Modular, flexible, cost-efficient

Mobile Material Handling Solutions

With Decades of Experience
Mobile drying and resin conveying

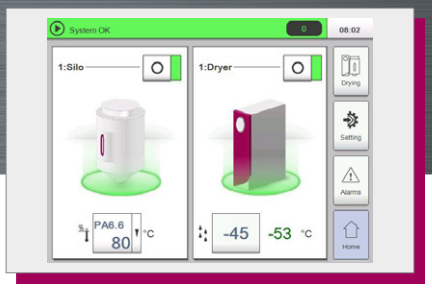
Efficiency in injection molding begins with material handling. Drawing on decades of experience, WITTMANN develops and manufactures equipment for both central and mobile material solutions.

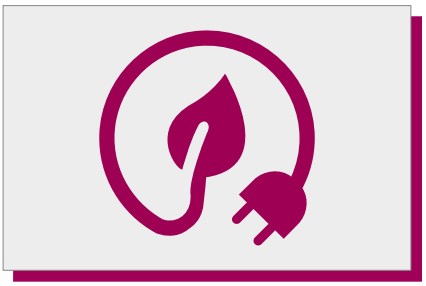
Modular and flexible in design, WITTMANN's mobile material solutions are precisely tailored to your application. Whether for small-volume applications or high-throughput processes, WITTMANN works closely with its customers to develop the most suitable solution, drawing on a comprehensive portfolio of peripheral equipment designed and manufactured in-house.

Your benefits at a glance:

- Maximum efficiency through perfectly integrated system components
- Intuitive operation thanks to a consistent user interface across all devices and system components
- Secure digitalization and connectivity with Wittmann 4.0
- basic or plus Version?
  The application determines the choice. basic focuses on the essentials. plus offers even greater performance, efficiency, and user convenience.

Drymax plus





The Highlights

Consistent operating concept
Simple and intuitive operation enhances process reliability and increases production uptime, especially when qualified personnel may not be available on every shift. At WITTMANN, this includes a standardized operating philosophy across the entire product portfolio, extending beyond peripheral equipment to injection molding machines, temperature control units, and automation systems.

Minimum energy consumption
Energy efficiency has always been a key focus of WITTMANN's development efforts. For this reason, all auxiliary equipment is equipped with intelligent control systems as standard. These systems monitor the condition of the plastic material being dried and automatically adjust the drying temperature to meet the actual process requirements. A wide range of optional features allows the drying process to be optimized even further, maximizing efficiency and reducing operating costs.

Maximum cost efficiency
Our application-focused solutions help plastic processors maximize quality and productivity while minimizing capital investment and operating costs. Leveraging decades of engineering and process expertise, WITTMANN's specialists design systems optimized for performance, efficiency, and long-term value.

Future-proof investments
Production requirements are evolving at an ever-increasing pace. That is why WITTMANN material handling solutions are designed with a consistently modular architecture. Whether expanding, retrofitting, or upgrading existing systems, WITTMANN supports its customers in adapting their material handling installations quickly and efficiently to new requirements. From consultation and implementation to recommissioning, WITTMANN provides comprehensive support throughout the entire process.

Maximum Efficiency for the Smallest Material Volumes
Compressed air dryers Card

The production of small and micro-sized molded parts, with typical throughput rates of less than 5 kg/h, requires particularly intensive material drying right up to the plasticizing stage. This is exactly where the Card compressed-air dryers demonstrate their strengths. They are the ideal complement to existing material handling systems, ensuring consistently high drying quality independently of the conveying process.

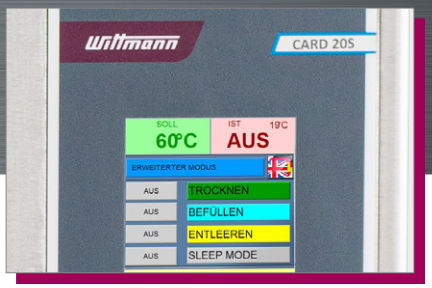
The Card series compressed-air dryers are available in two versions: for direct installation on the injection molding machine and as a mobile stand-alone solution.

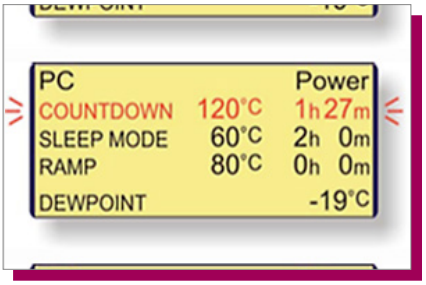
Your benefits at a glance:

- Drying directly at the feed throat, ensuring reliable processing of even the smallest material quantities
- Drying temperatures of up to 200 °C for a wide range of materials
- Digital airflow control automatically reduces compressed-air consumption once the material has reached the required dryness level, ensuring energy-efficient operation (from a hopper volume of 20 l)
- Fully insulated drying hoppers with precise airflow control to minimize heat loss
- All material-contact components are made of polished stainless steel, simplifying cleaning and reducing changeover times to a minimum. Additional advantages include extended service life and exceptionally low maintenance costs.

Card 3G FIT

Card primus 20





The Highlights

Flexible in use

The intelligent FIT control system expands the application range of Card dryers, including the integration of a secondary circuit for preheating plastic granules. Operation is exceptionally simple thanks to the intuitive touch display and clear process visualization. Up to two compressed-air loaders can be connected.

Optimum material protection

The Sleep Mode is activated whenever production is stopped for an extended period. The drying temperature is automatically reduced to prevent thermal degradation of the plastic material while simultaneously lowering energy consumption.

Start signal for maximum efficiency

In Countdown Mode, the dryer displays the remaining drying time. As soon as the pre-drying process has been completed successfully, the dryer automatically gives the signal to start production. No manual checks are required, ensuring maximum production uptime and process reliability.

Automatic material loading

The VacuJet small-capacity loader is used for material feeding. Its compact design enables highly space-saving installations while still delivering impressive conveying performance of up to 120 kg/h. The loader can be conveniently operated via the FIT control system of the Card dryer.

Consistent Quality for a Continuous Process
Dry air dryers Drymax

The Drymax dry air dryers are equipped with two desiccant beds. While one cartridge supplies the process air, the other is being regenerated. This ensures uninterrupted operation and continuous drying performance for throughput rates of up to 45 kg/h.

Your benefits at a glance:

- Dew points down to -60 °C for optimum drying results
- Electrically actuated switching valves ensure smooth transitions between drying and regeneration cycles
- Hopper volumes from 30 to 300 liters, allowing the Drymax to be precisely matched to application requirements
- Compact design for maximum floor space productivity

The Plus for greater convenience, flexibility and efficiency

In the plus version, the Drymax is fully prepared for digital manufacturing environments. Featuring a USB interface and optional OPC UA connectivity, transferring datasets and integrating the dryer into production systems becomes effortless. Within a WITTMANN work cell, the Drymax communicates with the injection molding machine and other auxiliary equipment via Wittmann 4.0. All settings are automatically checked for plausibility and continuously monitored, ensuring reliable process control. The intuitive 5.7" touchscreen simplifies operation and provides a clear overview of all key process parameters.

Automatic reduction of the drying temperature during partial-load operation can lower energy costs by up to 30%.
The optional EcoDrive function further minimizes energy consumption, delivering maximum efficiency and reduced operating costs.

Drymax plus 60

Drymax primus 30

The Highlights

Easy operation
Simple and intuitive operation minimizes the risk of errors while enhancing safety and efficiency. This applies equally to the user-friendly keypad of the basic version and the 5.7" touchscreen of the Drymax plus.

Keeping production running
The AmbiLED status indicator on the front door provides an instant overview of the machine status, even at a glance while passing by. This helps minimize downtime and maximize production uptime.

Energy-efficient operation
Temperature-controlled regeneration keeps regeneration cycles as short as possible and reduces energy consumption. In addition, the drying hoppers and service doors are extensively insulated to prevent heat loss and further improve efficiency.

Superior material protection
The Material Protection Function (MPF) is a standard feature of all Drymax dryers. By temporarily reducing the drying temperature during machine downtime, for example when the processing machine is stopped, the system reliably prevents over-drying and thermal degradation of the plastic material, ensuring consistent material quality and process reliability.

Maximum Productivity for high Material Throughputs
Mobile dryer

The Drymax basic 120 provides reliable material drying for throughput rates of up to 75 kg/h. With the SmartCare option, a consistently low dew point is achieved even at high ambient temperatures and humidity levels. This increases process reliability and ensures consistently high product quality.

Your benefits:

- Easy operation through a clear and intuitive 3.5" color display
- Consistent material quality with SmartCare dew point monitoring
- Maximum efficiency with durable, refillable drying cartridges
- Reliable material conditioning, even during production interruptions
- Production-ready from the start with efficient pre-drying technology

Drymax basic 120

Material Conveying Seamlessly Integrated
VS versions

The mobile dryer models Drymax plus 60 and Aton plus 120 are available in the VS (Vacuum Station) version with integrated material conveying. Material is fed to the drying hopper by a conveying blower that is fully integrated into the dryer frame without requiring any additional floor space. The dried material is conveyed to the processing machine using dry air and the conveying line is then automatically purged. This eliminates the risk of reabsorption of moisture during conveying, ensuring a stable process even with moisture-sensitive materials and under challenging ambient conditions.

Your benefits:

- The conveying line is automatically purged after every conveying cycle, enabling faster production of quality parts following material changes.
- The 5.7" touchscreen allows centralized control and monitoring of both the dryer and all connected conveying units.
- Just-in-time material conveying with variable material level at the processing machine minimizes material residence time in the feed throat area, ensuring optimum material protection.
- Centralized dust separation prevents contamination of the processing machine while maintaining consistently high conveying performance and improving workplace safety.
- The conveying blower is maintenance-free, reducing service requirements and operating costs.
- For high-throughput applications, the VS version provides significantly greater convenience and operational efficiency.

The Versatile self-contained Material Loader:
Feedmax S3 net

Flexible and easy to use, the Feedmax S3 net is a truly versatile solution, delivering a continuous conveying capacity of 80 kg/h. It also reliably handles short-term peak throughputs of up to 150 kg/h with ease.

Your benefits:

- Stainless steel construction for all material-contact components, enabling the safe conveying of both sensitive and abrasive materials
- AmbiLED status indicator for rapid detection
- Versatile and reliable solution for supplying equipment such as drying hoppers, dosing units, and processing machines
- Convenient adjustment of conveying time using a rotary control knob
- Optional proportional valve for the precise and reliable addition of regrind material
- Optional TeachBox basic for efficient networking of multiple conveying stations and convenient parameter setting of connected loaders

Feedmax S3 net

Reliable Conveying over long Distances

Net5 system with TeachBox plus

The Net5 system is a compact conveying control unit including TeachBox plus. It provides the ideal solution for small conveying systems, even across long distances.

It enables the monitoring of a large number of connected devices and supports the management of both Feedmax S3 net units and Feedmax units in combination with central vacuum and filter stations.

All connected devices are automatically detected by the control system and clearly displayed on the 5.7" touchscreen, providing a comprehensive overview of the entire conveying network.
The Net5 system offers extensive parameter settings directly via the touchscreen while maintaining simple and convenient adjustment of conveying times using a rotary control.

Your benefits:

- AmbiLED status indicators for all connected components, providing an instant overview of system status
- Visualization on up to four TeachBox plus units, reducing walking distances and improving operating convenience
- Powerful conveying performance with vacuum stations ranging from 1.5 to 7.5 kW for maximum throughput

TeachBox plus

Application table
Card

Material	Residence Time [h]	Temp. [°C]	Card [kg/h]								
			1	3	6	10	20	40	70	110	160
ABS	2	80	0,3	1	2	3,25	6,5	13	23	36	52
ASA	2-3	80	0,2	0,65	1,3	2,15	4,3	8,6	15	24	35
CA	2	80	0,3	1	2	3,25	6,5	13	23	36	52
CAB	2	75	0,3	1	2	3,25	6,5	13	23	36	52
CP	4	75	0,16	0,5	1	1,6	3,3	6,5	11	18	26
EVA	2	80	0,3	1	2	3,25	6,5	13	23	36	52
EVOH	5	120	0,13	0,4	0,8	1,3	2,6	5,2	9	14	21
LCP	4	150	0,16	0,5	1	1,6	3,3	6,5	11	18	26
PA6/6.6	4	80	0,16	0,5	1	1,6	3,3	6,5	11	18	26
PA6.10/11/12	4	80	0,16	0,5	1	1,6	3,3	6,5	11	18	26
PBTP	2-3	140	0,2	0,65	1,3	2,15	4,3	8,6	15	24	35
PC	2	120	0,3	1	2	3,25	6,5	13	23	36	52
PE gefüllt	1-2	85	0,3	1	2	3,25	6,5	13	23	36	52
PEEK	3	150	0,2	0,65	1,3	2,15	4,3	8,6	15	24	35
PES	2-3	150	0,2	0,65	1,3	2,15	4,3	8,6	15	24	35
PET	4	180	0,2	0,6	1,2	2	4	8	14	22	32
PET G	6	75	0,11	0,35	0,65	1,1	2,2	4,3	7,8	12	17
PI	2-3	120	0,2	0,65	1,3	2,15	4,3	8,6	15	24	35
PMMA	2-3	80	0,2	0,65	1,3	2,15	4,3	8,6	15	24	35
POM	2-3	100	0,2	0,65	1,3	2,15	4,3	8,6	15	24	35
PP gefüllt	3	90	0,2	0,65	1,3	2,15	4,3	8,6	15	24	35
PPS	2	150	0,3	1	2	3,25	6,5	13	23	36	52
PS	1-2	80	0,3	1	2	3,25	6,5	13	23	36	52
PSU	1-2	120	0,3	1	2	3,25	6,5	13	23	36	52
PUR/TPU	2-3	90	0,2	0,65	1,3	2,15	4,3	8,6	15	24	35
SAN	2	80	0,3	1	2	3,25	6,5	13	23	36	52
SB	1-2	80	0,3	1	2	3,25	6,5	13	23	36	52
TPE	2-3	100	0,2	0,65	1,3	2,15	4,3	8,6	15	24	35

Material	Residence Time [h]	Temp. [°C]	Card [kg/h]								
			225	250	375	450	600	850	1250	1650	2000
ABS	2	80	73	80	121	145	195	275	405	535	650
ASA	2-3	80	49	55	81	100	130	185	270	355	435
CA	2	80	73	80	121	145	195	275	405	535	650
CAB	2	75	73	80	121	145	195	275	405	535	650
CP	4	75	36	40	60	75	100	140	205	270	325
EVA	2	80	73	80	121	145	195	275	405	535	650
EVOH	5	120	29	32	48	60	80	110	165	215	260
LCP	4	150	36	40	60	75	100	140	205	270	325
PA6/6.6	4	80	36	40	60	75	100	140	205	270	325
PA6.10/11/12	4	80	36	40	60	75	100	140	205	270	325
PBTP	2-3	140	49	55	81	100	130	185	270	355	435
PC	2	120	73	80	121	145	195	275	405	535	650
PE gefüllt	1-2	85	73	80	121	145	195	275	405	535	650
PEEK	3	150	49	55	81	100	130	185	270	355	435
PES	2-3	150	49	55	81	100	130	185	270	355	435
PET	4	180	45	50	75	90	120	170	250	330	400
PET G	6	75	24	27	40	50	65	95	135	180	215
PI	2-3	120	49	55	81	100	130	185	270	355	435
PMMA	2-3	80	49	55	81	100	130	185	270	355	435
POM	2-3	100	49	55	81	100	130	185	270	355	435
PP gefüllt	3	90	49	55	81	100	130	185	270	355	435
PPS	2	150	73	80	121	145	195	275	405	535	650
PS	1-2	80	73	80	121	145	195	275	405	535	650
PSU	1-2	120	73	80	121	145	195	275	405	535	650
PUR/TPU	2-3	90	49	55	81	100	130	185	270	355	435
SAN	2	80	73	80	121	145	195	275	405	535	650
SB	1-2	80	73	80	121	145	195	275	405	535	650
TPE	2-3	100	49	55	81	100	130	185	270	355	435

Technical Specifications

Drymax

Model	Version			Process air 50 Hz		Process air 60 Hz		Process heater		Regen. Heater	Power supply A		Power plug		Drying hopper			with casters
Drymax	primus	basic	plus	m³/h	cfm	m³/h	cfm	kW	position	kW	EU	US	EU	US	ltr.	cu.ft	position	
30		◆	◆	30	18	36	21	–	–	0.8	5.3		CEE 7	7 (16A)	–	–	–	yes
30-H		◆	◆	30	18	36	21	1.6	in dryer	0.8	12.1		CEE 7	7 (16A)	–	–	–	–
30-30-T		◆	◆	30	18	36	21	1.6	at hopper	0.8	12.1		CEE 7	7 (16A)	30	1.05	on IMM	–
30-50-T		◆	◆	30	18	36	21	1.6	at hopper	0.8	12.1		CEE 7	7 (16A)	50	1.77	on IMM	–
30-70-T		◆	◆	30	18	36	21	1.6	at hopper	0.8	12.1		CEE 7	7 (16A)	70	2.47	on IMM	–
30-100-T		◆	◆	30	18	36	21	1.6	at hopper	0.8	12.1		CEE 7	7 (16A)	100	3.53	on IMM	–
30-30-M		◆	◆	30	18	36	21	1.6	in dryer	0.8	12.1		CEE 7	7 (16A)	30	1.05	at dryer	yes
30-50-M		◆	◆	30	18	36	21	1.6	in dryer	0.8	12.1		CEE 7	7 (16A)	50	1.77	at dryer	yes
30-70-M	◆	◆	◆	30	18	36	21	1.6	in dryer	0.8	12.1		CEE 7	7 (16A)	70	2.47	at dryer	yes
30-100-M		◆	◆	30	18	36	21	1.6	in dryer	0.8	12.1		CEE 7	7 (16A)	100	3.53	at dryer	yes
60		◆	◆	60	35	72	42	–	–	1.2	5.5	5.0	CEE 16	–	–	–	–	yes
60-H		◆	◆	60	35	72	42	3	at hopper	1.2	12.5	10.75	CEE 16	–	–	–	–	–
60-70-T		◆	◆	60	35	72	42	3	at hopper	1.2	12.5	10.75	CEE 16	–	70	2.47	on IMM	–
60-100-T		◆	◆	60	35	72	42	3	at hopper	1.2	12.5	10.75	CEE 16	–	100	3.53	on IMM	–
60-70-M		◆	◆	60	35	72	42	3	at hopper	1.2	12.5	10.75	CEE 16	–	70	2.47	at dryer	yes
60-100-M		◆	◆	60	35	72	42	3	at hopper	1.2	12.5	10.75	CEE 16	–	100	3.53	at dryer	yes
60-150-M	◆	◆	◆	60	35	72	42	3	at hopper	1.2	12.5	10.75	CEE 16	–	150	5.3	at dryer	yes
60-200-M		◆	◆	60	35	72	42	3	at hopper	1.2	12.5	10.75	CEE 16	–	200	7.06	at dryer	yes
60-300-M		◆	◆	60	35	72	42	3	at hopper	1.2	12.5	10.75	CEE 16	–	300	10.59	at dryer	yes
60-70-VS			◆	60	35	72	42	3	at hopper	1.2	max. 32		CEE 32	–	70	2.47	at dryer	yes
60-100-VS			◆	60	35	72	42	3	at hopper	1.2	max. 32		CEE 32	–	100	3.53	at dryer	yes
60-150-VS			◆	60	35	72	42	3	at hopper	1.2	max. 32		CEE 32	–	150	5.3	at dryer	yes
60-200-VS			◆	60	35	72	42	3	at hopper	1.2	max. 32		CEE 32	–	200	7.06	at dryer	yes
60-300-VS			◆	60	35	72	42	3	at hopper	1.2	max. 32		CEE 32	–	300	10.59	at dryer	yes
120-200		◆		120	71	144	85	6	in dryer	3	19,5		CEE 32	–	200	7,06	at dryer	yes
120-300	◆	◆		120	71	144	85	6	in dryer	3	19,5		CEE 32	–	300	10,59	at dryer	yes
120-400		◆		120	71	144	85	6	in dryer	3	19,5		CEE 32	–	400	14,13	at dryer	yes

Application table

Drymax

Material	Residence Time [h]	Temp. [°C]	Dryer [kg/h]			Drying hopper [kg/h]							
			30	60	120	30 l	50 l	70 l	100 l	150 l	200 l	300 l	400 l
								70 l	100 l		200 l	300 l	
ABS	2,5	80	19	37	74	8	13	18	25	38	50	76	101
ASA	3	80	19	37	49	9	14	20	29	33	44	66	88
CA	2,8	65	12	24	48	9	16	22	31	47	62	94	125
CP	2,5	70	13	26	52	9	15	21	30	44	59	89	118
EVA	2	80	10	21	42	9	14	20	29	43	57	86	114
IONOMERE	3,5	90	12	23	46	5	8	11	16	24	32	48	64
PA 11	3	75	18	37	74	6	10	14	21	31	41	62	83
PA 12	3	75	14	29	58	6	10	14	21	31	41	62	83
PA6	3	80	14	28	57	7	11	16	23	34	45	68	91
PA6.6	3	80	14	28	57	7	11	16	23	34	45	68	91
PA6.6GF35	3	80	17	34	69	9	14	20	28	43	57	85	113
PBT	3,5	120	17	35	70	7	12	16	23	35	45	69	93
PC	3	120	22	45	90	7	12	17	24	36	48	72	96
PEEK	4	160	12	24	47	6	10	14	20	30	40	59	79
PE gefüllt	3	90	13	27	54	6	10	13	19	29	38	57	76
PEI	3,5	150	21	43	86	7	11	15	22	33	43	65	87
PE	1,5	90	13	27	54	11	19	26	37	56	75	112	149
PES	3,5	150	20	39	79	7	12	16	23	35	47	70	94
PET	4	125	17	35	70	6	11	15	21	37	42	63	84
PET-A	6	170	14	28	56	4	7	10	14	21	28	42	56
PETG	4	65	17	34	69	6	10	13	19	29	38	57	76
PMMA	3,5	80	16	33	66	6	10	14	20	30	41	61	81
POM	2,5	100	18	36	72	10	17	24	34	51	68	102	136
PP	1,5	90	15	30	60	11	18	25	36	54	72	108	144
PPO	2,5	100	19	37	75	8	13	18	28	38	51	77	102
PPS	3,5	150	18	37	74	7	11	16	23	34	46	69	91
PS	1,5	80	19	37	74	13	21	29	42	63	84	126	168
PSU	2,5	140	12	24	47	9	15	21	30	44	59	89	118
PUR	2,5	90	15	30	60	9	15	20	29	44	58	88	117
PVC	1,5	70	26	52	104	16	27	38	54	81	108	162	216
SAN	2,5	80	20	40	81	8	13	18	26	39	52	78	104
SB	1,5	70	17	34	68	13	21	29	42	63	84	126	168
TPE-E	3	100	15	29	59	7	12	17	24	36	47	71	95
TPE-U	2	90	16	32	64	11	18	26	37	55	73	110	146

» We develop **technologies that meet the demands of today and tomorrow**, saving materials and energy while protecting the climate. Across the entire injection molding process, from material handling to in-line recycling.
We live molding. «

(Dr. Werner Wittmann)

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