

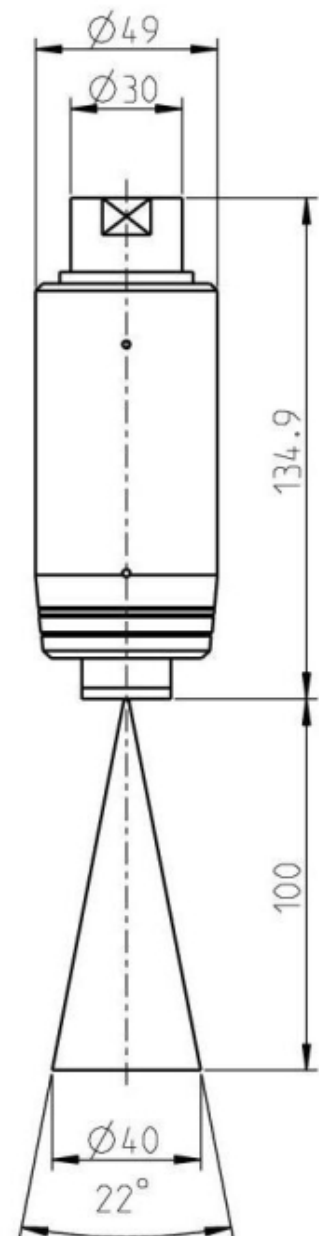
— Mono-Jet F2

Orbital nozzle Mono-Jet F2

MONRO-JET® nozzles combine the high power of the spot jet with the large area output of the flat jet. They can be used with all approved high-pressure fittings and can be mounted on lances. The F2 model can be used up to an operating pressure of 1000 bar, and five different connection thread types are available. Thanks to their compact design, MONRO-JET® nozzles can be used in both building construction and civil engineering for surface treatment and cleaning.

Features and advantages

- Several times higher cleaning performance
- Consistent jet quality
- Long service life
- Lightweight, robust and reliable
- Easy to install and dismantle
- Swiss Quality



Applications

MVT AG is a Swiss supplier of high-quality and precise components and systems for the industrial sector.

- Deburring and cleaning of cast parts
- Removal of surface coatings
- Offshore applications
- Shipbuilding
- Concrete removal
- Removal of bitumen layers
- Paint removal

Connection thread	ART. NO. (1)
1/4" BSP	31324._ _
1/2" BSP	31322._ _
1/2" NPT	31323._ _
3/8" BSP	31330._ _
3/8" NPT	31336._ _

Specifications



Operating pressure (bar)
max.

1000



Operating temperature (°C)
max.

100



Rotor Ø (mm)

from 0.60 to 2.80

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar			
				psi2900	psi7250	psi10875	psi14500
				bar200	bar500	bar750	bar1000
DURCHFLUSSMENGE in l/min							
31324.0600	0.60	0.60	2	0.000	4.508	5.511	6.337
31324.0650	0.65	0.65	2	3.328	5.235	6.384	7.341
31324.0700	0.70	0.70	2	3.400	5.348	6.523	7.501
31324.0750	0.75	0.70	2	3.719	5.990	7.144	8.261
31324.0800	0.80	0.70	2	4.711	7.354	8.888	10.326
31324.0850	0.85	0.80	2	5.081	7.907	9.617	11.209
31324.0900	0.90	1.00	2	6.327	9.880	12.064	13.907
31324.0950	0.95	1.00	2	6.788	10.676	12.890	15.028
31324.1000	1.00	1.20	2	7.962	12.537	15.272	17.169
31324.1050	1.05	1.20	2	8.633	13.578	16.560	19.043
31324.1100	1.10	1.40	2	9.815	15.384	18.740	21.550

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar			
				psi2900	psi7250	psi10875	psi14500
				bar200	bar500	bar750	bar1000
DURCHFLUSSMENGE in l/min							
31324.1150	1.15	1.40	2	10.418	16.385	19.983	22.979
31324.1200	1.20	1.80	2	12.072	18.840	23.002	26.451
31324.1250	1.25	1.80	2	13.129	20.534	24.987	28.733
31324.1300	1.30	2.40	2	14.041	23.082	28.181	32.406
31324.1350	1.35	2.40	2	15.689	24.704	29.997	34.495
31324.1400	1.40	2.40	2	16.910	26.597	32.260	37.097
31324.1450	1.45	2.60	2	18.238	28.685	34.984	40.229
31324.1500	1.50	2.60	2	19.412	30.532	37.236	42.819
31324.1550	1.55	2.80	2	20.840	32.779	39.975	45.970
31324.1600	1.60	2.80	2	22.206	34.927	42.596	48.983
31324.1650	1.65	3.00	2	23.616	37.144	45.300	52.092
31324.1700	1.70	3.00	2	25.069	39.430	48.087	55.297
31324.1750	1.75	3.00	2	26.565	41.783	50.957	58.598
31324.1800	1.80	3.20	2	28.105	44.205	53.911	61.994
31324.1850	1.85	3.20	2	29.688	46.695	56.947	65.486
31324.1900	1.90	3.20	2	31.314	49.253	60.067	69.074
31324.1950	1.95	3.20	2	32.984	51.879	63.270	72.757
31324.2000	2.00	3.00	4	34.697	54.574	66.556	76.536
31324.2050	2.05	3.00	4	36.454	57.337	69.926	80.411
31324.2100	2.10	3.00	4	38.254	60.168	73.378	84.381
31324.2150	2.15	3.20	4	40.097	63.067	76.914	88.447
31324.2200	2.20	3.20	4	41.984	66.035	80.533	92.609
31324.2250	2.25	3.20	4	43.914	69.070	84.236	96.866
31324.2300	2.30	3.20	4	45.887	72.174	88.021	101.219
31324.2350	2.35	3.20	4	47.904	75.346	91.890	105.668
31324.2400	2.40	3.20	4	49.964	78.587	95.841	110.212
31324.2450	2.45	3.20	4	52.067	81.895	99.876	114.852
31324.2500	2.50	3.20	4	54.214	85.272	103.994	119.588

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar			
				psi2900	psi7250	psi10875	psi14500
				bar200	bar500	bar750	bar1000
				DURCHFLUSSMENGE in l/min			
31324.2550	2.55	3.50	4	56.404	88.717	108.196	124.419
31324.2600	2.60	3.50	4	58.638	92.230	112.480	129.346
31324.2650	2.65	3.50	4	60.915	95.812	116.848	134.369
31324.2700	2.70	3.50	4	63.235	99.461	121.299	139.487
31324.2750	2.75	3.50	4	65.599	103.179	125.833	144.701
31324.2800	2.80	3.50	4	68.006	106.965	130.451	150.011
31322.0600	0.60	0.60	2	0.000	4.508	5.511	6.337
31322.0650	0.65	0.65	2	3.328	5.235	6.384	7.341
31322.0700	0.70	0.70	2	3.400	5.348	6.523	7.501
31322.0750	0.75	0.70	2	3.719	5.990	7.144	8.261
31322.0800	0.80	0.70	2	4.711	7.354	8.888	10.326
31322.0850	0.85	0.80	2	5.081	7.907	9.617	11.209
31322.0900	0.90	1.00	2	6.327	9.880	12.064	13.907
31322.0950	0.95	1.00	2	6.788	10.676	12.890	15.028
31322.1000	1.00	1.20	2	7.962	12.537	15.272	17.169
31322.1050	1.05	1.20	2	8.633	13.578	16.560	19.043
31322.1100	1.10	1.40	2	9.815	15.384	18.740	21.550
31322.1150	1.15	1.40	2	10.418	16.385	19.983	22.979
31322.1200	1.20	1.80	2	12.072	18.840	23.002	26.451
31322.1250	1.25	1.80	2	13.129	20.534	24.987	28.733
31322.1300	1.30	2.40	2	14.041	23.082	28.181	32.406
31322.1350	1.35	2.40	2	15.689	24.704	29.997	34.495
31322.1400	1.40	2.40	2	16.910	26.597	32.260	37.097
31322.1450	1.45	2.60	2	18.238	28.685	34.984	40.229
31322.1500	1.50	2.60	2	19.412	30.532	37.236	42.819
31322.1550	1.55	2.80	2	20.840	32.779	39.975	45.970
31322.1600	1.60	2.80	2	22.206	34.927	42.596	48.983
31322.1650	1.65	3.00	2	23.616	37.144	45.300	52.092

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar			
				psi2900	psi7250	psi10875	psi14500
				bar200	bar500	bar750	bar1000
DURCHFLUSSMENGE in l/min							
31322.1700	1.70	3.00	2	25.069	39.430	48.087	55.297
31322.1750	1.75	3.00	2	26.565	41.783	50.957	58.598
31322.1800	1.80	3.20	2	28.105	44.205	53.911	61.994
31322.1850	1.85	3.20	2	29.688	46.695	56.947	65.486
31322.1900	1.90	3.20	2	31.314	49.253	60.067	69.074
31322.1950	1.95	3.20	2	32.984	51.879	63.270	72.757
31322.2000	2.00	3.00	4	34.697	54.574	66.556	76.536
31322.2050	2.05	3.00	4	36.454	57.337	69.926	80.411
31322.2100	2.10	3.00	4	38.254	60.168	73.378	84.381
31322.2150	2.15	3.20	4	40.097	63.067	76.914	88.447
31322.2200	2.20	3.20	4	41.984	66.035	80.533	92.609
31322.2250	2.25	3.20	4	43.914	69.070	84.236	96.866
31322.2300	2.30	3.20	4	45.887	72.174	88.021	101.219
31322.2350	2.35	3.20	4	47.904	75.346	91.890	105.668
31322.2400	2.40	3.20	4	49.964	78.587	95.841	110.212
31322.2450	2.45	3.20	4	52.067	81.895	99.876	114.852
31322.2500	2.50	3.20	4	54.214	85.272	103.994	119.588
31322.2550	2.55	3.50	4	56.404	88.717	108.196	124.419
31322.2600	2.60	3.50	4	58.638	92.230	112.480	129.346
31322.2650	2.65	3.50	4	60.915	95.812	116.848	134.369
31322.2700	2.70	3.50	4	63.235	99.461	121.299	139.487
31322.2750	2.75	3.50	4	65.599	103.179	125.833	144.701
31322.2800	2.80	3.50	4	68.006	106.965	130.451	150.011
31323.0600	0.60	0.60	2	0.000	4.508	5.511	6.337
31323.0650	0.65	0.65	2	3.328	5.235	6.384	7.341
31323.0700	0.70	0.70	2	3.400	5.348	6.523	7.501
31323.0750	0.75	0.70	2	3.719	5.990	7.144	8.261
31323.0800	0.80	0.70	2	4.711	7.354	8.888	10.326

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar			
				psi2900	psi7250	psi10875	psi14500
				bar200	bar500	bar750	bar1000
				DURCHFLUSSMENGE in l/min			
31323.0850	0.85	0.80	2	5.081	7.907	9.617	11.209
31323.0900	0.90	1.00	2	6.327	9.880	12.064	13.907
31323.0950	0.95	1.00	2	6.788	10.676	12.890	15.028
31323.1000	1.00	1.20	2	7.962	12.537	15.272	17.169
31323.1050	1.05	1.20	2	8.633	13.578	16.560	19.043
31323.1100	1.10	1.40	2	9.815	15.384	18.740	21.550
31323.1150	1.15	1.40	2	10.418	16.385	19.983	22.979
31323.1200	1.20	1.80	2	12.072	18.840	23.002	26.451
31323.1250	1.25	1.80	2	13.129	20.534	24.987	28.733
31323.1300	1.30	2.40	2	14.041	23.082	28.181	32.406
31323.1350	1.35	2.40	2	15.689	24.704	29.997	34.495
31323.1400	1.40	2.40	2	16.910	26.597	32.260	37.097
31323.1450	1.45	2.60	2	18.238	28.685	34.984	40.229
31323.1500	1.50	2.60	2	19.412	30.532	37.236	42.819
31323.1550	1.55	2.80	2	20.840	32.779	39.975	45.970
31323.1600	1.60	2.80	2	22.206	34.927	42.596	48.983
31323.1650	1.65	3.00	2	23.616	37.144	45.300	52.092
31323.1700	1.70	3.00	2	25.069	39.430	48.087	55.297
31323.1750	1.75	3.00	2	26.565	41.783	50.957	58.598
31323.1800	1.80	3.20	2	28.105	44.205	53.911	61.994
31323.1850	1.85	3.20	2	29.688	46.695	56.947	65.486
31323.1900	1.90	3.20	2	31.314	49.253	60.067	69.074
31323.1950	1.95	3.20	2	32.984	51.879	63.270	72.757
31323.2000	2.00	3.00	4	34.697	54.574	66.556	76.536
31323.2050	2.05	3.00	4	36.454	57.337	69.926	80.411
31323.2100	2.10	3.00	4	38.254	60.168	73.378	84.381
31323.2150	2.15	3.20	4	40.097	63.067	76.914	88.447
31323.2200	2.20	3.20	4	41.984	66.035	80.533	92.609

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar			
				psi2900	psi7250	psi10875	psi14500
				bar200	bar500	bar750	bar1000
				DURCHFLUSSMENGE in l/min			
31323.2250	2.25	3.20	4	43.914	69.070	84.236	96.866
31323.2300	2.30	3.20	4	45.887	72.174	88.021	101.219
31323.2350	2.35	3.20	4	47.904	75.346	91.890	105.668
31323.2400	2.40	3.20	4	49.964	78.587	95.841	110.212
31323.2450	2.45	3.20	4	52.067	81.895	99.876	114.852
31323.2500	2.50	3.20	4	54.214	85.272	103.994	119.588
31323.2550	2.55	3.50	4	56.404	88.717	108.196	124.419
31323.2600	2.60	3.50	4	58.638	92.230	112.480	129.346
31323.2650	2.65	3.50	4	60.915	95.812	116.848	134.369
31323.2700	2.70	3.50	4	63.235	99.461	121.299	139.487
31323.2750	2.75	3.50	4	65.599	103.179	125.833	144.701
31323.2800	2.80	3.50	4	68.006	106.965	130.451	150.011
31330.0600	0.60	0.60	2	0.000	4.508	5.511	6.337
31330.0650	0.65	0.65	2	3.328	5.235	6.384	7.341
31330.0700	0.70	0.70	2	3.400	5.348	6.523	7.501
31330.0750	0.75	0.70	2	3.719	5.990	7.144	8.261
31330.0800	0.80	0.70	2	4.711	7.354	8.888	10.326
31330.0850	0.85	0.80	2	5.081	7.907	9.617	11.209
31330.0900	0.90	1.00	2	6.327	9.880	12.064	13.907
31330.0950	0.95	1.00	2	6.788	10.676	12.890	15.028
31330.1000	1.00	1.20	2	7.962	12.537	15.272	17.169
31330.1050	1.05	1.20	2	8.633	13.578	16.560	19.043
31330.1100	1.10	1.40	2	9.815	15.384	18.740	21.550
31330.1150	1.15	1.40	2	10.418	16.385	19.983	22.979
31330.1200	1.20	1.80	2	12.072	18.840	23.002	26.451
31330.1250	1.25	1.80	2	13.129	20.534	24.987	28.733
31330.1300	1.30	2.40	2	14.041	23.082	28.181	32.406
31330.1350	1.35	2.40	2	15.689	24.704	29.997	34.495

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar			
				psi2900	psi7250	psi10875	psi14500
				bar200	bar500	bar750	bar1000
DURCHFLUSSMENGE in l/min							
31330.1400	1.40	2.40	2	16.910	26.597	32.260	37.097
31330.1450	1.45	2.60	2	18.238	28.685	34.984	40.229
31330.1500	1.50	2.60	2	19.412	30.532	37.236	42.819
31330.1550	1.55	2.80	2	20.840	32.779	39.975	45.970
31330.1600	1.60	2.80	2	22.206	34.927	42.596	48.983
31330.1650	1.65	3.00	2	23.616	37.144	45.300	52.092
31330.1700	1.70	3.00	2	25.069	39.430	48.087	55.297
31330.1750	1.75	3.00	2	26.565	41.783	50.957	58.598
31330.1800	1.80	3.20	2	28.105	44.205	53.911	61.994
31330.1850	1.85	3.20	2	29.688	46.695	56.947	65.486
31330.1900	1.90	3.20	2	31.314	49.253	60.067	69.074
31330.1950	1.95	3.20	2	32.984	51.879	63.270	72.757
31330.2000	2.00	3.00	4	34.697	54.574	66.556	76.536
31330.2050	2.05	3.00	4	36.454	57.337	69.926	80.411
31330.2100	2.10	3.00	4	38.254	60.168	73.378	84.381
31330.2150	2.15	3.20	4	40.097	63.067	76.914	88.447
31330.2200	2.20	3.20	4	41.984	66.035	80.533	92.609
31330.2250	2.25	3.20	4	43.914	69.070	84.236	96.866
31330.2300	2.30	3.20	4	45.887	72.174	88.021	101.219
31330.2350	2.35	3.20	4	47.904	75.346	91.890	105.668
31330.2400	2.40	3.20	4	49.964	78.587	95.841	110.212
31330.2450	2.45	3.20	4	52.067	81.895	99.876	114.852
31330.2500	2.50	3.20	4	54.214	85.272	103.994	119.588
31330.2550	2.55	3.50	4	56.404	88.717	108.196	124.419
31330.2600	2.60	3.50	4	58.638	92.230	112.480	129.346
31330.2650	2.65	3.50	4	60.915	95.812	116.848	134.369
31330.2700	2.70	3.50	4	63.235	99.461	121.299	139.487
31330.2750	2.75	3.50	4	65.599	103.179	125.833	144.701

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar			
				psi2900	psi7250	psi10875	psi14500
				bar200	bar500	bar750	bar1000
				DURCHFLUSSMENGE in l/min			
31330.2800	2.80	3.50	4	68.006	106.965	130.451	150.011
31336.0600	0.60	0.60	2	0.000	4.508	5.511	6.337
31336.0650	0.65	0.65	2	3.328	5.235	6.384	7.341
31336.0700	0.70	0.70	2	3.400	5.348	6.523	7.501
31336.0750	0.75	0.70	2	3.719	5.990	7.144	8.261
31336.0800	0.80	0.70	2	4.711	7.354	8.888	10.326
31336.0850	0.85	0.80	2	5.081	7.907	9.617	11.209
31336.0900	0.90	1.00	2	6.327	9.880	12.064	13.907
31336.0950	0.95	1.00	2	6.788	10.676	12.890	15.028
31336.1000	1.00	1.20	2	7.962	12.537	15.272	17.169
31336.1050	1.05	1.20	2	8.633	13.578	16.560	19.043
31336.1100	1.10	1.40	2	9.815	15.384	18.740	21.550
31336.1150	1.15	1.40	2	10.418	16.385	19.983	22.979
31336.1200	1.20	1.80	2	12.072	18.840	23.002	26.451
31336.1250	1.25	1.80	2	13.129	20.534	24.987	28.733
31336.1300	1.30	2.40	2	14.041	23.082	28.181	32.406
31336.1350	1.35	2.40	2	15.689	24.704	29.997	34.495
31336.1400	1.40	2.40	2	16.910	26.597	32.260	37.097
31336.1450	1.45	2.60	2	18.238	28.685	34.984	40.229
31336.1500	1.50	2.60	2	19.412	30.532	37.236	42.819
31336.1550	1.55	2.80	2	20.840	32.779	39.975	45.970
31336.1600	1.60	2.80	2	22.206	34.927	42.596	48.983
31336.1650	1.65	3.00	2	23.616	37.144	45.300	52.092
31336.1700	1.70	3.00	2	25.069	39.430	48.087	55.297
31336.1750	1.75	3.00	2	26.565	41.783	50.957	58.598
31336.1800	1.80	3.20	2	28.105	44.205	53.911	61.994
31336.1850	1.85	3.20	2	29.688	46.695	56.947	65.486
31336.1900	1.90	3.20	2	31.314	49.253	60.067	69.074

ART. NR.	Rotor Ø	TREIBROHR Ø	ANZAHL BOHRUNGEN	DRUCK in psi / bar			
				psi2900	psi7250	psi10875	psi14500
				bar200	bar500	bar750	bar1000
DURCHFLUSSMENGE in l/min							
31336.1950	1.95	3.20	2	32.984	51.879	63.270	72.757
31336.2000	2.00	3.00	4	34.697	54.574	66.556	76.536
31336.2050	2.05	3.00	4	36.454	57.337	69.926	80.411
31336.2100	2.10	3.00	4	38.254	60.168	73.378	84.381
31336.2150	2.15	3.20	4	40.097	63.067	76.914	88.447
31336.2200	2.20	3.20	4	41.984	66.035	80.533	92.609
31336.2250	2.25	3.20	4	43.914	69.070	84.236	96.866
31336.2300	2.30	3.20	4	45.887	72.174	88.021	101.219
31336.2350	2.35	3.20	4	47.904	75.346	91.890	105.668
31336.2400	2.40	3.20	4	49.964	78.587	95.841	110.212
31336.2450	2.45	3.20	4	52.067	81.895	99.876	114.852
31336.2500	2.50	3.20	4	54.214	85.272	103.994	119.588
31336.2550	2.55	3.50	4	56.404	88.717	108.196	124.419
31336.2600	2.60	3.50	4	58.638	92.230	112.480	129.346
31336.2650	2.65	3.50	4	60.915	95.812	116.848	134.369
31336.2700	2.70	3.50	4	63.235	99.461	121.299	139.487
31336.2750	2.75	3.50	4	65.599	103.179	125.833	144.701
31336.2800	2.80	3.50	4	68.006	106.965	130.451	150.011

Instruction

	< 150 N
	< 250 N
	> 250 N

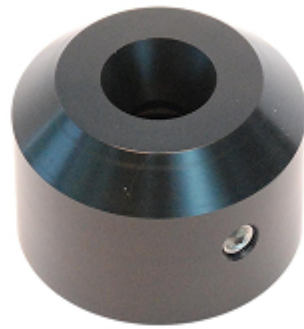
When using high-pressure spray guns and lances manually, the recoil force to be absorbed in the longitudinal axis of the spraying device must not exceed 250N! If the recoil force exceeds 150N, a body support must be used!

Accessories



Assembly tool

Art. No. 10269



Plastic protective cap

Art. No. 31857

FAQ

1. What makes the MONRO-JET® F2 orbital nozzle so special?

The MONRO-JET® F2 combines the high impact force of a spot jet with the area performance of a flat jet. As a result, it achieves a cleaning performance that is several times higher while maintaining a constant jet quality. Its compact design, robust construction and "Swiss Quality" make it particularly durable and reliable - even under demanding operating conditions.

2. What applications is the MONRO-JET® F2 suitable for?

The orbital nozzle can be used for a wide range of applications - both in building construction and civil engineering as well as in industrial applications. Typical areas of application are

- Deburring and cleaning of cast parts
- Removal of surface coatings
- Paint and bitumen removal
- Concrete removal
- Offshore applications
- Shipbuilding

Thanks to its high performance, it is ideal for precise surface treatment and intensive clearing work.

3. What are the technical specifications of the MONRO-JET® F2?

- **Max. Operating pressure:** up to 1,500 bar
- **Max. Operating temperature:** 100 °C
- **Rotor Ø:** 0.60 mm to 2.80 mm
- **Flow rate:** up to 150.0 l/min (depending on model)
- **Bores:** 2 or 4, depending on model

The different rotor and flow rate variants enable precise adjustment to your application.

4. Which connection threads are available?

The MONRO-JET® F2 is available with five different connection threads and can be used with all approved high-pressure fittings and mounted on lances:

- 1/4" BSP
- 3/8" BSP
- 3/8" NPT
- 1/2" BSP
- 1/2" NPT

This ensures simple integration into existing high-pressure systems.

5. What needs to be considered for manual use?

When used with high-pressure spray guns or lances, the recoil force in the longitudinal axis must not exceed 250 N. If the recoil force exceeds 150 N, a suitable body support must be used.

Suitable spare parts and accessories are available for maintenance and protection, including

- Front cover (art. no. 11458)
- Assembly tool (art. no. 10269)
- Plastic protective cap (item no. 31857)