

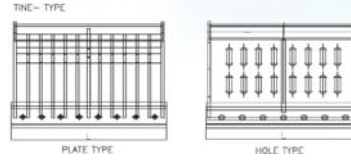
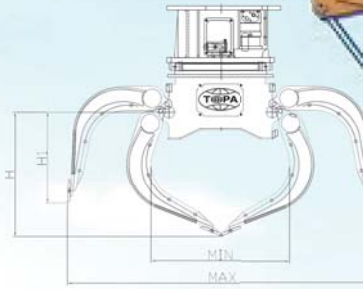


# GRAPPLES...

- HARDOX has been applied to main frame for long durability and life.
- Applicable for carrying to industrial waste and rock or so on
- Lower height designed is enable to load or unload at high work place
- Hose having high pressure is installed at inside in order to minimize the damages caused by external environment



# STONE GRAPPLE , A TYPE (DEMOLITION GRAPPLE)



Description		Unit	XDB 10	XDB 20	XDB 30	XDB 40	XDB 50
Operating Weight		kg	220	250	410	650	800
Mechanical Dimension	MIN	mm	652	652	707	774	818
	MAX	mm	1105	1105	1300	1500	1700
	H	mm	415	415	460	531	665
	H1	mm	350	350	451	510	532
	L	mm	400	450	550	700	880
LIFTING		kg	2000	3000	4000	5000	6000
CYLINDER	Max. Working Pressure	bar	210	210	250	250	250
	Oil Flow	ℓ/min	30~35	30~35	40~60	40~60	40~60
ROTATING MOTOR	Max. Working Pressure	bar	100	100	120	120	120
	Oil Flow	ℓ/min	10~20	10~20	20~30	20~30	20~30
Suitable Excavator		ton	2~3	3~5	5~7	7~10	11~15

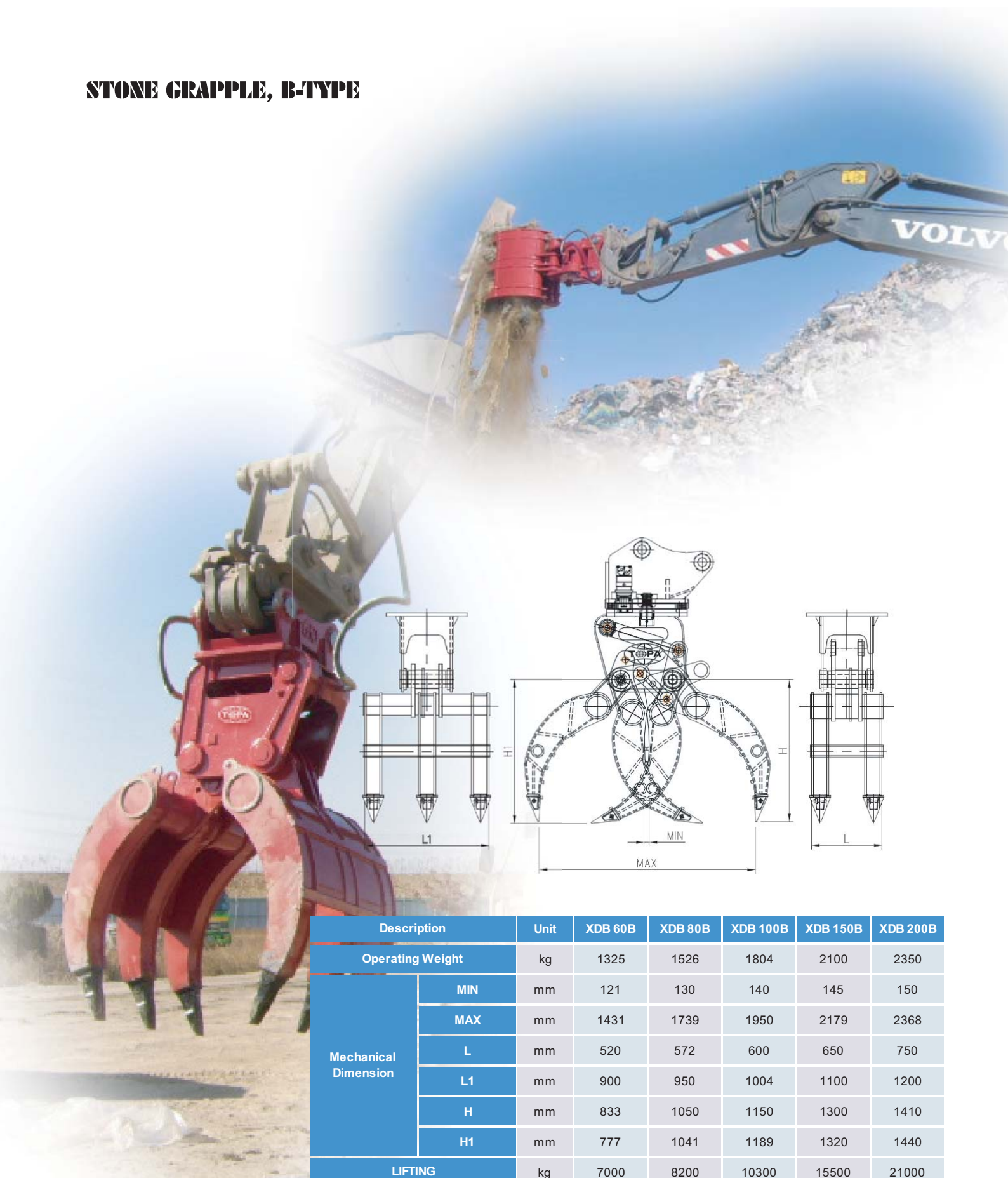
Description		Unit	XDB 60	XDB 80	XDB 100	XDB 150	XDB 200
Operating Weight		kg	1050	1370	1700	2000	2200
Mechanical Dimension	MIN	mm	863	883	982	1060	1170
	MAX	mm	1886	1923	2082	2120	2250
	H	mm	776	905	956	1006	1100
	H1	mm	567	744	770	794	830
	L	mm	900	1030	1080	1160	1250
LIFTING		kg	7000	8100	10200	14100	19800
CYLINDER	Max. Working Pressure	bar	280	280	300	320	320
	Oil Flow	ℓ/min	40~80	40~80	210	250	250
ROTATING MOTOR	Max. Working Pressure	bar	140	140	140	140	140
	Oil Flow	ℓ/min	20~40	20~40	20~40	20~40	20~40
Suitable Excavator		ton	12~18	18~25	28~35	36~42	43~47

1) 360° Free Hydraulic Motor Rotating

2) Two Cylinder system applied to XDB 100 / 150 / 200 for improving its power and working efficiency.



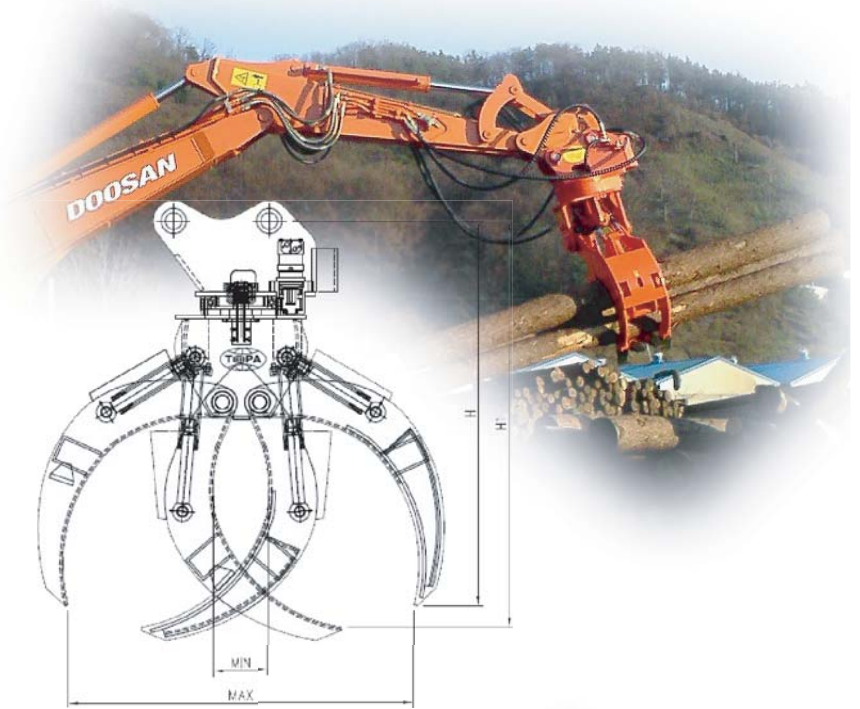
# STONE GRAPPLE, B-TYPE



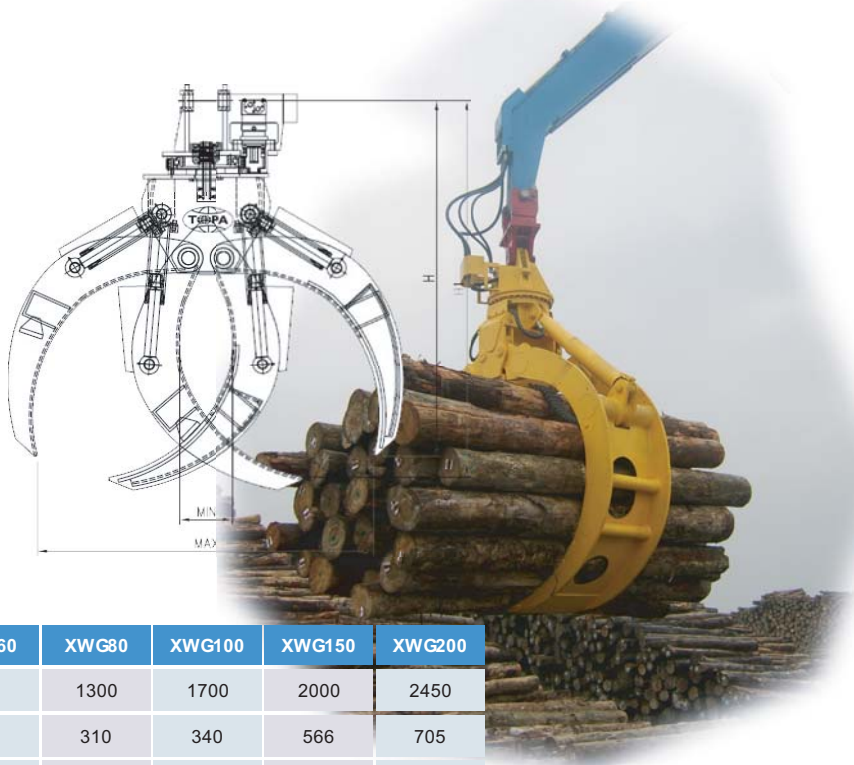
Description		Unit	XDB 60B	XDB 80B	XDB 100B	XDB 150B	XDB 200B
Operating Weight		kg	1325	1526	1804	2100	2350
Mechanical Dimension	MIN	mm	121	130	140	145	150
	MAX	mm	1431	1739	1950	2179	2368
	L	mm	520	572	600	650	750
	L1	mm	900	950	1004	1100	1200
	H	mm	833	1050	1150	1300	1410
	H1	mm	777	1041	1189	1320	1440
LIFTING		kg	7000	8200	10300	15500	21000
CYLINDER	Max. Working Pressure	bar	280	300	320	320	320
	Oil Flow	ℓ/min	40~80	60~100	80~150	80~150	100~180
ROTATING MOTOR	Max. Working Pressure	bar	140	140	140	140	140
	Oil Flow	ℓ/min	20~40	20~40	20~40	20~40	20~40
Suitable Excavator		ton	12~18	18~25	28~35	36~42	43~47

# WOOD GRAPPLE

## LINK TYPE



## PENDULUM TYPE



Description		Unit	XWG30	XWG60	XWG80	XWG100	XWG150	XWG200
Operating Weight		kg	400	900	1300	1700	2000	2450
Mechanical Dimension	MIN	mm	100	280	310	340	566	705
	MAX	mm	1196	1709	1750	1880	2250	2600
	H	mm	397	741	778	1262	1550	1720
	H1	mm	675	1157	1244	1370	1846	2010
LIFTING		kg	4000	6000	8000	9500	11500	21000
CYLINDER	Max. Working Pressure	bar	250	280	280	300	320	320
	Oil Flow	ℓ/min	40~60	40~80	40~80	60~100	80~150	80~150
ROTATING MOTOR	Max. Working Pressure	bar	120	140	140	140	140	140
	Oil Flow	ℓ/min	20~30	20~40	20~40	20~40	20~40	20~40
Suitable Excavator		ton	4~7	12~18	18~25	28~35	36~42	43~47

※ Option : LINK type or PENDULUM type