

Demolition and Sorting Grapple DSG

Ideal for Demolition

The DSG Series demolition and sorting grapples are designed specifically for demolition, for sorting recycling material and for loading it. They feature LST's HWRI drive with its 360° continuous



rotation and throttle valve control for constant and optimized rotary speed and exact positioning. All of the models can be attached by changeable adapter plates and are equipped with changeable blades and cylinder protection.

Extremely Maintenance-Friendly

All of the hydraulic components of the DSG demolition and sorting grapple series, including the cylinders, hoses and rotary motors are positioned for protection. Bodies and casings are completely made of Hardox®-steel, i.e. high durability, reduced wear and low maintenance costs.



Special Features

- Swivel device with either hydraulic rotary motor or hydraulically-driven double bearing rotary system HWRI
- heavy-duty demolition design with protection plates, shielded hose connections, curved body and 90° opening angle from type DSG 70 up.
- made of Hardox®-steel
- bolt attached blade with standard reversible mount
- all moving parts pivoted and accessible for greasing
- closed bucket shell optionally available

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Ruggedness and Versatility

LST's demolition and sorting grapples have been especially developed for heavy-duty jobs. Their robust design is renowned.

Design and operating capabilities of the DSG grapples are perfectly coordinated. The main body is curved upwards so that the material falling down does not get caught on corners or edges - and so that the operator can see better. The protection



plates are bolted on to all the endangered spots making it almost impossible for materials such as wood or reinforcement wires to penetrate the grapple. The new cylinder arrangement provides the grapple with more power and faster opening and closing speeds.



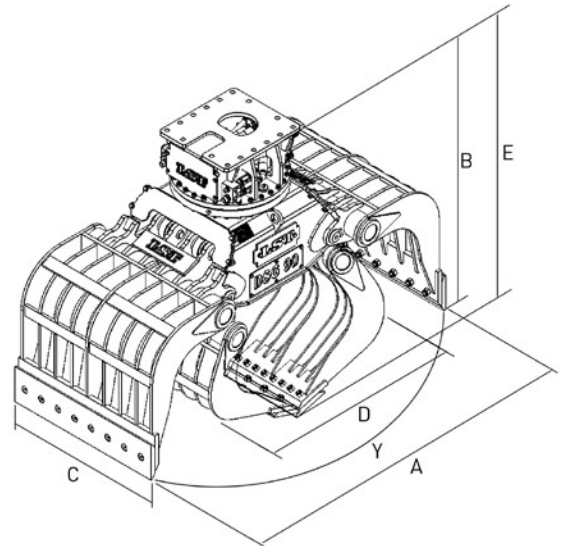
From Professionals to Professionals

Using the DSG Series grapples is facilitated by their narrow and downsized body. At the same time the optimum opening angle of 90° results in a perfect ratio of force and filling content.



The extra-strong demolition struts are extremely resistant to buckling and stress (a heat treated option is available for material sorting). The solid double bearing rotary mount is driven by an internal hydraulic motor which is protected by pressure surge valves. Tight ducting protects the hydraulic hoses.

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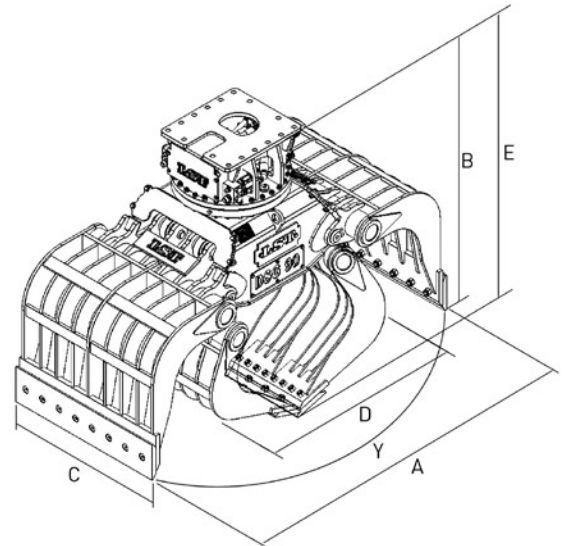
Model		DSG 10	DSG 25	DSG 35	DSG 40	DSG 45	DSG 50	DSG 70
Carrier weight (demolition)	[t]	1,2 - 3,5	2 - 6	5 - 8	3,5 - 5	6 - 10	6 - 9	10 - 14
Carrier weight (sorting)	[t]	1,2 - 3,5	2 - 6	5 - 8	3,5 - 6	6 - 10	5 - 12	10 - 16
Weight (strut version)	[kg]	120	210	370	400	520	450	650
Cylinder		1	1	1	1	1	1	2
Capacity SAE	[m ³]	0,1	0,2	0,3	0,2	0,4	0,4	0,5
max. Operating pressure	[bar]	200	300	300	260	300	260	310
max. Oil flow	[l/min]	80	80	80	75 - 105	80	75 - 105	40 - 60
Blades changeable		yes	yes	yes	yes	yes	yes	yes
Shutting force Y (tip-of-jaw)	[t]	0,6	1,5	2	2,5	2	3	3,6
Dimensions	[mm]							
- A (Opening width)		800	1200	1300	1150	1450	1500	1840
- B (Height open)		600	840	1030	900	1130	950	1100
- C (Grab width)		300	420	500	600	600	600	600
- D (Width closed)		565	640	780	770	870	890	1110
- E (Height closed)		670	890	1050	1000	1180	1150	1350
Rotation								
- 360° Rotation *		HER	HER	HER	HWRI	HER	HWRI	HWRI
- max. Operating pressure	[bar]	250	250	300	120	300	120	140
- max. Oil flow	l/min	40	40	80	10	80	10	20

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HER - Hydraulic Engine

HWRI - Double bearing fifth wheel driven by an internal hydraulic motor protected by shock valves.

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Model		DSG 90	DSG 150	DSG 200	DSG 250	DSG 350	DSG 400
Carrier weight (demolition)	[t]	10 - 15	16 - 25	22 - 30	31 - 45	40 - 60	45 - 65
Carrier weight (sorting)	[t]	10 - 19	15 - 35	22 - 45	30 - 65	40 - 60	45 - 65
Weight (strut version)	[kg]	1150	1650	2150	3350	3860	4300
Cylinder		2	2	2	2	2	2
Capacity SAE	[m ³]	0,7	0,9	1,2	1,5	1,65	1,95
max. Operating pressure	[bar]	320	320	320	320	330	330
max. Oil flow	[l/min]	75 - 105	75 - 105	95 - 125	95 - 125	120	130
Blades changeable		yes	yes	yes	yes	yes	yes
Shutting force Y (tip-of-jaw)	[t]	5	6,5	10	13,5	14	16
Dimensions	[mm]						
- A (Opening width)		1950	2060	2455	2800	2500	2800
- B (Height open)		1250	1350	1500	1750	2200	2450
- C (Grab width)		900	1000	1150	1300	1500	1800
- D (Width closed)		1200	1260	1450	1700	1760	1950
- E (Height closed)		1400	1550	1750	1950	1950	2100
Rotation							
- 360° Rotation *		HWRI	HWRI	HWRI	HWRI	HWRI	HWRI
- max. Operating pressure	[bar]	140	140	140	140	120	120
- max. Oil flow	l/min	10	10	10	10	50	50

*

HER - Hydraulic Engine

HWRI - Double bearing fifth wheel driven by an internal hydraulic motor protected by shock valves.