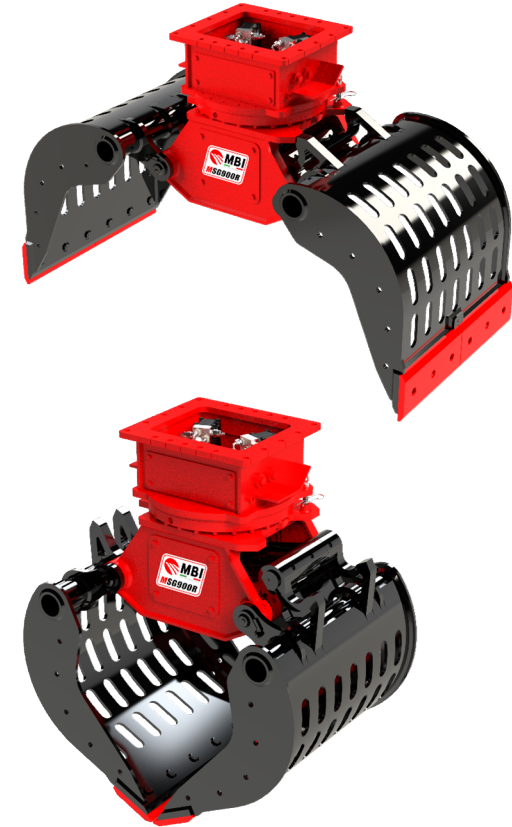
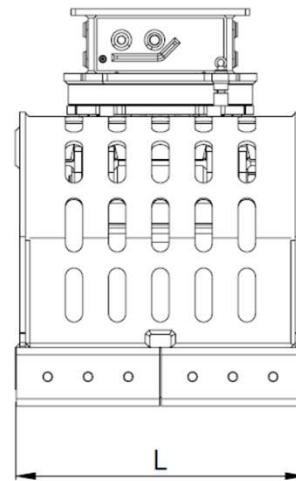
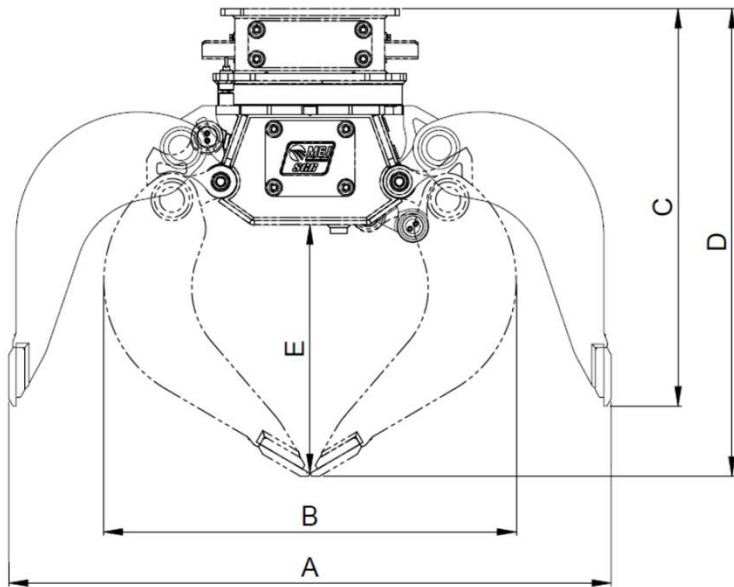


GRAPPLE with Hydraulic Rotation

MSG200R-MSG300R-MSG450R-MSG600R-MSG850R-MSG900R-MSG1000R-MSG1100R-MSG1200R-MSG1500R-MSG1900R-MSG2500R-MSG2700R



Dimensions

		Unit of measure	MSG200R	MSG300R	MSG450R	MSG600R	MSG850R	MSG900R	MSG1000R	MSG1100R	MSG1200R	MSG1500R	MSG1900R	MSG2500R	MSG2700R
Jaw opening	A	[mm]	900	1100	1500	1650	1700	1915	2000	2000	2000	2100	2230	2240	2240
Jaw closing	B	[mm]	620	715	1030	1090	1100	1220	1300	1300	1300	1430	1400	1420	1455
Height opening	C	[mm]	725	800	1100	1130	1140	1220	1340	1340	1340	1370	1490	1500	1500
Height closing	D	[mm]	790	912	1240	1310	1340	1430	1550	1550	1550	1600	1745	1770	1770
Shell height	E	[mm]	350	430	585	665	690	730	800	800	800	850	895	900	900
Shell width	L	[mm]	400	500	600	600	800	900	750	900	1000	1000	1200	1300	1350

GRAPPLE with Hydraulic Rotation



MSG200R-MSG300R-MSG450R-MSG600R-MSG850R-MSG900R-MSG1000R-MSG1100R-MSG1200R-MSG1500R-MSG1900R-MSG2500R-MSG2700R

Technical bulletin

	Unit of measure	MSG200R	MSG300R	MSG450R	MSG600R	MSG850R	MSG900R	MSG1000R	MSG1100R	MSG1200R	MSG1500R	MSG1900R	MSG2500R	MSG2700R
Excavator weight	[t]	1,5-3	3-6	5-8	7-11	10-15	14-17	14-18	16-20	18-22	21-25	25-30	30-35	35-40
Tool weight without coupler	[kg]	155	260	500	650	760	930	1150	1220	1300	1390	2040	2300	2350
Tool weight with coupler *	[kg]	175	300	565	750	860	1030	1330	1400	1480	1570	2260	2520	2570
Supplement of weight with legs without holes	[kg]	4	5	15	20	40	34	25	30	30	50	60	80	80
N° of cylinder	-----	1	1	1	1	1	2	2	2	2	2	2	2	2
Force at upper tips	[t]	1,5	2,1	2,8	3,5	4	5	6	6	6	6	8,5	8,5	8,5
Capacity	[litri]	50	100	200	300	400	500	500	600	700	800	900	1000	1100
Hydraulic working pressure	[bar]	200-250	200-250	200-250	250-300	300-320	300-350	300-350	300-350	300-350	300-350	300-350	300-350	300-350
Oil flow	[l/min]	5-8	10-15	20-30	20-30	20-30	50-60	50-60	50-60	50-60	50-60	70-80	70-80	70-80
Rotation type	-----	360° H	360° H	360° H	360° H	360° H	360° H	360° H	360° H	360° H	360° H	360° H	360° H	360° H
N° of motor	-----	1	1	1	1	1	2	2	2	2	2	2	2	2
Hydraulic motor max oil pressure	[bar]	90-100	90-100	130-150	130-150	130-150	130-150	130-150	130-150	130-150	130-150	130-150	130-150	130-150
Hydraulic motor oil flow	[l/min]	8-10	8-10	15-20	15-20	15-20	20-30	30-40	30-40	30-40	30-40	30-40	30-40	30-40
Time of closing at max oil flow	[s]	1,7	1,6	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,5	2,5	2,5
Time of opening at max oil flow	[s]	1,3	1,1	1,6	1,6	1,6	1,5	1,5	1,5	1,5	1,5	1,75	1,75	1,75
N° of cycles per minute at max oil flow	[cycles/min]	20	22,2	16	16	16	16,5	16,5	16,5	16,5	16,5	14	14	14
N° of revs per minute at max oil flow	[revs/min]	10	10	17	17	17	12,8	12,8	12,8	12,8	12,8	11,7	11,7	11,7
Hyd. ports size cylinder	-----	3/8" GAS	1/2" GAS	1/2" GAS	1/2" GAS	1/2" GAS	1/2" GAS	3/4" GAS	3/4" GAS	3/4" GAS	3/4" GAS	3/4" GAS	3/4" GAS	3/4" GAS
Hyd. ports size rotation	-----	3/8" GAS	3/8" GAS	1/2" GAS	1/2" GAS	1/2" GAS	1/2" GAS	1/2" GAS	1/2" GAS	1/2" GAS	1/2" GAS	1/2" GAS	1/2" GAS	1/2" GAS
Hyd. port size drain line	-----	N.N.	N.N.	N.N.	N.N.	N.N.	N.N.	N.N.	N.N.	N.N.	N.N.	N.N.	N.N.	N.N.
Optional blade	-----	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Automatic grease system	-----	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

* The tool weight, here noted, includes also the MBI's STD coupler.

All models are with bolted coupler.

N.N.: not needed. Refers to drain the Hydraulic rotation.

The noted performances have been achieved by the maximum pressure and capacity values.

Characteristics and specifics of product could be varied without obligation of notice.