spare cylinder, left (w/o bracket and marking)
NT-01-000380	1	Suction hose, 10 m
BG-01-000002	1	Z-spindle Lubricator 0,35 l
BG-01-152346	1	Oil pump (preassembled)
BG-01-000161	1	Lubrication hose complete
NT-01-000316	1	Lubrication system circular jet UFZ.U00-022
BG-01-000276	1	Chip catcher, for ModCenter versions and 5.5 Umbra version
BG-01-000054	1	Chip catcher, 7.5 kW Umbra
BG-01-000055	1	Chip aspirator
NT-01-000324	1	Gear belt 500-5M, HTD
NT-01-152347	1	Mylar protective tape for zero stop bar 0,25 x 1500 mm



Enclosure modification centers

Spare parts

Electrical components

Spare part	Pack Quantity	Description
EL-01-000092	5	Replacement bulb for Beckhoff control box, Black bulb bottom
EL-01-000130	5	Replacement bulb for Beckhoff control box, Clear bulb bottom
EL-01-000329	5	Replacement bulb for Beckhoff Control box, LED
EL-01-000058	1	Reflex sensor for photo-electric guard
EL-01-000600	1	Illuminated pressure key for control cabinet
EL-01-002338	1	Wire control for operator panel F0N02G, bright



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Enclosure modification centers



Our powerful portfolio of brands:

CADDY

ERICO

HOFFMAN

ILSCO

SCHROFF

TRACHTE