

1991

AREA



FPT INDUSTRIE S.P.A.



Spirit
30 years of
evolution of
the species



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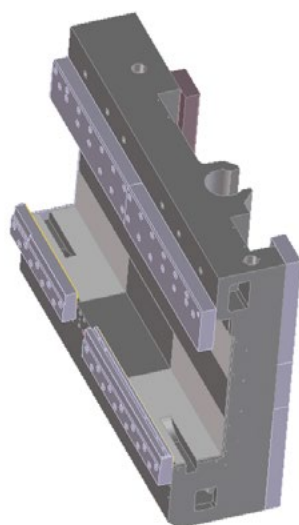
Spirit 100

PATENTS

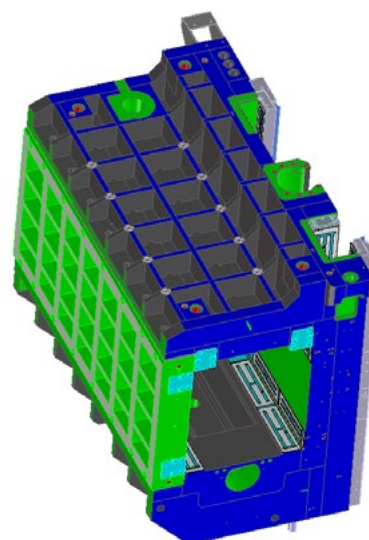


Spirit
30 years of
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the species

AREA EV - Traditional ram saddle



SPIRIT 100 - Ram box-in-box



INTRODUCTION TO THE NEW SPIRIT 100

This machine has been completely revised, thanks to the improvements made during its 30 years of evolution, structural enhancement on the hydrostatic technology and on all the management logic.

The new SPIRIT 100 has been carefully designed to be installed in the place of the previous AREA EV models, that is on the same foundation, without any change.

ADVANTAGES ON REPLACING EXISTING AREA WITH THE NEW SPIRIT 100

» SAME FOUNDATION / PIT

» SAME FLOORPLATE (POSSIBLE)

» SAME LAYOUT

» SAME TRT / TRF / RT-T (POSSIBLE)

BENEFITS ON REPLACING AREA WITH THE NEW SPIRIT 100

01 INCREASED POWER AND TORQUE

06 BHB HYDROSTATIC PATENT

02 INCREASED MAXIMUM RPM

07 FASTER UNIVERSAL HEAD ROTATION

03 INCREASED DYNAMICS

08 REDUCED TOOL CHANGE TIME

04 INCREASED PRECISION

09 REDUCED MAINTENANCE

05 INCREASED RIGIDITY

10 INDUSTRY 4.0 CONNECTED





TECHNICAL DATA

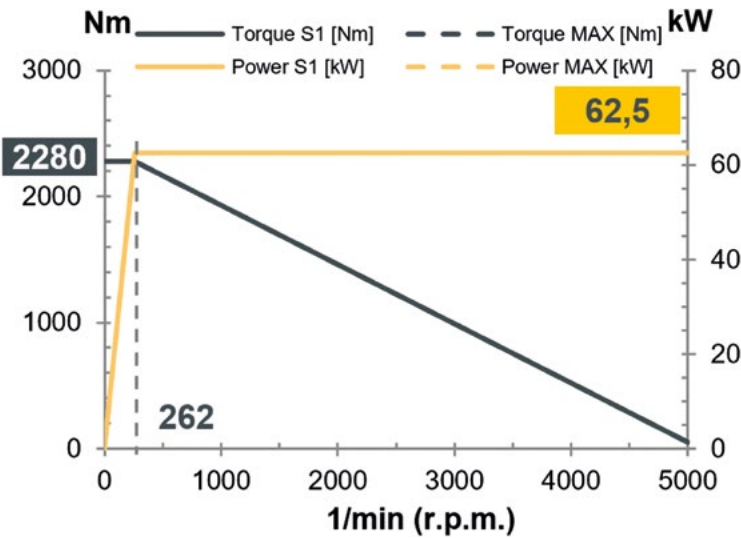
TRAVELS - CORSE - VERFAHRWEGE - COURSES

		AREA EV	→	SPIRIT 100
Longitudinal - Longitudinale Längs - Longitudinale	mm (in)	> 4.000 (> 157,5)		> 6.000 (> 236,2)
Cross - Trasversale Quer - Transversale	mm (in)	1.250 - 1.500 (49,2 - 59)		1.500 (59,0)
Vertical - Verticale Vertikal - Verticale	mm (in)	2.000 - 4.000 (78,7 - 157,5)		3000 - 4.000 (118,1 - 157,5)
Feed rate - Velocità di avanzamento Vorschubgeschwindigkeit Vitesse d'avance X, Y, Z	mm/min (ipm)	20.000 - 25.000 (787 - 984)		25.000 (984)

SPINDLE MOTOR

		AREA EV	→	SPIRIT 100
Power - Potenza - Leistung des Motors - Puissance	kW (Hp)	37 - 46 (50 - 62)		up to 62,5 (up to 83,8)
Max Spindle Torque - Coppia Massima Mandrino Max. Spindeldrehmoment - Couple De Broche Max.	Nm (lbf.ft)	1.206 - 2045 (890 - 1508)		up to 2.280 (up to 1.681,6)
Max spindle speed - Velocità massima di rotazione Maximale Drehzahl - Maxi vitesse de rotation	r.p.m	3.000 - 5.000		up to 5.000
Spindle taper - Attacco utensile Spindelkonus - Cône de broche		ISO 50		ISO 50 - HSK 100

This motorization system allows the “4” sides of the RAM to be completely guided and supported. The saddle structure enveloped the RAM and gives to the whole system a higher stiffness and symmetry.



HEAD RANGE

FOR AUTOMATIC HEAD CHANGER



TUPCG HEAD



TO HEAD



TTWM HEAD



UTS-UTB HEAD



SE4 HEAD



SE6 HEAD



TOI HEAD

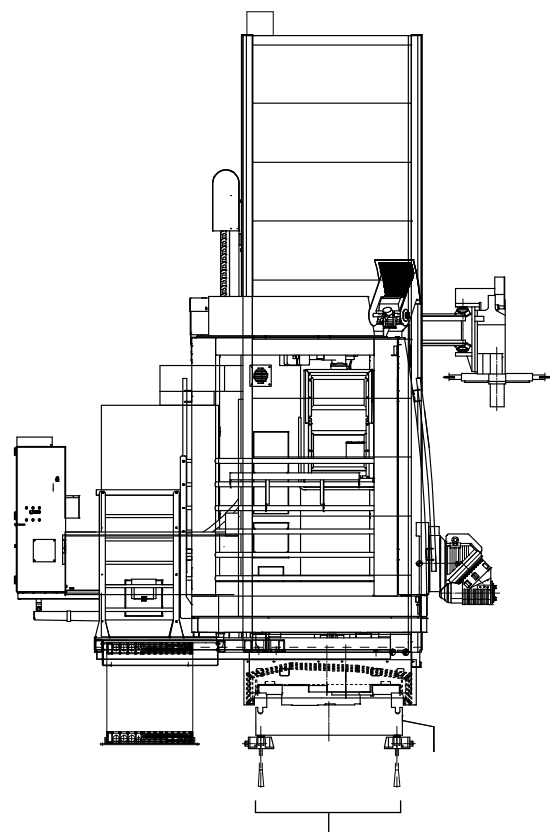


TOIS HEAD

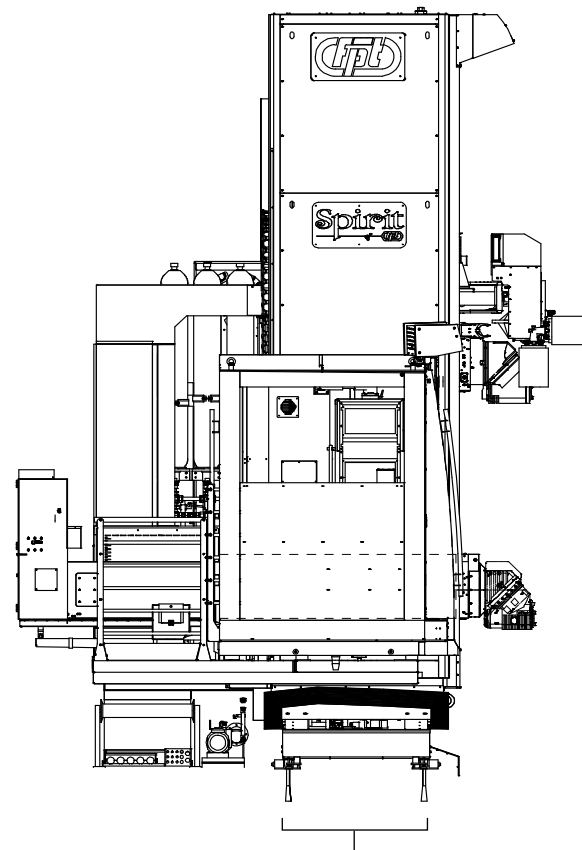
AUTOMATIC HEAD CHANGER



AREA EV - Side view

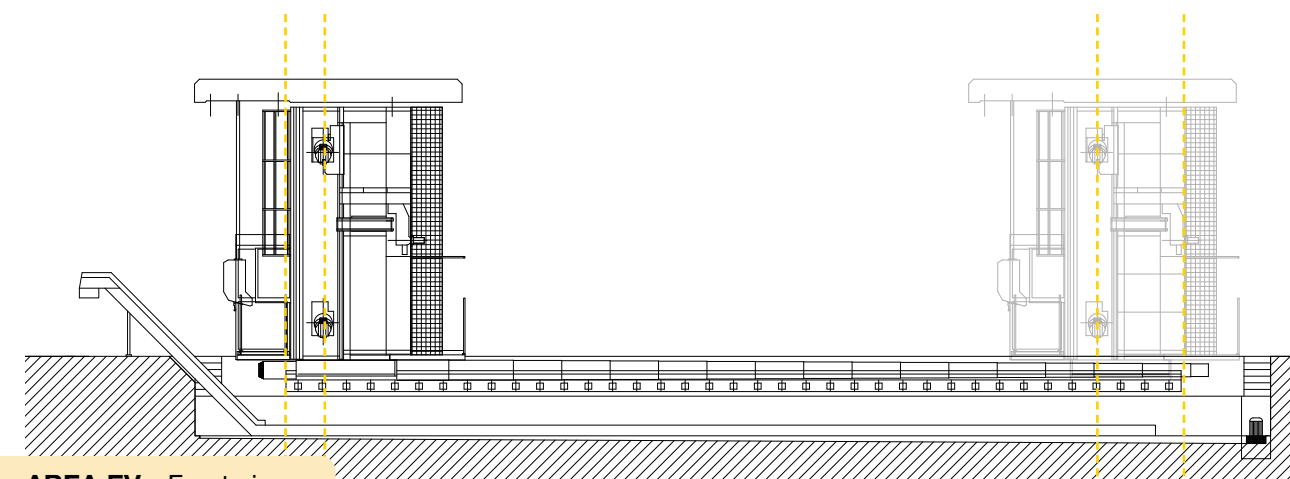


SPIRIT 100 - Side view



SAME FOUNDATION

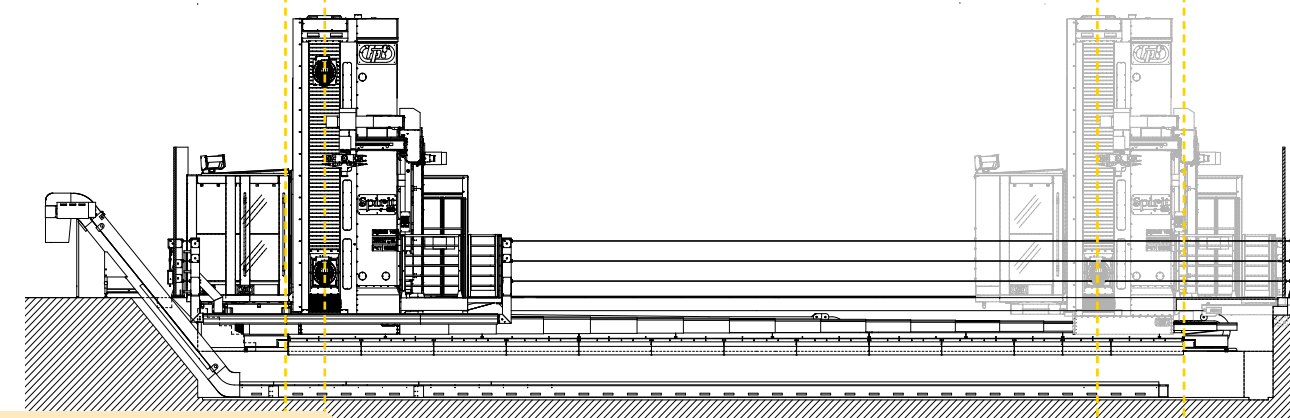
This technical layout represents the "Plug & Play" concept from AREA EV to SPIRIT 100



AREA EV - Front view

CORSA/TRAVEL/WEG/COURSE = 16000 mm

BASAMENTO/BED/BETT/BÂTI = 18500 mm



SPIRIT 100 - Front view

CORSA/TRAVEL/WEG/COURSE = 16000 mm

BASAMENTO/BED/BETT/BÂTI = 18500 mm





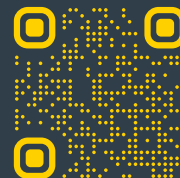
FROM 1991...
WITH **AREA**



...TO 2021
WITH *Spirit*
100



Spirit
100



FPT INDUSTRIE 812303

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Thinking
heads!

Join the
future!

