



SCRAP AND RECYCLING

DPG POLYP GRABS



IN THE END... IT'S ONLY ABOUT THE RIGHT TOOL

DPG POLYP GRABS

Meets the most important demands of the clients. The Demarec P-Grapple with its two different types of 360° rotation was engineered to deliver an orange peel grapple for the handling of bulky materials with a maximum closing force and optimal weight to performance ratio in daily use. This robust tool can be used for a wide variety of jobs, e.g. scrap handling. Orange peel grapple with 4 or 5 tines and 450 litres volume for the handling of bulky scrap with excavators from 16t up to 22t operating weight, or as heavy duty version (HD-Series) for excavators from 20t up to 200t operating weight and with up to 5000 litres volume.

Key Features and Benefits

- Available with 4 or 5 tines in 4 different profiles F, H, W, T
- Hydraulic cylinders are fitted with replaceable piston rod protection and are hydraulically end cushioned
- Oil distributor with integrated non-return valve mounted directly underneath rotator
- Oil distribution and hydraulic hoses are protected in the carrier
- Greasing points are easily accessible
- Reinforced tines made of wear-resistant steel HB 400
- Weld-on tips made of high resistant forged and tempered steel HB 500
- High closing forces
- Accurate fittings eliminate tine distortion, solid end stops (open & close)
- Reinforced bolts, large bearing surface for bolts, specially coated solid steel bushings

New Heavy Duty Series HD:

- Robust, fully integrated rotation with sturdy slewing ring and internal hoses guarantees optimal force transmission and prevents hose break. The integrated pressure relief valve protects against overcharge
- Swivel and bevel sealed. Rotary feedthrough and motor accessible directly
- Up to 200 t operating weight with 6 tines in 3 profiles

Hydraulics

Type	Opening/ closing Pmax (bar)	Flow (l/min)	Rotation Pmax (bar)	Flow (l/min)
DPG-22-450	350	50-150	320	20-50
DPG-30-HD	350	120-200	170	20-30
DPG-40-HD	350	120-200	170	20-30
DPG-51-HD	350	120-200	170	20-30
DPG-80-HD	350	200-350	200	20-60
DPG-120-HD	350	200-350	140-250	20-50
DPG-200-HD	350	300-400	140-200	20-60
DPG-25-VR-HD	350	50-200	170	20-30

Heavy Duty (HD) models are equipped with a slewing ring and rotation motor.



Rigid mount

Technical specs Demarec Polyp Grabs

Type	Carrier weight* (Tons)	Number of tines	Type of tines (litre)	Volume (mm)	Closing force** 35MPa. (kN)	Self weight of tines (kg)	Opening A (mm)	Width E (Closed) (mm)	Height C max. (Closed) (mm)	Load capacity
DPG-22-450-4-T	16-22	4	T	450	17	810	1910	1370	1550	7000
DPG-22-450-5-F	16-22	5	F	450	17	1145	1910	1370	1550	7000
DPG-22-450-5-H	16-22	5	H	450	17	1035	1910	1370	1550	7000
DPG-22-450-5-W	16-22	5	W	450	17	970	1910	1370	1550	7000
DPG-22-450-5-T	16-22	5	T	450	17	950	1910	1370	1550	7000
DPG-30-HD-600-4-F	20-30	4	F	600	27	1600	2130	1520	1980	7000
DPG-30-HD-600-4-H	20-30	4	H	600	27	1520	2130	1520	1980	7000
DPG-30-HD-600-4-W	20-30	4	W	600	27	1385	2130	1520	1980	7000
DPG-30-HD-600-4-T	20-30	4	T	600	27	1360	2130	1520	1980	7000
DPG-30-HD-600-5-F	20-30	5	F	600	27	1770	2130	1520	1980	7000
DPG-30-HD-600-5-H	20-30	5	H	600	27	1600	2130	1520	1980	7000
DPG-30-HD-600-5-W	20-30	5	W	600	27	1595	2130	1520	1980	7000
DPG-30-HD-600-5-T	20-30	5	T	600	27	1570	2130	1520	1980	7000
DPG-30-HD-800-5-F	20-30	5	F	800	27	1750	2290	1525	2065	7000
DPG-30-HD-800-5-H	20-30	5	H	800	27	1690	2290	1525	2065	7000
DPG-30-HD-800-5-W	20-30	5	W	800	27	1560	2290	1525	2065	7000
DPG-30-HD-800-5-T	20-30	5	T	800	27	1540	2290	1525	2065	7000
DPG-40-HD-600-5-H	26-40	5	H	600	38	1830	2200	1430	2170	10000
DPG-40-HD-600-5-W	26-40	5	W	600	38	1780	2200	1430	2170	10000
DPG-40-HD-600-5-T	26-40	5	T	600	38	1620	2200	1430	2170	10000
DPG-40-HD-800-4-W	26-40	4	W	800	38	1670	2200	1570	2170	10000
DPG-40-HD-800-4-T	26-40	4	T	800	38	1530	2200	1570	2170	10000
DPG-40-HD-800-5-F	26-40	5	F	800	38	2035	2200	1570	2170	10000
DPG-40-HD-800-5-H	26-40	5	H	800	38	1950	2200	1570	2170	10000
DPG-40-HD-800-5-W	26-40	5	W	800	38	1940	2200	1570	2170	10000
DPG-40-HD-800-5-T	26-40	5	T	800	38	1760	2200	1570	2170	10000
DPG-51-HD-1000-4-W	36-50	4	W	1000	33	1755	2440	1630	2200	10000
DPG-51-HD-1000-4-T	36-50	4	T	1000	33	1715	2440	1630	2200	10000
DPG-51-HD-1000-5-F	36-50	5	F	1000	33	2165	2440	1630	2200	10000
DPG-51-HD-1000-5-H	36-50	5	H	1000	33	2110	2440	1630	2200	10000
DPG-51-HD-1000-5-W	36-50	5	W	1000	33	2050	2440	1630	2200	10000
DPG-51-HD-1000-5-T	36-50	5	T	1000	33	1830	2440	1630	2200	10000
DPG-51-HD-1250-5-H	36-50	5	H	1250	33	2195	2665	1835	2415	10000
DPG-51-HD-1250-5-W	36-50	5	W	1250	33	2185	2665	1835	2415	10000
DPG-51-HD-1500-4-H	36-50	4	H	1500	33	2000	2840	1870	2500	10000
DPG-51-HD-1500-4-W	36-50	4	W	1500	33	1830	2840	1870	2500	10000
DPG-51-HD-1500-5-F	36-50	5	F	1500	33	2360	2840	1870	2500	10000
DPG-51-HD-1500-5-H	36-50	5	H	1500	33	2305	2840	1870	2500	10000
DPG-51-HD-1500-5-W	36-50	5	W	1500	33	2245	2840	1870	2500	10000
DPG-51-HD-1500-5-T	36-50	5	T	1500	33	1995	2840	1870	2500	10000
DPG-80-HD-1500-4-T	50-80	4	T	1500	40	2500	2770	2010	2770	10000
DPG-80-HD-2000-5-H	50-80	5	H	2000	40	3200	3180	2070	2970	10000
DPG-80-HD-2000-5-W	50-80	5	W	2000	40	3000	3180	2070	2970	10000
DPG-80-HD-2000-5-T	50-80	5	T	2000	40	2780	3180	2070	2970	10000
DPG-80-HD-2500-5-H	50-80	5	H	2500	40	2780	3180	2070	3065	10000
DPG-80-HD-2500-5-W	50-80	5	W	2500	40	3110	3360	2200	3065	10000
DPG-80-HD-2500-5-T	50-80	5	T	2500	40	2890	3360	2200	3065	10000
DPG-80-HD-3000-5-H	50-80	5	H	3000	40	3420	3540	2325	3155	10000
DPG-80-HD-3000-5-W	50-80	5	W	3000	40	3220	3540	2325	3155	10000
DPG-120-HD-2000-5-H	80-120	5	H	2000	61	4570	3200	2280	3180	10000
DPG-120-HD-2000-5-W	80-120	5	W	2000	61	4370	3200	2280	3180	10000
DPG-120-HD-2000-5-T	80-120	5	T	2000	61	4220	3200	2280	3180	10000
DPG-120-HD-3000-5-H	80-120	5	H	3000	61	4700	3910	2390	3350	10000
DPG-120-HD-3000-5-W	80-120	5	W	3000	61	4500	3910	2390	3350	10000
DPG-120-HD-3000-5-T	80-120	5	T	3000	61	4350	3910	2390	3350	10000
DPG-200-HD-5000-6-H	120-200	6	H	5000	81	6800	4280	2810	3710	15000
DPG-200-HD-5000-6-W	120-200	6	W	5000	81	6500	4280	2810	3710	15000
DPG-200-HD-5000-6-T	120-200	6	T	5000	81	6400	4280	2810	3710	15000

Rigid mount

DPG-P25-VR-HD-600-3-W*	18-25	3	W	600	38	1600	2200	1420	2115	3000
DPG-P25-VR-HD-800-3-W*	18-25	3	W	800	38	1490	2200	1560	2115	3000
DPG-P25-VR-HD-800-4-W*	18-25	4	W	800	38	1980	2250	1550	2120	3000

* Depending of capacity of carrier ** Weight excluding suspension.

Subject to change without notice.

Key Features and Benefits

1

Rotation

- Robust, fully integrated rotation
- With sturdy slewing ring and internal hoses against hose break
- Optimal force transmission
- Integrated pressure relief valve against overcharge
- Swivel and bevel sealed; rotary feedthrough and motor directly accessible (P30 - P200)

2

Main Carrier

- Enveloping design of main carrier protects hydraulic cylinders as well as hydraulic hoses 100%
- Good access to hoses and oil distributor due to easily removable covers
- Mounting of radiation detector or magnet possible

3

Hydraulics

- Maximum operating pressure 350 bar
- Hydraulic cylinders cushioned for protection against impact loads
- Non-return valve prevents from unintended pressure drop
- Piston rod protection encloses piston rod and thus avoids damages
- Use of high pressure hoses, hence even highest pressures caused by impacts can be absorbed

4

Weight / Performance ratio

- All components are stress and weight optimised with FEM: meaning 10% weight reduction at 20% stress reduction
- Use of high strength fine grained steel
- All wear plates made of highly wear resistant steel 400 HB

5

Tine

- Slim, outline optimised tine guarantees an ideal penetration
- No protruding parts, ensures perfect discharging of the goods
- Massive end stops relieve the hydraulics in tine's extreme positions
- Due to ideal tine outline, no materials get caught up, which potentially could damage the cylinder
- Forged tips of tines 500 HB

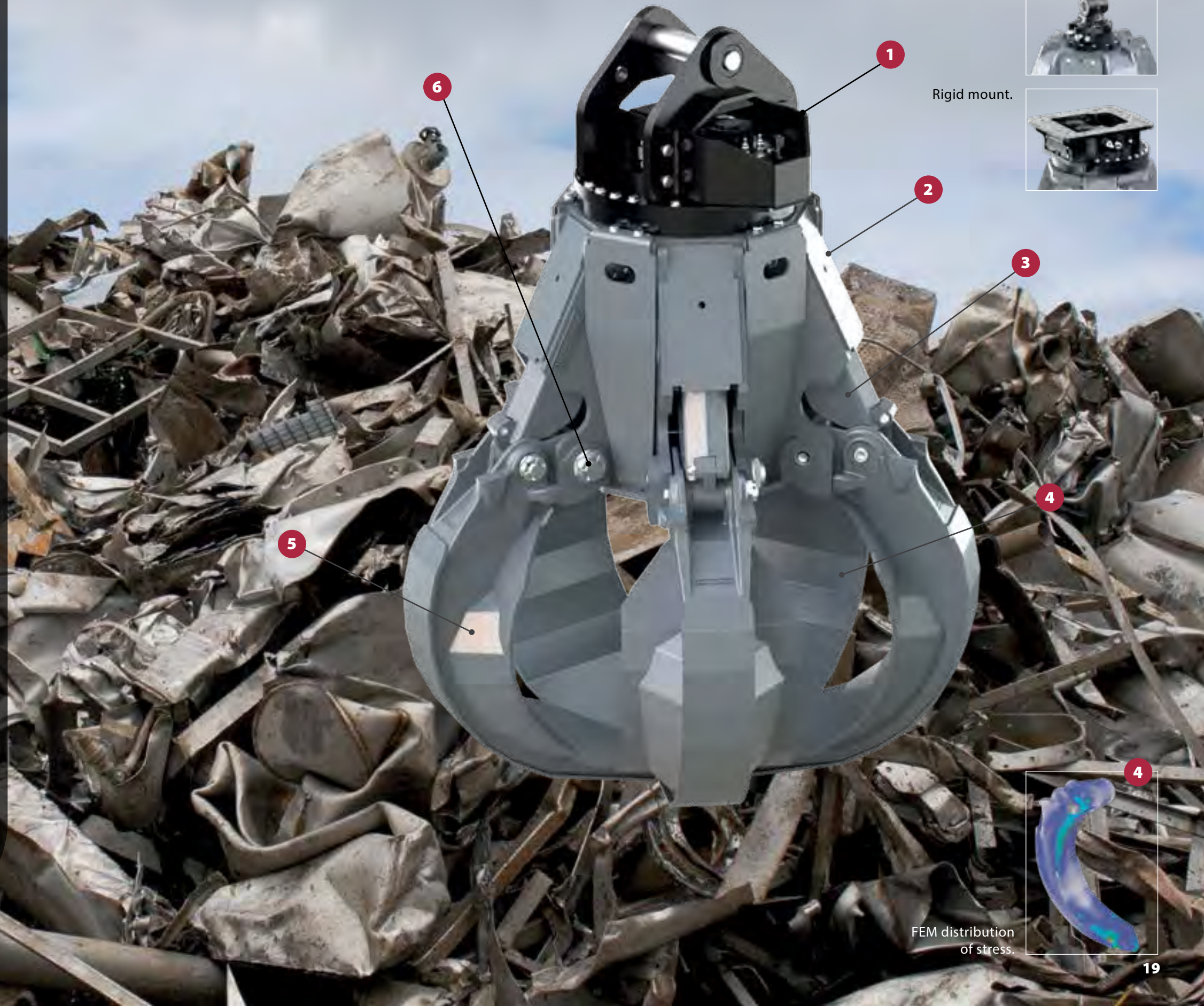
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Bearing

- Generously sized pin connections reduce face pressure
- Induction hardened pins are seated in steel bushings
- Tine heads and main bearing are widely spaced in order to absorb distortion as well as to reduce the face pressure in the bushings
- Lateral thrust discs provide a solid support for the tines and reduce wear to a minimum



DPG POLYP GRABS



From P30VHD:

Fully integrated extra HD Rotation with sturdy slewing ring.



P22V.



Rigid mount.



2

3

4

5

6

1

4

FEM distribution of stress.



FROM PASSION TO PERFORMANCE



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