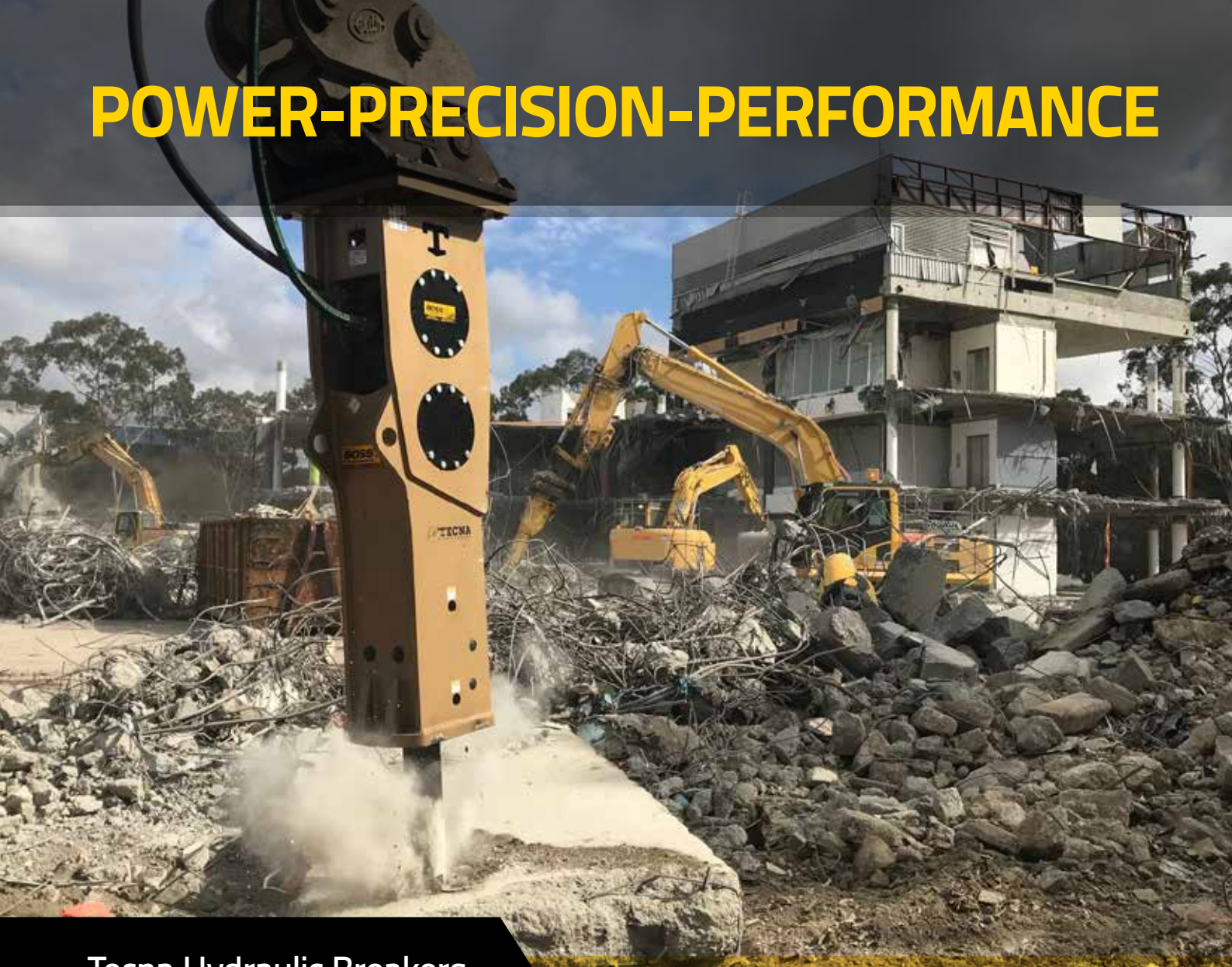


POWER-PRECISION-PERFORMANCE



Tecna Hydraulic Breakers



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Advanced design and proven performance combine to make TECNA Hydraulic Breakers a worldwide smash hit.

TECNA DESIGN MEANS

- LESS MOVING PARTS
- STATE OF THE ART KNOW-HOW

ABOUT TECNA GROUP

In 1998 PRIVERA industriale, already on the market for over 20 years as a commercial and technical partner of companies such as Siemens, PARKER HANNIFIN and several other companies operating in the field of hydraulics and mechatronics, decided to establish TECNA Group as an offshoot operating in the engineering sector.

Currently TECNA Group has developed its expertise in the field of hydraulic breakers, becoming a benchmark with over twelve thousand machines sold.

The TECNA hydraulic breakers range consists of hammers, starting from 60 kg up to a weight of 3600 kg.

TECNA holds four patents and the TECNA Group quality system is ISO 9001 certified since 2001.

The TECNA manufacturing facilities cover an area of over three thousand square meters and have a production capacity of about 500 machines a month.

The high REVERSE ENGINEERING SKILLS allows TECNA to have 15,000 compatible parts in stock for breakers for the main European and Asian manufacturers, which combined with appropriate logistics standard, TECNA is capable of satisfying the demands of spare parts in stock within 6 hours from receipt of order making TECNA a reliable partner that operates effectively and efficiently.

The high levels of TECNA engineering, allow to provide to the customer, tailor-made solutions for applications such as Tunneling, Underwater and High temperatures.

LIGHT WEIGHT

		T60	T80	T120	T160	T200	T250	T300
SUITABLE EXCAVATOR	tonnes	0.6-1.6	0.6-2.2	0.8-2.5	1.8-3.0	2.5-4.5	4-5	5-7
OPERATING WEIGHT	kg	75	90	120	160	200	250	320
TOOL DIAMETER	mm	40	40	45	48	56	65	73
OIL SUPPLY	l/min.	15-25	20-35	25-45	30-45	35-50	40-65	50-70
BREAKER WORKING PRESSURE	bar	100-140	100-140	100-140	100-140	100-140	100-140	100-140
RELIEF PRESSURE SETTING	bar	140	180	180	180	180	180	180
BACK PRESSURE AT THE BREAKER	bar	14	14	14	14	20	20	20
POWER INPUT KW	kw	5	6	7	8	11	13	15
IMPACT RATE	n/min.	600-900	600-900	500-800	600-900	600-900	700-1000	600-900
RETURN LINE HOSE CONNECTION		1/2" G	1/2" G	1/2" G	1/2" G	1/2" G	3/4" G	3/4" G
INLET LINE HOSE CONNECTION		1/2" G	1/2" G	1/2" G	1/2" G	1/2" G	3/4" G	3/4" G
REC'D. INLET LINE SIZE (Ø MIN.)	mm	10	10	10	12	12	15	15
REC'D. RETURN LINE SIZE (Ø MIN.)	mm	12	12	14	14	14	18	18



EXCAVATOR/ BREAKER MATCH

Possible Optimum Possible

LIGHT WEIGHT

T60	0.6	0.8-1.2	1.6
T80	0.6	0.8-1.5	2.2
T120	0.8	1.2-2.0	2.5
T160	1.8	2.0-2.5	3.0
T200	2.5	2.8-3.2	4.5
T250	3.5	4.0-5.0	6.0
T300	3.5	4.0-6.0	7.5

MEDIUM WEIGHT

T400	7.0	8.0-9.0	10.0
T600	10.0	12.0-14.0	15.0
T800	12.0	14.2-16.0	18.0
T1000	16.0	18.0-20.0	22.0

HEAVY WEIGHT

T1300	16.0	19.0-22.0	24.0
T1500	18.0	20.0-24.0	25.0
T1800	21.0	23.0-25.0	28.0
T2400	25.0	27.0-33.0	36.0
T3200	30.0	32.0-40.0	44.0

Weights are shown in tonnes.

SIMPLE, TOUGH & RELIABLE

Design simplicity and quality manufacturing allow around **50% LESS COMPONENTS** compared to competitors.

- Less moving parts, other than an adequate manufacturing quality means more reliability.
- TECNA patents have a design that allow to have about 50% less of components when compared to competitors.
- TECNA patent design allows to have only 2 moving parts against 20 parts of the competition.
- In 10 years of production hydraulic breaker class 200 kg (for excavator size from 2800 kg to 4500 kg), 4000 units sold: failure components in contact with oil (pistons and/or cylinders) only 4.

MEDIUM WEIGHT

T400 T600 T800 T1000

7-10	10-15	12-18	16-20
400	600	850	1100
80	90	110	115
75-100	85-115	100-130	125-145
100-140	130	120	120
180	160	160	160
20	12	8	10
22	16	20	24
600-900	600-900	600-900	450-850
3/4" G	3/4" G	3/4" G	1" G
3/4" G	3/4" G	1" G	1" G
16	16	19	20
22	20	24	28

HEAVY WEIGHT

T1300 T1500 T1800 T2400 T3200

16-24	18-25	21-28	25-36	30-44
1300	1500	1900	2400	3000
120	130	140	150	160
125-150	135-160	160-180	190-225	220-260
130	130	100-140	140	140
160	180	180	200	200
12	12	12	10	10
32	32	50	80	92
400-800	450-850	450-800	400-650	400-650
1" G	1" G	1" G	1" G	1" G
1" G	1 1/4" G	1 1/4" G	1 1/4" G	1 1/4" G
24	24	26	28	32
32	32	32	36	38

5 TIMES THE DIFFERENCE

Tecna Group has following patents registered:

Patent 0001312140

Oleo-dynamic percussion machine working at constant pressure.

Patent 0001344810

Oleo-dynamic percussion machine with double impact mass.

Patent WO 2006/097816 A1

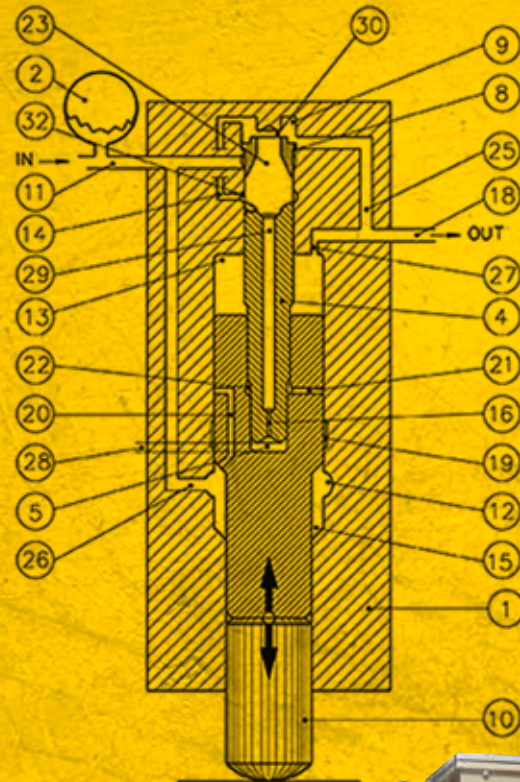
Oleo-dynamic percussion machine with on-off slide valve and pilot piston.

Patent 0001363596

International version of the patent N°3.

Patents BA2012A00019 and BA2012000A00055

Hydraulic hammers with Start & stop and optimized hydraulic circuit with 3D piston.



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